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Buffalo State College

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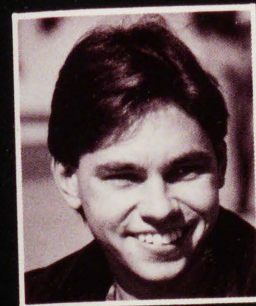


Admissions Office
State University College at Buffalo
1300 Elmwood Ave.
Buffalo, N.Y. 14222-1095

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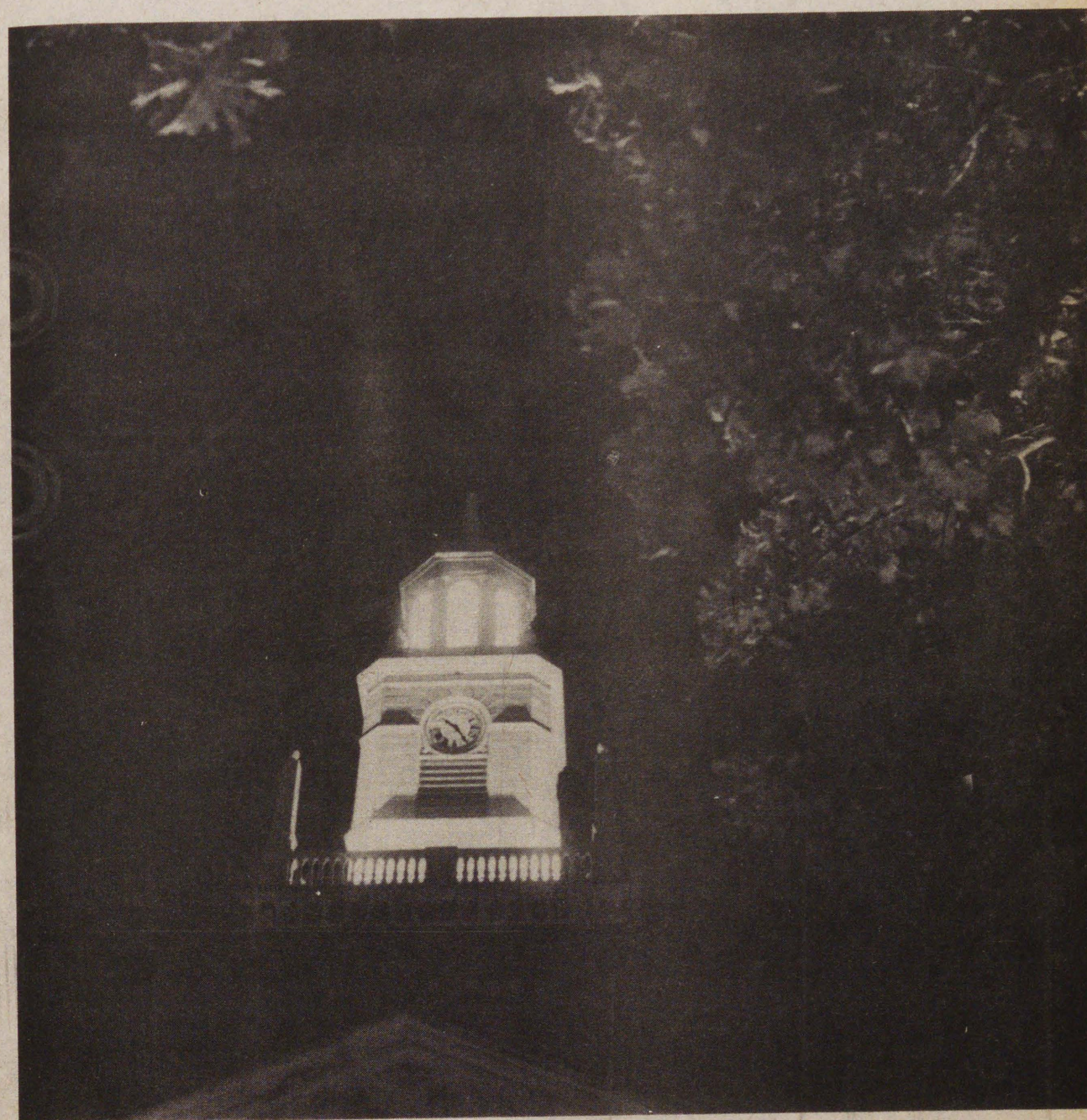
Buffalo State College



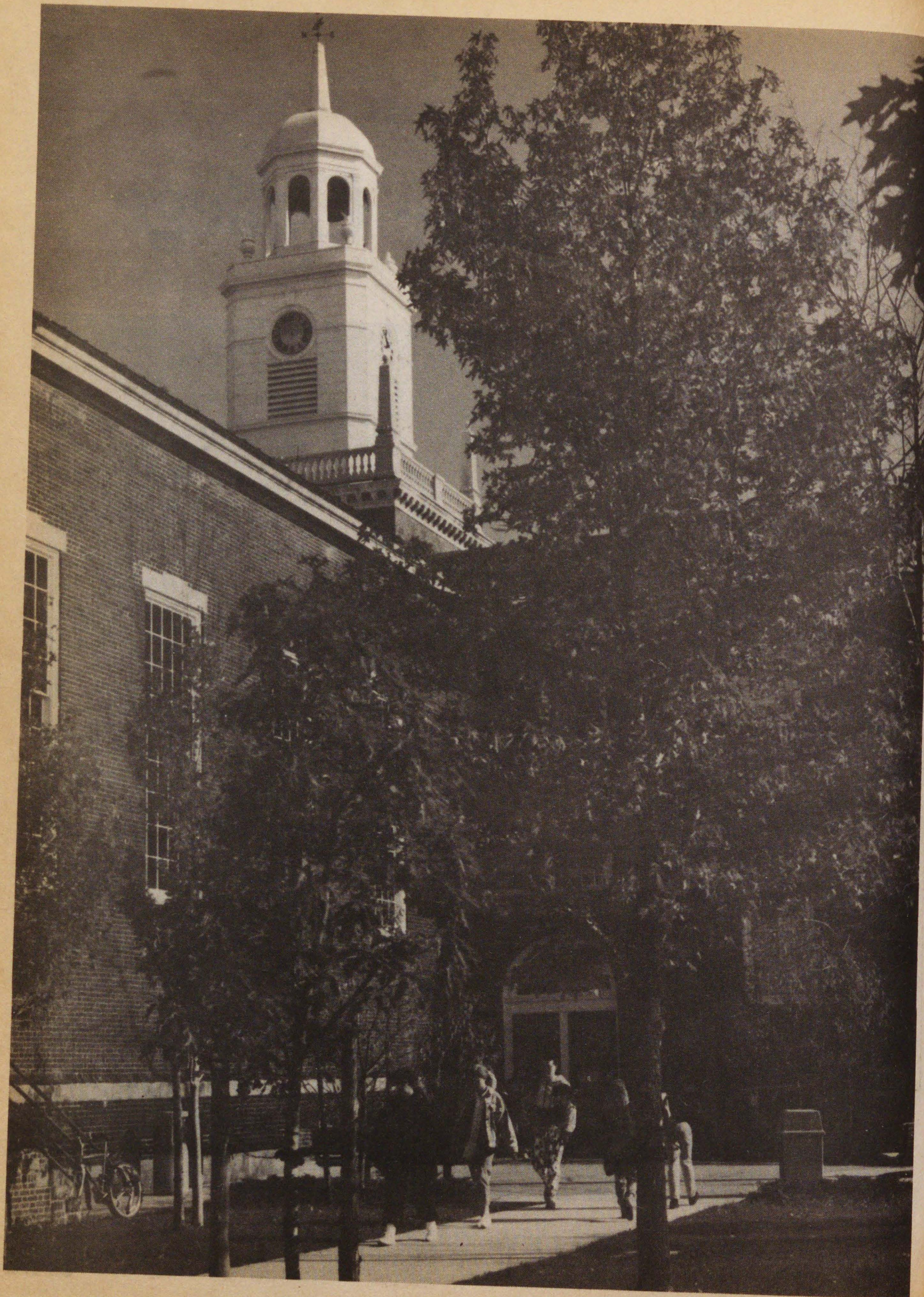
STATE UNIVERSITY COLLEGE AT BUFFALO

1991-93
UNDERGRADUATE
CATALOG

Buffalo State College



STATE UNIVERSITY COLLEGE AT BUFFALO



For Your Convenience

College Telephone (716) 878-4000

Academic Affairs, Vice President	878-5901
Admissions Office	878-4017
Career Development Center	878-5811
Educational Opportunity Program	878-4225 or 878-4429
Evening Student Assistance Center	878-5906
Financial Aid	878-4901
Library	878-6302
Lifelong Learning Center	878-5906
Records and Registration	878-4905
Residence Life	878-6806
Student Accounts	878-4121
Student Affairs, Vice President	878-4704
Summer Sessions — Registration	878-4905
Admissions	878-4017

Mailing Address:

State University College at Buffalo
1300 Elmwood Avenue
Buffalo, New York 14222-1095

This catalog is current as of December 1990. The college reserves the right to cancel any course described in this catalog, and to change any rules governing curriculum, administration, tuition, fees, admissions, regulations affecting students, dates, and course content.

Each student is expected to have knowledge of the information contained in this catalog and in other college publications.

This catalog describes all undergraduate programs of the college. For graduate programs, consult the Graduate Catalog. For programs offered during the summer months, consult the summer session schedule.

This publication was funded by an appropriation made available to State University College at Buffalo. Thirty-five thousand were printed March 1991. The offices of the vice presidents supplied copy for their respective areas of responsibility. The production and graphics were the responsibility of the Public Affairs Office, Cleveland Hall 515, (716) 878-4201.

State University College at Buffalo is an affirmative action/equal opportunity institution which subscribes to all federal, state, and SUNY legal requirements and does not discriminate against applicants, students, or employees on the basis of race, sex, ethnicity, national origin, sexual orientation, religion, age, handicap, marital or veteran status, and arrest and/or conviction record.

Any violation of this policy should be reported to the campus Affirmative Action Office, Cleveland Hall 409, (716) 878-6210.

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Academic Calendar 1991-92

First Semester

Fall 1991

Orientation Tuesday, Wednesday, Thursday
August 27, 28, 29
Registration..... Wednesday, Thursday, Friday
August 28, 29, 30
Labor Day (no classes) Monday, September 2
Classes Begin Tuesday, September 3
Columbus Day (no classes) Monday, October 14
Veterans Day (no classes) Monday, November 11
Thanksgiving Recess Wednesday-Saturday
November 27-30
Critique/Evaluation Period Monday-Friday
December 16-20
Last Day of Classes Friday, December 20

Second Semester

Spring 1992

Registration..... Wednesday, Thursday, Friday
January 15, 16, 17
Martin Luther King Day (no classes) .. Monday, January 20
Classes Begin Tuesday, January 21
Presidents Day Recess (no classes) Monday, Tuesday
February 17, 18
Spring Recess Monday-Saturday
April 13-18
Critique/Evaluation Period Friday-Thursday
May 8-14
Last Day of Classes Thursday, May 14
Commencement (tentative) Friday, May 15

Student Deadlines

Course Withdrawals

Nov. 8, 1991 fall semester 1991
March 27, 1992.....spring semester 1992

Cross Registration

Sept. 4-6, 1991 fall semester 1991
Jan. 22-24, 1992spring semester 1992

Departmental Transfer

Oct. 7, 1991 fall semester 1991
Feb. 28, 1992spring semester 1992

Leave of Absence

Nov. 8, 1991 fall semester 1991
March 27, 1992.....spring semester 1992

Incomplete Grades

Nov. 9, 1991 from spring semester 1991
Nov. 9, 1991 from summer semester 1991
March 29, 1992..... from fall semester 1991

E-Grade Repeat Forms

Oct. 4, 1991 fall semester 1991
Feb. 21, 1992spring semester 1992

Pass/Fail Application

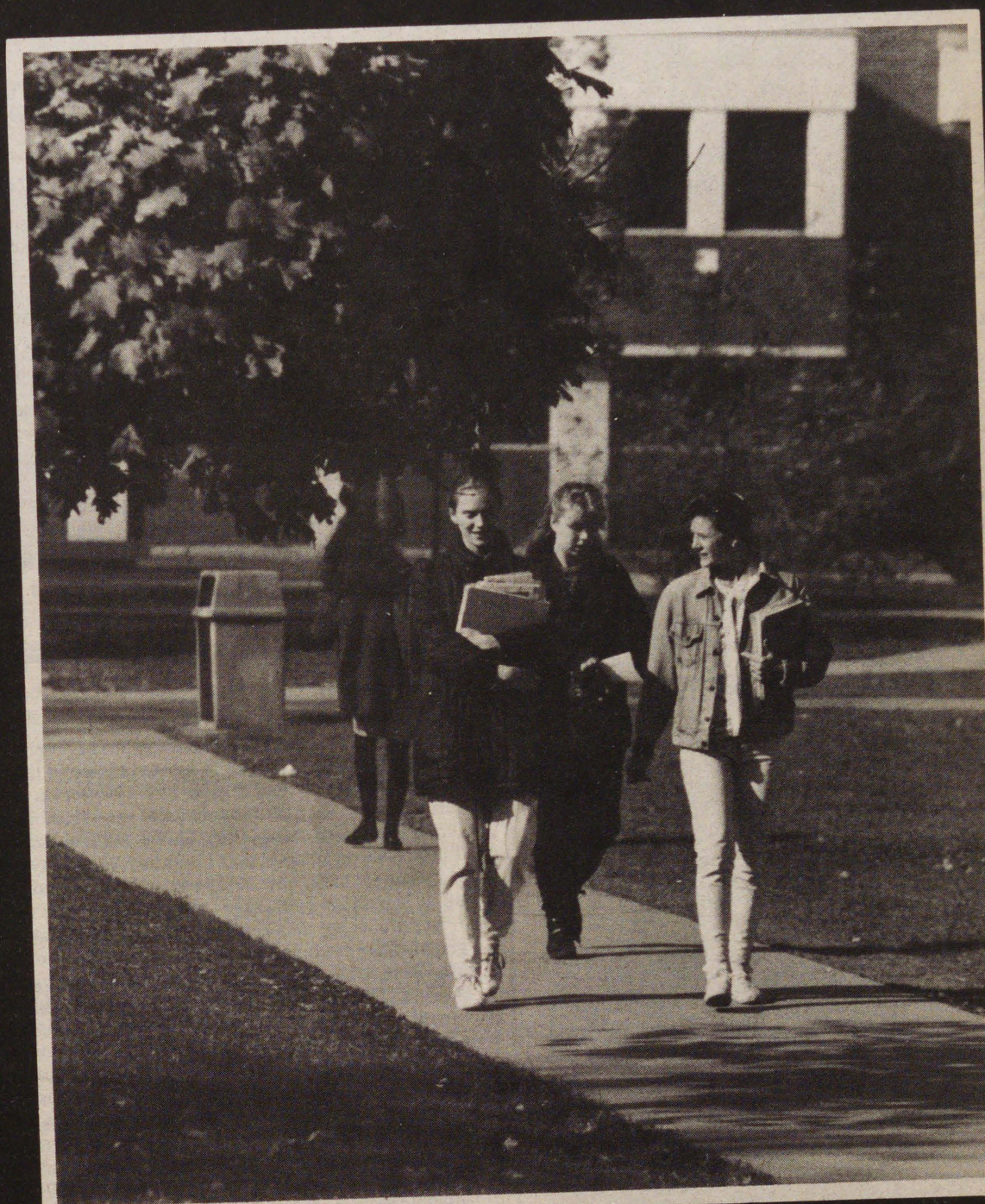
Oct. 18, 1991 fall semester 1991
March 6, 1992.....spring semester 1992

Undergraduate Degree Applications

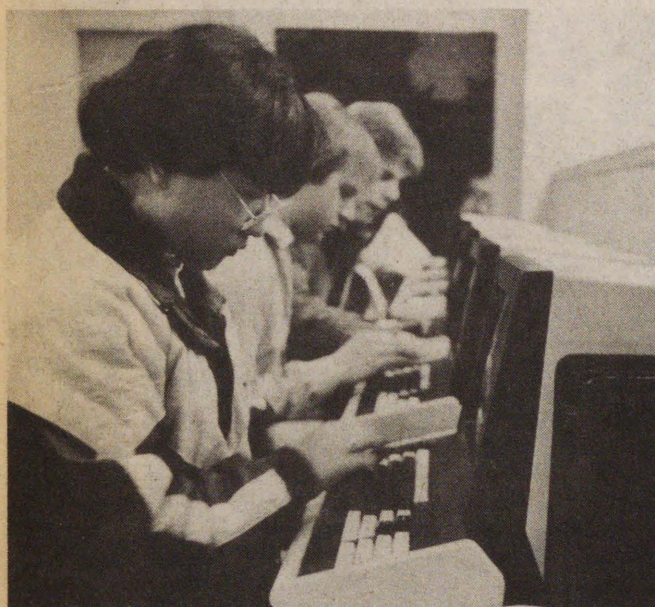
Oct. 4, 1991 December 1991
Feb. 3, 1992 May 1992
June 6, 1992 August 1992

1

BUFFALO STATE COLLEGE



Buffalo State College



In today's highly competitive job market, college graduates need specialized training in marketable skills to forge successful careers. While recognizing that fact, Buffalo State College believes strongly that those who receive baccalaureate degrees must also obtain the solid general-knowledge base that distinguishes the truly educated person.

To ensure that students at Buffalo State are not educationally shortchanged, the degree program provides a breadth and balance that combines instruction in marketable career skills with learning in many disciplines. This combination of specialized knowledge and general education gives students a well-rounded background that is invaluable both professionally and personally. Buffalo State takes pride in its dedication to laying a strong foundation for life as well as for a career — in providing an education that nurtures the life of the mind while preparing students for varied and challenging jobs.

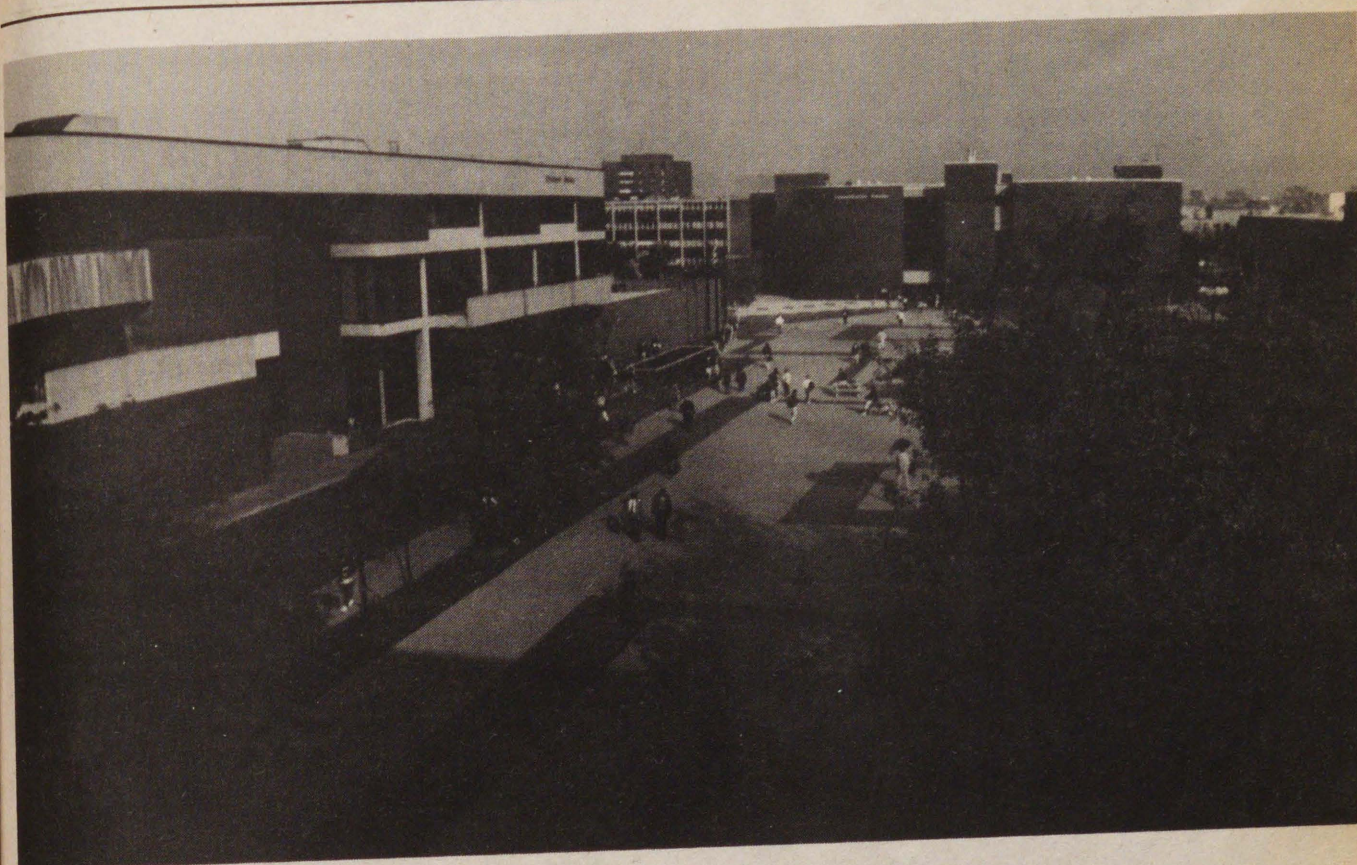
Buffalo State College recognizes the need to train its students in marketable skills as well as the obligation to provide them with the solid general-knowledge base that distinguishes the truly educated person.

Buffalo State is the largest of the 13 SUNY four-year colleges, but it is not so large that students' needs are ignored. The beautiful 115-acre campus — located in one of the finest areas of New York's second largest city — offers a small-college setting where service to students is the foremost goal of the faculty and staff. More than 12,000 students, of which about 2,000 reside on campus, make Buffalo State a busy and stimulating place to learn, play, and meet interesting people from next door, across the country, or around the world.

Buffalo State is primarily an undergraduate institution, granting five bachelor's degrees in nearly 70 major fields. There are, in addition, more than 30 programs leading to advanced degrees. The college's mission is to provide education in the liberal arts and science, sound career preparation, continuing education for non-traditional students, service to the local metropolitan region, and programs in teacher education.

Buffalo State is particularly proud of its imaginative and successful programs for evening students — many of whom work full time while pursuing one of 15 undergraduate degree programs entirely through evening and weekend study — and for its Educational Opportunity Program (EOP), which helps educationally and financially disadvantaged students attain their dream of a college degree through counseling, tutoring, developmental classes, and a summer readiness program preceding freshman year.

Physical facilities at Buffalo State are up-to-date and extensive. The college's 36 buildings are a pleasing blend of modern



Buffalo State is primarily an undergraduate institution, granting five bachelor's degrees in nearly 70 major fields. There are more than 30 programs leading to advanced degrees.

and traditional and include nine coeducational corridor- and suite-style residence halls.

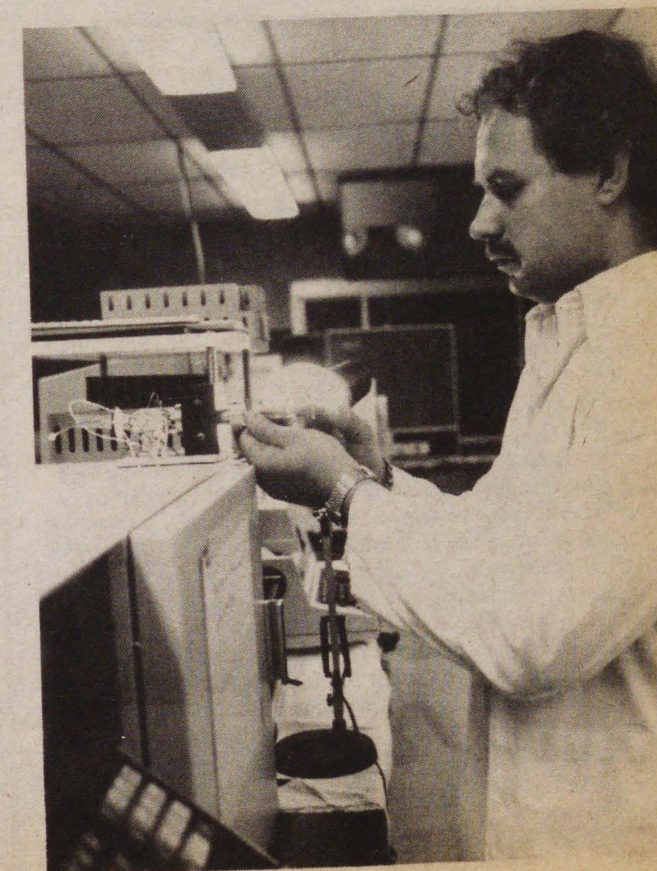
The Edward H. Butler Library boasts more than 500,000 volumes, substantial microform resources, and over 2,000 periodical titles. Sherlock, the online catalog, makes the library an up-to-date research facility.

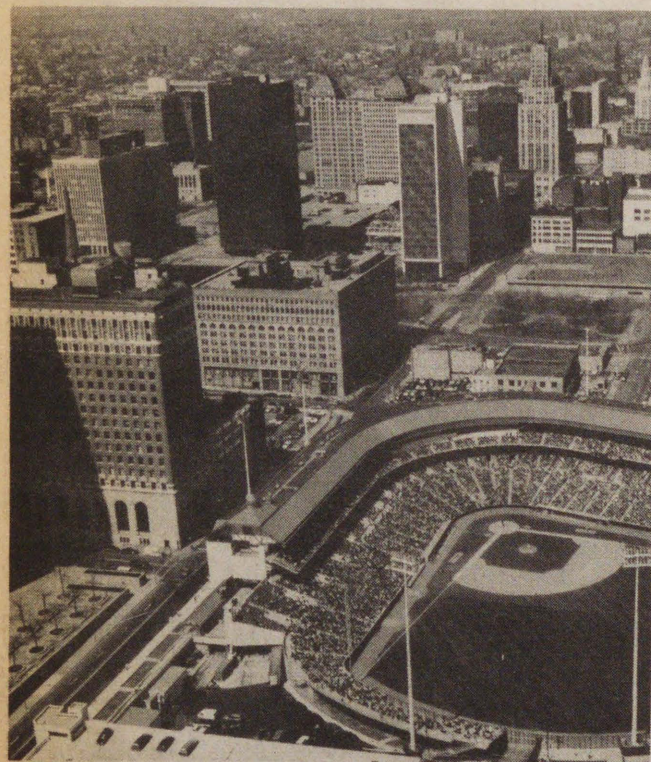
The well-equipped Science Building contains modern biology, chemistry, and physics labs as well as a planetarium.

The College Learning Laboratory/Campus West is a public elementary magnet school located right on campus that provides education majors with an opportunity to observe and practice the latest teaching techniques.

Upton Hall houses state-of-the-art equipment for industrial arts and industrial and engineering technology, as well as fine arts and design labs, studios, and galleries.

The Performing Arts Department and the internationally recognized graduate program in art conservation are located in Rockwell Hall, the centerpiece of the campus. Also in Rockwell are the Burchfield Art Center, a major regional gallery and





Buffalo State's setting provides numerous opportunities for students to gain firsthand knowledge and all-important contacts through pre-professional internships.

museum, and a modern 850-seat auditorium for student and community theatrical, musical, and dance productions.

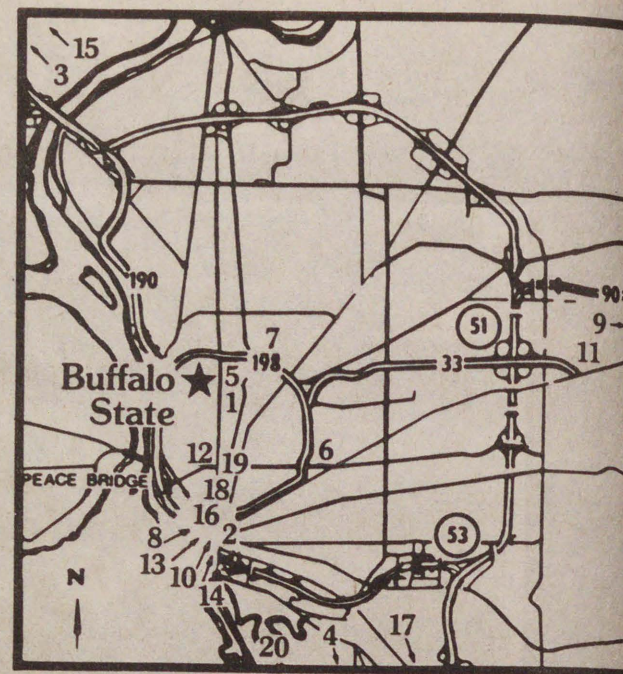
The centrally located Student Union provides dining, recreational, and social facilities, and houses the College Store.

The \$15 million Sports Arena, which contains a 4,000-seat basketball arena and a 2,000-seat facility for ice hockey, was completed in the spring of 1991.

Since its founding in 1871 as an institution for training teachers, Buffalo State has grown to become a nationally respected comprehensive arts and science college where faculty, staff, and students alike seek innovative solutions to today's educational challenges.

A wide array of choices and challenges awaits each Buffalo State student. In the academic area, advisers are available to assist students in making those important curricular choices. Outside the classroom, the range of cultural, recreational, and educational organizations and activities is almost unlimited.

In addition, the thriving Buffalo metropolitan area offers the diverse attractions of a major city, including nearby parks, art galleries, museums, restaurants, shops, professional and amateur sports, and recreational opportunities as diverse as wind-surfing in the summer and downhill or cross-country skiing in the winter.



- | | |
|--|---|
| 1. Albright-Knox Art Gallery | 11. Greater Buffalo International Airport |
| 2. Amtrak Terminal | 12. Kleinhans Music Hall |
| 3. Artpark | 13. Memorial Auditorium |
| 4. Buffalo and Erie County Botanical Garden | 14. Naval and Servicemen's Park |
| 5. Buffalo and Erie County Historical Society Museum | 15. Niagara Falls |
| 6. Buffalo Museum of Science | 16. Pilot Field |
| 7. Buffalo Zoo | 17. Rich Stadium |
| 8. Convention Center | 18. Theater District |
| 9. Darien Lake | 19. Theodore Roosevelt Inaugural National Historic Site |
| 10. Erie Basin Marina | 20. Tifft Farm Nature Preserve |

Buffalo State's setting in a region that is emerging as a leading center for high technology and service industries such as banking, printing, medicine, and education provides numerous opportunities for students to gain firsthand knowledge and all-important contacts through pre-professional internships.

Students who qualify may cross-register in one of many Western New York colleges and universities, participate in the National Student Exchange Program, or study abroad for a semester as participants in the International Student Exchange Program. On campus, students experience small classes and a special relationship with instructors who like to teach.

For 120 years the Buffalo State story has been one of growth, innovation, and service to students and community, combined with a firm belief in academic excellence based on traditional educational values. For the student who accepts the challenge to excel academically, a Buffalo State College education can open the door to a lifetime of personal and professional success.

2

ADMISSIONS



Admissions

Admission to State University College at Buffalo is based on the academic and personal qualifications of the applicant and is granted without regard to race, color, creed, religion, or national origin of individuals. Specific questions may be directed to the Admissions Office, Cleveland Hall 206, (716) 878-4017.

Freshman Admission

All applicants must possess or be a candidate for a high school diploma. A State High School Equivalency Diploma is also acceptable. High school preparation should be broad and balanced with study in the areas of social science, English, natural science, mathematics, and foreign language. Admission decisions are based on a combination of high school grades, rank in class, scores on standardized examinations such as SAT or ACT, and high school recommendations.

Freshmen applicants may indicate a curriculum choice, if they so desire, but it is not necessary. Those who do not indicate a major must select one by the second semester of their sophomore year. Freshmen are accepted directly into their major, with the exception of the following programs: broadcasting, computer information systems, criminal justice, journalism, public communication, and social work. Freshmen interested in the aforementioned majors are accepted to the college as uncommitted students. Once enrolled, they must meet additional departmental requirements for entrance into the program.

Freshmen applicants to the elementary education major are accepted into a pre-elementary education program. Freshmen applicants to the business studies, business education, and distributive education programs are accepted into a pre-business sequence. All elementary education and pre-business students receive advisement from the respective department and must meet departmental requirements prior to formal entrance into the major.

Freshmen applicants to exceptional education and engineering technology are reviewed using criteria of high school average, rank, standardized test scores, and a regents program. The most highly qualified applicants are admitted directly into the program. All other eligible applicants are accepted into the college as uncommitted students who, once enrolled, must meet additional departmental requirements for entrance into the major.

Special Consideration

Each year Buffalo State accepts a limited number of students who would not normally be admissible if academic criteria were the sole basis for decision. Individuals who possess special talents (in the arts or athletics, for example), those with extensive involvement and leadership roles in school or community activities, those whose academic records were adversely affected by unusual circumstances (such as illness or family crisis), or applicants who are members of historically underrepresented groups (African American, Hispanic, or Native American) may receive special consideration. Individuals accepted under this program take a reduced course load their first year and receive a

variety of support services. Those wishing consideration under this program should contact the Admissions Office for further details.

Transfer Students

Transfer students with more than 30 credits must apply for and be admitted to specific programs. Those with 30 credits or less may apply for uncommitted status. Admission is based on academic performance in college and space availability. A minimum grade point average of 2.00 out of 4.00 is necessary for acceptance, although some programs are very competitive and will require a higher grade point average. No student will be accepted who is on probation at another institution or who has been academically dismissed in the past year.

Credits earned previously will be evaluated for all accepted transfers upon receipt of official transcripts. No credit will be evaluated from any institution which is not listed on the application for admission. A maximum of 91 semester hours may be transferred from other accredited institutions. However, no more than 65 hours may be transferred from two-year colleges.

No credit earned at a two-year institution after a student has earned upper division status (57 credits or more) or earned an associate's degree will be transferred.

Transfer students should understand that only credit is transferable. Grades, quality points, and cumulative averages do not transfer.

Students dissatisfied with this evaluation, whether under the guaranteed transfer policy or as a regular transfer student, may formally request a review from the Admissions Office or may submit a petition to the Academic Appeals Committee.

Special Credit

In addition to credit awarded for traditional college work, up to 45 credit hours may be accepted from the following sources:

Source	Maximum credit hours
1. Published examinations	30
No more than 18 may be in general examinations.	
2. Course challenge	30
3. Military service courses	15
4. Non-collegiate institutions	15
5. Proprietary institutions	15

Further details may be found in section on Academic Policies.

Guaranteed Transfer Policy

New York state residents who are graduates of a State University of New York two-year college, including community colleges operated within the program of the University, and who possess an A.A. or A.S. degree, shall be guaranteed an opportunity to continue their education on a full-time basis at a senior campus of SUNY. To assure admission, however, students must file their applications by December 15 for the fall semester and by October 15 for the spring semester. Buffalo State College, a senior campus, subscribes to and participates in this agreement. Students who are admitted to the college from parallel programs can ordinarily expect to complete their degree require-

ments in four semesters of full-time study. Those entering programs involving special certification and licensing may need more time to complete these additional requirements.

This guarantee will be extended to every graduate who possesses an A.A.S. degree as rapidly as appropriate existing programs are expanded and new programs are developed. Students from such programs may need additional time to complete degree requirements. Specific information is available in the Admissions Office.

Joint Admission Program

(Erie Community College/Niagara Co. Community College) First-time freshmen who expect to receive an associate's degree from Erie Community College or Niagara County Community College and are in a parallel program may file a single application for simultaneous admission to one of the two-year colleges and to Buffalo State College. These students follow a definitive curriculum at the two-year college and receive counseling and advisement that will facilitate enrollment into a parallel program at Buffalo State College upon completion of the associate's degree. They will matriculate at Buffalo State College as juniors, and can expect to earn the baccalaureate degree for most programs in four additional semesters of full-time study (or the equivalent for part-time students). Students planning to pursue programs requiring certification, e.g., education, may require more than four semesters of full-time study to finish.

The admissions requirements and general education requirements for the bachelor's degree at Buffalo State College will be those in effect at the time of the student's application for joint admissions at the two-year college. Major requirements for the bachelor's degree will be those in effect at the time the student formally enrolls at Buffalo State College. Further details are available from the transfer admissions counselor at Buffalo State College or the admissions office at the participating two-year college.

Educational Opportunity Program

This program is designed to provide special admission and counseling to those individuals who are both traditionally underrepresented in higher education and in need of financial assistance. Applicants must be New York state residents with a high school diploma or its equivalent. They must not qualify for admission to the college under general admission standards and must have a family income equal to or less than published state standards. For further information and application forms, write to the Admissions Office, Cleveland Hall 207, (716) 878-4415.

International Students

The college accepts a limited number of international students each year. Applicants should possess the equivalent of 12 years of elementary and secondary education, and must provide evidence of proficiency in the English language and the ability to meet the financial costs of attending college. A special booklet, "Information for New Students From Abroad," is available from the Admissions Office.

For spring admission, all applications and supporting materials should be submitted no later than Oct. 1 if applicants are in their home country, or Nov. 15 if they are currently in the United States. For fall admission, all applications and supporting materials should be submitted no later than June 1 if applicants are in their home country, or July 15 if they are currently in the United States.

Once they have received official notification of acceptance, students who intend to live on campus are required to send a

deposit of \$10,000 to the Student Accounts Office, Cleveland Hall 305. Students who intend to live *off campus* are required to send a deposit of \$6,000 to the Student Accounts Office. The International Student Affairs Office will then send an I-20 Form or an IAP-66 Form enabling them to obtain, respectively, an F-1 (student) visa or a J-1 visa from the U.S. Embassy or Consulate in their home country.

All international students must enroll in a group health insurance plan available through the college. The premium is \$501 per year, which must be paid to the Student Accounts Office, Cleveland Hall 305. International students must take their receipts to the International Student Affairs Office in Student Union 400 to prove they have paid for the College Student Health Insurance Plan. Failure to do so will automatically cancel registration.

About \$12,500 a year will be necessary to cover all expenses. By the time they arrive on campus, international students should have made arrangements for the funds to cover their college career.

International students may live on or off campus. On campus, they may live in the international dormitory, which remains open during the holidays, or in any other dormitory, provided they move out of the dormitory during holidays. New international students are allowed to stay in the international dormitory over the holidays at no charge during the first year only. (See Student Services section for additional information regarding international students.)

This college is authorized under federal law to enroll non-immigrant alien students.

Early Admission

Especially well-qualified high school juniors may apply to Buffalo State College for full- or part-time study during their senior year in high school under the Early Admissions Program. The college offers several options:

1. Students may enroll on a part-time basis while attending high school.
2. Students may enroll as full-time freshmen for only the last semester of their senior year.
3. Students may enroll as freshmen for the entire academic year instead of completing their senior year of high school.

The college arranges with the high school to have remaining high school diploma requirements fulfilled by taking appropriate freshmen courses. Therefore, the completion of the high school diploma requirements is concurrent with the accomplishment of earned college credits.

For further details, contact the Admissions Office, Cleveland Hall 206, (716) 878-4017.

Special Departmental Requirements

Certain programs have special entrance requirements. Some examples are:

Fine Arts — freshman and transfer fine arts applicants must present an art portfolio to the appropriate department. Interviews will be arranged by the college.

Computer Information Systems — transfer students must complete a programming course with a C or better in one of the following languages: FORTRAN, COBOL, Assembly, or Pascal.

A number of programs have other entrance requirements, such as a minimum grade point average or successful completion of specific courses. Students should consult the Admissions Office for further information.

Admission Procedures

The college uses the state's common application form, which may be obtained from high school guidance offices, community college transfer offices, or the Buffalo State College Admissions Office. It should be completed and submitted to the Application Processing Center in Albany, New York.

Decisions are made on a rolling basis beginning in mid-December for fall applicants and mid-September for spring applicants. Processing continues until new student enrollment goals have been met. Applicants are encouraged to submit their application and supporting materials early in order to receive consideration.

All matriculating students born on or after Jan. 1, 1957, are required to submit proof of immunity to measles, mumps, and rubella. Students who cannot show proper proof of immunity will not be permitted to register. A completed Health Report and Physicians Certificate also must be on file at the college's Weigel Health Center.

With the exception of applicants to EOP, all accepted students are required to submit at \$50 advance tuition deposit. This deposit is applied to the fall or spring (whichever is appropriate) semester tuition bill.

Refunds of the tuition deposit are made only under the following circumstances:

1. The refund request must be made within 30 days after the date of acceptance, or by May 1 for summer/fall terms or Nov. 1 for spring term, whichever is later, but prior to the first day of registration.
2. If the college withdraws a conditional acceptance.
3. If the student withdraws to enter military service.
4. If the college comptroller deems that conditions beyond the student's control warrant a refund, where appropriate documentation is provided.

Requests for tuition deposit refunds must be received in writing and include the appropriate documentation.

Non-Degree Status

This status enables individuals to take college courses for credit without working toward a degree. Students may enroll in up to 11 hours of course work each semester on a space availability basis. Credits earned may be applicable to a degree at the college should the student apply and be accepted as a formally matriculated student. The only entrance requirement is a high school diploma or its equivalent. Students who have been academically dismissed from any institution must wait one full year from the time of dismissal before enrolling under non-degree status. To register, complete a one-page application, which may be obtained from the Admissions Office. Non-degree students are not eligible for financial aid. Also see "Special Study Options."

Readmission

Students who attended Buffalo State College previously in a matriculated status and wish to re-enroll must apply for a specific program and have their applications reviewed by the appropriate department. If other courses have been taken at other institutions since leaving the college, official transcripts must be submitted.

A student who has been academically dismissed must wait one full year from the time of dismissal before being considered for readmission. If readmitted, all course work taken previously will be considered in computing the cumulative average.

Readmission forms are available in the Admissions Office, Cleveland Hall 206.

Summer Session

The college offers one of the largest and most comprehensive summer programs in the State University system, with more than 350 graduate and undergraduate courses available in more than 40 fields of study. Departments often choose to offer special creative or unique courses in the summer.

Summer session consists of two six-week sessions and three three-week modules beginning in early June. The last session begins in mid-July. A summer session bulletin is available each March in the Records and Registration Office, Cleveland Hall 204.

Evening Study

Buffalo State College offers 15 undergraduate evening degree programs for its more than 1,000 evening students. The college recognizes that evening students tend to hold daytime jobs, and may be somewhat older than the traditional college age. Every effort is made to provide the programs and services necessary for students contemplating career changes. Adult students will find that Buffalo State College maintains no separate evening division. Instead, all students — whether part time or full time, day or evening — are admitted through the college's Admissions Office. As a result, the provision of basic college services is direct and efficient. Students enjoy the flexibility of being able to switch between day and evening schedules simply on the basis of the courses for which they register. This also means that the general programs, policies, procedures, and course descriptions throughout this catalog apply to day and evening students alike.

Of the college's nearly 70 undergraduate academic majors, the 15 available to evening-only students are: the arts, broadcasting, business studies, computer information systems, criminal justice, engineering technology (electronics, mechanical, or power and machines), food systems management, general studies, humanities, industrial technology, social work, urban-regional analysis and planning, and vocational technical education.

The courses for each of these programs are sequenced over several semesters so that evening students are able to fit them into their schedules. Occasionally courses are offered on weekends or via videotapes and local cable television as part of the college's continuing effort to make evening study as convenient as possible for working adults.

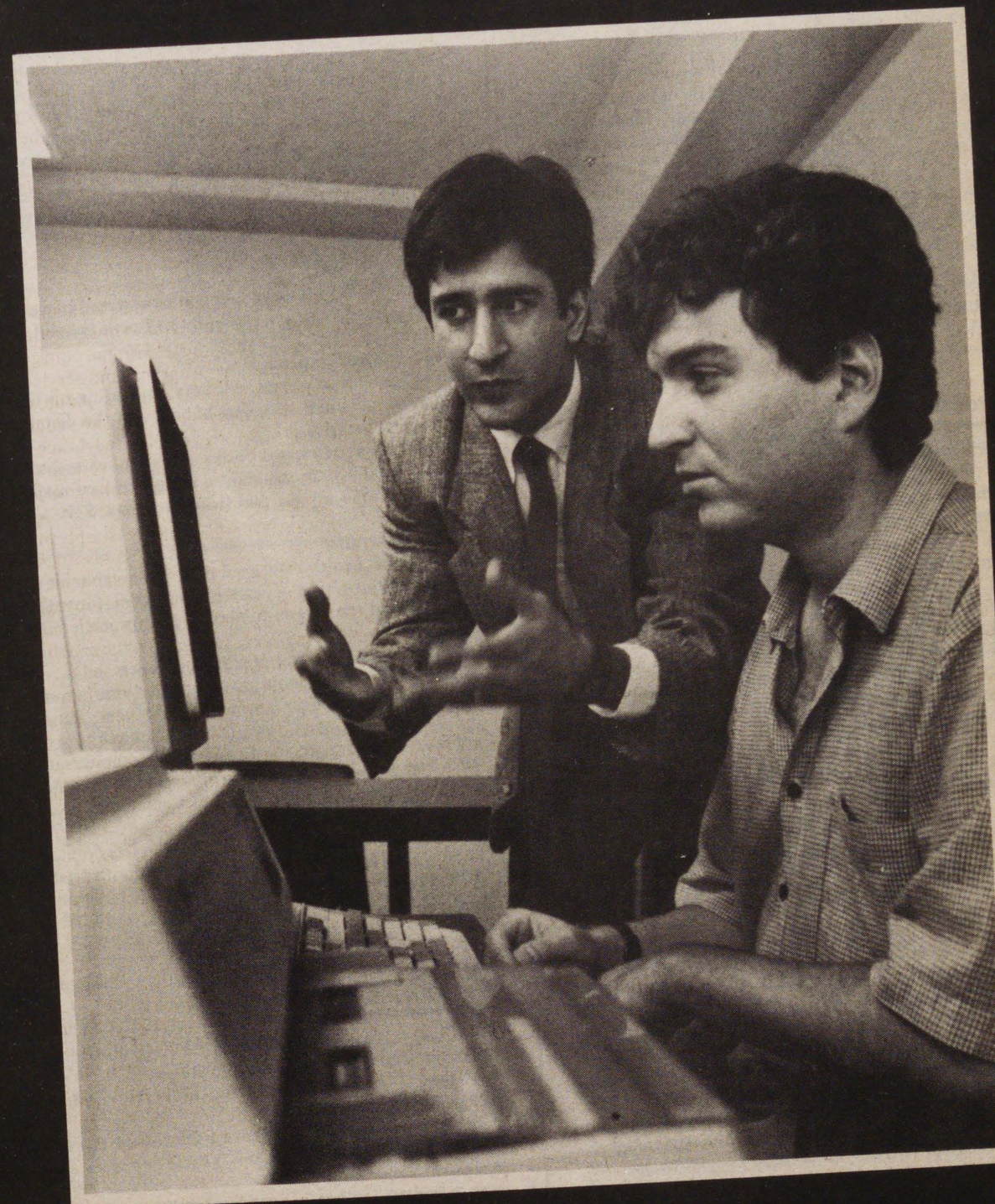
Evening Student Assistance

Evening students may visit the Evening Student Assistance Center for information about evening study at the college, available evening degree programs, alternative means of earning college credit, and other information relevant to evening study at Buffalo State College. The Evening Student Assistance Center is the evening branch of the college's Paul G. Bulger Lifelong Learning Center. It is open from 4:30 to 9 p.m. Monday through Thursday when classes are in session during the fall and spring semester. For further information, call or visit the Evening Student Assistance Center, Twin Rise 100, (716) 878-5906.

Student Retention

In fall 1984, the college enrolled 1,490 new, full-time freshmen. To date, 35 percent have received bachelor's degrees and 8 percent are still enrolled.

3 FINANCES AND FINANCIAL AID



Finances

New students are required to pay tuition and fees upon receipt of invoice either in cash or through use of a deferred payment plan open to all students. Deductions will be made under various financial aid programs if the student attaches a copy of the award notice with payment.

Room and board charges must be paid prior to arrival on campus. These charges are usually included in the bill covering tuition and fees.

Further information concerning payment is available in the Student Accounts Office, Cleveland Hall 304, (716) 878-4121.

Costs—Student Expenses

Tuition

Tuition for full-time undergraduate Buffalo State students is \$825 per semester for New York state residents and \$2,500 per semester for out-of-state students. Tuition for part-time undergraduates is \$55 per credit hour for New York residents and \$167 per credit hour for out-of-state students.

Room and Board

Residence hall room rates are \$1,060 per semester for a double-occupancy room. Room rental does not include telephone service; students arrange for this service with the telephone company. Some single rooms are available, but the college cannot guarantee these accommodations. Room rates are subject to change.

Meal plan rates vary from \$485 to \$785 a semester. These rates are subject to change.

College Fee

A college fee of \$12.50 per semester for full-time students and \$.85 per credit hour for part-time students is collected by all units of the State University system to finance various SUNY construction projects.

Activity Fee

All full-time students are required to pay a \$45 per semester activity fee; part-time students pay \$3.75 per semester. These funds support the activities of more than 80 student groups on campus.

Parking Fee

There is a user fee for those students who wish to park on campus. The fee is \$36 per semester for full-time students, \$18 for part-time students, and \$10 for a summer-only permit.

Late Payment Fee

A \$30 late payment fee will be assessed to all payments received after the due date on the invoice and to every delinquent file mailed to a student.

Late Registration Fee

There is a \$30 late registration fee. This fee will not be waived or deferred.

Late Drop/Add Fee

A late fee of \$15 per add will be charged after the designated end of registration each semester. This fee will not be waived or deferred.

Bad Check Fee

A "bad check" charge of \$10 will be assessed to each bad check passed. In addition, the \$30 late payment fee will be imposed.

Miscellaneous Expenses

Miscellaneous expenses will vary depending on the academic program, personal spending habits, and the distance between home and campus.

The college estimates books and supplies will cost approximately \$450 a year, depending upon declared major; personal expenses, \$550 a year; and transportation, \$350 a year.

Health Insurance

An optional health insurance plan is available for \$195 a year. This is for the period of September 1, 1990, through September 1, 1991, and the rate is subject to change each year.

Foreign Student/Study Health Insurance

All international students are mandated to carry a special health insurance plan. The premium is \$501 per year. This includes the period of September 1, 1990, through September 1, 1991. There are rates for coverage during any of the semesters of the college year. The premium is subject to change each year. All American students studying abroad also must carry this insurance.

Summer Session

Tuition and the college fee are charged at the credit-hour rate for all courses taken during summer sessions. The summer rate for a double residence hall room is \$80 a week, and \$160 a week for a single room. The summer activity fee is \$5.

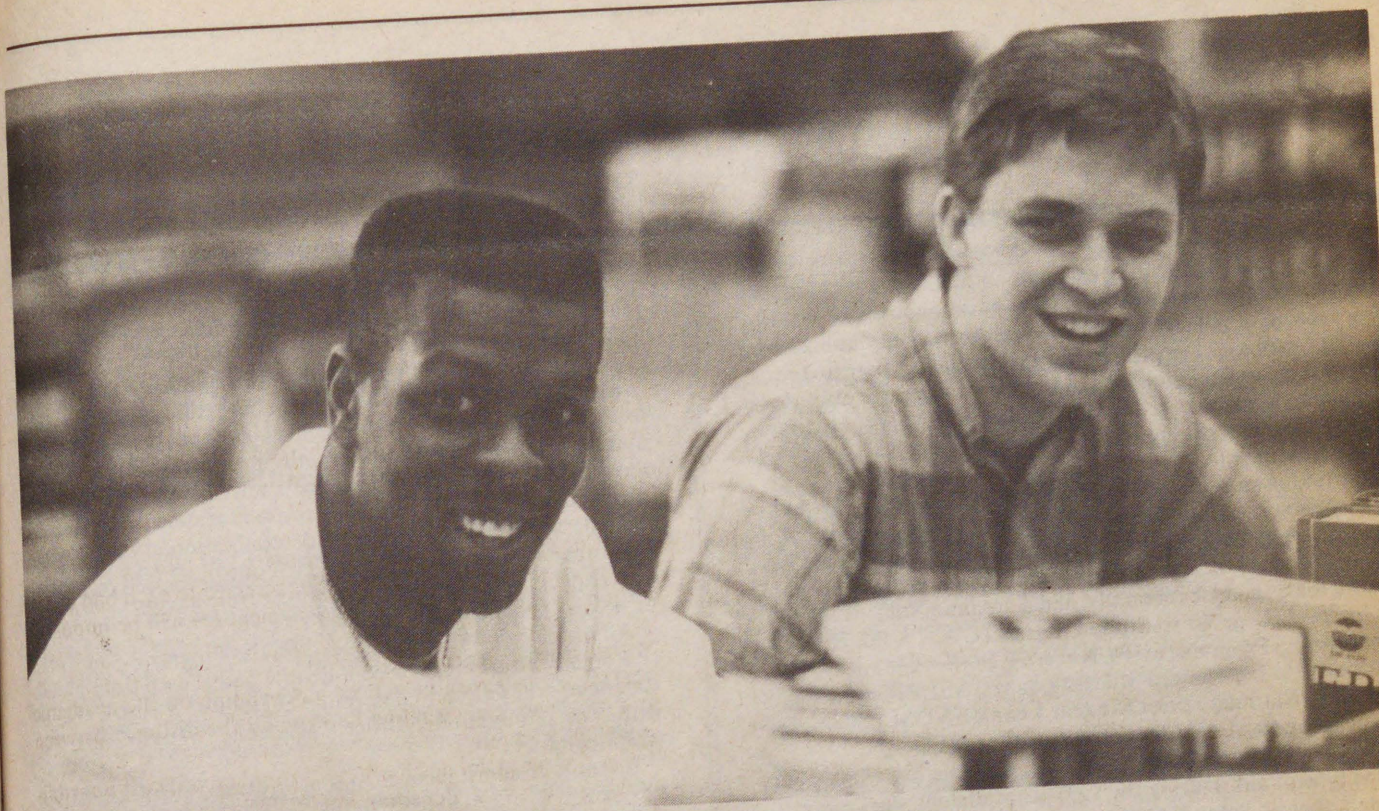
Explanation of Terms

Full-time — A student registering for 12 or more credit hours a semester is considered a full-time student.

Part-time — A student taking one to 11 credit hours a semester is a part-time student.

Semester — The academic year of the college consists of a fall semester and a spring semester. Yearly expenses are twice the semester rate.

Non-Resident Tuition — Students who are not permanent residents of New York state are charged a higher tuition rate. Other fees are the same.



An Estimated Budget

Estimated college costs can be found in the following table for the 1991-92 academic year. The costs may vary according to a student's class status, place of residence, major, and individual needs. **All tuition rates, fees, and fines are subject to change without notice as directed by the State University board of trustees.**

Estimated Budget for 1991-92 Fall and Spring Semesters (New York State Resident)

	Commuter	Resident
Fixed Costs		
Tuition	\$1,650	\$1,650
Fees	115	115
Total Fixed Costs	\$1,765	\$1,765
Variable Costs		
Books and Supplies	\$ 450	\$ 450
Maintenance at home	1,500	2,120
Room	—	1,570
Board	—	600
Miscellaneous expenses	600	450
Transportation	450	—
Total Variable Costs	\$3,000	\$5,190
Estimated Annual Costs (two semesters)	\$4,765	\$6,955

Refund Policy

Tuition

Tuition refunds will be processed only if the student officially withdraws through the Records and Registration Office. Students given permission to cancel their registration are responsible for payment of tuition according to the following schedule:

Date of Course Withdrawal	Tuition Liability
1st week of class	0
2nd week	30%
3rd week	50%
4th week	70%
after 4th week	100%

The first week of class ends on Saturday of the week in which classes are scheduled to begin.

Room Rentals

During the fall and spring semesters, a refund can be made only if students withdraw due to circumstances beyond their control. Any questions covering refunds are addressed in the Residence Hall License.

Board Charges

Meal rates are set by the Faculty-Student Association board of directors. The Food Service Office will determine the amount of refund due in cases of meal plan withdrawal.

Activity Fee

This fee is refunded only when registration is canceled within the first two weeks of class.

College Fee

Not refundable under most circumstances.

All refunds are mailed to the student's permanent address.

Financial Aid

Student Financial Aid

The cost of a college education need not be an impossible burden. Although the primary responsibility for financing education rests with the student and his family, there are numerous financial aid programs — grants, loans, and work-study positions — that can help bridge the gap between college costs and family resources.

Buffalo State College's Financial Aid Office has been extremely successful in helping students find ways and means of financing their college educations. Currently, the office oversees the distribution of more than \$15 million in federal and state grants, loans, and jobs annually, and determines student eligibility for the College Work-Study Program (CWSP), Educational Opportunity Program (EOP), Robert T. Stafford Student Loan (formerly the Guaranteed Student Loan or GSL), Perkins Loan (formerly National Direct Student Loan or NDSL), and Supplemental Educational Opportunity Grant (SEOG).

About 75 percent of Buffalo State students are eligible for some type of aid. During the 1991-92 academic year, it is estimated that at least 3,400 students will receive federal Pell Grants. About 2,400 are expected to receive federal loans in excess of \$4.1 million. Also Work-study opportunities will be provided to each of some 300 students with an additional \$850 per semester.

The Financial Aid Office, with one of the most experienced staffs in the state, works year round to keep students and their families up to date on financial aid possibilities. Service is personalized; communication is frequent. The office is open from 9 a.m. to 4:15 p.m. weekdays, and students are invited to make appointments to meet with the staff. In addition, upon filing applications, all incoming students are notified by mail about financial aid programs for which they may be eligible and the requirements which must be met.

The office provides information and forms for a variety of programs and also awards available funds on the basis of federal and state guidelines to students who have completed the appropriate financial aid applications. Three types of aid are available: grants (financial aid that does not have to be repaid); loans (money that must be repaid at low interest); and employment (opportunities for students to work to earn part of the needed funds).

The office is the clearing house for many college scholarships which are offered by special groups on and off campus. Notices of these scholarships are usually announced in the student newspaper. In addition, the office administers several short-term loan programs for students needing small amounts of money.

Financial Aid is Based on Need

Financial need is defined as the difference between the amount of money a family may be expected to contribute and the total cost of education. (Total college costs include tuition, fees, room, and board paid directly to the college in addition to

related expenses, such as books and supplies, transportation, and personal expenses.)

The Financial Aid Office uses the Financial Aid Form (FAF) to assess a family's ability to pay for college. Information on this form includes the family's annual income, debts and assets, number of dependents, other family members in college, and unusual circumstances. The office analyzes this information, and, with the help of an annually revised formula prescribed by the federal government, makes a determination of how much a family can reasonably be expected to contribute. The student is also expected to contribute something from savings, earnings, or special benefits he or she may receive.

All of the information provided on the Financial Aid Form and on any attachments is confidential and is used only by the Financial Aid Office to determine eligibility. It is not shared with the Admissions Office, academic departments, or administrators.

If family circumstances change at any time, the office should be notified at once. A death in the family, loss of employment, and change of commuter to resident status are examples of changes which could affect the amount of aid offered.

Who is Eligible?

It is important to remember that only **matriculated** students — students who have been accepted at the college and are pursuing specific degree programs — are eligible to receive most financial aid. Non-matriculated students are those who are not recognized as degree candidates, and therefore are not eligible for most financial aid. These students include continuing education, some visiting, and special status students who have been allowed to take courses but have not been formally accepted by the college.

To continue receiving campus-based aid, all recipients must file the Financial Aid Form (FAF) **every year** with the College Scholarship Service in Princeton, New Jersey, listing the Buffalo State College code (2533) and enclosing the appropriate processing fee. Applications must be filed by March 1 for the following academic year to receive full consideration. Applications received after March 1 are subject to funds available. Other programs may require the filing of separate applications each year as well.

Most financial aid programs are based on full-time enrollment (12 credit hour a semester or more). If a student's enrollment is less than that, the award may be subject to reduction or cancellation.

Students also must be citizens, nationals, or permanent residents of the United States or citizens of the Federated States of Micronesia, the Marshall Islands, or permanent residents of the Trust Territory of the Pacific Islands (Palau) to apply for aid. Students who are non-citizens may be eligible if they provide documentation from the Immigration and Naturalization Service (INS) that designates them as lawfully present in the U.S. for other than a temporary purpose with the intention of becoming a citizen or permanent resident.

To continue to receive aid, students must make satisfactory progress toward completion of a degree in accordance with the Academic Policies chapter of this catalog and any addendums. Also, they must not be in default of any loan or owe a refund for any Title IV grant to any institution.

All inquiries concerning financial aid or related matters should be addressed to:

Financial Aid Office
Cleveland Hall 309
State University College at Buffalo
1300 Elmwood Avenue
Buffalo, N.Y. 14222-1095
(716) 878-4901

A detailed brochure of financial aid information is also available from this office.

How to Apply for Financial Aid

Students are encouraged to apply early for financial aid. Application forms may be obtained in the Financial Aid Office, Cleveland Hall 309, (716) 878-4901. The requirements below pertain to 1991-92 as known at the time of publication. As this catalog spans more than one academic year, all procedures and eligibility requirements may change, subject to governmental action.

All students applying for aid at the college must file the Financial Aid Form (FAF) each year. This form is also the application for the federal Pell Grant and the Stafford Loan program as well as the state's Tuition Assistance Program (TAP) and all campus-based aid programs. It should be completed and mailed to the College Scholarship Service, P.O. Box 6300, Princeton, New Jersey 08541. Buffalo State's college code is 2533. An annual processing fee must be enclosed in order for Buffalo State to receive the application for campus-based aid and student loan consideration. (The college also accepts the American College Testing Family Financial Statement, code number 2920.) Filing deadline for summer, fall and spring semesters is the previous March 1 for continuing students. Applications will be accepted after the deadline on a first-come, first-served basis, with awards subject to availability of funds.

The following forms must be submitted annually for specific aid programs.

1. Pell Grant — Apply using the Financial Aid Form (FAF). The Application for Federal Student Aid (AFSA) is available **ONLY** if the FAF will not be filed for other program eligibility. The completed AFSA form should be mailed to the address indicated on the form. The deadline date is May 1 of the academic year (i.e., May 1, 1992 for 1991-92). Submit the Student Aid Report (SAR) results to the Financial Aid Office.

2. Tuition Assistance Program (TAP) — for New York state residents **ONLY**. Apply with the Financial Aid Form (FAF). Award notices will be sent to the student for the first New York state school listed. The TAP deadline is May 1 of the academic year (i.e., May 1, 1992 for 1991-92).

3. Robert T. Stafford Student Loan (GSL) — The Financial Aid Form (FAF) along with a Student Loan Application should be completed and sent to the Financial Aid Office at least three (3) months prior to the first day of classes for the semester you wish to attend in order to meet appropriate payment or deferment deadlines. The Financial Aid Office will complete the college section and forward it to the appropriate lender.

4. Other Loans (Parent Loans for Undergraduate Students (PLUS); Supplemental Loans for Students (SLS)) — Application forms are available from participating lending institutions. Completed forms are to be submitted to the Financial Aid Office for processing.

Who is Self-Supporting?

The following regulations must be met and documented for students to be considered self-supporting or independent for federal financial aid consideration **For 1991-92:**

- Was the student born *before* January 1, 1968? Yes _____ No _____
- Is the student a veteran of the U.S. Armed Forces? Yes _____ No _____
- Is the student a ward of the court or are both parents dead? Yes _____ No _____
- Does the student have legal dependents other than a spouse? Yes _____ No _____

A "Yes" response to any one of these questions would allow a student to be considered independent.

If a student cannot meet any of the above criteria for independent student status, the following secondary requirements may be considered:

Unmarried (Single, Divorced, Widowed, or Separated) Undergraduate Students:

Was the student claimed by parents as an income tax exemption
... in 1989? Yes _____ No _____
... in 1990? Yes _____ No _____

If the student is able to answer "No" to both years, then he/she should proceed to the following questions:

For the student who **first** received financial aid during the **1987-88 school year**, were the student's total resources \$4,000 or more, not including parents' support,
... in 1985? Yes _____ No _____
... in 1986? Yes _____ No _____

For the student who **first** received financial aid during the **1988-89 school year**, were the student's total resources \$4,000 or more, not including parents' support,
... in 1986? Yes _____ No _____
... in 1987? Yes _____ No _____

For the student who **first** received financial aid during the **1989-90 school year**, were the student's total resources \$4,000 or more, not including parents' support,
... in 1987? Yes _____ No _____
... in 1988? Yes _____ No _____

For the student who **first** received financial aid during the **1990-91 school year**, were the student's total resources \$4,000 or more, not including parents' support,
... in 1988? Yes _____ No _____
... in 1989? Yes _____ No _____

For the student who first received aid in **none** of the above or who **never** received aid, were the student's total resources \$4,000 or more, not including parents' support,
... in 1988? Yes _____ No _____
... in 1989? Yes _____ No _____

Married Students or Graduate/Professional Students:

Will the student be claimed by parents as an income tax exemption in 1991? Yes _____ No _____

If the answer is "Yes" to the appropriate questions above, and the student was able to answer "No" to the question of being claimed by the parents, the student may be considered independent.

Award Notification

Freshmen and transfer students who have filed financial aid applications will receive notification after they have completed the acceptance process to the college for the following federal and state programs: Supplemental Educational Opportunity Grant, Perkins Loan, College Work-Study Program, and Educational Opportunity Program. Continuing students will start to receive notification beginning in June. The Financial Aid Office determines the eligibility for these programs.

Financial Aid Disbursement

Financial aid monies which are above the amount of the charges owed to the institution are disbursed on the following schedule:

Stafford Loan. Checks will begin to be disbursed approximately two weeks after the Schedule Adjustment Period is completed.

Financial aid checks (Perkins Loan, Pell Grant, SEOG, etc.) will begin to be disbursed after the fourth week of classes each semester.

All refund checks are mailed by the Student Accounts Office to the student's permanent address of record.

Overawards

Students are urged to contact the Financial Aid Office promptly when they receive funds from any source not listed on their award letters or amounts that are different from what was estimated.

Overawards occur on occasion because of the length of time it takes to match funds from various sources against student records. **Students are responsible for repaying any money that is overawarded.**

Refunding of Overpayments

If a student who has received federal financial aid funds withdraws, takes a leave of absence, or drops out during the payment period (on or after his or her first day of class of the payment period), a portion of the financial aid award(s) may need to be refunded to the Title IV programs and/or the student may need to repay a portion of the award funds he or she received. The funds will be returned first to the loan programs and then to the grant programs. Further information regarding the policies and procedures for the return or repayment of financial aid funds is available at the Financial Aid Office, Cleveland Hall 308.

FINANCIAL AID PROGRAMS**FEDERAL AID**

Before any Title IV funds (CWSP, Perkins, SEOG, Pell, and Stafford/SLS) may be disbursed, the following statements and procedures must be followed.

1. **Statement of Educational Purpose** — Recipients of funds through federal programs must sign a Statement of Educational Purpose indicating that funds received will be used for such purposes, and file an acceptance form by the required date.

2. **Information (Application) Verification** — All students receiving Title IV funds are subject to Department of Education verification procedures. Selected students and their parents may be asked to provide supporting documentation (i.e., tax returns) and other information that verify the accuracy of the data reported on the student aid application(s).

3. **Financial Aid Transcript** — All incoming transfer students who wish to receive aid at our institution are required to submit financial aid transcripts from all prior institutions even if they did not receive financial aid. Forms are available at the Financial Aid Office.

4. **Selective Service Registration** — Prior to the disbursement of Title IV funds all students must sign a statement that they have registered with the Selective Service or that they are not required to be registered.

5. **Default/Refund Statement** — All students must sign a statement that they are neither in default on any student loan (NDSL, Perkins Loan, Income Contingent Loan [ICL], Stafford Loan, Supplemental Loans for Students [SLS], Parent Loans for Undergraduate Students [PLUS] or Consolidation Loan) nor do they owe a refund on any Title IV grant (Pell, SEOG) program at any institution.

Pell Grant

Pell Grant is an entitlement program for undergraduates enrolled at least on a half-time basis in a degree program. Eligibility and the amount of the award are based on need. For 1991-92, awards are expected to be as high as \$2,400 or 60 percent of the total cost of attendance, whichever is less. Pell Grant payments may be made for the period of time required to complete the first bachelor's degree.

To apply for 1991-92, either the Financial Aid Form or an AFSA application must be filed by May 1, 1992. Applications are available in the Financial Aid Office. About six to eight weeks after filing, a calculated Student Aid Report will be sent to the applicant, who must submit all copies to the Financial Aid Office for determination of the amount of the grant and for processing of payment.

For selected applicants, the Department of Education requires additional documents to be submitted for verification to the Financial Aid Office. This procedure must be completed before final eligibility can be determined and the appropriate payment made.

If a student's family experiences a dramatic change in income from one year to the next, the student may be eligible to apply for a Pell Grant based on estimated income. Further details are available in the Financial Aid Office.

Supplemental Educational Opportunity Grant (SEOG)

For undergraduates who can demonstrate financial need, this grant program provides awards ranging up to \$400 per semester. SEOG awards may be received for the period of time required to complete the first bachelor's degree. Preference is given to full-time students who will also receive Pell Grants in that year.

Application is made with the FAF through the college's Financial Aid Office, which is responsible for determining the amount and who receives these grants. This application also covers the College Work-Study Program and Perkins Loan.

College Work-Study Program (CWSP)

This work program for students demonstrating financial need offers positions both on campus and at approved off-campus locations. Where possible, placements are made according to the student's educational/vocational goals. Salaries are paid biweekly for actual hours worked up to an average of 13 hours a week. Students earn an average of about \$885 a semester. Preference is given to full-time students.

Application is made through the college's Financial Aid Office using the FAF.

Perkins Loan

Undergraduate students may borrow up to \$4,500 for the first two years of study depending on status and need. A total of \$9,000 may be borrowed for a bachelor's degree program.

The cumulative amount for a master's degree is \$18,000. Preference is given to full-time students. Loans may be limited due to fund availability.

If you are a new borrower or received your first Perkins Loan after July 1, 1987, and you are attending at least half-time, you have a grace period of nine months. (If you are not a new borrower or had borrowed your NDSL prior to July 1, 1987, your grace period may be six months.) You may be allowed up to 10 years to repay the loan. The schedule of repayment will depend on the size of the loan but the minimum amount is \$30 per month, which includes 5 percent interest on the unpaid balance.

Repayment of the entire loan may be canceled for full-time teaching in a school designated by the Department of Education as being low income, for teaching handicapped children, or as a full-time staff member in a federal Head Start program. Application is made through the Financial Aid Office using the Financial Aid Form (FAF). Federal regulations also require a loan exit interview prior to a student's leaving the college. This interview, conducted by the Financial Aid Office, includes repayment obligations, deferment options, and cancellation possibilities.

Veterans Administration

Eligible veterans and children or spouses of eligible deceased or service-connected disabled veterans may be able to receive aid for approved post-secondary study. Information and application forms are available at all Veterans Administration offices.

Aid to Native Americans — Federal

The U.S. Bureau of Indian Affairs offers grants for college study to needy applicants: (1) who are enrolled members of an American Indian, Eskimo, or Aleut tribe, band, or group recognized by the Bureau of Indian Affairs; (2) who are accepted or enrolled as an undergraduate in an approved college or university; (3) who are pursuing at least a two-year degree; and (4) who demonstrate financial need. Awards vary depending on need and available funds.

An application is necessary for each year of study and must be accompanied by an official needs analysis from the Financial Aid Office. First-time applicants must also submit tribal enrollment certification from the bureau, agency, or tribe which records enrollment for the tribe.

Applications are available from:

U.S. Department of Interior
Bureau of Indian Affairs
Federal Building, Room 523

100 South Clinton St.
Syracuse, New York 13260-0043

NEW YORK STATE AID PROGRAMS**Tuition Assistance Program (TAP)**

Full-time students enrolled in a degree program at an approved New York state post-secondary institution are eligible to participate in this grant program. Awards are based on net taxable income and tuition and fees charged. Undergraduates may receive from \$350 up to maximum tuition each year for four years unless enrollment is in an approved five-year program.

A recipient must be a U.S. citizen or permanent resident alien and a New York state resident. If the student is dependent, and is requesting a state grant payment for the first time in 1991-92, the family net taxable income from the preceding tax year must be below \$50,500; if independent and single with no tax dependents, net taxable income must be below \$10,000. To be considered independent, a student must meet specific TAP requirements regarding age, residency, and financial status.

To continue to be eligible to receive payment, students must maintain good academic standing and be making reasonable progress toward a degree as required by State Education Department regulations.

These requirements plus application forms may be obtained from the Financial Aid Office or from the New York State Higher Education Services Corporation, 99 Washington Ave., Albany, N.Y. 12255. The Higher Education Services Corporation determines eligibility and mails an award certificate directly to the applicant indicating the amount of the grant. Application deadline for 1991-92 is May 1, 1992, and for 1992-93, May 1, 1993.

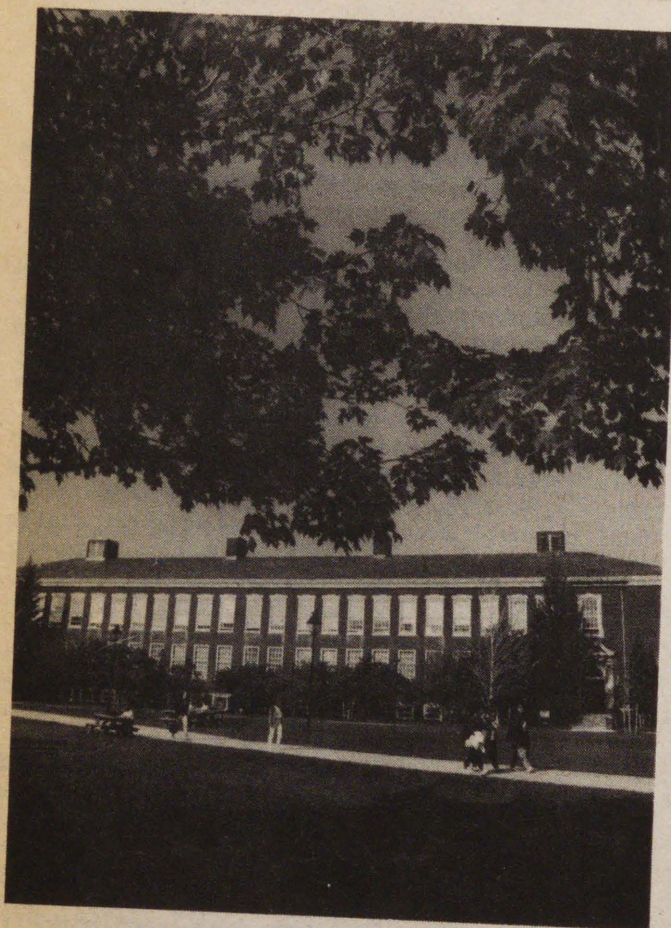
Educational Opportunity Program (EOP)

A grant program for undergraduates only who are both academically and economically disadvantaged according to program guidelines and in need of assistance, this program requires New York state residency. Students must be accepted or enrolled generally as full time in the Buffalo State EOP program. Awards are based on financial need and available funds and can be received for up to 10 semesters. New students should apply through the EOP Admissions Office, Cleveland Hall 207. Returning students may pick up financial aid applications in the Financial Aid Office, Cleveland Hall 309.

Regents College Scholarship (RC)

This tuition scholarship for full-time students residing in New York state is based on results of the Scholastic Aptitude Test (SAT) or American College Testing Program Assessment (ACT) taken by high school students in their senior year. Awards are for \$250 a year for tuition for up to four years unless enrolled in an approved five-year program.

To receive payment, a Financial Aid Form (FAF) or a Student Payment Application from the New York State Higher Education Services Corporation must be filed each year. Students may receive both a Regents College Scholarship and a TAP award (see section on TAP) if eligible for both. Payment applications are available from the Financial Aid Office or by writing the New York State Higher Education Services Corporation, 99 Washington Ave., Albany, N.Y. 12255.



Children of Veterans Award

The Child of Veteran Award is a financial aid program for children to veterans who are deceased, or who have a current disability of 50 percent or more, or are missing in action as a result of service during World War I, World War II, Korean Conflict or Vietnam Era or who were classified as prisoners of war during such service. For information regarding the required dates of military service, please contact the Financial Aid Office.

Awards are \$450 a year for up to five years (depending on the normal length of the undergraduate degree program) in a college or hospital nursing school in the state without consideration of income or tuition costs. The combined Child of Veteran Award and TAP award cannot exceed the amount of tuition charges.

A special application supplement is available from the New York State Higher Education Services Corporation.

New York State Aid for Part-time Study (APTS)

This New York state aid program provides tuition assistance for part-time undergraduate students enrolled in degree programs.

Students who intend to enroll as at least half-time students and who meet all other eligibility requirements may apply for this campus-based program.

To be considered for an award a student must:

- be working toward an undergraduate degree as a part-time student enrolled for 6-11 semester hours per semester.
- have already earned at least six semester hours of credit or the equivalent.

- retain good academic standing.
- be a resident of New York state.
- be either a U.S. citizen, permanent resident alien, or refugee.
- meet the income limits. "Income" means the net taxable income as taken from the previous year's New York state income tax return. The income limit varies with this student's eligibility to be claimed as a tax dependent. If the student was not eligible to be claimed as a tax dependent of the parents, the student's (and, if married, the spouse's) New York state net taxable income cannot exceed \$15,000. If the student was claimed as a tax dependent, the family's (student, spouse, and parents) New York state net taxable income cannot exceed \$22,000.
- not have used up Tuition Assistance Program (TAP) or other New York state student financial aid eligibility for full-time study.
- apply for a federal Pell Grant.

Awards are based upon a student's financial need and funds available at our institution. (Awards cannot exceed the educational costs minus the total of other grants awarded.)

Contact the Financial Aid Office for information and applications.

Supplemental Tuition Assistance Program (STAP)

Undergraduate students who are educationally disadvantaged and require remedial courses may be eligible for up to one additional semester of tuition aid beyond their TAP eligibility. For further information concerning the Supplemental Tuition Assistance Program, contact the Financial Aid Office.

Liberty Scholarships

This new New York state program will begin in the 1991-92 academic year. To be eligible, an applicant must have graduated from a secondary school in New York state or have received a high school equivalency diploma in New York state; be less than 22 years old as of June 30 prior to the academic year for which the initial award is received; not have received any state grant awards (TAP, Regents Scholarship, etc.) prior to the 1991-92 academic year; be enrolled in a degree-granting institution within 24 months of graduating from a secondary school or receiving the high school equivalency diploma, unless exceptional circumstances prevent such enrollment; receive a federal Pell grant; and if a full-time student receive a TAP award. The maximum scholarship award will amount to the non-tuition cost of attendance (room and board, books, transportation if a resident student). For commuting students the program will determine the non-tuition costs of attendance awards. This award will be reduced by the amount of the Pell Grant; the amount of other grants and scholarship from other federal or state programs other than TAP and STAP; and the amount of income over \$18,000 adjusted gross income. There will be a \$1 award reduction for every \$3 over \$18,000 of federal adjusted gross income. Additional information is available from the Financial Aid Office and the New York State Higher Education Services Corporation, Albany, New York 12255.

Robert T. Stafford Students Loans

The New York State Higher Education Services Corporation (NYSHESC) is the guarantee agency in New York state for the Stafford Loan program. Students who are enrolled at least half-time at an approved college and who are U.S. citizens or

permanent residents are eligible to apply for this loan. The program enables both undergraduate and graduate students to borrow directly from a bank, credit union, savings and loan association, or other participating lender. Depending on total college costs, other aid, full/part-time status, and the amount of the family contribution for all applicants, a student in his/her first two years may borrow up to \$2,625. A student who has achieved third-year status of undergraduate study may borrow up to \$4,000 per year. A total of \$17,250 is the maximum eligibility for undergraduate study. Graduate students may borrow up to \$7,500 per year. A total of \$54,000 for both undergraduate and graduate study is the maximum a student may borrow under this program.

Repayment begins six months after at least half-time enrollment has ended, and students generally have from five to ten years to repay. The minimum payment, barring unusual circumstances, will be \$50 plus interest. The applicable interest rate is 8 percent until the end of the fourth year of repayment and will be 10 percent beginning with the fifth year of their repayment status. The federal government will pay the interest on the loan until the repayment period begins, and also during any other authorized periods of deferment. An annual insurance premium of 1 percent of the loan is payable to the lender at the time the check is issued. Also, a 5 percent origination fee is charged against the loan by the program and will usually be deducted from the amount of the check.

Loan applications, are available at the lending institution. The completed application and a current Financial Aid Form (FAF) are submitted to the Financial Aid Office for its recommendation and then sent to the lending institution. The lender will forward it to the New York State Higher Education Services Corporation for final decision. NYSHESC notifies the student and lender of the loan decision.

Student loan checks, which are payable to both the student and the college, are mailed directly to the school. The college Student Accounts Office will notify the student when the check arrives on campus. All loans will be distributed in two installments.

Due to the volume of applications and federal verification requirements, it is suggested that Stafford Loan applications be filed with the Financial Aid Office three months before the semester for which the loan is needed. This will also help eliminate cash flow problems regarding books, supplies, and transportation which often occur early in the semester.

Other Loans

There are two other educational loans available to provide additional funds for educational expenses. They are the Parent Loans for Undergraduate Students (PLUS) and the Supplemental Loans for Students (SLS). The annual interest rate for these loans will not exceed 12 percent and may be less based on the U.S. Treasury Bill rate. Like the Stafford Loan, these loans are made by a participating lender.

Loan applications are available at the lending institution and the completed application is submitted to the Financial Aid Office. Unlike the Stafford Loan, there are no restrictions or limits to eligibility based on family income; however, no loan may exceed the difference between the student's budget and other financial aid.

Parent Loans for Undergraduate Students (PLUS)

This loan is available to parents of dependent undergraduate

students. They may borrow up to \$4,000 per year per child, and up to \$20,000 in total for each child.

An insurance premium of 1 percent of the total loan is collected at time of check issue by the lender. There is no origination fee charged. Parents must begin repayment of principal and interest (variable) within 60 days after the loan is received. Many lending institutions allow for the postponement of principal and interest payments if the student is attending on a full-time basis. The minimum monthly payment is \$60 with repayment to be completed within 5-10 years depending, on how much the parent borrowed.

Many of the rights and responsibilities of Stafford Loan apply to this program; however, some of them are different. Contact the lending institution for complete information, forms and procedures.

Supplemental Loans to Assist Students (SLS)

This loan is available to independent undergraduates and to graduate and professional students. Undergraduates may borrow up to \$4,000 per year with a \$20,000 total.

Students must begin repayment of interest (variable) within 60 days of receipt of the loan. (This includes the time in school attendance.) Some lenders let the student delay interest payments until he/she begins the repayment of the loan. Contact the lending institution for details of capitalizing interest on this loan. An insurance premium of 1 percent of the total loan is collected at time of check issue by the lender. There is no origination fee charged.

Repayment of the principal plus interest begins within 60 days after leaving school or dropping below full-time attendance. The minimum monthly payment is \$60, with repayment to be completed within 5-10 years depending on how much the student borrowed.

State Aid to Native Americans

This is an entitlement program with neither a qualifying examination nor a limit on the number of recipients. Students receive up to \$1,350 a year for a maximum of four years of full-time study. To be eligible for a full-time award, a minimum of 12 credit hours must be taken each semester. Students registered for less will receive about \$46 per credit hour.

To qualify, applicants must: be a member of one of the Native American tribes located on reservations within New York state, have graduated from an approved high school or have earned a general-equivalency diploma, or be enrolled in a program in an approved post-secondary institution leading to degree credit status and the general-equivalency diploma, and be enrolled in an approved post-secondary institution in New York state.

Applications and program details may be obtained from the Native American Education Unit, New York State Education Department, Albany, N.Y. 12234.

Recipients must notify the Native American Education Unit in writing of any change in student status, program, or institutional enrollment.

Office of Vocational and Educational Services for Individuals with Disabilities (VESID)

Disabled students pursuing higher education may be eligible for assistance through the State Office of Vocational and Educational Services for Individuals with Disabilities (VESID). Criteria and funding vary. Applications and eligibility requirements may be obtained at the local VESID office.

COLLEGE AID PROGRAMS

Job Location and Development Program

The Job Location and Development Program is a referral service which provides Buffalo State College students with part-time employment opportunities in the greater Buffalo area. The program provides alternatives for students to learn work-related skills while defraying increasing educational costs. All currently registered students may make use of the service, regardless of eligibility for other student assistance programs (Title IV funding). The Job Location and Development Program is located in the Financial Aid Office.

Scholarships

A limited number of scholarships are available to students showing outstanding leadership qualities, academic abilities, and financial need. Some of these awards are provided by outside organizations, others by specific departments at Buffalo State.

The scholarships listed below are administered by the Financial Aid Office. Students fill out a single form for all of them. Unless otherwise stated, all students may apply. In most cases selection is made by the organization. Notices of deadlines are published in the student newspaper and are on file in the Financial Aid Office.

Buffalo Council of Parents and Teachers — for students residing in Buffalo who are graduates of Buffalo public high schools and whose parents have been P.T.A. members.

College Club of Buffalo — applicant must be a graduate of a City of Buffalo high school.

Daniel Upton (Sigma Sigma Sorority Alumni Chapter) — for junior females majoring in education.

Mothers Club at Central Park Methodist Church

Buffalo Federation of Women's Clubs

Women Teachers Association of Buffalo — for upper-level females majoring in education.

The following scholarships/awards require separate application forms and, for the most part, have more specialized requirements:

Alumni Scholarship — for all students. Applications are available in the Alumni Office in Moot Hall.

Additional Alumni Scholarship — awards for undergraduates who are from specially designated areas or are members of particular organizations. Applications are available in the Alumni Office in Moot Hall.

Chemistry — for outstanding junior female majoring in chemistry. Selection is made by the Chemistry Department.

Exceptional Education — grants from various fraternal organizations available to majors in all areas of exceptional education. Contact chairperson of Exceptional Education Department.

Foreign Language — two scholarships available through Foreign Language Department, Bishop Hall 121. Application deadline is April 1.

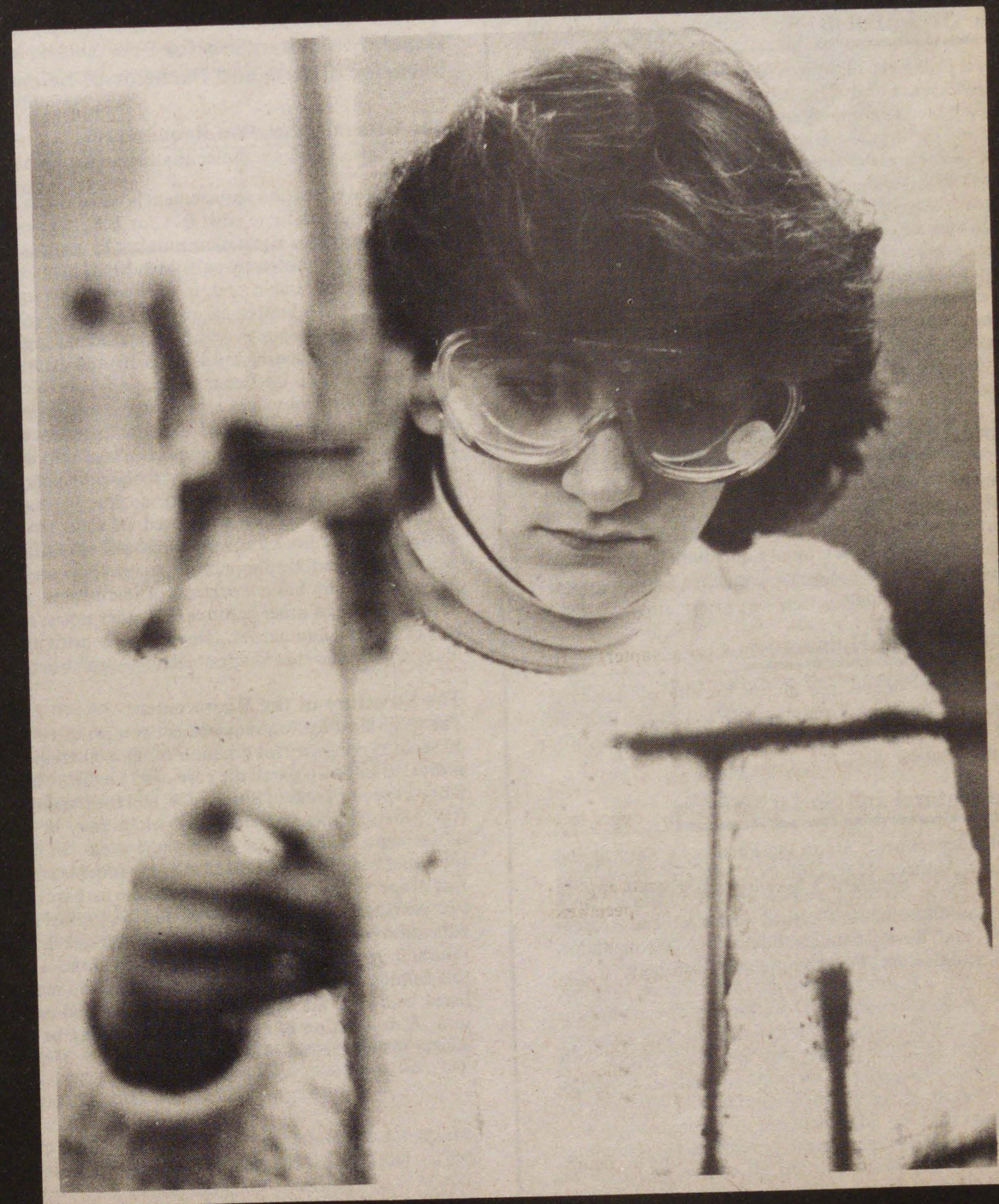
Fashion Technology, Food Systems Management, Nutrition and Food Science — there are limited special scholarships/awards available to students majoring in these areas. A single application form may be obtained in Caudell Hall 106. Please contact the appropriate department early in the spring semester regarding application deadlines.

Frances Siu Lan Tyau International Student Scholarship — annual scholarships awarded to international students. Candidates are screened by a selection committee in March of each year. Further information is available from the director of international student affairs, Student Union 400.



4

ACADEMIC PROGRAMS



Academic Programs

Academic Organization

The college is organized into three faculties: Arts and Humanities, Applied Science and Education, and Natural and Social Sciences. Each faculty contains specific departments which are responsible for the degree programs offered there.

All of the major areas of study or interdisciplinary programs described below fall under the responsibility of one or more of the departments.

Each program description gives valuable information concerning all aspects of each course of study offered at Buffalo State College. This information includes: the department offering the program, the degree that is granted, an explanation of the program's content and purpose, special admission requirements, required credit hours in the major field and outside of the field, the number of electives allowed, and total degree requirements.

Faculty of Applied Science and Education

The following departments are in the Faculty of Applied Science and Education: Business, Computer Information Systems, Criminal Justice, Educational Foundations, Elementary Education and Reading, Exceptional Education, Nutrition and Food Science, Social Work, Speech Language Pathology and Audiology, and Technology.

Faculty of Arts and Humanities

The following departments are in the Faculty of Arts and Humanities: Art Education, Communication, Design, English, Fine Arts, Foreign Language, Performing Arts, and Philosophy and Religious Studies.

Faculty of Natural and Social Sciences

The following departments are in the Faculty of Natural and Social Sciences: Anthropology, Biology, Chemistry, Economics and Finance, Earth Sciences and Science Education, Geography and Planning, Health, Physical Education and Recreation, History and Social Studies Education, Mathematics, Physics, Political Science, Psychology, and Sociology.

General Requirements for Bachelor of Arts and Bachelor of Science Degrees

The General Education Requirement

Goals

The general education requirement is based on the belief that all students who graduate with B.A. or B.S. degrees ought to be required to take a significant number of courses outside their major areas in order to gain breadth. Through the general education requirement and, in particular, through the careful arrangement of a limited number of courses in selected categories, the college hopes to provide for students a general framework for understanding the complexity and diversity of human experience and an intellectual context from which to evaluate critically their own values as well as the values of society. This framework will help students gain the experience, knowledge, and sensitivity necessary to function in contemporary society as educated individuals and to adjust to the pressures and demands of careers and of life.

The requirements are structured in ways that will enable students to: acquire a knowledge of basic scientific methodologies; understand the impact of technology on society; gain insights into the basic workings of institutions and societies; become aware of other cultures and other times; appreciate the role of arts and humanities; gain a deeper sensitivity to the major ideas and events that shape society.

The Structure of the Requirement

The general education requirement comprises 60 credits of the 123 credits necessary for graduation. This 60-credit requirement is divided into two parts: the **core** of 42 credits, which is divided among specific areas of knowledge, and the remaining 18 credits (the **general education electives**), which may be chosen (with advisement) from any or all of these areas. In each category (core and general education electives), students may select from lists of specially approved courses. These lists are updated every two years and only those courses may be applied to the general education requirement which appear on the list during the semester in which the student takes the course. The courses in this catalog which meet the general education requirement are listed below, as are the specific categories and credit distribution. **A description of each course listed may be found in the course listing section of this catalog.**

Categories and Credit Distribution
Core Requirement 42 credits
 (Each core area must contain courses from at least two distinct academic fields.)

Applied Science and Technology (T) 6
 (appropriate courses from business, computer information systems, criminal justice, educational foundations, elementary education and reading, exceptional education, nutrition and food science, social work, speech language pathology and audiology, and technology)

Arts (A) 9
 (appropriate courses from art education, design, fine arts, and performing arts)

Humanities (H) 9
 (appropriate courses from communication, English, foreign language, and philosophy and religious studies)

Math/Science (M) 9
 (appropriate courses from biology, chemistry, geosciences, mathematics, physics, and interdisciplinary sciences)

Social Science (S) 9
 (appropriate courses from anthropology, economics and finance, geography and planning, history and social studies education, health, physical education and recreation, political science, psychology, and sociology)

General Education Electives (E) 18 credits
 (must include courses from at least three of the core categories)

TOTAL 60 credits

Additional Guidelines, Notes, and Requirements

Basic Skills Courses

Courses taken to satisfy the English Composition Requirement (ENG 101-102) may be applied as general education electives or all-college electives. MAT 100, taken to satisfy the Basic Mathematics Requirement, may be used only as an all-college or free elective. Courses numbered 098 or 099 do not carry college credit. A complete description of the basic skills requirement may be found in the following pages of this catalog.

Physical Education Requirement — All students must complete the two-credit physical education requirement, as outlined elsewhere in this catalog. Courses taken to satisfy the physical education requirement **may not** be applied toward the general education requirement.

Major Courses — Students **may not** use courses required by their major or courses from their major discipline to satisfy any part of the general education core requirement.

Dual Majors and Minors — Courses selected to satisfy the general education requirement **may** be used to fulfill any part of the requirements of a second major or a minor.

Upper-Level Requirement — All students must complete a minimum of **45 credits** of their total program (including the major) with upper level courses (300-400 level; an exception is made for foreign language courses as noted below.)



Course Coding System — All courses carrying general education credit, as well as courses which satisfy the global and diversity requirements, will be designated in the Master Schedule and on student grade labels in the Advisement Code column in accordance with the following system.

The first space in the Advisement Code indicates global or diversity status:

D = Diversity
 G = Global

The middle space in the Advisement Code designates general education core or elective status:

C = Core
 E = General Education Elective

The third space indicates the appropriate core or general education elective area:

T = Applied Science and Technology Core
 A = Arts Core
 H = Humanities Core
 M = Math/Science Core
 S = Social Science Core

Special Notes to Students and Advisers Regarding Selection of Courses

Because of their importance, it is recommended that consideration be given to the following areas by advisers and students:

1. In order to encourage the integration of knowledge derived from the general education requirement, it is recommended that nine of the 60 hours selected by each student focus on a specific, common issue or period that has had a major impact on civilization and that courses selected represent at least two distinct academic fields. These courses and the particular area of special focus would be determined jointly by the student and adviser.

2. In recognition of the increasing need for quantitative and analytic skills in contemporary society, it is recommended that at least one course be selected from either the core or the electives that incorporates an approach that is primarily analytic. This may include courses in logic, statistics, mathematics, or computer technology. Such an approach would assist students in the development of a more critical and analytic method of inquiry.

Core Requirement - Selected Courses

The courses listed for each category have been selected by the faculty because they best satisfy the goals of the core requirement (42 credits). Student and their advisers will select the particular courses to be taken from the list of approved courses.

The requirement for each category must be satisfied by courses from more than one distinct academic field as determined primarily by course prefix designation; for example, if a category includes nine credits, only two of the three courses may come from the same field.

Core Category: Applied Science and Technology (6 credits)**Business Department**

- BUS 116 Introduction to Business
BUS 117 Introduction to Retailing

Computer Information Systems Department

- CIS 101 Computer Fundamentals
CIS 111 Introduction to Computer Science

Criminal Justice Department

- CRJ 101 Introduction to Criminal Justice Systems and Administration
CRJ 201 Criminal Law & Procedure
CRJ 302 Community Issues in Criminal Justice

Educational Foundations Department

- EDF 206 Introduction to the Group Experience

Exceptional Education Department

- EXE 100 Nature & Needs of Exceptional Individual
EXE 306 Behavior Management
EXE 314 Psychology of Exceptional Individual

Nutrition and Food Science Department

- NFS 101 Introductory Food
NFS 105 Food and People: Interactions and Issues
NFS 334 Contemporary Nutrition
CFS 108 Apparel Design
CFS 206 Introduction to Textiles
CFS 340 Introduction to Fashion Merchandising

Social Work Department

- SWK 220 Introduction to Social Work
SWK 319 Social Dynamics of Poverty

Speech Language Pathology and Audiology Department

- SLA 206 Language Development
SLA 220 Introduction to Communication Disorders

Technology Department

- TEC 123 Principles of Manufacturing
TEC 150 The Shape of Things
TEC 260 Development of Technology
TEC 319 Technology and Values
TEC 327 Survey of Industrial Pollution Control Problems
SAF 305 Fundamentals of Safety

Core Category: Arts (9 Credits)**Art Education Department**

- AED 100 Essentials of Visual Arts
AED 200 Fundamentals of Art Inquiry
AED 315 Arts in Living
ATS 320 Introduction to Art Therapy

Design Department

- DES 101 Introductory Design 2D
DES 103 Introductory Design 3D
DES 114 Workshop in Crafts
DES 190 Design Symposium

Fine Arts Department

- FAR 100 Introduction to Fine Arts
FAR 101 Drawing I
FAR 210 Introductory Painting
FAR 220 Introductory Photography
FAR 230 Introductory Printmaking
FAR 240 Introductory Sculpture
FAR 250 Art History I
FAR 251 Art History II

Performing Arts Department

- DAN 200 Beginning Modern Technique I
DAN 220 Beginning Ballet
DAN 224 Dance Appreciation
MUS 201 Symphonic Music
MUS 203 Chamber Music
MUS 204 Dramatic Music
MUS 210 Music Theory for non-Majors
OR

MUS 217 Experiences in Music for Beginners

- MUS 301 Introduction to Music

One of the following Music courses:

- MUS 205 American Popular Music
MUS 206 Jazz Rock Foundations
MUS 208 Survey of World Music Cultures
PAR 100 The Lively Arts
PAR 200 Performance Laboratory
THA 106 Introduction to Theatre Arts
THA 200 Voice and Diction
THA 207 Play Production
THA 317 History of Theatre - Ancient to Renaissance OR
THA 318 History of Theatre - Renaissance to Modern

Core Category: Humanities (9 Credits)**Communication Department**

- COM 100 Introduction to Mass Communication
COM 103 Introduction to Human Communication
COM 205 Experiences in Speech

English Department

- ENG 110 English Literature I OR
ENG 111 English Literature II
ENG 130 Biblical & Classical Literature OR
ENG 131 Medieval and Renaissance Literature
ENG 132 Modern European Literature
ENG 140 American Literature I OR
ENG 141 American Literature II
ENG 151 Introduction to Poetry
ENG 205 History of Cinema I OR
ENG 206 History of Cinema II
ENG 230 Comparative Literature
ENG 252 Contemporary Literature I OR
ENG 253 Contemporary Literature II

Foreign Language Department

- FRE 101 Elementary French
FRE 102 Elementary French
GER 101 Elementary German
GER 102 Elementary German
GRK 101 Elementary New Testament Greek
GRK 102 Elementary New Testament Greek
HEB 101 Elementary Hebrew
HEB 102 Elementary Hebrew
ITA 101 Elementary Italian
ITA 102 Elementary Italian
LAT 101 Elementary Latin
LAT 102 Elementary Latin
POL 101 Elementary Polish
POL 102 Elementary Polish
RUS 101 Elementary Russian
RUS 102 Elementary Russian
SPA 101 Elementary Spanish
SPA 102 Elementary Spanish
SWA 101 Elementary Swahili
SWA 102 Elementary Swahili

Philosophy and Religious Studies Department

- PHI 101 Introduction to Philosophy OR
PHI 102 Introduction to Moral and Social Philosophy
PHI 103 Introduction to Logic OR
PHI 307 Beginning Symbolic Logic
PHI 104 Introduction to the Study of Religion OR
PHI 204 Philosophy of Religion
PHI 201 Philosophies of Capitalism, Socialism and Democracy OR
PHI 323 Moral Issues
PHI 317 History of Philosophy I OR
PHI 310 History of Ethics
PHI 207 Philosophy in Literature
PHI 302 Philosophy of Art and Beauty
PHI 321 World Religions

Core Category: Math/Science (9 Credits)**Biology Department**

- BIO 100 Principles of Biology
BIO 104 Environmental Biology
BIO 115 General Botany
BIO 116 General Zoology
BIO 311 Human Anatomy & Physiology I
BIO 312 Human Anatomy & Physiology II
BIO 322 Heredity & Human Inheritance

Chemistry Department

- CHE 100 Chemistry and Society
CHE 101 General Chemistry I OR
CHE 111 Fundamentals of Chemistry I
CHE 102 General Chemistry II OR
CHE 112 Fundamentals of Chemistry II

Earth Sciences and Science Education Department

- GES 101 Introductory Geology OR
GES 122 Principles of Earth Science
GES 102 Historical Geology
GES 111 Oceanography
GES 131 Introductory Astronomy
GES 223 Environmental Earth Science
GES 241 Meteorology
SCI 100 Contemporary Science
SCI 105 Physical Science for Non-Science Students
SCI 231 Pollution, Environment and Society
SCI 232 Energy, Environment and Society
SCI 327 Development and Impact of Atomic Science

Mathematics Department

- MAT 103 Introduction to Contemporary Mathematics
MAT 107 Casino Gambling
MAT 110 Intermediate College Algebra and Trigonometry
MAT 111 Elementary Probability and Statistics
MAT 119 Finite Mathematics
MAT 126 Calculus OR
MAT 161 Calculus I
MAT 127 Calculus of Several Variables OR
MAT 162 Calculus II
MAT 304 Games and Linear Programming
MAT 306 Problem Solving in Basic

Physics Department

- PHY 100 Current Physics
PHY 101 General Physics I OR
PHY 111 University Physics I
PHY 102 General Physics II OR
PHY 112 University Physics II
PHY 103 Understanding Sound

Core Category: Social Science (9 Credits)**Anthropology Department**

- ANT 100 Human Origins
ANT 101 Introduction to Anthropology
ANT 144 Folklore and Folklife
ANT 340 Women in Anthropological Perspective
ANT 381 Religion, Myth, Magic

One of the following Anthropology courses:

- ANT 301 Indians of Eastern North America
ANT 305 Peoples of Africa
ANT 330 Anthropology of Oceania

Economics and Finance Department

- ECO 101 The Economic System
ECO 103 Economic History of U.S.
ECO 201 Principles of Macroeconomics
ECO 202 Principles of Microeconomics
ECO 301 Economics of Labor Relations

Geography and Planning Department

- GEG 101 Man's Natural Environment
GEG 102 Man's Cultural Environment
GEG 107 Resources and Man
GEG 200 Introduction to Regional Geography
GEG 203 Geography of Middle America
GEG 206 Geography of New York State
GEG 307 Conservation and Management
GEG 309 Introduction to Urban Geography

One of the following Geography courses:

- GEG 205 Geography of China and Far East
GEG 351 Geography of Africa
GEG 352 Geography of Europe
GEG 353 Geography of the Soviet Union

Health, Physical Education and Recreation Department

- HPR 250 Movement and Meaning
HPR 300 Athletics in Education
HSC 204 Personal & Community Health

History and Social Studies Education Department

- HIS 101 Twentieth Century U.S.
HIS 106 American Life I
HIS 107 American Life II
HIS 115 Western Civilization (Europe to 1500)
HIS 116 Europe Since 1500
HIS 117 Twentieth Century Europe
SST 102 Problem Solving in the Social Studies

One of the following History courses:

- HIS 210 History of Modern Asia
HIS 211 History of Modern Africa
HIS 314 History of Modern Latin America
HIS 322 Afro-American History
HIS 313/ PSC 345 Politics and History in Middle East

Political Science Department

- PSC 101 Introduction to Government and Politics
PSC 102 American Political Institutions and Problems
PSC 103 Great Political Issues
PSC 215 Urban Government
PSC 218 African-American Political Culture
PSC 230 International Relations
PSC 368 Comparative Public Administration

One of the following Political Science courses:

- PSC 225 Women and American Politics
PSC 240 European Political Systems
PSC 340 Politics of Developing Countries
PSC 345/ HIS 313 Politics and History of the Middle East
PSC 348 Government and Politics of the Far East

Psychology Department

- PSY 101 Introduction to Psychology
PSY 304 Psychology of Learning
PSY 308 Basic Concepts of Perception
PSY 311 Theories of Personality
PSY 325 Social Behavior
PSY 340 Cognitive Psychology
PSY 355 Lifespan Developmental Psychology
PSY 367 Behavior in Organizations

Sociology Department

- SOC 100 Introduction to Sociology
SOC 210 Introduction to Women's Studies
SOC 240 Analyzing Social Problems
SOC 310 Sociology of Sex Roles
SOC 320 Sociology of the Family
SOC 330 Social Psychology
SOC 360 The Sociology of Work
SOC 380 The Sociology of Crime

The General Education Electives: Selected Courses

The general education elective category offers students greater flexibility in choosing courses than available in the core. These electives will allow students to build on areas of interest developed while completing the core, to broaden or enhance career opportunities, and to explore additional interests and concerns.

All courses that have been approved to satisfy the core requirement may also be used as general education electives (18 credits). In addition to those core courses listed, the courses that appear below may be used as general education electives, although they are not available to satisfy the core requirement. Please note that no course already used to satisfy the core requirement may also be used as a general education elective. Courses selected in this section of the requirement must include courses from distinct academic fields reflecting at least three of the core categories listed, i.e., arts, humanities, social science, math/science, applied science and technology.

General Education Electives

Applied Science and Education Electives

Business Department

- BUS 323 Salesmanship
BUS 325 Human Resource Management

Computer Information Systems Department

- CIS 151 Computer Based Information Processing I
CIS 201 Introduction to Microcomputer Applications

Criminal Justice Department

- CRJ 317 Constitution/Civil Liberties

Educational Foundations Department

- EDF 303 Educational Psychology
EDF 345 Parenting
EDF 346 Teenage Sexuality

Elementary Education and Reading

- ECS 405 The Parent-Infant Experience

Exceptional Education Department

- EXE 245 Community Service with Exceptional Individuals

Nutrition and Food Science Department

- NFS 305 Advanced Foods
NFS 335 Nutritional Needs & Concerns During the Lifespan
CFS 230 Family Health and Home Nursing
CFS 447 Clothing in Relation to Human Behavior
CFS 448 Costume Through the Ages

Social Work Department

- SWK 105 Interpersonal Relations
SWK 310 Sexuality in Human Development
SWK 346 Child Abuse and Neglect

Technology Department

- TEC 400 Marketing
TEC 401 Management Science
SAF 320 Product Safety
SAF 340 Community Safety

Arts Electives

Art Education Department

- AED 319 Art for Elementary and Exceptional Education Classroom Teachers
ATS 325 Arts & Special Needs
ATS 329 Art and the Older Adult

Design Department

- DES 215 Introduction to Design History
DES 220 Ceramics I
DES 230 Introduction to Jewelry
DES 235 Design in Metals I
DES 240 Fiber—Weaving I
DES 245 Fiber—Surface Design I
DES 250 Wood Design I
DES 260 Introduction to Interior Design

Fine Arts Department

- FAR 102 Drawing II
FAR 335 Papermaking
FAR 454 Greek Art
FAR 455 Etruscan and Roman Art
FAR 456 Early Medieval Art
FAR 457 Gothic Art
FAR 458 Early Renaissance Art in Italy
FAR 459 High Renaissance & Mannerism

- FAR 460 Northern Renaissance Art
FAR 461 Italian Baroque Art
FAR 462 Nineteenth-Century Art
FAR 463 Twentieth-Century Art
FAR 465 American Art I
FAR 467 Baroque of Northern Europe
FAR 468 Romanesque Art

Performing Arts Department

- DAN 302 Modern Dance Technique II
DAN 303 Dance Composition
DAN 312 Modern Dance Technique III
DAN 320 Rehearsal and Performance
DAN 330 Ballet II
MUS 112 Applied Music
MUS 350 Directed Study Seminar
MUS 161-164 Applied Music II
MUS 165 Keyboard Harmony I
MUS 171-172 Applied Music
MUS 173-174 Applied Music
MUS 271-272 Applied Music
MUS 273-274 Applied Music
MUS 371-372 Applied Music
MUS 373-374 Applied Music
MUS 302 Music History, Antiquity Through Baroque
MUS 303 Music History, Classical & Romantic
MUS 304 Music History, 20th Century
MUS 305 Modern Jazz
MUS 306 Urban Blues and Rock
MUS 313 Ensemble I
MUS 314 Concert Band
MUS 318 Sight-Singing & Ear-Training
MUS 319 American Folk Music
MUS 326 Jazz Ensemble I
MUS/ENG 328 Words & Music

- MUS 335 Buffalo State College Singers
PAR 325 The Business of the Performing Arts
PAR 327 Aesthetics & the Arts
PAR 350 The American Musical
THA 100-102 Play Reading

- THA 208 Technical Theatre
THA 226 Acting: Theory & Practice
THA 260 Basic Movement for Actors
THA 300 Advanced Voice
THA 311 Costume for the Theatre
THA 312 Lighting Techniques
THA 315 Period Styles for the Theater
THA 319 Playwriting

Humanities Electives

Communication Department

- COM 306 Public Speaking
COM 307 Communication & Group Process
COM 309 Persuasive Speaking
COM 310 International Communication
COM 402 Oral & Visual Communication

English Department

- ENG 180 Introduction to Folklore
ENG 202 Creative Writing Narrative
ENG 203 Creative Writing Poetry
ENG 231 Women in Literature: Selected Topics
ENG 240 Afro-American Literature to 1940
ENG 241 Afro-American Literature Since 1940

- ENG 260 Children's Literature
ENG 280 American Folklore
ENG 300 Writing for the Professions
ENG 301 Advanced Composition
ENG 303 Literature in the Film
ENG 304 Forms of the Film
ENG 315 Shakespeare I
ENG 316 Shakespeare II
ENG/MUS/328 Words and Music
ENG 330 Literature of the Bible
ENG/FRE 331 French Literature in Translation
ENG/RUS 332 Russian Literature in Translation
ENG/ITA 336 Modern Italian Literature in Translation
ENG 341 Modern Hebrew Literature in Translation
ENG 345 World Literature after 1945
ENG 350 Contemporary Drama I
ENG 351 Contemporary Drama II
ENG 354 Ethnic-American Minority Literature
ENG 355 The Short Story
ENG 356 Futuristic Fiction
ENG 357 Comedy
ENG 359 Television Drama
ENG 377 Introduction to Semantics

Foreign Language Department

- FLA 337 Greek & Roman Mythology
FLA 338 Introduction to Classical Greek Drama
FRE 201 Intermediate French
FRE 202 Intermediate French
FRE 301 French Conversation & Composition
FRE 302 French Conversation & Composition
FRE 306 The Civilization of France
FRE/ENG 331 French Literature in Translation
GER 201 Intermediate German
GER 202 Intermediate German
GER 301 German Conversation and Composition
GER 302 German Conversation and Composition
GRE 201 German Civilization
GRE 202 Intermediate New Testament (Koine) Greek
HEB 201 Intermediate Hebrew
HEB 202 Intermediate Hebrew
HLI 101 Introduction to Biblical Literature
HLI 102 Introduction to Hebrew Literature
ITA 201 Intermediate Italian
ITA 202 Intermediate Italian
ITA 301 Italian Conversation & Composition
ITA 302 Italian Conversation & Composition

- ITA 306 Contemporary Italian Civilization
ITA/ENG 336 Modern Italian Literature in Translation
LAT 201 Intermediate Latin
LAT 202 Intermediate Latin
POL 201 Intermediate Polish
POL 202 Intermediate Polish
POL/ENG 339 Modern Polish Literature in Translation
RUS 201 Intermediate Russian
RUS 202 Intermediate Russian
RUS/ENG 332 Russian Literature in Translation
SPA 201 Intermediate Spanish
SPA 202 Intermediate Spanish
SPA 204 Spanish for Native Speakers
SPA 205 Spanish for Native Speakers
SPA 301 Spanish Conversation & Composition
SPA 302 Spanish Conversation & Composition
SPA 306 The Civilization of Spain
SPA 309 The Civilization of Latin America
SWA 201 Intermediate Swahili
SWA 202 Intermediate Swahili

Philosophy and Religious Studies Department

- PHI 105 Introduction to Christian Thought
PHI 121 Introduction to Jewish Thought
PHI 205 Introduction to the Old Testament
PHI 206 Introduction to the New Testament
PHI 208 Women and Religion
PHI 210 Existentialism
PHI 300 Problems of Philosophy
PHI 301 Political Philosophy
PHI 304 Philosophy of Law
PHI 305 Philosophy of Language
PHI 306 Writings of John
PHI 308 Philosophy of Love & Sex
PHI 309 Knowledge and Truth
PHI 314 Contemporary Ethical Theory
PHI 315 Early Modern Philosophy
PHI 318 History of Philosophy II
PHI 319 Medieval Philosophy
PHI 324 Zen Buddhism
PHI 325 Philosophy of Future Man
PHI/PAR 327 Aesthetics and the Arts
PHI 328 Business & Ethics
PHI 329 Contemporary Christian Thought
PHI 331 Religion and Media
PHI 332 Mysticism
PHI 350 Holocaust

Math/Science Electives

Biology Department

- BIO 210 Bacteriology
BIO 214 Cell Biology
BIO 303 Genetics
BIO 306 Entomology
BIO 315 Ecology
BIO 316 Microbiology
BIO 324 Human Reproduction
BIO 325 Ichthyology

Chemistry Department

- CHE 201 Organic Chemistry I
CHE 201L Organic Chemistry Lab I
CHE 202 Organic Chemistry II
CHE 202L Organic Chemistry Lab II
CHE 301 Analytical Chemistry I
CHE 310 Literature of Chemistry
CHE 312 Chemistry and Criminalistics
CHE 315 Environmental Chemistry
CHE 321 Principles of Organic Chemistry
CHE 322 Biological Chemistry

Earth Sciences and Science Education Department

- GES 302 Paleontology
GES 304 Common Rocks/Minerals
GES 307 Geomorphology
GES 331 Solar System Astronomy
GES 332 Stellar and Galactic Astronomy
GES 335 Observational Astronomy
GES 337 Astronomy and the Astronomers to 1650
GES/SCI 338 Astronomy and the Astronomers, 1650-Present
GES 339 Astronomy and Cosmology
SCI 311 Physical Science for Elementary School Teachers
SCI 313 Earth Science for Elementary School Teachers
SCI 323 Science as Inquiry
SCI 335 Outdoor Science Education
SCI 340 Scientific Studies in Environmental Pollution

Mathematics Department

- MAT 121 Math for Elementary Teachers I
MAT 122 Math for Elementary Teachers II
MAT 124 Pre-Calculus Mathematics
MAT 183 Problem Solving in Math
MAT 202 Introduction to Linear Algebra
MAT 263 Calculus III
MAT 301 Introduction to Modern Algebra I
MAT 315 Differential Equations
MAT 316 Intermediate Differential Equations
MAT 322 Modern Geometry
MAT 351 Elementary Theory of Numbers
MAT 381 Probability

Physics Department

PHY 107	Applied Physics
PHY 200	Creators of the Atomic Age
PHY 213	University Physics III

Social Science Electives**Anthropology Department**

ANT 202	World Prehistory
ANT 203	Human Evolution and Variation
ANT 307	Urban Anthropology
ANT 308	Archaeological Method
ANT 312	Archaeology of the North American Indians
ANT 320	Human Growth in Anthropological Perspective
ANT 321	Primate Behavior
ANT 326	The Human Fossil Record
ANT 360	Folklore of Women
ANT 362	Urban Folklore
ANT 370	Anthropology of Contemporary Issues
ANT 377	Ancient Civilization
ANT 380	Language and Culture
ANT 382	Culture and Personality

Economics and Finance Department

ECO 304	Money and Banking
ECO 305	Statistics for Economics
ECO 307	Intermediate Microeconomics
ECO 308	Intermediate Macroeconomics
ECO 314	Corporation Finance
ECO 317	Economic Policy
ECO 320	Managerial Economics
ECO 350	Public Finance
ECO 355	The Economics of Energy and Environment

Geography and Planning Department

GEG 202	Geography of U.S. and Canada
GEG 304	Map Interpretation
GEG 305	Principles of Economic Geography
GEG 320	Historical Geography of U.S.
GEG 322	Geography of World Hunger
GEG 350	Comparative U.S.-Canadian Metro Systems
GEG 357	Geography of Buffalo and the Niagara Frontier
GEG 370	Introduction to Water Resource Planning
PLN 315	Introduction to Community Planning

Health, Physical Education and Recreation Department

HPR 316	Developmental Motor Activities
HPR 319/	Sociology of Sport
SOC 324	
HPR 345	Physical Fitness & Aging
HSC 320	Psychoactive Drugs & Health

History and Social Studies Education Department

HIS 121	Introduction to Jewish History
HIS 155	World War II
HIS 201	Age of Discovery
HIS 206	History of Poland
HIS 208	History of England
HIS 212	History of Jews in Europe
HIS 215	History of Christian Thought
HIS 220	Classical Greece & Rome
HIS 222	American Revolution
HIS 260	The Turbulent Sixties
HIS 301	Counter Culture/Utopias
HIS 302	History of Women in America
HIS 304	Europe and Napoleon to First World War
HIS 305	Sex and Gender in History
HIS 306	History of Africa to 1919
HIS 308	History of Canada
HIS 310	History of the Far East
HIS 317	History of Russia to 1917
HIS 318	History of the Soviet Union
HIS 319	Colonial History of American People

HIS 320	Modern History of Japan and Korea
HIS 321	History of Medieval Europe
HIS 325	U.S. Business History
HIS 330	U.S. Environmental History
HIS 332	Technology and U.S. History
HIS 334	Ireland Since 1800
HIS 341	Afro-Americans and Civil Rights
HIS 342	English Legal History
HIS 343	Introduction to American Legal History
HIS 344	History of American Capitalism
HIS 345	History of U.S. Since 1941
HIS 350	Left and Right in European History
HIS 351	Modern France
HIS 360	Germany and Hitler
HIS 365	American Labor History
HIS 370	American Diplomatic History to 1898
HIS 371	American Diplomatic History Since 1898

Political Science Department

PSC 210	The American Presidency
PSC 220	Development of American Constitutional Law
PSC 306	Politics of Energy
PSC 307	Political Alienation
PSC 309	Politics of International Business
PSC 310	American Politics and Political Parties
PSC 311	Pressure Politics
PSC 312	Legislative Process
PSC 315	State and Local Government Politics
PSC 316	Urban Ethnic Politics
PSC 320	U.S. Constitution and Civil Liberties

PSC 325	Politics of Welfare
PSC 326	Politics and Media
PSC 330	American Foreign Policy
PSC 335	International Relations of Middle East
PSC 350	Introduction to Legal Thought
PSC 351	History of Political Theory I
PSC 352	History of Political Theory II
PSC 355	American Political Thought
PSC 360	Public Administration
PSC 364	American Public Policy

Psychology Department

PSY 306	Statistics in Psychological Research
PSY 310	Behavior Modification I
PSY 321	Comparative Animal Psychology
PSY 327	Adult Development and Aging I
PSY 365	Industrial Psychology
PSY 370	Environmental Psychology
PSY 382	Psychology of the Consumer
PSY 383	Psychology of Human Sexual Behavior
PSY 385	Psychology of Personal Adjustment
PSY 386	Psychology of Stress, Coping, Health
PSY 387	Psychology of Women
PSY 388	Psychology of Death and Dying

Sociology Department

SOC 321	Black Family in America
SOC 322	Sociology of Childhood & Youth
SOC 323	Sociology of Education
SOC 324/	Sociology of Sport
HPR 319	
SOC 331	Sociology of Group Dynamics
SOC 333	Social Movements
SOC 340	Sociology of the City
SOC 350	Power, Class and Inequality
SOC 351	Sociology of Race and Ethnicity
SOC 352	The Aged in Urban Society
SOC 361	Industrial Sociology
SOC 362	Sociology of Organizations
SOC 370	Sociology of Deviant Behavior
SOC 381	Sociology of Violence
SOC 382	Sociology of Law
SOC 383	Sociology of Punishment and Corrections
SOC 390	Juvenile Delinquency
SOC 391	Sociology of Addiction
SOC 392	Sociology of Sexual Behavior
SOC 393	Sociology of Mental Illness

Other Electives

CRS 205	Introduction to Creative Studies
CRS 302	Creative Approaches to Problem Solving
CRS 303	Creative Leadership Through Effective Facilitation
CRS 304	Advanced Creative Studies

Requirements in Global Issues and Diversity

One of the major goals of our requirements is to help prepare students to live effectively, thoughtfully, and humanely in a world composed of individuals representing different populations and cultural backgrounds. In particular, Buffalo State College encourages the infusion at all levels of the curriculum of materials that address a global interdependence and American cultural pluralism and diversity. In addition, new requirements to address these goals are being implemented in both of the following areas: Global Issues and Diversity (3 credits each). All students who enter this college in the fall 1991 semester or later must satisfy this new graduation requirement. A listing of courses that are applicable will be included each semester in the Master Schedule. Further, all such courses will be clearly identified in the Master Schedule course listing and on student grade and intent labels with the designations (G) or (D), indicating global or diversity respectively.

Global Issues

The major goal of the requirement in Global Issues at Buffalo State is to stimulate in our students an awareness of global interdependence and the intersection of major American interests with international developments. Given the Eurocentric emphasis in much of American education, a further goal of this requirement is to encourage students to study the cultures of non-Western and Latin American peoples.

Diversity in the United States

The goal of this requirement is to stimulate an awareness of the value and richness of pluralism and diversity in contemporary American society as well as the dangers inherent in bigotry, prejudice, and stereotyping. Ideally, courses that satisfy this requirement should help students develop an increased sensitivity to groups and individuals from traditionally underrepresented populations. Courses should also provide an academic experience in which students can examine their personal preju-

dices and values and understand how they affect relationships with others. The information provided in these courses should help students appreciate the history, culture, and value of the contributions made by individuals and groups of people from these diverse populations.

English Composition Requirement

The college requires all matriculated students to demonstrate college-level skills in English composition. The requirement may be satisfied as follows:

Freshmen

Entering freshmen must take the English composition competence examination. The examination will be given during the orientation periods and during each semester. Students earning an Advanced Placement score of three or higher in expository writing are excused from the requirement.

On the basis of the competence examination, students will be placed at one of four levels:

1. ENG 099 required;
2. ENG 101 required;
3. ENG 102 required;

4. English Composition Requirement Satisfied. The department will notify the registrar that the student has met this all-college requirement.

Each student will take the competence examination again after completing each course. If the examination shows that the student has an improved performance level, the department will advance the student in the sequence. When the student has achieved a satisfactory level of competence, the department will notify the registrar.

Every entering freshman who does not pass the competence examination by the end of the first semester must register for (an) appropriate course(s) until the requirement has been satisfied. The Basic Composition Requirement must be completed by the end of the sophomore year.



Transfer Students

Transfer students will complete the English Composition Requirement in one of the following ways:

1. If two composition courses equivalent to ENG 101 and ENG 102 are transferred, the English Composition Requirement is satisfied;
2. If one composition course equivalent to ENG 101 is transferred, the student must complete ENG 102, College Writing II;
3. If no composition courses are transferred, the student must take the competence examination and follow the requirement stated for freshmen.

Transfer students must complete the English Composition Requirement within their first 45 semester hours at this college.

Credit for Courses

Registration for courses in this sequence may only occur following placement by the English Department on the basis of the competence examination.

Students will successfully complete a composition course by completing all the requirements of the course and passing the competence examination at the appropriate level. Retaking the competence examination at the end of each course is required.

ENG 101 and ENG 102 or equivalents may be used as general education elective or free elective credit. ENG 099 is a non-credit course and may not be used to meet any degree requirements. ENG 099, 101, and 102 will be graded on an "S" or "U" basis. Course challenges will not be permitted. Students who are considering taking a course at another institution must seek prior permission from the director of academic standards.

**Writing Across the Curriculum**

In order to reinforce the writing skills acquired in basic composition courses and to encourage students to employ writing skills in a wide variety of areas, the college has instituted a requirement in writing across the curriculum. All students who enter this college in the fall 1987 semester or later are required to complete successfully two courses identified as "writing intensive." Such courses are indicated in the master schedule by the designation "W" following the course number, e.g., "SOC 101W" identifies a particular section as a writing intensive course. Writing intensive courses include a combination of writing assignments selected at the discretion of the instructor, including, but not limited to, essays, short papers, term papers, and essay exams. The minimum amount of writing in each writing intensive course is equivalent to 15 typed (double-spaced) pages. The quality of writing will be taken into consideration in the determination of the grade. Successful completion of the English Composition Requirement is a prerequisite for all writing intensive courses. Writing courses from other institutions cannot be used to satisfy the writing intensive requirement.

Basic Mathematics Requirement

The college requires all matriculated students to demonstrate college-level skills in basic mathematics. The requirement may be satisfied as follows:

Freshmen

Entering freshmen must take the mathematics competence examination. The examination will be given during the orientation periods and at the end of each semester. On the basis of the competence examination, the Mathematics Department will place each student at one of three levels:

1. MAT 099 required;
2. MAT 100 required;
3. Basic Mathematics Requirement Satisfied. The department will notify the registrar that the student has met this all-college requirement.

Each student will take the competence examination again after completing one of the courses. If the examination shows that the student has an improved performance level, the department will advance the student in the sequence. When the student has achieved a satisfactory level of competence, the department will notify the registrar.

Every entering freshman who does not pass the competence examination by the end of the first semester must register for (an) appropriate course(s) until the requirement has been satisfied. Mathematics courses other than MAT 099 and MAT 100 will not fulfill the Basic Mathematics Requirement and cannot be taken prior to completing the Basic Mathematics Requirement. The Basic Mathematics Requirement must be completed no later than the end of the sophomore year.

Transfer Students

Transfer students will complete the Basic Mathematics Requirement in one of the following ways:

1. If a mathematics course equivalent to MAT 100 or above is transferred, the Basic Mathematics Requirement is satisfied;
2. If no mathematics courses are transferred, the student must take the competence examination and follow the placement procedures and policies outlined above for freshmen. Transfer students must complete the requirement within the first 45 semester hours at the college.

Credit for Courses

Registration for MAT 099 and MAT 100 may only occur following placement by the Mathematics Department on the basis of the competence examination.

Students will successfully complete each course by completing all of the requirements of the course and passing the competence examination at the appropriate level. Retaking the competence examination at the end of each course is required.

MAT 100 or equivalent may be used as credit to meet degree requirements but may not be applied to the 60-hour general education requirement. MAT 099 is a non-credit course and may not be applied to any degree requirements. The courses (MAT 099 and MAT 100) will be graded on an "S" or "U" basis. Course challenges of MAT 099 and MAT 100 will not be permitted.

Department (Major) Requirement

A major consists of no fewer than 24 semester hours and no more than 42 semester hours in a particular field of study. The number of hours needed for a major may vary according to the specific field. Each department sets its own requirements. To receive a degree in a particular major, students must complete at least six semester hours of work in their major at this college. Courses and sequences of a major are determined by individual departments with the approval of the College Senate, Academic Affairs Office, and the president.

Foreign Language Requirement

All students in B.A. degree programs must demonstrate proficiency in a single foreign language equivalent to the successful completion of the first two years of college-level study (101-202 level). Courses taken to satisfy the language requirement may be applied to the following sections of the B.A. degree audit sheet: Humanities (maximum of two courses), general education electives, all-college electives. Students who have successfully completed foreign language study on the high school level may register for the appropriate course or take a placement examination administered by the Foreign Language Department. Normally, one year of high school study is equivalent to one semester of college-level work. Successful completion of one language through the fourth year in high school satisfies the requirement. Transfer students may apply language courses successfully completed at other institutions in fulfillment of the requirement. Foreign language courses currently numbered 201-202 shall carry upper-level credit, i.e., they may be applied toward fulfillment of the 45-credit upper-division requirement. For further information regarding placement or any aspect of the requirement, contact the Foreign Language Department, Bishop Hall 126, 878-5414.

Language Policy for International Students

International students registering at Buffalo State are:

1. Required to take the English Department Placement Exam;
2. Required to register for the appropriate English course(s);
3. Required to take the Foreign Language Department English Oral Language exam;
4. Advised to take the appropriate course in English as a second language after meeting with the chairperson of the Foreign Language Department to clarify their situation concerning the Foreign Language Requirement; and
5. Required to complete the English requirement prior to declaring a major.

Information on these requirements is available through the International Student Affairs Office.

Physical Education Requirement

Two one-hour physical education courses must be taken by all students. They must be selected from the HPR 100 series courses. The three-hour theory courses in physical education, health or recreation cannot be used to meet this requirement. A limit of six hours in physical education may be credited to the 123-hour total required for graduation.

Upper-Division Course Requirement

All students must complete 45 hours of upper-division course work to be eligible for graduation. Specific information can be obtained through the appropriate major department.

Electives

The number of unrestricted elective courses varies according to the individual program. These courses are needed to make up the 123 credit hours required for graduation. Check the individual program requirements to determine the number of electives allowed. These courses are taken in addition to the general education, departmental, and foreign language credits discussed previously.

General Requirements for Bachelor of Technology Degree**General Education Requirements**

All students must take 24 hours of general education courses. These include: six hours in the arts/humanities, six hours in written/oral communications, and 12 hours in social sciences.

Mathematics and Physical Sciences Requirements

All students must take 24 hours in the area of mathematics and physical sciences. Courses must include nine hours in mathematics, six in physics, six in chemistry and three in computer science.

Technical Sciences Requirement

All students must take 18 hours of required technical courses.

Physical Education Requirement

Two one-hour physical education courses must be taken by all students. They must be selected from the HPR 100 series courses. The three-hour theory courses in physical education, health, or recreation cannot be used to meet this requirement. A limit of six hours may be credited to the 123-hour total needed for graduation.

General Requirements for Bachelor of Fine Arts Degree

All B.F.A. candidates must complete 36 hours of general education courses with nine hours each from the arts, humanities, the social sciences, and math-science. In addition, students may choose 13 hours of free electives. The physical education requirement of two hours is the same for all degree candidates as is the 123 credit hours required for graduation.

Academic Minors

An academic minor is an optional study program available to undergraduate students. A minor may be used to complement the major course of study, broaden and enhance career opportunities, gain expertise in an area of interdisciplinary studies, or provide in-depth study in a subject of special interest. The minors available at Buffalo State are specially conceived sequences of courses designed to fulfill these general goals.

Each minor program consists of 18-21 semester hours of course work. A 2.00 cumulative average is required for admission to a minor program and at least three of the courses in each minor must be completed at the college. Students may not elect a minor from the same discipline as their major program. Students who complete the minor with a 2.00 cumulative average will have the minor recorded on their official transcript.

Students interested in selecting one of the minor programs included in the following list should contact the coordinating department as soon as possible and complete a Declaration of Minor Form. A complete listing of all minors and requirements is on file in each departmental and dean's office as well as in the Academic Advisement Office, Twin Rise South. Advisement on individual minors is provided only by the coordinating department.

Minor	Department or Unit Coordinating Advisement
African and African-American Studies	Political Science
Aging	Psychology
Anthropology	Anthropology
Art History	Fine Arts
Art Therapy	Art Education
Astronomy	Earth Sciences and Science Education
Biology	Biology
Canadian Studies	History and Social Studies Education
Chemistry	Chemistry
Coaching	Health, Physical Education and Recreation
Computer Information Systems	Computer Information Systems
Creative Studies	Center for Studies in Creativity
Criminal Justice	Criminal Justice
Dance	Performing Arts
Design	Design
Deviance	Sociology
Early Childhood Education	Elementary Education and Reading
English	English
Environmental Science	Earth Sciences and Science Education
Exceptional Education	Exceptional Education
Exceptionality	Exceptional Education
French	Foreign Language
General/Regional Geography	Geography and Planning
Geology	Earth Sciences and Science Education
German	Foreign Language
History	History and Social Studies Education
Italian	Foreign Language
Management Economics	Economics and Finance
Medieval Studies	History and Social Studies Education
Music	Performing Arts
Physics	Physics
Polish, Russian & Eastern Studies	History and Social Studies Education
Political Science	Political Science
Psychology	Psychology
Public Administration	Political Science
Religious Studies	Philosophy and Religious Studies
Safety Studies	Technology
Social Welfare	Social Work
Sociology	Sociology
Spanish	Foreign Language
Speech	Communication
Theater	Performing Arts
Urban Economic Geography	Geography and Planning
Urban Regional Analysis and Planning	Geography and Planning
Urban Studies	Political Science
Women's Studies	Women's Studies Unit

ANTHROPOLOGY (0733)

Offered by the Anthropology Department
Bachelor of Arts degree granted
(HEGIS 2202)

Dr. Jill Nash, Chairperson
Classroom Building B-107/878-6110

The study of anthropology provides a broad-based approach to the understanding of human culture and human biology. The anthropological perspective is worldwide, holistic, and involves considerable time-depth. The major exposes students to the primary subdivisions within the field: physical anthropology, ethnology, archeology, linguistics, and folklore.

A departmental honors program is also available. Students should contact the department for additional information.

General Education Requirements60

Total required credit hours in Anthropology33

A. REQUIRED COURSES (15 cr.)

ANT 100	Human Origins
ANT 101	Introduction to Anthropology
ANT 315	Research Methods
ANT 405	History of Anthropological Theory
ANT 499	Independent Study

B. ELECTIVES: (12 cr.)

One course from each of the following areas (selected by advisement):

Archeology (3 cr.)

ANT 202	World Prehistory
ANT 308	Archeological Method
ANT 312	Archeology of the North American Indian
ANT 377	Ancient Civilization
ANT 415	Seminar in Archeology

Physical Anthropology (3 cr.)

ANT 203	Human Variation
ANT 320	Human Growth in Anthropological Perspective
ANT 321	Primate Behavior
ANT 324	The Human Skeleton
ANT 325	Skeletal Investigations
ANT 326	The Human Fossil Record

Regional Courses (3 cr.)

ANT 301	Indians of Eastern North America
ANT 303	Anthropology of Europe
ANT 305	Peoples of Africa
ANT 330	The Anthropology of Oceania

Topical Courses (3 cr.)

ANT 144	Introduction to Folklore and Folklife
ANT 307	Urban Anthropology
ANT 327	Medical Anthropology
ANT 340	Women in Anthropological Perspective
ANT 360	Folklore of Women
ANT 362	Urban Folklore
ANT 365	Practicing Anthropology
ANT 370	The Anthropology of Contemporary Issues
ANT 380	Language and Culture
ANT 381	Religion, Myth and Magic
ANT 382	Culture and Personality
ANT 411	African Systems of Kinship and Marriage
ANT 412	Seminar in Anthropology

NOTE: ANT 389 Topics in Anthropology may be used to fill one or more of the elective requirements according to content in any given semester. Please contact your adviser to determine the appropriate designation.

C. TWO OTHER COURSES, from any area, under advisement (6 cr.)

Total required credit hours outside of major12

The B.A. degree requirement includes a foreign language component of four three-credit courses. Students who have successfully completed foreign language courses at the high school level may be exempt. In general, one full year of foreign languages at the high school level is equivalent to a one-semester course at the college level.

Electives16

Physical Education2

TOTAL REQUIREMENTS123

ART (0105)

Offered by the Fine Arts Department
Bachelor of Arts degree granted
(HEGIS 1002)

Frank C. Eckmair, Chairperson
Upton Hall 502/878-6014

The art program provides the student the opportunity to study a wide variety of visual arts media. Together with basic instruction in drawing, design, and art history, students, under advisement, choose 21 hours of electives in fine arts and/or design.

The Fine Arts Department reserves the right to retain art work for official purposes such as exhibits, catalogs, or teaching aids.

General Education Requirements	60
Total required credit hours in Art	39

A. REQUIRED COURSES (18 cr.)

FAR 101	Drawing I
FAR 102	Drawing II
DES 101	Introductory Design 2D I
DES 103	Introductory Design 3D I
FAR 250	Art History I
FAR 251	Art History II

B. ELECTIVES IN FINE ARTS AND/OR DESIGN (21 cr.)

Foreign Language Requirement	0-12
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Electives	10-22
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Physical Education	2
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TOTAL REQUIREMENTS	123
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ART EDUCATION (0100)

Offered by the Art Education Department
Bachelor of Science degree granted
(HEGIS 0831) NCATE Accredited

Dr. Michael E. Parks, Chairperson
Bishop Hall 129/878-4106

The department defines art educators as advocates for the visual arts to the general public. The primary means to achieve this is through teaching art to children in school, but art advocacy can take place in government, in business and industry, in social and clinical agencies, or wherever there is a vocational need for people skilled in art and professionally trained to deal with people.

Student Teaching

Eligibility for student teaching is determined by the Art Education Department; placement is arranged by the AED Coordinator of Student Teaching.

Student teaching experiences are provided in cooperating elementary and secondary schools. Students may be required to reside in some communities during student teaching assignments; transportation to/from the student teaching assignment is the student's responsibility. Students enrolled in the student teach-

(Continued)

General Education Requirements	60
Total required credit hours in Art Education	25

A. REQUIRED COURSES (12 cr.)

AED 300	Foundations in Art Education
AED 301	Theoretical Constructs in Art Education
AED 302	Functions and Practices in Art Education
AED 400	Student Teaching Seminar

B. ELECTIVES BY ADVISEMENT

AED 200	Fundamentals of Art Inquiry
AED 310	Art Materials Exploration for Group Activities
AED 315	Arts in Living
ATS 320	Introduction to Art Therapy
ATS 325	Art and Special Needs
ATS 329	Art and Older Adults
AED 488	Internship
AED 495	Project

C. REQUIRED FIELD EXPERIENCE (12 cr.)

AED 303	Elementary Student Teaching in Art
AED 304	Secondary Student Teaching in Art

Total required credit hours in Fine Arts and Design	36
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Art Education (Continued)

ing semester devote full time to their practicum assignment.

Prior written approval must be obtained from the chairperson of the Art Education Department for a student to enroll for any other college credit work during a student teaching assignment except for AED 400. All students anticipating a student teaching assignment must show proof of having a Mantoux test for TB within three months of the assignment. Results of the test must be filed at the Health Center.

Transfer Students

Students transferring to art education majors as juniors, and who wish to complete their programs in four semesters, should plan their schedules of course work in art education with great care and with an academic adviser. It is important to note that AED 300, AED 301, and AED 302 are intended as a sequence and may not be taken concurrently except for students in Certification Only programs or for students in an Articulation Agreement program.

All-College Requirements

Art education majors are responsible for fulfilling the requirements for the National Teachers Examination and drug education contained in the Teacher Education section of this catalog. Guidelines for fulfilling these requirements are available from the Art Education office.

Certification Only Program: This program is designed to meet the needs of students who have already earned a B.A./B.F.A. degree in a studio area and who are interested in earning Art Teacher certification. Information about this program is available in the Art Education Department office.

Articulation Agreement Program: The Art Education Department participates in Articulation Agreement programs with other New York State state higher education institutions. Additional information is available by contacting the Art Education Department.

A. REQUIRED COURSES IN FINE ARTS (12 cr.)

FAR 101	Drawing I
FAR 102	Drawing II
FAR 250	Art History I
FAR 251	Art History II

B. REQUIRED COURSES IN DESIGN (12 cr.)

DES 101	Introductory Design 2D I
DES 103	Introductory Design 3D I
Two electives selected by advisement	

C. STUDIO ELECTIVES SELECTED BY ADVISEMENT (12 cr.)

Physical Education	2
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TOTAL REQUIREMENTS	123
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ART HISTORY (0130)

Offered by the Fine Arts Department
Bachelor of Arts degree granted
(HEGIS 1003)

Frank C. Eckmair, Chairperson
Upton Hall 502/878-6014

The program in art history is designed to introduce students to the nature and history of artistic development in the western world. This program is conceived as one of the disciplines of the liberal arts and is envisioned as a preparation for graduate study in art history, as well as for careers in art librarianship, museum work, slide curatorship, historic preservation, and art conservation.

At the time this catalog went to press, the art history program was undergoing revision. Please contact the department for current requirements.

General Education Requirements 60

Total required credit hours in Art History 30

A. REQUIRED COURSES (15 cr.)

FAR 250	Art History I
FAR 251	Art History II
FAR 454	Greek Art
FAR 457	Gothic Art
FAR 459	High Renaissance and Mannerism

B. ELECTIVES IN ART HISTORY (15 cr.)

FAR 455	Etruscan and Roman Art
FAR 456	Early Medieval Art
FAR 458	Early Renaissance Art in Italy
FAR 460	Northern Renaissance Art
FAR 461	Italian Baroque Art
FAR 462	Nineteenth-Century Art
FAR 463	Twentieth-Century Art
FAR 465	American Art I
FAR 466	American Art II
FAR 467	Baroque of Northern Europe
FAR 468	Romanesque Art
FAR 471	Senior Seminar in Art History

Foreign Language Requirement 0-12

Electives 19-31

Physical Education 2

TOTAL REQUIREMENTS 123

THE ARTS (0110)

Offered by the Performing Arts Department
Bachelor of Arts degree granted
(HEGIS 1001)

Myron H. Nadel, Chairperson
Rockwell Hall 203/878-6401

The arts program is an individually designed series of major courses that emphasize the performing arts and prepare students for graduate study. Students with interests, career goals, and talents that embrace an inter-arts approach work closely with a faculty mentor. Fields such as dance, choreography, pop music and culture, arts criticism, arts management, arts therapy, technical theater, and music theater demand a multidiscipline approach. Presentations of musicals, plays,

(Continued)

General Education Requirements 60

Total required credit hours in the Arts 36

MAJOR COURSES SELECTED BY ADVISEMENT

A minimum of three hours in two fields and nine hours in three remaining fields chosen from dance, design, fine arts, music, and theater.

Foreign Language Requirement 0-12

All College Electives Selected by Advisement 13-25

Physical Education 2

TOTAL REQUIREMENTS 123

The Arts (Continued)

dance concerts, and choral ensembles support the music theater emphasis.

1. The Honors Option is highly recommended and encouraged for interdisciplinary studies. Students should contact the department for information.

2. Nineteen- to 21-credit minor programs, available in dance, music, and theater, provide enhancement to other major programs.

3. Paid undergraduate assistantships in technical theater are offered by the Performing Arts Department.

BIOLOGY (0725)

Offered by the Biology Department
Bachelor of Arts degree granted
(HEGIS 0401)

Dr. Bonnie M. Sampsell, Chairperson
Science Building 313/878-5203

The program in the biological sciences prepares students for one of several options, including various employment opportunities at the bachelor's degree level, entrance to graduate school, and entrance to professional schools that specialize in medicine, dentistry, podiatry, and other areas of the health sciences.

A departmental honors program is also available. Students should contact the department for additional information.

General Education Requirements 60

Total required credit hours in Biology 36

A. REQUIRED COURSES (27 cr.)

BIO 115	General Botany
BIO 116	General Zoology
BIO 214	Introduction to Cell Biology
BIO 303	Genetics
BIO 314	Advanced Cell Biology or BIO 305 Molecular Biology
BIO 315	Ecology
BIO 405	Organic Evolution

B. ELECTIVES IN BIOLOGY (9 cr.)

(Any upper-division course in biology for which prerequisites are satisfied.)

C. STRONGLY ADVISED COURSES

CHE 111-112 and CHE 201-202
MAT 126-127 or MAT 161-162
PHY 111-112

Electives 25

Foreign Language Requirement (General Education) 0-12

Physical Education 2

TOTAL REQUIREMENTS 123

BIOLOGY 7-12 (Secondary Education) (0631)

Offered by the Biology Department
Bachelor of Science (Education) degree granted
(HEGIS 0401) NCATE Accredited

Dr. Bonnie M. Sampsell, Chairperson
Science Building 313/878-5203

The secondary education program in biology is specifically designed to prepare students to teach biology and general science at the secondary level (grades 7-12). Graduates of the program receive a B.S. in secondary education degree and provisional certification to teach in New York state public schools.

General Education Requirements 60

Total required credit hours in Biology 30

A. REQUIRED COURSES (27 cr.)

BIO 115	General Botany
BIO 116	General Zoology
BIO 214	Introduction to Cell Biology
BIO 303	Genetics
BIO 311	Anat/Physiol I
BIO 315	Ecology
BIO 405	Organic Evolution

B. MINIMUM ELECTIVES IN BIOLOGY (3 cr.)

Any upper division course for which prerequisites are satisfied.

Total required credit hours in Professional Education 18

SED 200	Field Experience: Secondary Education and Related Courses
EDF 303	Education Psychology
EDF 403	Historical and Philosophical Forces Influencing Secondary Education
EDU 416	Teaching Reading in Secondary Schools
SED 308	Methods and Materials in Teaching Secondary Science
	Professional Education Elective

Total required credit hours in Student Teaching 12

SED 408	Student Teaching of Science in the Secondary School
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Total required credit hours in Other Fields* 34

*Courses taken to meet the following requirements may be placed into the Core or GEE sections.

- One year of foreign language
- CHE 111 and CHE 112
- PHY 111 and PHY 112
- One year of earth science
- One semester of calculus and one semester of statistics

Electives 1

Physical Education 2

TOTAL REQUIREMENTS 123

BROADCASTING (0707)

Offered by the Communication Department
Bachelor of Arts degree granted
(HEGIS 0605)

Dr. W. Richard Whitaker, Chairperson
Bishop Hall 234/878-6008

The broadcasting program is a mix of practical experience and relevant theory. It is tied closely to the professional community and emphasizes realistic and in-the-field broadcasting experience. Preparation for careers in television and radio broadcasting and allied fields is provided.

A department honors program is also available. Students should contact the department for additional information.

General Education Requirements 60

Total required credit hours in Broadcasting 30

A. REQUIRED COURSES (27 cr.)

COM 100	Introduction to Mass Communication
	or
COM 102	Introduction to Broadcasting
COM 201	Broadcast Copywriting
COM 205	Experiences in Speech
	or
COM 206	Speech Training for the Communication Professions
COM 222	Principles of Broadcasting
To enter the broadcasting major, students must have satisfactorily completed ENG 101 and 102 or equivalent, and have earned a grade of "C" or better with a cumulative grade point average of 2.6 in the above four core courses.	
COM 302	Interviewing
	or
COM 317	Sales and Management
	or
COM 412	Programming
COM 328	Radio Studio Operations
COM 329	Beginning TV Studio Operations
COM 332	Contemporary Issues in Broadcasting
COM 430	Broadcast Law and Regulation

B. ELECTIVES SELECTED BY ADVISEMENT (3 cr.)

One course selected from among the professional courses in the Communication Department.

Foreign Language Requirement 0-12

Electives 19-31

Physical Education 2

TOTAL REQUIREMENTS 123

BUSINESS and DISTRIBUTIVE EDUCATION (0406)

Offered by the Business Department
Bachelor of Science degree granted
(HEGIS 0838) NCATE Accredited

Dr. Benjamin Sackmary, Chairperson
Chase Hall 301/878-4239

The program in occupational business and distributive education leads to provisional certification to teach business and distributive education subjects in New York state.

In this teaching field, applicants for a teaching certificate must also have an equivalent one year of occupation-related work experience, which they may obtain through the field experience courses as part of the business electives.*

General Education Requirements 60

Total required credit hours in Business 27

BUS 117	Introduction to Retailing
BUS 312	Principles of Accounting I
BUS 325	Human Resources Management
BUS 326	Introduction to Merchandising
BUS 327	Advertising Concepts and Practices
BUS 334	Business Law I
BUS 336	Visual Merchandising
BUS 360	Principles of Management
BUS 403	Marketing II-Buyer Behavior

Business and Distributive Education (Continued)

Admission Requirements: Transfer students holding the A.A.S. degree in business are accepted into the major on a competitive basis. No freshmen are accepted directly into the major. Students seeking admittance into the business and distributive education major must provide evidence of satisfactorily completing BUS 117 - Introduction to Retailing, and BUS 312 - Principles of Accounting I and have a cumulative GPA of at least 2.5. Satisfactory completion is defined as a "C" grade or better.

At the time of publication of this catalog, this program was under review for possible revision. Interested individuals are urged to contact the department office, Chase

Total required credit hours in Professional Education		28
OE 301	Principles of Occupational Education	3
DED 415	Student Teaching	12
EDF 303/SED 303	Educational Psychology	3
DED 411	Methods of Teaching B.E. & D.E.	3
OE 302	Curriculum and Evaluation in Occupational Education	3
OE 303	Methods and Materials in Occupational Education	1
EDF 403/SED 403	Historical & Philosophical Forces S.E.	3
Electives		6
Physical Education		2
TOTAL REQUIREMENTS		123

Hall 301, for the most current information.

*The occupational business and distributive education curriculum adheres to the guidelines published by the Council for Distributive Teacher Education.

BUSINESS EDUCATION (0404)

Offered by the Business Department
Bachelor of Science degree granted
(HEGIS 0838) NCATE Accredited

Dr. Benjamin Sackmary, Chairperson
Chase Hall 301/878-4239

The program in business education leads to provisional certification to teach business courses, including typing, shorthand, and word processing. Especially attractive to students from two-year colleges, the program provides for ease in transferring credits, including up to 19 hours of typing, shorthand, and office skills courses. This is an excellent program for students holding the A.A.S. degree in secretarial science who wish to obtain teaching certification in business education.*

Admission Requirements: Transfer students holding the A.A.S. degree in secretarial science are accepted into the major on a competitive basis. No freshmen are accepted directly into the major. Students seeking admittance into the business education major must provide evidence of satisfactorily completing BUS 116 - Introduction to Business, and BUS 312 - Principles of Accounting I and have a cumulative GPA of at least 2.5. Satisfactory completion is defined as a "C" grade or better.

General Education Requirements		60
Total required credit hours in Business Education		18
BUS 116	Introduction to Business	
BUS 312	Principles of Accounting I	
BUS 324	Business Communication	
BUS 334	Business Law I	
BUS 350	Current Practices in Business Technology	
BUS 360	Principles of Management	
Total required credit hours in Professional Education		28
OE 301	Principles of Occupational Education	3
DED 410	Methods of Teaching Business Skills Subjects	3
DED 415	Student Teaching	12
EDF 303/SED 303	Educational Psychology	3
OE 302	Curriculum and Evaluation in Occupational Education	3
OE 303	Methods and Materials in Occupational Education	1
EDF 403/SED 403	Historical & Philosophical Forces S.E.	3
Electives in Business		15
Physical Education		2
TOTAL REQUIREMENTS		123

At the time of publication of this catalog, this program was under review for possible revision. Interested individuals are urged to contact the department office, Chase Hall 301, for the most current information.

*The business education curriculum adheres to the guidelines published by the National Association for Business Teacher Education.

BUSINESS STUDIES (0430)

Offered by the Business Department
Bachelor of Science in Special Studies degree
granted
(HEGIS 4999)

Dr. Benjamin Sackmary, Chairperson
Chase Hall 301/878-4239

This degree program prepares students for management and leadership roles in business, public, and non-profit organizations. During the first two years of the program students acquire a foundation in accounting, economics, and computers, as well as in the arts, humanities, and social and natural sciences. The last two years are devoted to upper-division courses in the business areas of marketing, management, human resources, law, finance, and a capstone course in business strategy. The program permits students to take business electives in the areas of marketing and management.

Admission Requirements: Transfer students are accepted into the major on a competitive basis. No freshmen are accepted directly into the major. Students seeking admittance into the business major must have satisfactorily completed the English composition requirement, the basic mathematics requirement, BUS 312 - Principles of Accounting I, CIS 101 - Computer Fundamentals, and ECO 201 - Principles of Macroeconomics or ECO 202 - Principles of Microeconomics and have a cumulative average of at least 2.5. Satisfactory completion is defined as a "C" grade or better.

General Education Requirements		60
Total required credit hours in Business		42
A. REQUIRED FOUNDATION COURSES (18 cr.)		
ECO 201	Principles of Macroeconomics	
ECO 202	Principles of Microeconomics	
CIS 101	Computer Fundamentals	
ECO 305	Statistics for Economics or MAT 111 Elementary Probability and Statistics	
BUS 312	Principles of Accounting I	
BUS 313	Principles of Accounting II	
B. BUSINESS CORE REQUIREMENTS (18 cr.)		
BUS 320	Principles of Marketing	
BUS 325	Human Resources Management	
BUS 334	Business Law I	
BUS 360	Principles of Management	
BUS 430	Business Strategy	
ECO 314	Corporation Finance	
C. BUSINESS ELECTIVES (6 cr.)		
Electives		19
Physical Education		2
TOTAL REQUIREMENTS		123

CHEMISTRY (0726)

Offered by the Chemistry Department
Bachelor of Arts degree granted
(HEGIS 1905)

Dr. Edward M. Schulman, Chairperson
Science Building 313/878-5204

Chemistry is a program of professional study whose content has been approved by the American Chemical Society. Graduates of this program are fully prepared to assume entry-level positions as chemists with industrial or governmental laboratories or to begin more specialized programs of study at the graduate level.

Special Admission Requirements: None at the freshman level. Transfer students from two-year colleges should have earned credit for courses equivalent to CHE 111-112, 201-202, 201L-202L, 301, MAT 161, 162, 263, and PHY 111-112 in order to avoid possible delays in the completion of the degree program.

General Education Requirements60

Total required credit hours in Chemistry41

A. REQUIRED COURSES

CHE 111-112	Fundamentals of Chemistry I-II
CHE 201-202	Organic Chemistry I-II (lectures)
CHE 201L-202L	Organic Chemistry I-II (labs)
CHE 301	Analytical Chemistry
CHE 305-306	Physical Chemistry I-II (lectures)
CHE 305L-306L	Physical Chemistry I-II (labs)
CHE 310	Literature of Chemistry
CHE 400	Inorganic Chemistry
CHE 401	Biochemistry
CHE 403	Instrumental Analysis

In addition to the above courses, any student who wishes to meet American Chemical Society minimum certification requirements must complete at least three semester hours of credit in a **laboratory-based** CHE 495 (Project) **during the senior year or, alternatively, CHE 410 (Advanced Synthetic Methods).**

TRANSFER STUDENTS must complete a minimum of 10 credit hours in chemistry at Buffalo State. Chemistry courses taken elsewhere may be substituted for similar courses at Buffalo State *only* if they have the same or equivalent prerequisites. Chemistry courses not meeting this criterion may be transferred as elective credit.

B. REQUIRED CREDIT HOURS IN OTHER FIELDS*:

MAT 161-162, 263 Calculus I-II, III
PHY 111-112 University Physics I-II

*Note: These credits may be applied toward the 60 hour-general education requirement listed above.

Electives20

Foreign Language Requirement (General Education)0-12

Physical Education2

TOTAL REQUIREMENTS123

CHEMISTRY 7-12 (Secondary Education) (0632)

Offered by the Chemistry Department
Bachelor of Science (Education) degree granted
(HEGIS 1905) NCATE Accredited

Dr. Edward M. Schulman, Chairperson
Science Building 318/878-5204

The secondary education major in chemistry is a program of professional study whose graduates are prepared to assume positions as teachers of chemistry and/or general science in grades 7-12. Successful completion of this program leads to provisional certification by the New York State Department of Education. Permanent certification is earned by completing a master's degree in a related area and two years of teaching experience at the secondary level.

Special Admission Requirements: None at the freshman level. Transfer students from two-year colleges should have earned credit for courses equivalent to CHE 111-112, 201-202, 201L-202L, 301, MAT 161, 162, 263, and PHY 111-112 in order to avoid possible delays in the completion of the degree program.

General Education Requirements60

Total required credit hours in Chemistry31

A. REQUIRED COURSES:

CHE 111-112	Fundamentals of Chemistry I-II
CHE 201-202	Organic Chemistry I-II (lectures)
CHE 201L-202L	Organic Chemistry I-II (labs)
CHE 301	Analytical Chemistry
CHE 305-306	Physical Chemistry I-II (lectures)
CHE 305L-306L	Physical Chemistry I-II (labs)
	Chemistry Elective (3)

TRANSFER STUDENTS must complete a minimum of 10 credit hours in Chemistry at Buffalo State. Chemistry courses taken elsewhere may be substituted for similar courses at Buffalo State *only* if they have the same or equivalent prerequisites. Chemistry courses not meeting this criterion may be transferred as elective credit.

Total required credit hours in Professional Education30

A. REQUIRED COURSES — PROFESSIONAL EDUCATION

SED 200	Field Experience: Secondary Education and Related Courses
EDF 303	Educational Psychology
EDF 403	Historical and Philosophical Forces Influencing Secondary Education
EDU 416	Teaching Reading in Secondary Schools
SED 307	Techniques for Teaching Laboratory Activities in the Secondary Science Classroom
SED 308	Methods and Materials in Teaching Secondary School Science
SED 408	Student Teaching Science in the Secondary School

B. REQUIRED CREDIT HOURS IN OTHER FIELDS¹

BIO 115-116^{2,3} Botany-Zoology
MAT 161-162, 263^{2,3} Calculus I-II, III
PHY 111-112^{2,3} University Physics I-II
Two semesters of geoscience^{2,3}
Two semesters of a foreign language^{2,3}

¹These credits may be applied toward the 60-hour general education requirement listed above.

²Required for provisional certification.

³Required for graduation.

Electives0

Physical Education2

TOTAL REQUIREMENTS123

COMPUTER INFORMATION SYSTEMS (0825)

Offered by the Computer Information Systems Department
Bachelor of Science degree granted (HEGIS 0702)

William C. Schultz, Chairperson
Chase Hall 202/878-5528

The computer information systems program is designed to prepare students for entry-level positions (programmer, systems analyst) in the computer field, and to provide them with the technical knowledge and managerial skills necessary for a wide range of subsequent career paths. There is a growing demand in all sectors for individuals with this combination of capabilities. This program was developed with the cooperation of employers and data processing professionals, and unlike a computer science program its emphasis is on commercial computer applications.

Admission Requirements: Transfer students holding the A.A.S. degree in a related area are accepted directly into the major on a competitive basis. No freshmen are accepted directly into the major. Students seeking admittance into the CIS major must provide evidence of satisfactorily completing CIS 151, Computer Based Information Processing I. Satisfactory completion is defined as a "C" grade or better.

General Education Requirements 60

Total required credit hours in Computer Information Systems 42

A. REQUIRED COURSES (33 cr.)

CIS 151	Computer Based Information Processing I
CIS 251	Computer Based Information Processing II
CIS 311	Management Science/O.R. Computing (Proposed)
CIS 315	Computer Organization
CIS 350	Assembly Language Programming
CIS 370	Systems Analysis & Design
CIS 405	Comprehensive COBOL Programming
CIS 410	Computer Operating Systems
CIS 411	Database Systems
CIS 442	Advanced Systems Applications
CIS 470	Data Communications

B. ELECTIVES (9 cr.)

CIS 214	Interactive Computing
CIS 260	Data Structures*
CIS 318	Simulation and Modeling
CIS 351	Structured Programming*
CIS 380	Microcomputer Applications
CIS 390	Computer Graphics
CIS 420	Data Base Management Systems*
CIS 425	Comparative Computer Languages*
CIS 430	Applied COBOL*
CIS 435	Computer Seminar
CIS 450	Advanced Assembly Language Programming*
CIS 460	Computer Security and Crime
CIS 480	Office Information Systems
CIS 481	C Language Programming*
CIS 488	Internship

*Restricted Elective - At least three of the nine hours of major electives must come from the restricted electives designated by the asterisk. Certain sections of CIS 435 may also fill this requirement.

C. ADDITIONAL REQUIREMENTS

-A minimum of 21 credits, including at least three credits of restricted elective, must be completed in the department.

-Proficiency (as demonstrated by a passing grade in a programming course) in three different programming languages.

Electives 19

Physical Education 2

TOTAL REQUIREMENTS 123

CRIMINALISTICS (0772)

Offered by the Chemistry Department
Bachelor of Science degree granted (HEGIS 2209)

Dr. Edward M. Schulman, Chairperson
Science Building 313/878-5204

Criminalistics is a program of professional study whose graduates are prepared to assume entry-level positions as forensic chemists in police laboratories at the local, state, or federal levels.

Special Admission Requirements: None at the freshman level. Transfer students from two-year colleges should have earned credit for courses equivalent to CHE 111-112 and CRJ 101 and 201 in order to avoid possible delay in the completion of the degree program.

General Education Requirements 60

Total required credit hours in Chemistry 30

CHE 111-112	Fundamentals of Chemistry I-II
CHE 301	Analytical Chemistry
CHE 321	Principles of Organic Chemistry
CHE 322	Biological Chemistry
CHE 403	Instrumental Analysis
CHE 412	Internship
	Chemistry Elective (3)

TRANSFER STUDENTS must complete a minimum of 10 credit hours in chemistry at Buffalo State. Chemistry courses taken elsewhere may be substituted for similar courses at Buffalo State *only* if they have the same equivalent prerequisites. Chemistry courses not meeting this criterion may be transferred as elective credit.

Total required credit hours in Criminal Justice 12

CRJ 101	Introduction to Criminal Justice
CRJ 201	Criminal Law and Procedure
CRJ 315	Research Design in Criminal Justice
CRJ 317	U.S. Constitution and Civil Liberties

Electives 19

Physical Education 2

TOTAL REQUIREMENTS 123

CRIMINAL JUSTICE (0771)

Offered by the Criminal Justice Department
Bachelor of Science degree granted (HEGIS 2105)

Dr. John A. Conley, Chairperson
Classroom Building HC 114/878-4517

Criminal justice is a multi-disciplinary academic program which examines the characteristics and operations of the criminal justice system and relationships between crime and crime control within the context of a democratic society. The program is specifically designed to explore social, cultural, political, and organizational influences on criminal justice policies and operations from both theoretical and real-world perspectives.

Admission Requirements: 2.5 GPA or above.

A departmental honors program is also available. Students should contact the department for additional information.

General Education Requirements 60

Total required credit hours in Criminal Justice 39

NOTES:

1. No transfer students may take lower division courses in the major without permission of the department chairperson.
2. Economics 305, Psychology 306, or an approved statistics course is a prerequisite for CRJ 315.
3. No more than six credit hours may be taken in any one field for use in Section "C" of the major.
4. No more than one 499 and/or 495 may be used in the major and none may be used in the major if taken prior to satisfactory completion of CRJ 315 without special permission (written) of the department.
5. CRJ 495 and CRJ 499 require senior class standing and a Buffalo State College cumulative grade point average of 3.0 or greater.

Note: The criminal justice program is currently under revision. Please contact the department for current information.

REQUIRED COURSES (27 cr.)

A. CORE COURSES (15 cr.)

- CRJ 101 Introduction to Criminal Justice
- CRJ 203 Crime, Ideology, and the Administration of Justice
- CRJ 315 Research Methods in Criminal Justice
- CRJ 402 Advanced Administration in Criminal Justice
- CRJ 470 Advanced Seminar in Criminal Justice

B. SUPPORTING COURSES (12 cr.)

- CRJ 201 Criminal Law and Procedure
- CRJ 202 The Police Process
- CRJ 204 The Correctional Process
- CRJ 301 Police Organization and Management
- CRJ 302 Community Issues in Criminal Justice
- CRJ 305 The Juvenile Justice System
- CRJ 306 Probation, Parole, and Community Corrections
- CRJ 307 Comparative Criminal Justice Systems
- CRJ 317 Constitutional Issues in Criminal Justice

C. ELECTIVE COURSES SELECTED BY ADVISEMENT (15 cr.)

Criminal Justice Electives (6 cr.)

- CRJ 316 Field Studies
- CRJ 420 Advanced Issues in Punishment and Correction
- CRJ 406 Correctional Institutions and Programs
- CRJ 408 Pro-Seminar in Criminal Justice
- CRJ 409 Advanced Issues in Law Enforcement
- CRJ 495 Special Projects
- CRJ 499 Independent Study

Behavioral and Social Science Electives (9 cr.)

- ECO 305 Statistics for Economics
- ECO 301 Labor Relations
- EXE 314 Psychology of Exceptional Individuals
- SWK 319 Social Dynamics of Poverty
- SWK 320 Organized Community Services
- SWK 419 Social Welfare Policy
- HIS 342 English Legal History
- HIS 343 American Legal History
- PSY 311 Personality
- PSY 325 Social Behavior
- PSY 411 Abnormal Psychology
- PHI 102 Introduction to Moral and Social Philosophy
- PHI 303 Justice and Criminal Justice
- PHI 304 Philosophy of Law
- PHI 323 Moral Issues
- SOC 330 Social Psychology
- SOC 380 Sociology of Crime
- SOC 351 Sociology of Race and Ethnicity
- SOC 390 Juvenile Delinquency
- SOC 382 Sociology of Law
- SOC 391 Sociology of Addiction
- SOC 383 Sociology of Punishment and Corrections

Electives	22
Physical Education	2
TOTAL REQUIREMENTS	123

DESIGN (0175)

Offered by the Design Department
Bachelor of Science degree granted
(HEGIS 1009)

Richard A. Butz, Chairperson
Upton Hall 212/878-6032

For those students interested in a studio degree with a strong academic component, the Design Department offers the bachelor of science degree with concentrations in ceramic design, fiber design, jewelry design, metal design, woodworking and furniture design, theater design, interior design, and graphic design.

The program provides a strong foundation with drawing, two-dimensional design, three-dimensional design, and design history. Upper-level concentrations equip students with the skills, insights, and self-confidence associated with professional designer/craftspersons. The academic courses offer additional opportunities to minor or to broaden the college experience beyond the studio.

Special Portfolio Requirement: After completion of the foundation studio courses and the introductory course in the concentration a student must submit a portfolio for review by the faculty in the

General Education Requirements 60

Total required credit hours in Design 42

A. FOUNDATION PROGRAM (21 cr.)

- DES 101 Introductory Design 2D I
- DES 102 Introductory Design 2D II
- DES 103 Introductory Design 3D I
- DES 104 Introductory Design 3D II
- DES 105 Mechanical and Perspective Drawing
- DES 215 Introduction to Design History (or THA 317 for theater design)
- DES 317 Design in the 20th Century (or THA 318 for theater design)

B. MAJOR CONCENTRATION (with advisement) (21 cr.)

Electives 19

Physical Education 2

TOTAL REQUIREMENTS 123

intended concentration. Only students receiving a positive recommendation may enter the concentration and may continue in upper-level concentration courses.

Note: Transfer students are urged to bring their portfolios to orientation advising to

facilitate placement in departmental courses.

The Design Department reserves the right to retain students' work for official purposes such as exhibitions, catalogs, teaching aids, or for permanent collections.

DESIGN (0180)

Offered by the Design Department
Bachelor of Fine Arts degree granted
(HEGIS 1009)

Richard A. Butz, Chairperson
Upton Hall 212/878-6032

For those interested in a studio-intensive program, the Design Department offers a bachelor of fine arts degree with concentrations in ceramic design, fiber design, jewelry design, metal design, wood design, interior design, and graphic design.

The program provides a strong foundation with drawing, two-dimensional design, three-dimensional design, color, art history, and design history. Upper-level courses in the concentrations equip students with the skills, insights, self-confidence, and portfolios of mature work expected in the professions or as prerequisites for studies on the MFA level.

General Education Requirements 39

Total required credit hours in Design 73

A. FOUNDATION PROGRAM & GENERAL REQUIREMENTS (37 cr.)

- DES 101 Introductory Design 2D I
- DES 102 Introductory Design 2D II
- DES 103 Introductory Design 3D I
- DES 104 Introductory Design 3D II
- DES 105 Mechanical and Perspective Drawing
- FAR 101 Drawing I
- DES 307 Advanced Design (Color)
- FAR 250 Art History I
- FAR 251 Art History II
- DES 215 Introduction to Design History
- DES 317 Design in the 20th Century
- DES 414 Seminar/Exhibition

B. MAJOR CONCENTRATION (27 cr.)

Special Portfolio Requirement: After completion of the foundation studio courses and the introductory course in the concentration, a student must submit a portfolio for review by faculty in the intended concentration. Only students receiving a positive recommendation may enter the concentration and may continue in upper-level concentration courses.

Note: Transfer students are urged to bring their portfolios to orientation advising to

C. STUDIO ELECTIVES (9 cr.)

Electives	9
Physical Education	2
TOTAL REQUIREMENTS	123

facilitate placement in departmental courses.

The Design Department reserves the right to retain students' work for official purposes such as exhibitions, catalogs, teaching aids, or for permanent collections.

DIETETICS (0410)

Offered by the Nutrition and Food Science Department
Bachelor of Science degree granted (HEGIS 1306)

Dr. Dennis K. Ponton, Chairperson
Caudell Hall 106A/875-5913

The general dietetics option enables students to satisfy the Plan IV academic requirements established by the American Dietetic Association (ADA). Graduates apply to post-baccalaureate dietetic internships or approved pre-professional practice programs (AP4), offered at various locations across the country, to satisfy the ADA experience component. Successful completion of the education and experience requirements, and passing the registration examination earns the credentials of Registered Dietitian. Career opportunities are available to dietitians in health facilities, food service organizations, governmental agencies, and consulting work. Some individuals use this program to prepare for graduate study in nutrition-related areas.

Admission Requirements: Transfer students or uncommitted students desiring a major in this program must have a minimum grade point average of 2.75 on previous college credit.

Note: This dietetics option will be revised during the 1991-92 academic year to comply with Plan V academic requirements and standards of education of the American Dietetic Association. Please contact the Nutrition and Food Science Department for details.

General Education Requirements	60
Total required credit hours in Nutrition and Food Science	33

A. REQUIRED COURSES (Program Emphasis: General)

NFS 101	Introductory Food
NFS 305	Advanced Food
NFS 337	Human Nutrition
NFS 338	Nutrition and the Life Cycle
NFS 361	Principles of Management in Food Service
NFS 363	Quantity Food Production
NFS 366	Purchasing and Cost Control in Food Systems
NFS 400	Food Science
NFS 440	Advanced Human Nutrition
NFS 441	Dietary Modifications in Disease
NFS 463	Management Systems for Dietetics

B. A MINIMUM OF 12 CREDITS IN THE MAJOR must be completed in the Department.

Required Courses in Other Departments

The American Dietetic Association requires completion of subjects outside nutrition to satisfy academic requirements. Courses meeting these requirements are identified below; they may be taken as electives or used in fulfilling the General Education Requirement.

BIO 114	Cell Biology
BIO 210	Bacteriology
BIO 311	Human Anatomy and Physiology
BIO 312	Human Anatomy and Physiology II
CHE 101	General Chemistry I or CHE 111 Fundamentals of Chemistry I
CHE 102	General Chemistry II or CHE 112 Fundamentals of Chemistry II
CHE 321	Principles of Organic Chemistry
CHE 322	Biological Chemistry
ECO 101	The Economic System or ECO 201 Principles of Microeconomics
ENG 300	Writing for the Professions
MAT 111	Elementary Probability and Statistics or CIS 101 Computer Fundamentals
MAT 124	Fundamentals of College Mathematics or three years high school math
PSY 101	Introduction to Psychology
EDF 303	Educational Psychology
SOC 100	Introduction to Sociology or ANT 101 Introduction to Anthropology

Electives	28
Physical Education	2
TOTAL REQUIREMENTS	123

DIETETICS (0410)

Offered by the Nutrition and Food Science Department
Bachelor of Science degree granted (HEGIS 1306)

Dr. Dennis K. Ponton, Chairperson
Caudell Hall 106A/878-5913

The coordinated program in dietetics, accredited by the American Dietetic Association, combines theoretical learning with supervised practice during the junior and senior years. The curriculum can be completed in four years if students select the appropriate prerequisite courses in the first two years of college. Graduates are recommended for membership in the American Dietetic Association and are eligible to take the registration examination. Upon successful completion of the examination, graduates become Registered Dietitians.

Admission Requirements: Students, sophomores or later, apply directly to the department in January of each year. The application process includes a personal interview, biographical sketch, various other activities, obtaining a 2.75 grade point average by August 20, and the ability to have completed the following courses by the next fall term: BIO 311, CHE 111, CHE 112, CHE 321, CHE 322, NFS 101, NFS 337, PSY 101, SOC 101. Up to 16 students can be accepted in this program each year. Most likely, more students will apply than can be accepted.

Note: Individuals interested in applying to this program must contact the department for application details. These are available by December 1 of each year; completed forms must be returned by January 20. Late applications will not be considered.

General Education Requirements	60
Total required credit hours in Nutrition and Food Science	31

A. REQUIRED COURSES (31 cr.)

NFS 101	Introductory Food (3 cr.)
NFS 337	Human Nutrition (3 cr.)
NFS 338	Nutrition and the Life Cycle (3 cr.)
NFS 361	Principles of Management in Food Service (3 cr.)
NFS 400	Food Science (4 cr.)
NFS 440	Applied Nutrition I (4 cr.)
NFS 442	Applied Nutrition II (4 cr.)
NFS 443	Applied Nutrition III (4 cr.)
NFS 468	Management of Foodservice Operations (3 cr.)

B. To satisfy the supervised practice requirements of the American Dietetic Association, students in the coordinated program are required to take the following courses. These NFS classes may be substituted for all college electives.

NFS 445	Nutritional Care A (3 cr.)
NFS 446	Nutritional Care B (4 cr.)
NFS 447	Nutritional Care C (5 cr.)
NFS 448	Nutritional Care D (5 cr.)
NFS 449	Nutritional Care E (2 cr.)
NFS 450	Senior Practicum in Dietetics (4 cr.)
NFS 451	Specialty Practice (1 cr.)
NFS 471	Experiences in Health Care Food Service Systems (3 cr.)

C. A minimum of 12 credits in the major must be completed in the department.

Required Courses in Other Departments

The American Dietetic Association requires completion of subjects outside nutrition to satisfy academic requirements. Courses meeting these requirements are identified below; they may be taken as electives or used in fulfilling the general education requirements.

BIO 100	Principles of Biology
BIO 210	Bacteriology
BIO 311	Human Anatomy and Physiology I
BIO 312	Human Anatomy and Physiology II
CHE 111	Fundamentals of Chemistry I
CHE 112	Fundamentals of Chemistry II
CHE 321	Principles of Organic Chemistry
CHE 322	Biological Chemistry
PSY 101	Introduction to Psychology
SOC 100	Introduction to Sociology
CIS 101	Computer Fundamentals
LIB 100	Library Research Methods and Bibliography
EDF 303	Educational Psychology
SOC 330	Social Psychology
PSY 306	Statistics in Psychological Research

Electives (clinical, other)	43
Physical Education	2
TOTAL REQUIREMENTS	136

EARTH SCIENCE 7-12 (Secondary Education) (0000)

Offered by the Earth Sciences and Science Education Department
Bachelor of Science in Geosciences or Bachelor of Arts in Geology degree granted (HEGIS 1917)

Dr. Robert E. Horvat, Chairperson
Science Building 271/878-6731

The secondary education earth science program leads to New York state Certificates of Qualification for teaching both earth science and general science in grades 7-12. It is not a degree program in itself, but an optional sequence of study which must be combined with either the bachelor of science in geosciences or the bachelor of arts in geology. All degree requirements for these programs must be fulfilled, in addition to those listed here.

General Education Requirements (may be applied either to B.A. or B.S. program)60

Total required credit hours in Geosciences (may be applied to B.A. geology or B.S. geoscience program)41

A. REQUIRED COURSES (35 cr.)

- GES 101 Introductory Geology
- GES 102 Historical Geology
- GES 103 Introductory Geology Lab (1 cr.)
- GES 111 General Oceanography
- GES 131 Introduction to Astronomy
- GES 33* Astronomy Elective
- GES 241 Meteorology
- GES 302 Invertebrate Paleontology
- GES 304 The Common Rocks and Minerals
- GES 307 Geomorphology
- GES 308 Structural Geology
- GES 405 Geology of North America
- GES 495 Project - Oral presentations (1 cr.)

B. ELECTIVES SELECTED BY ADVISEMENT (6 cr.)

Total required credit hours in Professional Education27

- SST/SED 200 Field Experience in Secondary Education (required for all secondary education majors)
- EDF 303 Educational Psychology (count in General Education category)
- EDF 403 Historical and Philosophical Forces Influencing Secondary Education
- EDU 416 Teaching Reading in the Secondary Schools
- SED 307 Techniques for Teaching Laboratory Activities in the Secondary Science Classroom
- SED 308 Methods and Materials in Teaching Secondary Science
- SED 408 Student Teaching of Science in the Secondary School

Credit hours in other fields

(count for Core or General Education credit)

- Two semesters of biology
- Two semesters of chemistry
- Two semesters of physics
- One year of college-level study of a foreign language (or equivalent)

Foreign Language Requirement (B.A. degree only)

(0-12 General Education credits, depending on previous language coursework)

Physical Education2

TOTAL REQUIREMENTS123

ECONOMICS AND FINANCE (0702)

Offered by the Economics and Finance Department
Bachelor of Science degree granted (HEGIS 2204)

Dr. Alex J. Ratkowski, Chairperson
Classroom Building B207/878-4606

In economics, students learn to describe, analyze, explain, and predict the economic activity of business, consumers, resource owners, and government and nonprofit agencies as they interact in producing and consuming goods and services. The B.S. program (in contrast to the B.A.) provides a background in economic theory, statistics, mathematics, accounting, and computer science; requires the selection of a specialized area of preparation in either financial economics, policy analysis and administration, or applied research; and includes more required courses to complete the program. Therefore, the B.S. program requires an earlier commitment and limits flexibility in order to provide more specific career preparation for entry-level positions in business and government or for entering graduate programs.

Specialized Areas: Each specialized area prepares a student for a different career goal. Financial Economics provides a thorough background for any aspect of financial services (e.g., positions in investment companies, banks, financial planning, etc.). A student interested in managerial positions in business or government (one begins as a management trainee) should consider Policy Analysis and Administration. Finally, a student who wants a job that requires using research to provide relevant information for use by business or government decision-makers should consider Applied Research. An adviser will assist you in selecting an appropriate specialized area.

Admission Requirements: A 2.2 GPA and a pre-calculus course (MAT 110 or equivalent) are required for entry.

Transfer Students: Most economics courses will be accepted into the major as long as the majority of requirements are completed at Buffalo State College. In most cases, grades for transfer courses will be used in computing the minimum GPA in economics.

General Education Requirements60

Total required credit hours in Economics42

A. REQUIRED COURSES (30 cr.)

- ECO 201 Principles of Macroeconomics
- ECO 202 Principles of Microeconomics
- ECO 305 Statistics for Economics
- ECO 307 Intermediate Microeconomics
- ECO 308 Intermediate Macroeconomics
- ECO 424 Econometrics
- BUS 312 Principles of Accounting I
- BUS 313 Principles of Accounting II
- CIS 101 Introduction to Computer Science
- MAT 126 Calculus

or
MAT 161 Calculus I

B. SPECIALIZED AREA (12 cr.)

Courses must be selected from one of the following specialized areas. Only three credits of ECO 488, 495, or 499 may be included.

Financial Economics

- ECO 304 Money and Banking
- ECO 314 Corporation Finance
- ECO 414 Investment Management
- ECO 415 Case Studies in Corporation Finance
- ECO 416 Advanced Corporation Finance*
- ECO 340 Federal Income Taxation*
- BUS 410 Managerial Accounting
- ECO 488 Internship

or
ECO 499 Independent Study

Policy Analysis and Administration

- ECO 317 Economic Policy: Government and Business
- ECO 360 Economic Analysis of the Law
- ECO 411 Regional Economic Analysis
- ECO 412 Urban Economics
- ECO 350 Public Finance
- ECO 302 Women in the Economy
- ECO 403 Comparative Economic Systems
- ECO 401 International Economics
- ECO 301 Economics of Labor Relations
- ECO 314 Corporation Finance*
- ECO 320 Managerial Economics*
- BUS 410 Managerial Accounting*
- ECO 488 Internship

or
ECO 499 Independent Study

Applied Research

- ECO 320 Managerial Economics
- ECO 402 Seminar in Current Economic Problems
- ECO 405 History of Economic Thought
- ECO 411 Regional Economic Analysis
- ECO 425 Business and Economic Forecasting
- BUS 404 Market Research
- MAT 127 Calculus of Several Variables
- or
- MAT 162 Calculus II
- SOC 415 Population Analysis
- ECO 488 Internship
- or
- ECO 495 Project

Electives19

Physical Education2

TOTAL REQUIREMENTS123

*Pending approval of this program change.

ECONOMICS AND FINANCE (0704)

Offered by the Economics and Finance Department
Bachelor of Arts degree granted
(HEGIS 2204)

Dr. Alex J. Ratkowski, Chairperson
Classroom Building B207/878-4406

In economics, students learn to describe, analyze, explain, and predict the economic activity of business, consumers, resource owners, and government and nonprofit agencies as they interact in producing and consuming goods and services. The B.A. program (in contrast to the B.S.), by providing a broader, more generalized approach and requiring fewer hours in the major, enables students to pursue a second major, a minor, or an honors option in economics. This is intended to offer more flexibility in meeting a variety of personal interests and career choices. Graduates will have an appropriate background for entry-level positions in business and government and an excellent preparation for a variety of graduate programs and professional schools (e.g., international business, law school, economics).

Admission Requirements: A 2.2. GPA and a pre-calculus course (MAT 110 or equivalent) are required for entry.

Transfer Students: Most economics courses will be accepted into the major as long as the majority of requirements are completed at Buffalo State College. In most cases, grades for transfer courses will be used in computing the minimum GPA in economics.

General Education Requirements60

Total required credit hours in Economics36

A. REQUIRED COURSES (27 cr.)

ECO 201	Principles of Macroeconomics
ECO 202	Principles of Microeconomics
ECO 305	Statistics for Economics
ECO 307	Intermediate Microeconomics
ECO 308	Intermediate Macroeconomics
ECO 401	International Economics

or

ECO 403	Comparative Economic Systems
ECO 405	History of Economic Thought
ECO 424	Econometrics
PHI 103	Introduction to Logic

or

PHI 309	Philosophy of Science
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B. ECONOMICS ELECTIVES SELECTED BY ADVISEMENT (9 cr.)

Only three credits of ECO 488, 495, or 499 may be included.

Electives7-13

Foreign Language Requirement0-12

Physical Education2

TOTAL REQUIREMENTS123

Note: It is strongly recommended that students who plan to pursue a Ph.D. in economics also complete, as a minimum, MAT 161, MAT 162, and MAT 202.

A departmental honors program is also available. Students should contact the department for additional information.

ELEMENTARY EDUCATION (0200)

Offered by the Elementary Education and Reading Department
(HEGIS 0802) NCATE Accredited

Dr. Norman G. Walker, Acting Chairperson
Bacon Hall 302/878-5916 or 878-5604

Requirements

Students considering a major in elementary education may be admitted to pre-elementary education (0201) providing they meet the general admission requirements of the college. However, to be admitted fully into elementary education, a student must have successfully completed at least 45 semester hours, completed the English and math requirements for the college, and have a cumulative grade point average of at least 2.5. Elementary education students may not enroll in EDU 314, EDU 315, EDU 401, or EDU 402 unless they have a cumulative grade point average of at least 2.5. In order to enroll in EDU 401, students must also have passed the Communication Skills and General Knowledge sections of the National Teachers Exam. The Professional Knowledge section may

be taken during the student teaching semester. Graduates in elementary education will be recommended for New York state provisional certification to teach nursery through grade 6. Students may extend their certification to teach grades 7-9 in the areas of English, general science, foreign language, mathematics, and social studies. Students in the elementary education program are provided with a developmental program of supervised teaching experiences with children of various age levels in

(Continued)

be taken during the student teaching semester. Graduates in elementary education will be recommended for New York state provisional certification to teach nursery through grade 6. Students may extend their certification to teach grades 7-9 in the areas of English, general science, foreign language, mathematics, and social studies. Students in the elementary education program are provided with a developmental program of supervised teaching experiences with children of various age levels in

Elementary Education (Continued)

different types of schools. New York state certification requirements are being revised. Please contact the department office for current information.

Academic Concentrations

Students enrolled in the elementary education program are required to complete a concentration in addition to the professional program requirements. The concentration is designed to broaden a student's academic background. Details of the various concentrations are available in Bacon Hall 303. Students must register their concentration choices with this office. See faculty adviser for further information.

Student Teaching

Eligibility for elementary student teaching is determined by the dean of Applied Science and Education; placement is done by the Elementary Education and Reading Department.

Student teaching experiences are provided in cooperating public schools in the college community. It is expected that students will have experiences at the primary and intermediate levels and in urban and suburban schools. Students enrolled in student teaching devote full time to student teaching.

Prior written approval must be obtained from the chairperson of the Elementary Education and Reading Department for a student to enroll for any other college credit work during a student teaching assignment except for EDU 402. All students anticipating a student teaching assignment must show proof of having a test for TB within six months of the assignment. Results of the test must be filed at the Health Center.

Extended Certification

Students wishing to extend certification to teach in the junior high grades (7-9) in the areas of English, general science, foreign language, mathematics, or social studies will take additional methods and subject matter courses pertaining to their specific area and must complete a situation of student teaching in the selected academic subject in the early secondary grades. Students' advisers will be from the elementary education program. However, students should consult with the coordinator of secondary education for their academic area of the extension.

General Education Requirements60

Total required credit hours in Elementary Education36

*EDF 203	School and Society	3
*EDF 210	Introduction to Human Development	3
*EDF 302	Educational Psychology: Elementary Education	3
EDU 314	Teaching Reading and Other Language Arts	6
EDU 315	Teaching Social Studies, Science, and Mathematics	12
EDU 401	Practicum in Teaching	3
EDU 402	Seminar in Education	3

*Offered by the Educational Foundations Department.

Electives25

Physical Education2

TOTAL REQUIREMENTS123

Transfer Students

Students transferring to the elementary education program as juniors wishing to complete their program in four semesters should plan their schedules of coursework in education carefully. It is important to note that EDU 314 and EDU 315 may not be taken concurrently except in the block option. In order to register for a block, it is required that you have the permission of the instructor and complete an interview.

Block Option

The Elementary Curriculum and APACE options consist of EDU 314 and EDU 315 taken concurrently. They stress an interdisciplinary approach to an integrated curriculum for the elementary school child. For further information contact the instructors.

EDUCATIONAL FOUNDATIONS DEPARTMENT

Dr. Thomas J. Quatroche, Chairperson
Educational Foundations Department
Bacon Hall 306/878-4303

The Educational Foundations Department has responsibility for delivering the social, historical, philosophical, and psychological foundations courses needed by all education majors.

ENGINEERING TECHNOLOGY: Mechanical (0820)

Offered by the Technology Department
Bachelor of Technology degree granted
(HEGIS 0925) Accredited by TAC/ABET

Dr. Charles A. Beasley, Chairperson
Upton Hall 315/878-6017

Dr. Peter S. Pawlik, Coordinator
Upton Hall 315/878-6017

Mechanical engineering technologists are employed in the design, testing, manufacture and application of machinery. This includes a broad spectrum of items ranging from consumer goods to industrial equipment.

General Education Requirements		24
Arts and humanities	6	
Written and oral communications	9	
Social sciences	9	
Total required credit hours in Mathematics and Physical Sciences		24
Mathematics	9	
Physics	6	
Chemistry	6	
Computer sciences	3	
Total required credit hours in Technical Sciences		18
ENT 300 Analytical Methods for Technologists		
ENT 301 Mechanics I		
ENT 302 Mechanics II		
ENT 331 Electrical Circuits & Devices I		
ENT 332 Electrical Circuits & Devices II		
ENT 313 Computer Methods in Technology		
Total required credit hours in Technical Specialty		33
TEC 101 Technical Drawing		
TEC 201 Materials Processing		
TEC 311 Materials Science & Testing		
ENT 303 Kinematics		
ENT 311 Thermodynamics		
ENT 312 Fluid Mechanics		
ENT 401 Stress Analysis		
ENT 402 Shock & Vibration Analysis		
ENT 411 Heat Transfer		
ENT 421 Machine Design I		
ENT 422 Machine Design II		
Technical Electives		9
Electives		14
Physical Education		2
TOTAL REQUIREMENTS		124

ENGINEERING TECHNOLOGY: Electrical (Power and Machines Option) (0820)

Offered by the Technology Department
Bachelor of Technology degree granted
(HEGIS 0925) Accredited by TAC/ABET

Dr. Charles A. Beasley, Chairperson
Upton Hall 315/878-6017

Dr. Peter S. Pawlik, Coordinator
Upton Hall 315/878-6017

Electrical engineering technologists (power and machines option) are employed in the design, testing, manufacture, and application of electrical machinery, electrical power systems, and control systems. They are diversified individuals who can fill the many industrial positions which require a knowledge of both mechanical and electrical technology.

General Education Requirements		24
Arts and humanities	6	
Written and oral communications	9	
Social sciences	9	
Total required credit hours in Mathematics and Physical Sciences		24
Mathematics	9	
Physics	6	
Chemistry	6	
Computer sciences	3	
Total required credit hours in Technical Sciences		18
ENT 300 Analytical Methods for Technologists		
ENT 301 Mechanics I		
ENT 302 Mechanics II		
ENT 331 Electrical Circuits & Devices I		
ENT 332 Electrical Circuits & Devices II		
ENT 313 Computer Methods in Technology		
Total required credit hours in Technical Specialty		36
TEC 101 Technical Drawing		
ENT 311 Thermodynamics		
ENT 312 Fluid Mechanics		
ENT 341 Electronics		
ENT 342 Networks		
ENT 371 Electro-Mechanical Machines		
ENT 431 Digital Systems I		
ENT 432 Digital Systems II		
ENT 461 Control Technology I		
ENT 462 Control Technology II		
ENT 471 Electrical Power Systems I		
ENT 472 Electrical Power Systems II		
Technical Electives		6
Electives		14
Physical Education		2
TOTAL REQUIREMENTS		124

ENGINEERING TECHNOLOGY: Electrical (Electronics Option) (0820)

Offered by the Technology Department
Bachelor of Technology degree granted
(HEGIS 0925) Accredited by TAC/ABET

Dr. Charles A. Beasley, Chairperson
Upton Hall 315/878-6017

Dr. Peter S. Pawlik, Coordinator
Upton Hall 315/878-6017

Electrical engineering technologists (electronics option) are employed in the design, testing, fabrication, and application of solid state circuits and systems (both digital and analog), microwave systems, and control systems. This includes consumer products such as pocket calculators, stereos, and microwave ovens as well as industrial electronics and computer equipment.

General Education Requirements		24
Arts and humanities	6	
Written and oral communication	9	
Social sciences	9	
Total required credit hours in Mathematics and Physical Sciences		24
Mathematics	9	
Physics	6	
Chemistry	6	
Computer science	3	
Total required credit hours in Technical Sciences		18
ENT 300 Analytical Methods for Technologists		
ENT 301 Mechanics I		
ENT 301 Mechanics II		
ENT 331 Electrical Circuits & Devices I		
ENT 332 Electrical Circuits & Devices II		
ENT 313 Computer Methods in Technology		
Total required credit hours in Technical Specialty		30
ENT 341 Electronics		
ENT 342 Networks		
NET 351 Electronic Circuit Analysis and Design I		
ENT 352 Electronic Circuit Analysis and Design II		
ENT 431 Digital Systems I		
ENT 432 Digital Systems II		
ENT 441 Electromagnetic Fields and Waves		
ENT 442 Microwave Techniques		
ENT 461 Control Technology I		
ENT 462 Control Technology II		
Technical Electives		12
Electives		14
Physical Education		2
TOTAL REQUIREMENTS		124

ENGLISH (0705)

Offered by the English Department
Bachelor of Arts degree granted
(HEGIS 1501)

Dr. Theresa F. Platek, Chairperson
Ketchum Hall 326/878-5416

The English program offers four areas of service: the enhancement of writing skills, electives to satisfy general education requirements, a liberal arts English major, and a secondary education major.

General Education Requirements		60
Total required credit hours in English (18 credits must be upper division)		39
A. REQUIRED COURSES (15 cr.)		
ENG 250 Literary Criticism		
ENG 301 Advanced Expository Writing		
ENG 315 Shakespeare I		
or one of ENG 316, 411, 413		
ENG 470 Foundations of Language		
or one of ENG 472, 474		
ENG 490 Senior Seminar		
B. AREA COURSES IN ENGLISH (21 cr.)		
TWO courses in literature of English prior to 1900	6	
(Choose from ENG 110, 111, 415, 416, 417, 418, 419, 420, 421)		
TWO courses in literature of the United States, one prior to 1900	6	
(Choose from ENG 140, 141, 240, 241, 441)		
TWO courses in literature from other countries	6	
(Choose from ENG 130, 131, 132, 230, 331, 332, 334, 335, 336, 338, 341, 345, 432)		
ONE course in contemporary literature	3	
(Choose from ENG 252, 253, 350, 351, 422, 454, 455)		
C. ENGLISH ELECTIVE (3 cr.)		
Foreign Language Requirement		0-12
Electives		10-22
Physical Education		2
TOTAL REQUIREMENTS		123

ENGLISH 7-12 (Secondary Education) (0610)

Offered by the English Department
Bachelor of Science (Education) degree granted
(HEGIS 1501) NCATE Accredited

Dr. Theresa F. Platek, Chairperson
Ketchum Hall 326/878-5416

General Education Requirements 60

Total required credit hours in English 39

A. ENGLISH LITERATURE (9 cr.)

Select from THREE areas:

Major literary periods	Recurrent themes
Major fiction writers	Master works
Major poets	Literary-historical overview
Major dramatists	

B. AMERICAN LITERATURE (9 cr.)

Select from THREE areas:

Major literary periods	Recurrent themes
Major fiction writers	Master works
Major poets	Literary-historical overview
Major dramatists	

C. WORLD LITERATURE (3 cr.)

Select from:

European and world literature, including classical and Biblical literature, and literature in translation

D. ADOLESCENT LITERATURE (3 cr.)

E. MINORITY & ETHNIC AMERICAN LITERATURE (3 cr.)

F. ENGLISH LANGUAGE (6 cr.)

Select from history, structure and usage of the English language

G. ADVANCED WRITING (3 cr.)

Select from creative writing, advanced composition, and technical writing

H. SHAKESPEARE (3 cr.)

Total required credit hours in Professional Education 30

SST 200/SED 200	Field Experience: Secondary Education and Related Careers
EDF 303/SED 303	Educational Psychology for Teachers of Adolescents
EDF 403/SED 403	Historical and Philosophical Forces Influencing Secondary Education
EDU 416/SED 416	Teaching Reading in Secondary Schools
ENG 309/SED 309	Teaching and Evaluating Writing
ENG 462/SED 462	Methods and Materials in the Teaching of English
ENG 464/SED 464	Student Teaching in Secondary School English*

*SST/SED 200, EDF/SED 303, EDU/SED 416, EDF/SED 403, ENG/SED 309, and ENG/SED 462 are prerequisites for ENG/SED 464. One year of college level study of a foreign language or equivalent.

Admission requirements to the Professional Education Block

2.0 grade point average in general education courses

2.5 grade point average with no grade below "C" in English courses

To student teach: 2.5 grade point average in the Professional Education Block with no grade below "C"; pass NTE in Communication Skills and General Knowledge

Physical Education 2

TOTAL REQUIREMENTS 131

EXCEPTIONAL EDUCATION

Offered by the Exceptional Education Department
Bachelor of Science in Special Education degree granted
(HEGIS 0808) NCATE Accredited

Dr. Don Logan, Chairperson
Ketchum Hall 201/878-5611

Undergraduate majors in exceptional education study within a cross-categorical program focusing on the education of newborns to 21-year-olds who have a variety of regular and special instructional needs. Included are students in disability groups traditionally associated with mental retardation, physical/neurological impairments, and learning and behavioral problems.

Graduates of the program typically obtain positions as teachers in resource rooms, self-contained classrooms, special schools, and residential facilities. Because exceptional education majors are also recommended for certification in elementary education,* graduates may be employed as teachers in regular classes. These professionals are particularly well qualified to integrate individuals with disabilities into regular elementary school settings.

Exceptional education majors earn a bachelor of science in education degree, and are recommended for provisional dual certification as Teacher of Special Education and Teacher of Elementary Education.* Majors must complete prescribed coursework and score at or above the passing level on the three major subtests of the National Teacher Exam (Professional Knowledge, Communication, and General Knowledge).

The department offers two minors for non-exceptional education majors. One, exceptional education, focuses on teaching individuals who are disabled. The other, exceptionality, is an inter-disciplinary minor devoted to studying types of impairments and theories of remediation.

In addition to fulfilling rigorous academic demands, both majors and minors in the department can expect to spend considerable time in intensive, field-based experiences both on campus and in the surrounding community. Classroom and field-based experiences may be referenced to a particular orientation to the discipline of exceptional education.

General Education Requirements 60

Total required credit hours in Exceptional Education 36

EXE 100	Nature and Needs of Individuals Who Are Exceptional	3
EXE 245	Community Service With Individuals Who Are Exceptional	3
EXE 306	Behavior Management	3
EXE 320	Evaluating Individuals Who Are Exceptional	3
EXE 330	Individuals With Mild Handicaps	3
EXE 331	Individuals With Moderate/Severe/Multiple Handicaps	3
EXE 340	Curriculum for Individuals With Mild Handicaps	3
EXE 341	Curriculum for Individuals With Moderate/Severe/Multiple Handicaps	3
EXE 385	Observation and Participation in Special Education	6
EXE 420	Practicum in Special Education	6

Total required credit hours in Professional Education 27

EDF 202	Child Development and Education	3
EDF 203	School and Society	3
EDF 302	Educational Psychology and Elementary Education	3
EDU 314	Teaching Reading and Language Arts	6
EDU 315	Teaching Science, Social Studies and Math	6
EDU 404	Practicum in Elementary School Teaching	6

Physical Education 2

TOTAL REQUIREMENTS 125

Entrance Requirements

Students must provide evidence of potential for success in order to be admitted to the Exceptional Education Department. Entering freshmen demonstrate this potential through a point system established by the department in cooperation with the Admissions Office. The point system includes criteria related to high school average, rank in class, SAT scores, and completion of a regents diploma. Transfer students and matriculated students demonstrate potential for success through the grade point average (GPA) earned in college coursework. Students with 2.6 GPAs (based on a 4.0 system) and above will generally be granted admission to the department. Students with 2.4 - 2.59 GPAs will be requested to submit supporting documentation such as letters of reference and statements referring to experience and purpose to be considered for admission into the department. Students with GPAs between 2.0 and 2.4 will be considered for admission only following a special review.

*After August 31, 1993, students will need to complete additional requirements in order to be eligible for certifications in elementary education.

FASHION TECHNOLOGY (0401)

Offered by the Nutrition and Food Science Department
Bachelor of Science degree granted (HEGIS 1304)

Dr. Dennis K. Ponton, Chairperson
Caudell Hall 106/878-5704/5913

The fashion technology program is designed to prepare graduates to work in various segments of the fashion industry such as textiles, design, apparel production, testing laboratories, fashion merchandising, and private governmental agencies that are involved in setting standards for textile/apparel safety and performance. Students in fashion technology may apply, through the department's visiting students program, to spend a semester or a year studying their specialty at the Fashion Institute of Technology in New York City's garment district. In addition, majors are afforded the opportunity to see the fashion industry in action during freshman/sophomore trips to Toronto, Ontario, and junior/senior trips to New York City. Local and area museums and businesses are also used for firsthand experience throughout the four-year program.

Specialty centers associated with the program include an industrial production center with a modern CAD-CAM system, a Center for Clothing for the Disabled, and the Historic Costumes Resource Center.

General Education Requirements60

Total required credit hours in Fashion Technology42

REQUIRED CORE (24 cr.)

CFS 108	Apparel Design
CFS 206	Introduction to Textiles
CFS 306	Textile Science
CFS 336	Textile Evaluation
CFS 357	Contemporary Fashion Analysis
CFS 447	Clothing in Relation to Human Behavior
CFS 448	Costume Through the Ages
	or
CFS 449	Textile Through the Ages
CFS 450	Apparel/Textile/Fashion Industry

SELECT ONE CONCENTRATION (18 cr.)

REQUIRED COURSES for Apparel Design and Construction

CFS 307	Clothing Design and Construction
CFS 327	Clothing Design/Flat Pattern Techniques
CFS 328	Clothing Design Through Draping
CFS 410	Fundamentals of Apparel Production
CFS 303/THA 303	Fashion Illustration
DES 105	Introduction to Design

REQUIRED COURSES for Fashion Merchandising

CFS 340	Introduction to Fashion Merchandising
CFS 410	Fundamentals of Apparel Production
CFS 434	Principles and Practices of Fashion Buying and Merchandising
BUS 325	Personnel Management
BUS 326	Introduction to Merchandising

Electives19

Physical Education2

TOTAL REQUIREMENTS123

FINE ARTS

Offered by the Fine Arts Department
Bachelor of Fine Arts degree granted

Frank C. Eckmair, Chairperson
Upton Hall 502/878-6014

The B.F.A. program has majors in painting, photography, printmaking, and sculpture. All freshmen and transfer students enter the program in the B.F.A. foundations status. Those students admitted as freshmen or as transfers with less than four semesters in college must be examined for the major prior to their last four semesters in the program. Students admitted as upper-level transfers must be examined for the major at the end of the first semester in the program.

The application for a major is the most critical evaluation in the program. Eligibility will be determined by a two-member faculty committee on the basis of an interview with the student and a review of his or her portfolio. Each B.F.A. student will be required to mount an individual exhibition of his or her work as part of the program requirements. It will be planned and installed with the advice and assistance of the student's faculty adviser, but no grade will be assigned.

The Fine Arts Department reserves the right to retain student art work for official purposes such as exhibits, catalogs, or teaching aids.

Special Admission Requirements: Admission to the B.F.A. program is based on an interview and portfolio examination by the Fine Arts Department. The portfolio is to be presented in person at a time stipulated by the department and should contain examples of work which the candidate feels best display his or her abilities.

General Education Requirements36

Total required credit hours in Fine Arts72

A. REQUIRED COURSES (39 cr.)

FAR 101	Drawing I
FAR 102	Drawing II
FAR 103	Modeling
FAR 210	Introductory Painting
FAR 220	Introductory Photography
FAR 230	Introductory Printmaking
FAR 240	Introductory Sculpture
FAR 250	Art History I
FAR 251	Art History II
FAR 463	Twentieth-Century Art
	Two Art History Electives
FAR 470	Senior Seminar in Fine Arts

B. MAJOR FIELD (21 cr.)

Intermediate I	Three Advanced
Intermediate II	Senior Studio

C. ART ELECTIVES (12 cr.)

Free Electives13

Physical Education2

TOTAL REQUIREMENTS123

FOOD SYSTEMS MANAGEMENT (0432)

Offered by the Nutrition and Food Science Department
Bachelor of Science degree granted
(HEGIS 1307)

Dr. Dennis K. Ponton, Chairperson
Caudell Hall 106A/878-5913

The food systems management curriculum prepares graduates for management positions in various aspects of the food service industry. Career opportunities exist for managers in restaurants, hotels, clubs, cafeterias, catering operations, health care, school food service, sales, production, and other components of industry/business. The curriculum includes both theoretical exposure and practical experience in food systems with the following program goals:

- To provide a common body of knowledge in food management theory/practice so that personal and professional growth will be fostered in students.
- To combine the specialized study in food systems management with a general education requirement that exposes students to many disciplines and encourages self-directed learning.
- To encourage, by course activities and experience components, the development of professional competencies, critical thinking ability, and problem solving skills which predict success in food management and project the potential for career advancement.
- To service SUNY and New York state with the only SUNY baccalaureate program in food systems management.

Admission Requirements: Transfer students or uncommitted campus students desiring to major in this program must have a minimum grade point average of 2.0 on previous college credit.

General Education Requirements 60

Total required credit hours in Food Systems Management 37

A. REQUIRED COURSES (34 cr.)

NFS 101	Introductory Food
NFS 279	Food Management Experience
NFS 334	Contemporary Nutrition
NFS 361	Principles of Management in Food Service
NFS 363	Quantity Food Production
NFS 364	Dining Room Service
NFS 367	Purchasing and Food Cost Accounting
NFS 466	Food Manager and Personnel Perspective
NFS 469	Institutional Foodservice Systems
NFS 470	Legal Aspects of Food Systems Management
NFS 479	Food Management Practicum
NFS 486	Food Systems Management Seminar

B. ELECTIVE IN FOOD SYSTEMS MANAGEMENT (3 cr.)

Courses available include:

NFS 200	Food Service Sanitation
NFS 306	Food Demonstration Techniques
NFS 365	Menu Planning

C. A minimum of 12 credits in the major must be completed in the department.

Electives 24

Physical Education 2

TOTAL REQUIREMENTS 123

FRENCH (Language and Literature) (0709)

Offered by the Foreign Language Department
Bachelor of Arts degree granted
(HEGIS 1102)

Dr. Michael Johnson, Chairperson
Bishop Hall 126/878-5414

The program is designed to develop the ability to communicate in French and to introduce students to the masterpieces of the literature of France and the most significant aspects of French culture. Students are encouraged, but not required, to study in France for a semester in an approved program.

General Education Requirements 60

Total required credit hours in French 36

A. REQUIRED COURSES (15 cr.)

FRE 301-302	French Conversation and Composition
FRE 307-308	Survey of French Literature
FRE 306	The Civilization of France

B. ELECTIVES SELECTED BY ADVISEMENT (21 cr.)

FRE 305	Spoken French
FRE 331	French Literature in Translation
FRE 401	Classical French Theater
FRE 403	Nineteenth-Century French Novel
FRE 404	Contemporary French Novel
FRE 415	Advanced Grammar and Composition
FRE 416	Advanced Conversation and Composition
FRE 417	Business French

*Six hours may be selected by advisement in courses with direct relationship to French studies (comparative literature, history, history of art, philosophy).

Electives 25

Physical Education 2

TOTAL REQUIREMENTS 123

FRENCH 7-12 (Secondary Education) (0651)

Offered by the Foreign Language Department
Bachelor of Science (Education) degree granted
(HEGIS 1102) NCATE Accredited

Dr. Michael Johnson, Chairperson
Bishop Hall 126/878-5414

The French-secondary education program enables students to earn provisional certification to teach French in New York state secondary schools. Students develop French language skills and study the structure and sound system of French, the literature and culture of French-speaking peoples, and, in the professional education component, the growth and role of the public school, adolescent development and psychology, and the teaching/learning of foreign languages in school settings. The curriculum includes a series of field experiences.

(Continued)

General Education Requirements 60

Total required credit hours in French 36

A. REQUIRED COURSES (24 cr.)

FRE 301-302	French Conversation and Composition
FRE 305	Spoken French
FRE 306	The Civilization of France
FRE 307-308	Survey of French Literature
FRE 309	Survey of Nineteenth and Twentieth-Century French Literature
FRE 415	Advanced Grammar and Composition

B. ELECTIVES (12 cr.)

French courses at the 300 or 400 level selected by advisement

Total required credit hours in Professional Education 21

EXE 100 ¹	Nature and Needs of Individuals Who Are Exceptional
FLE/SED 200	Field Experience in Foreign Language Secondary Education
EDF 303 ¹	Educational Psychology
EDF 403	Historical and Philosophical Forces Influencing Secondary Education
EDU 416	Teaching Reading in Secondary Schools
FLE/SED 405	Methods and Materials for Teaching Foreign Languages in Secondary Schools
FLE/SED 406	Techniques for Teaching and Evaluating Foreign Languages in Middle and Secondary Schools

French 7-12: Secondary Education
(Continued)

Total required credit hours in Student Teaching 12 ²		
FLE/SED 407	Student Teaching of Foreign Languages in Middle/Junior High Schools	
FLE/SED 408	Student Teaching of Foreign Languages in Senior High Schools	

Physical Education 2

TOTAL REQUIREMENTS 12³¹Will count as an elective for the GEE requirement: six hours total.²Both 6-credit courses are required. Students must present evidence of passing the Communication Skills and General Knowledge sections of the NTE prior to student teaching.³This total assumes appropriate placement on the audit sheet of the six hours of coursework noted above (¹) and meeting the all-college basic skills requirements (English composition and basic mathematics) without need of coursework.**Note:** Full acceptance into this program occurs after the student has completed six hours of study in French courses at Buffalo State College with a GPA of 2.5.**GENERAL STUDIES (0556)**Offered by the General Studies
Interdisciplinary Unit
Bachelor of Science degree grantedDr. William E. Burns, Coordinator
Twin Rise 100/878-5906

The general studies program is directed primarily at working adults and others interested in securing an individualized major. At the time the catalog went to press, this program was undergoing revision. Interested students should contact the coordinator of the General Studies Unit for specific information.

GEOGRAPHY (0715)Offered by the Geography and
Planning Department
Bachelor of Arts degree granted
(HEGIS 2206)Elbridge A. Renning Jr., Chairperson
Classroom Building A213/878-6216

Geography is designed to provide students with a basic foundation of the discipline while allowing them to focus on one of three major geographic subject areas. The physical geography/conservation stream emphasizes the interaction of man and the natural environment. The historical/cultural geography stream emphasizes developing an understanding of man's social-cultural patterns. The urban/economic geography stream emphasizes developing an understanding of the logic underlying the spatial distribution of cities and economic activities.

A departmental honors program is also available. Students should contact the department for additional information.

General Education Requirements 60

Total required credit hours in Geography 30

A. REQUIRED COURSES (12 cr.)

- GEG 101 Man's Natural Environment
GEG 102 Man's Cultural Environment
GEG 401 Development of Geographic Thought
GEG 413 Cartography

In addition, geography majors are required to select one of three areas (tracks) of specialization and to complete an additional 9 or 12 hours of geography.

Track 1 — Physical Geography/Conservation (12 cr.)

- GEG 303 World Climatology
GEG 307 Conservation
GEG 322 Geography of World Hunger
GEG 415 Seminar, physical geography or conservation or GEG 495

Track 2 — Historical/Cultural Geography (9 cr.)

- GEG 309 Introduction to Urban Geography
GEG 320 Historical Geography of the United States
GEG 415 Seminar, historical/cultural geography or GEG 495

Track 3 — Urban/Economic Geography (9 cr.)

- GEG 305 Principles in Economic Geography
GEG 309 Introduction to Urban Geography
or
GEG 357 Geography of Buffalo and the Niagara Frontier or
GEG 409 Geography of Manufacturing

B. GEOGRAPHY ELECTIVES selected by advisement (3 or 6 cr.)

Track 1 — Physical Geography/Conservation (3)
Three hours of regional geography

Track 2 — Historical/Cultural Geography (6)
Three hours of regional geography
Three hours of remaining geography courses

Track 3 — Urban/Economic Geography (6)
Three hours of regional geography
Three hours of remaining geography courses

C. REQUIRED ELECTIVE outside of geography (3 cr.)

Track 1 — Physical Geography/Conservation
ONE of the following:

- GES 307 Geomorphology
PSY 370 Environmental Psychology I
BIO 403 Economic Biology and Conservation

Track 2 — Historical/Cultural Geography
ONE of the following:

- HIS 213 History of Cities in Western Civilization
ANT 307 Urban Anthropology
PSY 370 Environmental Psychology I

Track 3 — Urban/Economic Geography
ONE of the following:

- ECO 411 Regional Economic Analysis
ECO 412 Urban Economics
MAT 306 Problem Solving in BASIC

(Continued)

Geography
(Continued)

Foreign Language Requirement	0-12
Electives	19
Physical Education	2
TOTAL REQUIREMENTS	123

GEOLOGY (0727)

Offered by the Earth Sciences and Science Education Department
Bachelor of Arts degree granted
(HEGIS 1914)

Dr. Robert E. Horvat, Chairperson
Science Building 271/878-6731

The geology program offers students a variety of opportunities to investigate the materials that constitute and the processes that shape the earth. Classroom, laboratory, and field work provide a base for careers related to energy, the environment, and the exploration for and production of petroleum and mineral resources.

A departmental honors program is also available. Students should contact the department for additional information.

General Education Requirements	60
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Total required credit hours in Geology	40-42
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A. REQUIRED COURSES (28-30 cr.)

GES 101	Introductory Geology
or	
GES 122	Principles of Earth Science
and	
GES 102	Historical Geology
GES 103	Introductory Geology Lab (1 cr.)
GES 301	Stratigraphy
GES 302	Invertebrate Paleontology
GES 304	The Common Rocks and Minerals
GES 308	Structural Geology
GES 401	Igneous and Metamorphic Petrology
Two semesters of physics (6-8 cr.)	

B. ELECTIVES SELECTED BY ADVISEMENT (12 cr.)

Credit will be allowed for any course in geology, astronomy, oceanography or atmospheric science.

Foreign Language Requirement (General Education)	0-12
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Electives	19-21
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Physical Education	2
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TOTAL REQUIREMENTS	123
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GEOSCIENCES (0737)

Offered by the Earth Sciences and Science Education Department
Bachelor of Science degree granted
(HEGIS 1917)

Dr. Robert E. Horvat, Chairperson
Science Building 271/878-6731

The geosciences program offers students the opportunity to develop a broad understanding of the earth as a dynamic, interacting system of land, sea, atmosphere, and solar system. The student, in consultation with a faculty adviser, will choose one of the four available concentrations at the completion of nine credit hours in the major. The geoscience concentrations, leading in somewhat different career directions, are (1) environmental geosciences, (2) earth sciences (advised for both secondary education earth science candidates and others), (3) geology, and (4) astronomy (a concentration since geoscience majors may not minor in astronomy).

A departmental honors program is also available. Students should contact the department for additional information.

General Education Requirements	60
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Total required credit hours in Geosciences	41-42
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A. REQUIRED COURSES (26 cr.)

GES 101	Introductory Geology
GES 102	Historical Geology
GES 103	Introductory Geology Laboratory
GES 111	General Oceanography
GES 131	Introductory Astronomy
GES 241	Meteorology
GES 304	The Common Rocks and Minerals
GES 307	Geomorphology
GES 308	Structural Geology
GES 495	Project - Oral Presentations (1 cr.)

B. CONCENTRATIONS (15-16 cr.)**1. Environmental Geosciences Concentration**

GES 223	Environmental Earth Science
GES 404	Field Geology
GES 409	Fluvial Geomorphology
GES 421	Dynamics of Sedimentation

GES upper-level or approved science elective, such as SCI 340 or ENS 410
Students in the Environmental concentration should consider completing the environmental sciences minor. Chemistry 111-112 is strongly advised.

2. Earth Sciences Concentration

GES 302	Invertebrate Paleontology
GES 33*	Astronomy Elective
GES 405	Geology of North America

GES upper-level or approved science electives (6 cr.)

Students pursuing the option to gain earth science and general science certifications (7-12) for junior/senior high school teaching, must also complete other professional requirements. See Earth Science 7-12 (Secondary Education) program in this catalog.

3. Geology Concentration

GES 301	Stratigraphy
GES 302	Invertebrate Paleontology
GES 401	Igneous & Metamorphic Petrology
GES 404	Field Geology
GES 421	Dynamics of Sedimentation
GES 495	Project - Writing a Scientific Proposal (1 cr.)

Students contemplating graduate study are advised that Chemistry 111-112, Mathematics 126-127 (Calculus), and Physics 111-112 are essential to a modern geology (or related) program. These sequences should begin before the graduate school decision is made, since they take time, and since not taking them limits a student's future options.

4. Astronomy Concentration

Five courses selected from:

GES 331	Modern Solar System Astronomy
GES 332	Stellar and Galactic Astronomy
GES 335	Methods of Observational Astronomy
GES 337/SCI 337	Astronomy and the Astronomers to 1750
GES 338/SCI 338	Astronomy and the Astronomers from 1750 to the Present
GES 339	Astronomy and Cosmology
GES 431	Planetarium Seminar

Electives	19-20
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Physical Education	2
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TOTAL REQUIREMENTS	123
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HISTORY (0716)

Offered by the History and Social Studies
Education Department
Bachelor of Arts degree granted
(HEGIS 2205)

Dr. Monroe Fordham, Chairperson
Classroom Building C205/878-5412

The program ensures both a knowledge and an understanding of the foundations of the development of humankind, stimulates thinking about interaction of ideas, develops facility with written and verbal expression, increases confidence in articulating ideas, and encourages the critical awareness of self so important to an educated individual.

A departmental honors program is also available. Students should contact the department for additional information.

General Education Requirements 60

*Total required credit hours in History	36
Two basic American history courses	6
Two basic European history courses	6
Two Third World history courses	6
Five upper division history courses	15
Seminar in history	3

Foreign Language Requirement (0-12 General-Liberal Credit)

Electives	25
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Physical Education	2
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TOTAL REQUIREMENTS 123

*History majors entering Buffalo State in the fall of 1985 semester or thereafter may count only two of the HIS 300 or HIS 389 topics courses toward the fulfillment of their history major requirements. No restriction on HIS 300 or HIS 389 topics courses taken as electives.

HUMANITIES (0717)

Offered by the Dean, Faculty of
Arts and Humanities
Bachelor of Arts degree granted
(HEGIS 4903)

Dean's Office
Rockwell Hall 222/878-6326

Humanities is an interdisciplinary program which provides students with a broad liberal arts education and ample opportunity to pursue their own interests.

General Education Requirements 60

Total required credit hours in Humanities	36
Two courses in philosophy	6
Three courses in English	9
Two courses in foreign language	6
Five electives in humanities (philosophy, English and/or foreign language)	15

Foreign Language Requirement 0-12

Electives	13-25
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Physical Education	2
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TOTAL REQUIREMENTS 123

INDUSTRIAL TECHNOLOGY (0810)

Offered by the Technology Department
Bachelor of Science degree granted
(HEGIS 0925)

Dr. Charles A. Beasley, Chairperson
Upton Hall 315/878-6017

The industrial technology program prepares students for technically oriented management positions in business and industry. It draws upon the principles of management, physical sciences, technology of industry, and liberal arts for the solution of problems involving industrial processes, materials, products and services, and the supervision of the personnel involved. Position titles of graduates include industrial engineer, quality control, production and management engineering, and technical sales/marketing.

Special Admission Requirements:

Although this program is primarily a transfer program for student with an A.A.S. in the technologies, freshmen and sophomores are also admitted. Students may wish to gain teaching certification in addition to industrial qualification by completing the 21-credit professional sequence as shown in the technology education program entry in this catalog.

General Education Requirements 60

Total required credit hours in Industrial Technology 42

A. TECHNOLOGY CORE COURSES (33 cr.)

TEC 101	Technical Drawing
TEC 201	Materials Processing
TEC 311	Materials Science and Testing
TEC 312	Production Planning and Control
TEC 314	Electro-Mechanical Systems
TEC 350	Graphic Communications
TEC 351	Energy Systems
TEC 400	Marketing
TEC 401	Management Science
TEC 402	Ergonomics
TEC 405	Manufacturing Technology

B. REMAINING CORE COURSES FOR INDUSTRIAL TECHNOLOGY (9 cr.)

TEC 313	Statistical Quality Control
TEC 403	Systems Analysis
TEC 465	Safety Management

Electives	19
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Physical Education	2
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TOTAL REQUIREMENTS 123

ITALIAN (Language and Literature) (0711)

Offered by the Foreign Language Department
Bachelor of Arts degree granted
(HEGIS 1104)

Dr. Michael Johnson, Chairperson
Bishop Hall 126/878-5414

The program is designed to develop the ability to communicate in Italian and to introduce students to the masterpieces of the literature of Italy and the most significant aspects of its culture. Students are encouraged, but not required, to study in Italy for a semester in an approved program. Italian majors may prepare for secondary education certification by fulfilling the professional requirements listed under the French and Spanish bachelor of science (secondary education) programs.

General Education Requirements 60

Total required credit hours in Italian 36

A. REQUIRED COURSES (18 cr.)

ITA 201-202	Intermediate Italian
ITA 301-302	Italian Conversation and Composition
ITA 307-308	Survey of Italian Literature

B. ELECTIVES SELECTED BY ADVISEMENT (18 cr.)*

ITA 306	Contemporary Italian Civilization
ITA 401	Dante's Divina Commedia
ITA 406	Nineteenth-Century Italian Literature
ITA 410	Modern Italian Literature
ITA 450	Directed Readings I
ITA 451	Directed Readings II
ITA 499	Independent Study

*Six hours may be selected by advisement in courses with direct relationship to Italian studies.

Electives	25
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Physical Education	2
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TOTAL REQUIREMENTS 123

JOURNALISM (0708)

Offered by the Communication Department
Bachelor of Arts degree granted
(HEGIS 0605)

Dr. W. Richard Whitaker, Chairperson
Bishop Hall 234/878-6008

The journalism program offers two emphases: news/editorial, and broadcast news writing. The program is a mix of practical experience and relevant theory. It is tied closely to the professional community and emphasizes realistic and in-the-field experience. Preparation for careers is provided.

A departmental honors program is also available. Students should contact the department for additional information.

General Education Requirements60

Total required credit hours in Journalism33

A. REQUIRED COURSES (24 or 27 cr.)

- COM 100 Introduction to Mass Communication
- COM 101 Writing for the Print Media
- COM 203 Writing for Publication
(not required for broadcast news writing emphasis)

To enter the journalism major, students must have satisfactorily completed ENG 101 and 102 or equivalent, earned a grade of "C" or better in COM 100, and compiled a cumulative grade point average of 2.6 in the above three courses.

- COM 302 Interviewing
- COM 305 News Reporting
- COM 319 News Editing
- COM 400 Law of Mass Communication

Choose ONE of the following:

- COM 401 Communication Theory
- COM 402 Visual and Oral Communication
- COM 410 History of Mass Communication

Choose ONE of the following:

- COM 415 Advanced Reporting
- COM 488 Internship

B. ELECTIVES SELECTED BY ADVISEMENT (6 or 9 cr.)

(Two or three courses selected from among the department's professional courses.)

Foreign Language Requirement0-12

Electives16-28

Physical Education2

TOTAL REQUIREMENTS123

MATHEMATICS (0718)

Offered by the Mathematics Department
Bachelor of Arts degree granted
(HEGIS 1701)

James E. Westrope, Chairperson
Bishop Hall 309/878-5621

This program is identical to the mathematics B.S. program (0719) except for the language requirement.

Special Admission Requirements: High school mathematics through Regents Course III is recommended.

General Education Requirements60

Total required credit hours in Mathematics39

A. REQUIRED COURSES (24 cr.)

- MAT 161 Calculus I
- MAT 162 Calculus II
- MAT 263 Calculus III
- MAT 141 Computer Mathematics I
- MAT 270 Discrete Mathematics
- MAT 202 Linear Algebra
- MAT 301 Fundamentals of Abstract Algebra
- MAT 381 Probability

B. ELECTIVES SELECTED BY ADVISEMENT (15 cr.)

Choose 15 credits from the following list:

- MAT 366 Computer Mathematics II
- MAT 302 Algebra II
- MAT 315 Differential Equations
- MAT 316 Intermediate Differential Equations
- MAT 370 Applied Networks
- MAT 382 Mathematical Statistics
- MAT 404 Applications of Linear Algebra
- MAT 411 Complex Variables
- MAT 417 Introduction to Real Analysis I
- MAT 461 Numerical Analysis
- MAT 490 Seminar

Foreign Language Requirement12

Electives10

Physical Education2

TOTAL REQUIREMENTS123

MATHEMATICS (0719)

Offered by the Mathematics Department
Bachelor of Science degree granted
(HEGIS 1701)

James E. Westrope, Chairperson
Bishop Hall 309/878-5621

The mathematics B.S. program in the mathematical sciences is directed toward a specific career goal for computer-related government, industrial or business employment. It may also provide a basis for entry into graduate school in mathematics or computer science.

Special Admission Requirements: High school mathematics through Regents Course III is recommended.

General Education Requirements	60
Total required credit hours in Mathematics	39

A. REQUIRED COURSES (24 cr.)

MAT 161	Calculus I
MAT 162	Calculus II
MAT 263	Calculus III
MAT 141	Computer Mathematics I
MAT 270	Discrete Math
MAT 202	Linear Algebra
MAT 301	Fundamentals of Abstract Algebra
MAT 381	Probability

B. ELECTIVES (15 cr.)

Choose 15 credits from the following list:

MAT 366	Computer Mathematics II
MAT 302	Algebra II
MAT 315	Differential Equations
MAT 316	Intermediate Differential Equations
MAT 370	Applied Networks
MAT 382	Mathematical Statistics
MAT 404	Applications of Linear Algebra
MAT 411	Complex Variables
MAT 417	Introduction to Real Analysis I
MAT 461	Numerical Analysis
MAT 490	Seminar

Electives	22
Physical Education	2
TOTAL REQUIREMENTS	123

MATHEMATICS 7-12 (Secondary Education) (0721)

Offered by the Mathematics Department
Bachelor of Science degree granted
(HEGIS 1701)

James E. Westrope, Chairperson
Bishop Hall 309/878-5621

The mathematics B.S. program in secondary education is directed to the specific career goal of teaching. For certification in New York state, the certification program is also required.

Special Admission Requirements: High school mathematics through Regents Course III is recommended.

Certification Program in Mathematics Education: Provisional certification to teach mathematics in grades 7-12 will be awarded upon successful completion of the

General Education Requirements	60
Total required credit hours in Mathematics	36

A. REQUIRED COURSES (27 cr.)

MAT 161	Calculus I
MAT 162	Calculus II
MAT 141	Computer Mathematics I
MAT 270	Discrete Mathematics
MAT 263	Calculus III
MAT 202	Linear Algebra or MAT 301
	Fundamentals of Abstract Algebra
MAT 322	Modern Geometry
MAT 381	Probability

B. ELECTIVES (12 cr.)

Choose 12 credits from the following list:

MAT 202	Linear Algebra
MAT 301	Fundamentals of Abstract Algebra
MAT 302	Algebra II

following requirements:

1. B.S. or B.A. degree (not necessarily in mathematics).
2. Successful completion of the mathematics component secondary education (36 cr.) of the bachelor of science in mathematics degree program (0721).
3. Successful completion of the following professional requirements (30 cr.):

A. Required Courses (15 cr.)

SST/SED 200	Field Experience: Secondary Education and Related Careers
EDF/SED 303	Educational Psychology
EDF/SED 403	Historical and Philosophical Forces Influencing Secondary Education
MED 383	Learning and Teaching Problem Solving
MED/SED 308	Methods in the Teaching of Secondary School Mathematics

B. Electives (3 cr.)

Choose one course from the following list:
MED/SED 307 Uses of Technical Aids
in the Teaching of
Mathematics

MAT 315	Differential Equations
MAT 351	Number Theory
MAT 366	Computer Mathematics II
MAT 370	Applied Networks
MAT 382	Mathematical Statistics
MAT 404	Applications of Linear Algebra
MAT 411	Complex Variables
MAT 417	Introduction to Real Analysis I
MAT 461	Numerical Analysis
MAT 490	Seminar

Electives	25
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Physical Education	2
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TOTAL REQUIREMENTS	123
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The above qualifies a student for the B.S. in mathematics but not for teacher certification. To obtain provisional certification to teach mathematics in grades 7-12, see certification program requirements.

EDF 321	The Teacher as Drug Educator	C. Student Teaching (12 cr.)
EDF 346	Teenage Sexuality	MED/SED 407 Student Teaching of Mathematics in Junior
EDF 353	Human Development	High/Middle School
	During Early Adolescence	MED/SED 408 Student Teaching of Mathematics in Senior High
EDF 410	Philosophy of Education	
EDF 412	Comparative Education	4. One year of college-level study of a foreign language or equivalent (0-6 cr.).

MUSIC (0125)

Offered by the Performing Arts Department
Bachelor of Arts degree granted
(HEGIS 1005)

Myron H. Nadel, Chairperson
Rockwell Hall 203/878-6401

The music major is a liberal arts program which provides students with the broad knowledge and skills to enjoy a lifetime of music, integrate music into a career, and, in some cases, perform as a vocalist or instrumentalist. The discipline of music is studied through classical and creative methods in a series of courses called Comprehensive Musicianship which provides the foundations for contemporary and commercial music. Guests residencies of the Amherst Saxophone Quartet and the Maelstrom Percussion Ensemble enhance the student's exposure to professional musicians.

(Continued)

General Education Requirements	60
Total required credit hours in Music	42

A. REQUIRED COURSES (31 cr.)

MUS 130	Comprehensive Musicianship I
MUS 131	Comprehensive Musicianship II
MUS 140	Ethnomusicology
MUS 230	Comprehensive Musicianship III
MUS 231	Comprehensive Musicianship IV
MUS 330	Comprehensive Musicianship V
MUS 331	Comprehensive Musicianship VI

Applied Music — 171, 173, 271, 273, 371, 373 Individual lessons in instrumental or vocal music, membership in and successful completion of all rehearsals and performances of at least one assigned, faculty-directed ensemble, and graded performance before a faculty jury is required of all music majors each semester.

B. ELECTIVES (selected by advisement) (11 cr.)

Foreign Language Requirement	0-12
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Electives	7-19
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Physical Education	2
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TOTAL REQUIREMENTS	123
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Music
(Continued)

Admission to the major: Students should contact the Performing Arts chairperson for career counseling and audition.

Continuation in the major:

1. The current semester's and cumulative grade point average of at least 2.5 in all required courses and music electives.

2. Successful completion of rehearsal, performance, and jury obligations and MUS 373 by the end of semester six.

Note: A 21-credit music minor emphasizing tracks in performance, theory, and composition, or academic enhancement is available. Contact the Performing Arts Department for information.

PHILOSOPHY (0720)

Offered by the Philosophy and Religious Studies Department
Bachelor of Arts degree granted
(HEGIS 1509)

Dr. George T. Hole, Chairperson
Bishop Hall 217/878-5136

The bachelor of arts in philosophy is basic to a well-rounded liberal arts education, especially in its emphasis on careful and critical thinking. It challenges students to examine their societal and personal beliefs and values so that their life's philosophy is more creatively and responsibly chosen. It is a solid preparation for law school and other specializations requiring a liberal arts background as well as for graduate school in philosophy. The department also offers a minor in religious studies which deepens students' understanding of various religious traditions and their own religious choices.

A departmental honors program is also available. Students should contact the department for additional information.

General Education Requirements 60**Total required credit hours in Philosophy** 27**A. REQUIRED COURSES (9 cr.)**

- PHI 103 Introduction to Logic
or
PHI 307 Beginning Symbolic Logic
PHI 317 History of Philosophy I: The Greeks
PHI 318 History of Philosophy II: 17th & 18th Century

B. ELECTIVES IN MAJOR FIELD (18 cr.)

- PHI 101 Introduction to Philosophy
PHI 102 Introduction to Moral and Social Philosophy
PHI 104 Introduction to the Study of Religion
PHI 105 Introduction to Christian Thought
PHI 121 Introduction to Jewish Thought
PHI 201 The Philosophies of Capitalism, Socialism, and Democracy
PHI 204 Philosophy of Religion
PHI 205 Introduction to the Old Testament
PHI 206 Introduction to the New Testament
PHI 207 Philosophy in Literature
PHI 208 Women and Religion
PHI 210 Existentialism
PHI 300 Problems of Philosophy
PHI 301 Political Philosophy
PHI 302 Philosophy of Art and Beauty
PHI 304 Philosophy of Law
PHI 305 Analytic Philosophy I: Philosophy of Language
PHI 306 Writings of John
PHI 308 Philosophy of Love and Sex
PHI 309 Knowledge and Truth
PHI 310 History of Ethics
PHI 312 Analytic Philosophy II: Philosophy of Mind
PHI 314 Contemporary Ethical Theories
PHI 315 Early Modern Philosophy
PHI 319 Medieval Philosophy
PHI 321 World Religions
PHI 323 Moral Issues
PHI 324 Zen Buddhism
PHI 325 Philosophy of Future Man
PHI 327 Aesthetics and the Arts
PHI 328 Business and Ethics

- PHI 329 Contemporary Christian Thought
PHI/ Religion and Media
COM 331
PHI 332 Mysticism
PHI 350 Holocaust
PHI 401 Problem in Philosophy Seminar
PHI 402 Seminar in the History of Philosophy
PHI 488 Internship
PHI 495 Project
PHI 499 Independent Study

Foreign Language Requirement 0-12

Electives 22-34

Physical Education 2

TOTAL REQUIREMENTS 123

PHYSICS (0728)

Offered by the Physics Department
Bachelor of Arts degree granted
(HEGIS 1902)

Dr. James Wells, Chairperson
Science Building 271/878-6731

The B.A. in physics program provides a good concentration in physics courses and a broad distribution in the liberal arts. Designed for technical or technically related graduate school studies or employment.

General Education Requirements 60**Total required credit hours in Physics** 35**A. REQUIRED COURSES (30 cr.)**

- PHY 111-112 University Physics I-II (or equivalent)
PHY 305 Modern Atomic Physics
PHY 320 Introduction to Theoretical Physics
PHY 406 Introduction to Quantum Mechanics
PHY 410 Advanced Physics Laboratory (taken twice)
PHY 425 Classical Mechanics
PHY 430 Electricity and Magnetism

B. ELECTIVES SELECTED BY ADVISEMENT (5 cr.)

- PHY 213 University Physics III
PHY 303 Heat and Thermodynamics
PHY 308 Optics
PHY 310 Intermediate Laboratory
PHY 325 Electronics
PHY 403 X-rays
PHY 408 Nuclear Physics
PHY 411 Introduction to Solid State Physics
PHY 412 Physics Seminar
PHY 495 Project
PHY 499 Independent Study

Total required credit hours outside of major 9

- MAT 161 Analytic Geometry and Calculus I
MAT 162 Analytic Geometry and Calculus II
MAT 263 Analytic Geometry and Calculus III

Foreign Language Requirement (0-12 general education credit) 0-12

Electives 0-12

Physical Education 2

TOTAL REQUIREMENTS 123

PHYSICS (0778)

Offered by the Physics Department
Bachelor of Science degree granted
(HEGIS 1902)

Dr. James Wells, Chairperson
Science Building 271/878-6731

The B.S. physics program gives a broad background in the fundamental concepts and applications of physics. This background is appropriate for graduate school, or scientific employment in physics or physics-related fields.

A departmental honors program is also available. Students should contact the department for additional information.

General Education Requirements60

Total required credit hours in Physics42

A. REQUIRED COURSES

PHY 112-112-213 University Physics I-III (11 cr.)

PHY 303 Heat and Thermodynamics

PHY 305 Modern Atomic Physics

PHY 308 Optics

PHY 320 Introduction to Theoretical Physics

PHY 325 Electronics

PHY 406 Introduction to Quantum Mechanics

PHY 410 Advanced Physics Laboratory (taken twice)

PHY 425 Classical Mechanics

PHY 430 Electricity and Magnetism

B. ELECTIVES IN PHYSICS OR MATHEMATICS (0 cr.)

None required. However, additional courses may be selected with advisement to reflect student career goals.

Total required credit hours outside of major12

MAT 161 Analytic Geometry and Calculus I

MAT 162 Analytic Geometry and Calculus II

MAT 263 Analytic Geometry and Calculus III

MAT 315 Differential Equations

Electives7

Physical Education2

TOTAL REQUIREMENTS123

PHYSICS 7-12 (Secondary Education) (0634)

Offered by the Physics Department
Bachelor of Science (Secondary Education)
degree granted
(HEGIS 1902) NCATE Accredited

Dr. James Wells, Chairperson
Science Building 271/878-6731

The secondary education physics program leads to a New York state Certificate of Qualification for teaching both physics and general science in grades 7-12.

General Education Requirements60

Total required credit hours in Physics32

PHY 111, 112, 213 University Physics I, II, III (11)

PHY 303 Thermodynamics (3)

PHY 305 Modern Atomic Physics (4)

PHY 320 Theoretical Physics (4)

PHY 325 Electronics (3)

PHY 410 Advanced Laboratory (2)

Physics Electives - 5 hrs. by advisement

Total required credit hours in Professional Education*18

SST 200 Field Experience: Secondary Education (3)

EDF 303 Educational Psychology (3)

EDF 403 Forces in Secondary Education (3)

EDU 416 Teaching Reading in Secondary Schools (3)

SED 307 Techniques for Teaching Laboratory Activities in Secondary Schools (3)

SED 308 Methods and Materials in Teaching Secondary Science (3)

Total required credit hours for Student Teaching Experience12

SED 408 Student Teaching of Science in the Secondary School

Total required credit hours outside of major*36-40

A. 1 year (or equivalent) of foreign language (6)

B. Mathematics (12)

MAT 161 Calculus I (3)

MAT 162 Calculus II (3)

MAT 263 Calculus III (3)

MAT 315 Differential Equations (3)

C. General Science Certification (18-22)

1 year chemistry (6-8)

1 year biology (6-8)

1 year earth science (6)

Physical Education2

TOTAL REQUIREMENTS123

*Some hours may be included in 60-hour General Education Requirement.

"THREE-TWO" PHYSICS-ENGINEERING PROGRAM

Offered by the Physics Department
Bachelor of Science from Buffalo State and
Bachelor of Science in Engineering from a coop-
erating engineering school are granted upon
completion of the five-year program

Dr. James Wells, Chairperson
Science Building 271/878-6731

This program offers an ideal combination of basic and applied science. Students in the cooperative (3-2) physics-engineering program attend the college for three years pursuing a liberal arts curriculum in physics. After three years, students transfer to the engineering school and complete the requirements for an engineering degree in two more years.

Students electing this program will complete most requirements of the B.S. degree (0778) program, depending on the engineering school and discipline. The cooperating schools are:

—SUNY at Binghamton: electrical and computer engineering; mechanical engineering

—SUNY at Buffalo: aerospace engineering; civil engineering; electrical and computer engineering; industrial engineering; mechanical engineering

—Clarkson University: chemical engineering; civil and environmental engineering; electrical and computer engineering; mechanical engineering

See department chairperson for further information.

POLITICAL SCIENCE (0722)

Offered by the Political Science Department
Bachelor of Arts degree granted
(HEGIS 2207)

Dr. Abdul H. Raoof, Chairperson
Classroom Building B218/878-6116

Political science is the study of government and politics. The major is divided into four areas: American politics, international politics, comparative politics, and political theory. A variety of courses are offered in each of these areas. Minors are offered in both public administration and political science. Students gain understanding of government and politics through a combination of theoretical analysis and practical experience, interning in national, state, or local government or in the Washington Semester Program. Students are prepared for an array of career options in the public and private sectors. The department offers special advisement for graduate study, pre-law, and public administration.

General Education Requirements 60

Total required credit hours in Political Science 33
(18 of the 33 credits must be in 300- or 400-level courses)

A. REQUIRED COURSES (9 cr.)

- PSC 101 Introduction to Government and Politics
- PSC 102 Introduction to American Government
- PSC 300 Political Analysis

B. POLITICAL SCIENCE DISTRIBUTION REQUIREMENTS

American Government and Politics (3 cr.)

- PSC 210 American Presidency
- PSC 215 Urban Government
- PSC 218 African-American Political Culture
- PSC 220 Development of American Constitutional Law
- PSC 225 Women and American Politics
- PSC 310 American Politics and Political Parties
- PSC 311 Pressure Politics
- PSC 312 Legislative Process
- PSC 315 State and Local Government and Politics
- PSC 316 Urban Ethnic Politics
- PSC 320 U.S. Constitution and Civil Liberties
- PSC 325 Politics of Welfare
- PSC 326 Politics and Media
- PSC 327 Practical Politics
- PSC 360 Public Administration
- PSC 364 American Public Policy
- PSC 410 Political Behavior and Public Opinion
- PSC 420 Contemporary Issues in American Constitutional Law

International Relations (3 cr.)

- PSC 230 International Relations
- PSC 330 American Foreign Policy
- PSC 335 International Relations of the Middle East

Comparative Government (3 cr.)

- PSC 240 European Political Systems
- PSC 340 Politics of Developing Countries
- PSC 345 Politics and History of the Middle East
- PSC 348 Government and Politics of the Far East
- PSC 368 Comparative Public Administration
- PSC 370 Canadian Public Administration

Political Theory and Philosophy (3 cr.)

- PSC 350 Introduction to Legal Thought
- PSC 351 Political Thought: Plato to Aquinas
- PSC 352 Political Thought: Machiavelli to Marx
- PSC 355 American Political Thought
- PSC 450 Contemporary Political Thought

C. GENERAL ELECTIVES IN POLITICAL SCIENCE (12 cr.)

- PSC 103 Great Political Issues
- PSC 306 Politics of Energy
- PSC 307 Political Alienation
- PSC 309 Politics of International Business
- PSC 389 Topics in Political Science
- PSC 470 Honors Seminar (Pol. Sci. Junior and Senior with 3.00 only)
- PSC 497 Washington Semester Program

Foreign Language Requirement (General Education) 0-12

Electives 28

Physical Education 2

TOTAL REQUIREMENTS 123

PSYCHOLOGY (0723)

Offered by the Psychology Department
Bachelor of Arts degree granted
(HEGIS 2001)

Dr. Jerry F. Cataldo, Chairperson
Classroom Building C312/878-6215

Students in the B.A. program receive a broad and comprehensive background in the science of psychology, which will qualify them to seek entry to graduate or professional schools or to apply for jobs that require a liberal arts training. The department's approach is both theoretical and empirical at all levels. The broad content areas represented include learning, perception, life-span development and aging, animal behavior, industrial-organizational psychology, social processes, and normal and abnormal behavior.

General Education Requirements 60

Total required credit hours in Psychology 33

A. REQUIRED COURSES (12 cr.)

PSY 101	Introduction to Psychology
PSY 306	Statistics in Psychological Research
PSY 450	Experimental Psychology I
PSY 472	Seminar on Psychology

B. ELECTIVES SELECTED BY ADVISEMENT (21 cr.)

Three 400-level psychology courses excluding the above required courses and excluding PSY 488-499 (9 cr.)
An additional 12 hours of Psychology must be taken, with no more than six hours from PSY 205, PSY 380-399, PSY 488-499 (12 cr.)

Foreign Language Requirement (General Education) 0-12

All College Electives 28

Physical Education 2

TOTAL REQUIREMENTS 123

PSYCHOLOGY (0724)

Offered by the Psychology Department
Bachelor of Science degree granted
(HEGIS 2001)

Dr. Jerry F. Cataldo, Chairperson
Classroom Building C312/878-6215

A specialized B.S. degree is offered in the following areas: a) biological psychology; b) clinical psychology; c) environmental psychology; d) industrial/organizational psychology; e) psychology of aging; f) psychology of infancy. The B.S. program is designed for a very limited number of students who seek an intensive preparation in one of the above areas. Emphasis is placed upon intensive practicum work and independent study. Students have the opportunity to work closely with a faculty mentor.

Admission Steps:

1. The student must be enrolled in the B.A. degree program before he or she can apply to the B.S. program.

2. The student must be sponsored by an individual faculty member in the specific

(Continued)

General Education Requirements 60

Total required credit hours for specialized B.S. degree in Psychology 36-42

A. REQUIRED COURSES (15 cr.)

PSY 101	Introduction to Psychology
PSY 306	Statistics in Psychological Research
PSY 450	Experimental Psychology I
PSY 472	Seminar on Psychology
PSY 499	Independent Study or
PSY 495	Project or
PSY 488	Internship

In addition, students are required to complete one of the following areas of specialization. (21-27 cr.) Note that at least two courses for each specialization must be at the 400 level (excluding the courses listed above).

Psychology (Continued)

B.S. area. The student must be able to complete at least one academic year of supervised work in the B.S. program before graduation.

3. All students sponsored for the B.S. programs must be accepted by the Psychology Department.

4. A student applying for the B.S. must have received at least a grade of B in the first course of the required sequence of B.S. courses.

5. A student applying for the B.S. must be in good academic standing at the college.

Biological Psychology (27 cr.)

PSY 304	Psychology of Learning
PSY 308	Basic Concepts of Perception
PSY 321	Comparative Animal Behavior
PSY 421	Physiological Psychology
PSY 441	Introduction to Neuropsychology
or	
PSY 386	Psychology of Stress, Coping and Health

Elective courses selected by advisement (12 cr.)

Clinical Psychology (27 cr.)

PSY 311	Personality: Theory and Research
PSY 411	Abnormal Psychology
PSY 480	Psychotherapy: Theory, Research and Procedures
PSY 481	Psychological Tests and Measurements

Elective courses selected by advisement (15 cr.)

Environmental Psychology (24 cr.)

PSY 370	Environmental Psychology I
PSY 470	Environmental Psychology II

Elective courses selected by advisement (18 cr.)

Industrial/Organizational Psychology (24 cr.)

PSY 365	Industrial Psychology
PSY 367	Behavior in Organizations
PSY 466	Personnel Psychology

Elective courses selected by advisement (15 cr.)

Psychology of Aging (21 cr.)

PSY 327	Adult Development and Aging I
PSY 355	Life-Span Developmental Psychology
PSY 427	Adult Development and Aging II

Elective courses selected by advisement (12 cr.)

Psychology of Infancy (21 cr.)

PSY 355	Life-Span Developmental Psychology
PSY 415	Competent Infant
PSY 417	The Atypical Infant

Elective courses selected by advisement (12 cr.)

B. ALL COLLEGE ELECTIVES (19-25 cr.)

Biological Psychology	19
Clinical Psychology	19
Environmental Psychology	22
Industrial/Organizational Psychology	22
Psychology of Aging	25
Psychology of Infancy	25

Physical Education 2

TOTAL REQUIREMENTS 123

HONORS IN PSYCHOLOGY

Offered by the Psychology Department
Bachelor of Arts or Bachelor of Science with
Honors degree granted
(HEGIS 2001)

Dr. Jerry F. Cataldo, Chairperson
Classroom Building C312/878-6215

Departmental honors is for students who are performing exceptionally well in their courses. The honors designation is an adjunct to either the B.A. or B.S. degree with an added emphasis on independent work, and requires that students conduct a comprehensive original research project on their own.

Special Admission Requirements: A 3.5 cumulative average in psychology with a minimum of 24 hours in psychology taken at Buffalo State. (Transferred courses will be considered for credit toward a student's psychology requirements, but the grades from these courses will not be used in computing the cumulative average.) A 3.25 cumulative average in all courses taken at Buffalo State is also a requirement.

General Education Requirements 60

Total required credit hours in Psychology:

B.A. degree	36
B.S. degree	42

Biological Psychology	42
Clinical Psychology	42
Environmental Psychology	42
Industrial/Organizational Psychology	42
Psychology of Aging	42
Psychology of Infancy	42

In addition to the required courses in either the B.A. or B.S. degree programs students must take:
PSY 496 Honors Thesis I 3
PSY 498 Honors Thesis II 3

A 36-hour sequence of courses is required if a student is enrolled in the B.A. degree in psychology. This requirement is identical to that of the B.A. degree except that PSY 496 may be used as a psychology elective and PSY 498 is an additional required course. A 42-hour sequence of courses is required if a student is enrolled in the B.S. degree in psychology. For these students both PSY 496 and PSY 498 are also required, and may be substituted where applicable for an elective course in these programs.

All College Electives (depending on B.A. or B.S. degree) 19-25

Foreign Language Requirement 0-12 (for B.A. program)

Physical Education 2

TOTAL REQUIREMENTS 123

PUBLIC COMMUNICATION (0703)

Offered by the Communication Department
Bachelor of Arts degree granted
(HEGIS 0699)

Dr. W. Richard Whitaker, Chairperson
Bishop Hall 234/878-6008

The public communication major is designed to prepare students for the changing role of public relations in both the private and public sectors of society, where written and spoken communication skills will be required and the understanding of group dynamics is important. Under this program, students will take courses in written and oral communication, specialized courses in public relations and advertising, and optional courses which permit the completion of a program which complements individual career goals.

A departmental honors program is also available. Students should contact the department for additional information.

General Education Requirements 60

Total required credit hours in Public Communication 39

A. REQUIRED COURSES (30 cr.)

COM 100	Introduction to Mass Communication
COM 101	Writing for the Media
COM 205	Experiences in Speech

To enter the public communication major, students must have satisfactorily completed ENG 101 and 102 or equivalent, and have earned a grade of "C" or better with a cumulative grade point average of 2.6 in the above three core courses.

COM 301	Public Relations/Advertising
COM 306	Public Speaking
COM 307	Communication and Group Process
COM 308	Public Relations Writing
COM 322	Layout and Graphics
COM 402	Oral and Visual Communication
COM 418	Principles of Publicity and Copywriting

B. ELECTIVES SELECTED BY ADVISEMENT (9 cr.)

Three courses from those listed below or COM courses approved by department.

COM 201	Broadcast Copywriting
COM 203	Writing for Publication
COM 302	Interviewing
COM 309	Persuasive Speaking
COM 319	Editing
COM 325	Magazine Article Writing
COM 400	Mass Communication Law
	or
COM 430	Broadcast Law
COM 407	Organizational Communication
COM 408	Public Relations Case Studies
COM 422	Mass Media Criticism
COM 488	Internship in Public Communication

Foreign Language Requirement 0-12

Electives 10-22

Physical Education 2

TOTAL REQUIREMENTS 123

SOCIAL STUDIES EDUCATION (0640)

Offered by the History and Social Studies Education Department
Bachelor of Science degree granted
(HEGIS 2201) NCATE Accredited

Dr. Monroe Fordham, Chairperson
Classroom Building C205/878-5412

The social studies education program prepares students for teaching positions at the junior and senior high school levels in those courses that make up the social studies curriculum. The program emphasizes both theoretical foundations and practical experience.

Special Admission Requirements:
Students should contact the coordinator of social studies education, Dr. Donald Hetzner, Classroom Building C216, 878-6139, for admission requirements.

Admission to secondary social studies major: Minimum 2.5 cumulative GPA; minimum 2.5 GPA in history and social science courses.

Prerequisites for student teaching: See prerequisites for SED 408.

General Education Requirements60

Total required credit hours in Social Sciences30

Basic U.S. History	6
Basic European History	6
SST 102	6
Social Science	3
Upper Division Social Science	3
Upper Division Social Science Concentration	3
Social Science Seminar	9

Total required credit hours in Professional Education18

SED 200	Field Experience: Secondary Education	3
EDF 303	Educational Psychology	3
EDF 403	Historical and Philosophical Forces Influencing Secondary Education	3
EDU 416	Teaching Reading in Secondary Schools	3
SED 307	Techniques for Teaching Social Studies in the Secondary Classroom	3
SED 308	Methods and Materials in Teaching Secondary Social Studies	3

Total required credit hours in Student Teaching12

SED 408 Student Teaching of Social Studies in the Secondary Schools

Total required credit hours in other fields1

One year of college-level study of a foreign language or equivalent

Electives1

Physical Education2

TOTAL REQUIREMENTS123

SOCIAL WORK (0435)

Offered by the Social Work Department
Bachelor of Science degree granted
(HEGIS 2104)

Ellen T. Kennedy, Chairperson
Classroom Building C115/878-5705

The social work program prepares students for social work practice at the first professional level and is accredited by the Council on Social Work Education. Consistent with accreditation standards, the social work courses are in the following areas: human behavior in the social environment, social welfare policy and services, intervention methods, research and field instruction.

Social work is an upper-level major that builds on a liberal arts base. (See list of recommended courses.) In addition to grade point average, academic evaluation

General Education Requirements60

The following courses are strongly recommended, to be completed prior to 300-level major courses:

ANT 101	PHI 102
ECO 101	PHI 103
HIS 107	PSC 102
CIS 101	SOC 100

BIO 100 or its equivalent is required for all majors.

Total required credit hours in Social Work42

SWK 105	Interpersonal Relations
SWK 220	Introduction to Social Work
SWK 307	Human Behavior and Social Environment I
SWK 308	Human Behavior and Social Environment II
SWK 317	Research in Social Work
SWK 319	Social Dynamics of Poverty
SWK 320	Organization of Community Services
SWK 419	Social Welfare Policy
SWK 422	Interventive Methods I

includes class performance as well as conduct that is ethical and professional. Interested students should contact the department for specific information on these academic standards.

Admission Requirements: Completion of a minimum of 30 credit hours with an overall GPA of 2.5 or better. Applications for the program are available in the department office.

SWK 423	Interventive Methods II
SWK 493-494	Field Instruction (12 hrs.)

Electives19

Physical Education2

TOTAL REQUIREMENTS123

SOCIOLOGY (0730)

Offered by the Sociology Department
Bachelor of Arts degree granted
(HEGIS 2208)

Dr. Rosalyn A. Lindner, Chairperson
Classroom Building B307/878-5411

Sociology is the study of human beings and their societies. The sociology program leads to a B.A. degree and is designed to provide students with a well-rounded and fundamental knowledge of the discipline. The program provides a foundation both for employment, particularly in social service related areas, as well as for further graduate study. Additionally, its individual courses form important components of other major programs at Buffalo State. The various subdivisions within the department are reflected in the several different concentrations which constitute sociology minors. For further information, contact the department office.

Special Requirements: Majors must enroll in SOC 300 before accumulating 75 hours to maintain status as a major.

General Education Requirements60

Total required credit hours in Sociology40

A. REQUIRED COURSES (22 cr.)

SOC 100	Introduction to Sociology
SOC 300	Methods in Social Research
SOC 301	Social Statistics
SOC 330	Social Psychology
or	
SOC 350	Power, Class and Inequality
SOC 400	Foundations of Sociological Thought or
SOC 408	Contemporary Sociology Theory
SOC 490	Seminar in Sociology

B. AT LEAST ONE COURSE FROM EACH OF THREE CLUSTERS (9 cr.)

Cluster One:	Social Institutions
SOC 320	Sociology of the Family
SOC 360	Sociology of Work
SOC 362	Sociology of Organizations
or	
SOC 323	Sociology of Education
Cluster Two:	Social Structure & Development
SOC 310	Sociology of Sex Roles
SOC 340	Sociology of the City
SOC 351	Sociology of Race and Ethnicity
or	
SOC 333	Social Movements

Cluster Three:	Deviance
SOC 380	Sociology of Crime
SOC 382	Sociology of Law
SOC 390	Juvenile Delinquency
or	
SOC 370	Sociology of Deviant Behavior

C. SOCIOLOGY ELECTIVES (9 cr.)

At least three additional courses in sociology.

Foreign Language Requirement0-12

Electives21

Physical Education2

TOTAL REQUIREMENTS123

SOCIOLOGY (0732)

Offered by the Sociology Department
Bachelor of Science degree granted
(HEGIS 2208)

Dr. Rosalyn A. Lindner, Chairperson
Classroom Building B307/878-5411

This B.S. degree program emphasizes applied sociology and prepares students to conduct and administer sociological research for external client organizations such as business and financial institutions, labor organizations, criminal justice units, government agencies, health-related organizations, and a host of social service agencies. The program rests upon a foundation of required core courses stressing research skills and sociological theory. The student selects one of two tracks, either in social structures, which emphasizes the development of applied computer skills, or social development, which requires internship experience in community agencies.

This program is designed for those students who wish to become involved in administering and conducting research for community agencies, groups, and organizations.

Special Requirements: Majors must enroll in SOC 300 before accumulating 75 hours to maintain status as a major.

General Education Requirements	60
Total required credit hours in Sociology	40

A. REQUIRED COURSES (22 cr.)

SOC 100	Introduction to Sociology
SOC 300	Methods of Social Research
SOC 301	Social Statistics
SOC 400	Foundations of Sociological Thought or
SOC 408	Contemporary Sociological Theory

Track 1: Social Development Required Courses

SOC 199	Social Science Computer Applications
SOC 350	Power, Class and Inequality
SOC 415	Population Analysis (Computer)

Track 2: Social Development Required Courses

SOC 330	Social Psychology
SOC 488	Internship in Sociology (6 hrs.)

B. SPECIALTY ELECTIVES (9 cr.)

Track 1: Social Structure (three of the following)

SOC 340	Sociology of the City
SOC 351	Sociology of Race and Ethnicity
SOC 361	Industrial Sociology
SOC 362	Sociology of Organizations
SOC 380	Sociology of Crime
SOC 382	Sociology of Law

Track 2: Social Development (three of the following)

SOC 310	Sociology of Sex Roles
SOC 320	Sociology of the Family
SOC 322	Sociology of Childhood and Youth
SOC 331	Sociology of Group Dynamics
SOC 360	Sociology of Work
SOC 370	Sociology of Deviant Behavior
SOC 390	Juvenile Delinquency

C. SOCIOLOGY ELECTIVES (9 cr.)

At least three additional courses in sociology.

Electives	21
Physical Education	2
TOTAL REQUIREMENTS	123

SPANISH (Language and Literature) (0714)

Offered by the Foreign Language Department
Bachelor of Arts degree granted
(HEGIS 1105)

Dr. Michael Johnson, Chairperson
Bishop Hall 126/878-5414

The program is designed to develop the ability to communicate in Spanish and to introduce students to the masterpieces of the literature of Spanish-speaking countries and the most significant aspects of Hispanic culture. Students are encouraged, but not required, to study in Spain or Latin America for a semester in an approved program.

General Education Requirements	60
Total required credit hours in Spanish	36

A. REQUIRED COURSES (15 cr.)

SPA 301-302	Spanish Conversation and Composition and either
SPA 306	Civilization of Spain and
SPA 307-308	Survey of Spanish Literature or
SPA 309	Civilization of Latin America and
SPA 310-311	Survey of Spanish-American Literature

B. ELECTIVES SELECTED BY ADVISEMENT (21 cr.)

(Courses at 300 level or higher)

Electives	25
Physical Education	2
TOTAL REQUIREMENTS	123

SPANISH 7-12 (Secondary Education) (0656)

Offered by the Foreign Language Department
Bachelor of Science (Education) degree granted
(HEGIS 1105) NCATE Accredited

Dr. Michael Johnson, Chairperson
Bishop Hall 126/878-5414

The Spanish - secondary education program enables students to earn provisional certification to teach Spanish in New York state secondary schools. Students develop Spanish language skills and study the structure and sound system of Spanish, the literature and culture of Spanish-speaking peoples, and, in the professional education component, the growth and role of the public school, adolescent development and psychology, and the teaching/learning of foreign languages in school settings. The curriculum includes a series of field experiences.

General Education Requirements	60
Total required credit hours in Spanish	36

A. REQUIRED COURSES (24 cr.)

SPA 301-302	Spanish Conversation and Composition
SPA 305	Spanish Phonetics
SPA 306	The Civilization of Spain
SPA 309	The Civilization of Latin America
SPA 415	Advanced Grammar and Composition and either
SPA 307-308	Survey of Spanish Literature or
SPA 310-311	Survey of Spanish-American Literature

B. ELECTIVES (12 cr.)

Spanish courses at the 300 or 400 level selected by advisement (may also include three to six credit hours for SPA 201/204 and/or SPA 202/205 earned by coursework or course challenge)

Total required credit hours in Professional Education

EXE 100 ¹	Nature and Needs of Individuals Who Are Exceptional
FLE/SED 200	Field Experience in Foreign Language Secondary Education
EDF 303 ¹	Educational Psychology
EDF 403	Historical and Philosophical Forces Influencing Secondary Education
EDU 416	Teaching Reading in Secondary Schools
FLE/SED 405	Methods and Materials for Teaching Foreign Languages in Secondary Schools

(Continued)

Spanish 7-12: Secondary Education
(Continued)

FLE/SED 406	Techniques for Teaching and Evaluating Foreign Languages in Middle and Secondary Schools
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Total required credit hours in Student Teaching 12²

FLE/SED 407	Student Teaching of Foreign Languages in Middle / Junior High Schools
FLE/SED 408	Student Teaching of Foreign Languages in Senior High Schools

Physical Education 2**TOTAL REQUIREMENTS** 12³

¹Will count as an elective for the GEE requirement: six hours total.

²Both 6-credit courses are required. Students must present evidence of passing the Communication Skills and General Knowledge sections of the NTE prior to student teaching.

³This total assumes appropriate placement on the audit sheet of the six hours of coursework noted above (¹) and meeting the all-college basic skills requirements (English composition and basic mathematics) without need of coursework.

Note: Full acceptance into this program occurs after the student has completed six hours of study in Spanish courses at Buffalo State with a GPA of 2.0.

SPEECH LANGUAGE PATHOLOGY and AUDIOLOGY (0322)

Offered by the Speech Language Pathology and Audiology Department
Bachelor of Science in Education:
Communication Disorders degree granted
(HEGIS 0815)

Dr. Dolores E. Battle, Acting Chairperson
Ketchum Hall 208/878-5719

The speech language pathology master's degree program is accredited by the Educational Standards Board of the American Speech-Language-Hearing Association. The undergraduate program prepares students for the provisional teaching certificate to be teachers of the speech and hearing handicapped. The undergraduate program is under revision. Students interested in this program should check with the department chairperson for current information.

The master's degree is necessary for the permanent teaching certificate as well as for the license to practice speech language pathology and for the Certificate of Clinical Competence (CCC) awarded by the

General Education Requirements 60**Total required credit hours in Speech Language Pathology and Audiology** 48

EXE 100	Nature and Needs of Individuals Who Are Exceptional
SLA 302	Clinical Phonetics
SLA 303	Language and Acquisition
SLA 304	Anatomy and Physiology of Speech and Hearing Mechanisms
SLA 306	Speech Pathology I
SLA 307	Speech Pathology II
SLA 312	Speech Acoustics and Perception
SLA 325	Clinical Practicum in Communication Disorders
SLA 405	Practicum in Speech and Hearing
SLA 411	Language Diagnosis and Remediation
SLA 414	Introduction to Audiology
SLA 415	Aural Rehabilitation
SLA 416	Stuttering
SLA 424	Organization and Administration of School Speech and Language Programs
SLA 425	Diagnosis of Communication Disorders

Electives Selected by Advisement 7

SLA 429	Clinical Activity (free elective)
PSY 306	Statistics in Psychological Research (GEE)

Total required credit hours in Professional Education 6

EDF 202	Child Development and Education
EDF 302	Educational Psychology and Elementary Education

Physical Education 2**TOTAL REQUIREMENTS** 123

American Speech-Language-Hearing Association. With teaching certification, graduates can be employed by schools to provide speech and language intervention to children from preschool through grade 12 who stutter or have hearing, voice, articulation, or language disorders. With the New York state license, graduates may be employed in hospitals, clinics, rehabilitation agencies, nursing homes, or may establish their own private practice.

Students must demonstrate proficiency in oral communication prior to enrollment in practicum courses. A minimum of 2.5 grade point average on previous college work is required for admission to the program.

TECHNOLOGY EDUCATION (0500)

Offered by the Technology Department
Bachelor of Science in Industrial Arts Education
degree granted
(HEGIS 0839) NCATE Accredited

Dr. Charles A. Beasley, Chairperson
Upton Hall 315/878-6017

Dr. Eugene C. Stafford, Coordinator
Upton Hall 128/314, 878-4413/6018

The technology education program prepares students to teach technology and the technological systems utilized in problem solving. The four systems emphasized are construction, manufacturing, communication, and transportation. The program is laboratory oriented, teaching the important role of engineering a product or service through selecting and systemizing knowledge for the solution of a problem. Graduates are recommended for a provisional certificate to teach technology education (formerly industrial arts) in grades K-12.

General Education Requirements 60**Total required credit hours in Technology Education** 63**A. TECHNOLOGY CORE COURSES (33 cr.)**

TEC 101	Technical Drawing
TEC 201	Materials Processing
TEC 311	Materials Science and Testing
TEC 312	Production Planning and Control
TEC 314	Electro-Mechanical Systems
TEC 350	Graphic Communications
TEC 351	Energy Systems
TEC 400	Marketing
TEC 401	Management Science
TEC 402	Ergonomics
TEC 405	Manufacturing Technology

B. PROFESSIONAL SEQUENCE (24 cr.)

OEC 301	Principles of Occupational Education	3
OEC 302	Curriculum and Evaluation in Occupational Education	3
EDF 303	Educational Psychology	3
TED 360	Technology Education Methods and Evaluation	3
TED 405	Professional Semester	12

C. TECHNOLOGY CORE ELECTIVES (6 cr.)**Physical Education** 2**TOTAL REQUIREMENTS** 125

THEATER (0115)

Offered by the Performing Arts Department
Bachelor of Arts degree granted
(HEGIS 1506)

Myron H. Nadel, Chairperson
Rockwell Hall 203/878-6401

The theater program introduces students to all aspects of theater art. The theater season includes both faculty- and student-directed productions presented in Upton Auditorium and in other campus and community settings. These productions are attended by members of both the college and the area community. High standards in this program afford a foundation for careers in professional as well as educational theater. Exceptional students may be granted undergraduate assistantships. A 19-credit minor program in theater is also available.

General Education Requirements	60
Total required credit hours in Theater	39
A. REQUIRED COURSES (33 cr.)	
THA 100, 101, 102 Play Reading	
THA 106 Introduction to Theater Arts	
THA 200 Voice and Diction	
THA 207 Play Production	
THA 226 Acting I	
THA 315 Period Styles for the Theater	
THA 317 History of Theater-Ancient to Renaissance	
THA 318 History of Theater-Renaissance to Modern	
COM 320 Oral Interpretation*	
THA 450 Directing	
THA 496 Seminar in Theater Arts	
*Alternative coursework in Script Analysis and Dramatic Literature is pending.	
B. ELECTIVES SELECTED BY ADVISEMENT (6 cr.)	
Electives in theater, dance, and music	
Foreign Language Requirement	0-12
Electives	10-21
Physical Education	2
TOTAL REQUIREMENTS	123

URBAN-REGIONAL ANALYSIS and PLANNING (0738)

Offered by the Geography and Planning
Department
Bachelor of Science degree granted
(HEGIS 2206)

Elbridge A. Renning Jr., Chairperson
Classroom Building A213/878-6216

Planning is a discipline concerned with effective change and development in a positive and beneficial manner. It has many sub-areas which range from land-use planning to public-service planning. The program at Buffalo State is designed to provide students with a sound, fundamental knowledge of one of two principal planning areas: urban or community planning and environmental planning. Students majoring in the program are encouraged to develop their own, secondary area of interest in planning.

(Continued)

General Education Requirements	60
Total required credit hours in Urban-Regional Analysis and Planning	39
A. REQUIRED COURSES (21 cr.)	
Track 1 — Urban-Regional Analysis and Planning	
GEG 305 Principles in Economic Geography	
GEG 309 Introduction to Urban Geography	
GEG 330 Land Resource Analysis and Planning	
PLN 315 Introduction to Community Planning	
PLN 412 Community Planning Agencies and Issues	
PSC 215 Urban Government	
SOC 300 Methods in Social Research	
Track 2 — Environmental Planning	
GEG 305 Principles in Economic Geography	
GEG 309 Introduction to Urban Geography	
GEG 330 Land Resource Analysis and Planning	
PLN 315 Introduction to Community Planning	
SOC 300 Methods in Social Research	
BIO 315 Ecology	
GEG/PLN 415 Seminar in Geography/Planning	

Urban-Regional Analysis and Planning
(Continued)

A departmental honors program is also available. Students should contact the department for additional information.

B. ELECTIVES SELECTED BY ADVISEMENT (18 cr.)

Track 1 — Urban-Regional Analysis and Planning

Group A (6 cr.)

GEG/SST 199 Computer in Social Science
ECO 305 Statistics for Economics
GEG 313 Air Photo Interpretation
GEG 413 Cartography

Group B (6 cr.)

ECO 412 Urban Economics
GEG 310 Geography of Transportation
GEG 405 Advanced Urban Geography
GEG 409 Geography of Manufacturing
GEG/ECO 411 Regional and Urban Analysis
GEG/PLN 415 Seminar

Group C (6 cr.)

ANT 307 Urban Anthropology
BIO 115 General Botany
BIO 116 General Zoology
BIO 315 Ecology
DES 264 Environmental Planning and Design
DES 265 Urban Design
ECO 202 Principles of Microeconomics
ECO 355 Economics of Energy and the Environment
GEG 101 Man's Natural Environment
GEG 307 Conservation
PLN 488 Internship (up to 6 cr.)
PSC 315 State and Local Government Politics
PSC 360 Public Administration
PSY 370 Environmental Psychology I

Track 2 — Environmental Planning

Group A (6 cr.)

GEG/SST 199 Computer in Social Science
ECO 305 Statistics for Economics
GEG 313 Air Photo Interpretation
GEG 413 Cartography

Group B (6 cr.)

BIO 418 Limnology
GEG 307 Conservation
GEG/ECO 411 Regional and Urban Analysis
GEG/PLN 415 Seminar
PLN 488 Internship (up to 3 cr.)
PSY 370 Environmental Psychology I

Group C (6 cr.)

BIO 403 Economic Biology and Conservation
BIO 419 Field Experience in Environmental Problems
CHE 315 Environmental Chemistry
DES 264 Environmental Planning and Design
ENS 410 Seminar in Environmental Studies
GEG 101 Man's Natural Environment
GES 307 Geomorphology
PLN 488 Internship (up to 6 cr.)
SCI 340 Scientific Studies in Environmental Pollution

Electives	22
Physical Education	2
TOTAL REQUIREMENTS	123

VOCATIONAL TECHNICAL EDUCATION (0800)

Offered by the Technology Department
Bachelor of Science (Education) degree granted
and Certification as a Vocational Teacher
(HEGIS 0839) NCATE Accredited

Dr. Charles A. Beasley, Chairperson
Upton Hall 315/878-6017

Frank E. Sharkey Jr., Coordinator
Upton Hall 312/878-6018

The program prepares vocational-technical teachers for teaching positions in city high schools, area vocational schools (BOCES), technical institutes, correctional facilities, and community-college technical programs. It provides theoretical and practical preparation in planning, instructing, and managing the learning environment for students who have or will have extensive work experience in a specific trade.

Special Admission Requirements:

1. Verified full-time trade experience: four years with high school diploma; or two years with an A.A.S. degree in the occupational area; or one year with a B.S. degree and 36 semester hours of course work in the occupational area; or a work-study arrangement (see EPOT below).

2. High school diploma or equivalent: High school students interested in entering the program prior to completing the required work experience may apply for the EPOT program (Early Preparation of Occupational Teachers). Applicants must be able to locate a position in their trade. They will take courses in the evening leading to a B.S. degree and teacher certification while earning and learning at their trade. The program takes about five years to complete.

3. Admission review.

4. Trade proficiency verified by a practical and theoretical examination.

General Education Requirements 60

Total required credit hours in Vocational Technical Education 63

A. MAJOR FIELD (30 cr.)

VTE 100	Applied Skill	15
VTE 200	Technical Information	15

B. PROFESSIONAL REQUIREMENTS (30 cr.)

OEC 301	Principles of Occupational Education	3
OEC 302	Curriculum/Evaluation in Occupational Education	3
VTE 302	Course Organization	3
VTE 306	Laboratory Management	3
VTE 404	Methods of Teaching Vocational Technical Subjects	3
VTE 413	Student Teaching and Observation	3
VTE 415	Professional Development Seminar	3
VTE 421	Occupational Education for Individuals With Special Needs	
Electives (six semester hours in either educational foundations, exceptional education, or criminal justice)		6

C. REQUIRED COURSE IN BEHAVIORAL STUDIES (3 cr.)

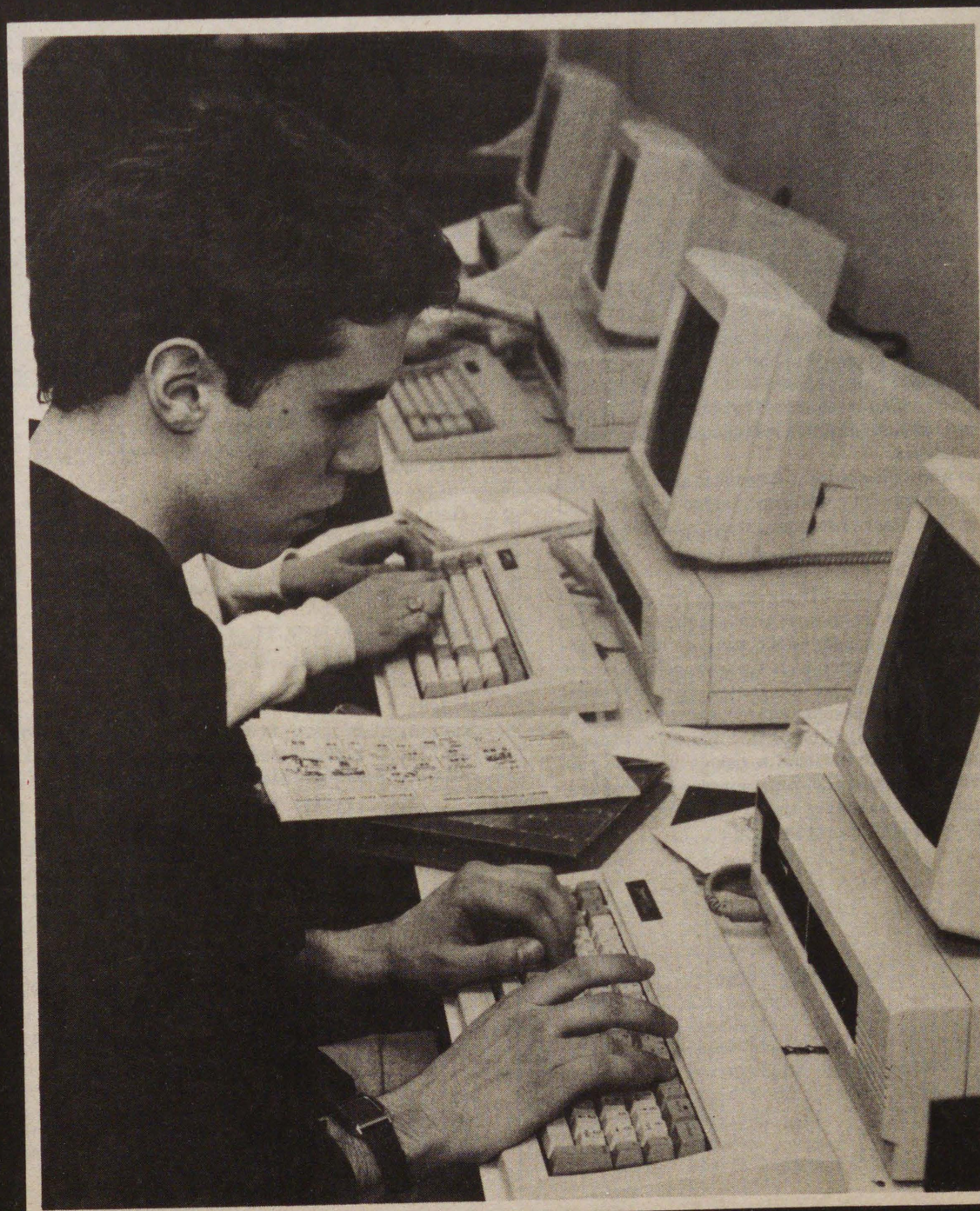
EDF 303	Educational Psychology	3
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Physical Education 2

TOTAL REQUIREMENTS 125

5

COURSE LISTINGS



Course Listings

Course Descriptions

The following section lists and describes each undergraduate course offered for the next two years. Courses are listed alphabetically by prefix. Each description contains important information about the content of the course, when it will be offered, and how it contributes toward satisfying the 60-hour general education requirement.

(A complete explanation of the requirement may be found in the Academic Programs section of the catalog under general requirements for B.A. and B.S. degrees.)

GUIDE TO COURSE LISTINGS

Each description lists in order: the prefix, course number, title, number of credit hours given, number of lecture hours the course meets each week, number of studio/lab hours each week, the term and year the course is scheduled to be offered (F for fall and Sp for spring), 60-hour breadth requirement designation, and course prerequisites.

Whether or not a specific course will be scheduled for a given term is contingent on student enrollment, budget support, and adequate staffing. The descriptions are current as of November 1990.

General Education Requirement Designations: If a course will satisfy the applied science/technology core requirement, it will be designated (T). Courses satisfying the arts core requirement will be designated by the letter (A). Courses satisfying the humanities core requirement are designated (H); mathematics/science core courses are designated (M); and social science core courses are designated (S). Courses that may be included in the 18-hour general education elective category include all courses approved for core credit plus courses marked (E). Courses satisfying the global issues and diversity requirements are designated (G) and (D) respectively.

Course Numbering: The course number is used to indicate the degree of difficulty of each course. Generally 100- and 200-level courses are lower division (for freshmen and sophomores), while 300- and 400-level courses are upper division and often more advanced. Courses designated 098 and 099 may not be used to fulfill degree requirements.

Here's a sample course listing:

DAN 302
MODERN DANCE TECHNIQUE II

3, 1/4; F 91, 92 (E)

Prerequisite: DAN 200 or permission of instructor. Designed to develop and strengthen technical dance skills. Fundamental principles of movement in relation to dynamics, rhythm, and space; development of original movement patterns; elementary dance composition, modern dance history.

Here's what it means:

DAN 302
This is a dance course, number 302.

MODERN DANCE TECHNIQUE II
Name of course.

3, 1/4
Number of semester credit hours the course is worth,
Number of lecture hours the class meets per week/
Number of studio or lab hours per week.

F, Sp
If an F or Sp is indicated, the course is offered only during the fall (F) semester or the spring (Sp) semester. If a course carries no designation, it is taught each semester of the regular academic year.

91, 92
This course is offered fall (F) semesters during 1991 and 1992. Some courses will show 1991-93, in which case the course is offered both fall and spring semesters during the 1991-92 and 1992-93 academic years.

(E)
This course may be included in the 18-hour general education elective category. See the letter codes under General Education Requirement Designations above.

Prerequisite:
Prerequisites or requirements you must fulfill before registering for a course.

The remainder of the course listing describes what subject matter the course covers.



The following is an explanation of all prefixes:

AAS	African and African-American Studies
ANT	Anthropology
AED	Art Education
ATS	Art Therapy Studies
AEL	Assessment of Experiential Learning
BIO	Biology
BUS	Business
CHE	Chemistry
COM	Communication
CIS	Computer Information Systems
CFS	Consumer and Family Studies
CRS	Creative Studies
CRJ	Criminal Justice
DAN	Dance
DES	Design
DED	Distributive and Business Education
ECO	Economics and Finance
EDU	Education
EDF	Educational Foundations
ENT	Engineering Technology
ENG	English
EXE	Exceptional Education
FAR	Fine Arts
FLA	Foreign Language
FLE	Foreign Language Education
FRE	French
SCI	General Science
SEC	General Science Education
GEG	Geography
GES	Geosciences
GER	German

GRK	Greek
HPR	Health, Physical Education, Recreation
HSC	Health Science
HEB	Hebrew
HIS	History
IAE	Industrial Arts Education
INT	Industrial Technology
ITA	Italian
LAT	Latin
LIB	Library Research
MAT	Mathematics
MED	Mathematics Education
MUS	Music
NFS	Nutrition and Food Science
PAR	Performing Arts
PHI	Philosophy
PHY	Physics
PLA	Planning
POL	Polish
PSC	Political Science
REC	Recreation
RUS	Russian
SAF	Safety Studies
SSE/SST	Social Studies Education
SWK	Social Work
SOC	Sociology
SPA	Spanish
SLA	Speech Language Pathology and Audiology
SWA	Swahili
TEC	Technology
THA	Theater Arts
VTE	Vocational Technical Education

African and African-American Interdisciplinary Studies

Interdisciplinary Minor
See Dr. Anthony Neal for current minor requirements. Political Science Department, Classroom Building 232.

AAS/SWA 101 ELEMENTARY SWAHILI

3, 3/0 (H)
Study the fundamentals of Swahili with emphasis on the spoken language.

AAS/SWA 102 ELEMENTARY SWAHILI

3, 3/0 (H)
Prerequisite: AAS 101 or permission of instructor. Emphasis on writing and reading as a continuation of AAS 101.

AAS/SWA 201 INTERMEDIATE SWAHILI

3, 3/0 (E)
Prerequisite: AAS 102 or permission of instructor. Further development of basic skills with emphasis on reading, writing and casual conversation.

AAS/SWA 202 INTERMEDIATE SWAHILI

3, 3/0 (E)
Prerequisite: AAS 201 or permission of instructor. Emphasis on casual and formal speaking in Swahili as well as fast translation.

AAS 203 INTRODUCTION TO AFRICAN CIVILIZATION

3, 3/0
An exploration of the patterns of the evolution of African societies from earliest time to the present, with particular emphasis on the shaping of Africa's intricate social, political, cultural and religious institutions in the adjustment from the traditional to the modern.

AAS/EDU 221 THE HISTORY OF BLACK EDUCATION IN AMERICA

3, 3/0
An examination of the role of Blacks in the American education system. Relevant information on various changes that have taken place in order to improve or retard education for Blacks. The course will explore approaches for providing meaningful education for Blacks now and in the future.

AAS/EDU 222 THE DEVELOPMENT OF MODERN EDUCATION IN AFRICA

3, 3/0
A phase of study of educational changes in Africa beginning with the colonial era to the present time. One important aspect of the course will be the examination of the effect of these changes on social and political issues in Africa and abroad.

ENG 240 AFRO-AMERICAN LITERATURE TO 1940

3, 3/0; 1991-93 (E)
Survey of black American slave narratives, poetry, fiction, essays, and drama, noting the influence of the African oral tradition on the black American writer. The Harlem renaissance of the 1920s and its relation to the development of black revolutionary thought will be emphasized.

ENG 241 AFRO-AMERICAN LITERATURE SINCE 1940

3, 3/0; 1991-93 (E)
Survey of black revolutionary thought and artistry in such writers as Richard Wright, William Demby, Ralph Ellison, LeRoi Jones, James Baldwin, Don L. Lee, Gwendolyn Brooks, Nikki Giovanni, John Henrik Clarke, and Ed Bullins.

ANT 305 PEOPLES OF AFRICA

3, 3/0 (S)
Cross-cultural comparisons of selected societies of sub-Saharan Africa, emphasizing economic conditions, migrations, indigenous states, linguistics, social structure, aesthetics, religion, prehistory, and physical types.

HIS 322 AFRO-AMERICAN HISTORY

3, 3/0; 1991-93 (S)
Heritage of Black Americans; Afro-Americans existence under slavery; their role in influencing historical events; activity in the Civil War period; the freed men during reconstruction; migration to the north and adjustment to urban life; Afro-American leaders, institutions, ideas and their impact on modern America.

AAS/SOC 332 THE BLACK FAMILY IN AMERICA

3, 3/0
Prerequisite: Permission of instructor. An exploratory study of the effects of American social institutions upon black American family life with emphasis on intrafamily relations.

HIS 341 AFRO-AMERICANS AND CIVIL RIGHTS

3, 3/0 (E)
A history of the landmark court decisions, laws, and governmental policies in the area of the civil rights of Afro-Americans. The course will examine some of the historic relationship between race, racism, law, and public policy in America.

The course will also focus on resistance, protest, and the quest for equality in America.

HIS 469 BLACK PROTEST AND LEADERSHIP IN THE U.S. IN THE TWENTIETH CENTURY

3, 3/0; offered based on staff availability
Prerequisite: Junior or senior. An examination of the black protest movement and leaders in 20th-century America.

PSC 218 AFRICAN-AMERICAN POLITICAL CULTURE

3, 3/0 (S)
This course focuses on African-American politics from the beginning of the civil rights movement to the present. It seeks to understand how American political institutions impact on black politics and how black politics influence those institutions. Beyond this, this course seeks to examine how politics has shaped African-American culture and vice versa.

Anthropology

Offered by the Anthropology Department
DR. JILL NASH, Chairperson
Classroom Building B-107

ANT 100 HUMAN ORIGINS

3, 1/0; 1991-93 (S)
An introduction to the fossil and archeological record of humanity. The emergence of the human species and its subsequent development. Exploration of the physical changes which have occurred in the human lineage and changes in our cultural behavior from hunting to farming and an urban life. *Required for all majors. Recommended as a first or second course in anthropology.

ANT 101 INTRODUCTION TO ANTHROPOLOGY

3, 3/0; 1991-93 (S)
Culture and human behavior; formative of personality; nature of social structures, interaction, and the satisfaction of human needs; cross-cultural comparisons; archeology; linguistics; human evolution. *Required for all anthropology majors. Recommended as a first or second course in anthropology.

ANT 144 INTRODUCTION TO FOLKLORE AND FOLKLIFE

3, 3/0; 1991-93 (S)
Introduction to the major genres of folklore and folklife and their function in contemporary society. Includes such topics as ethnic and urban folklore, the folksong revival, and the Foxfire movement.

ANT 202 WORLD PREHISTORY

3, 3/0; F 92 (E)
The aims and methods of prehistoric research and the interpretation of archeological materials. Major stages in the development of culture illustrated in Old and New World contexts.

ANT 203 HUMAN VARIATION

3, 3/0; F 91 (E)
Examination of physical variation in human populations; relationship between variation in human populations; genetic basis of human evolution and variation; ecological distribution of human physical varieties with special emphasis on modern human populations.

ANT 301 INDIANS OF EASTERN NORTH AMERICA

3, 3/0; S 92 (S)
Lifeways of Indians of eastern North America; influences from Middle to South America; sub-Arctic and Arctic. Emphasis on cultures of Iroquois and Algonkian-speaking peoples.

ANT 303 THE ANTHROPOLOGY OF EUROPE

3, 3/0; F 92
An introduction to the anthropology of Europe and European cultures. Topics discussed will include the diverse peoples and cultures of Western and Eastern Europe, folklife, peasantry, folk-arts, and European and Euro-American world-views. The course will also discuss European colonialism and European attitudes about and practices toward other cultural groups.

ANT 305 PEOPLES OF AFRICA

3, 3/0; F 92 (S)
Cross-cultural comparisons of selected societies of sub-Saharan Africa, emphasizing economic conditions, migrations, indigenous states, linguistics, social structure, aesthetics, religion, prehistory, and physical types.

ANT 307 URBAN ANTHROPOLOGY

3, 1/0; Sp 92, 93 (E)
Study of the city as a total social system with special attention to cultural diversity both in terms of backgrounds of foreign countries and of regions within our own country. Students may be requested to carry out organized field research within the city. Recommended for urban studies minors.

ANT 308 ARCHEOLOGICAL METHOD

3, 3/0; Su 92 (E)
Laboratory and field methods in archeology will be studied. Opportunity for practical experience with various archeological techniques will be provided.

ANT 312 ARCHEOLOGY OF THE NORTH AMERICAN INDIAN

3, 3/0; Sp 92 (E)
Special note: ANT 100 is recommended as a prior course. Prehistory of North America beginning with earliest human presence in North America, including the Paleo-Indian period. Archaic, Woodland and Mississippian in the East, and periods comparable in time in the West. Discussion of possible trans-Pacific and trans-Atlantic influences on the development of American Indian culture.

ANT 315W RESEARCH METHODS IN CULTURAL ANTHROPOLOGY

3, 3/0; Sp 92, 93
Prerequisite: Any anthropology course. A study of research methods in cultural anthropology covering field work, participation, observation, sampling, measurements, documentation, statistical, and cross-cultural methods.

ANT 320 HUMAN GROWTH IN ANTHROPOLOGICAL PERSPECTIVE

3, 3/0; F 92 (E)
Prerequisite: A course in the natural or social sciences, or upper-level status, or permission of the instructor. An examination of the physical changes that occur from birth through old age. Child-rearing, adolescence, and the role of the elderly in other cultures. The biological and social factors which influence human growth. Methods used by the anthropologist in assessing growth.

ANT 321 PRIMATE BEHAVIOR

3, 3/0; Sp 93 (E)
Prerequisite: A course in the natural or social sciences, or upper-level status, or permission of the instructor. The description and analysis of social behavior among non-human primates, with particular attention to monkeys and apes.

ANT 324 THE HUMAN SKELETON

3, 3/0; Sp 93
Prerequisite: A course in the natural or social sciences, or upper-level status, or permission of the instructor. The study of the skeletal remains of past human societies. The structure and functions of the skeleton, age, sex, illness, and injury to the individual. Reconstructing the population, demography, health status, growth patterns, genetic affinities. ANT 324 and ANT/CRJ 325 cannot both be taken for credit.

ANT/CRJ 325 SKELETAL INVESTIGATIONS: FORENSIC ANTHROPOLOGY

3, 3/0; Sp 92
Prerequisite: upper class standing or permission of the instructor. An examination of human skeletal anatomy and the techniques used by forensic anthropologists to identify skeletal

remains. Students will work with skeletal material to learn how to determine age, sex, "race," stature, disease, trauma, and other features that aid in personal identification. ANT 324 and ANT/CRJ 325 cannot both be taken for credit.

ANT 326 THE HUMAN FOSSIL RECORD

3, 3/0; F 91 (E)
Prerequisite: A course in the natural or social sciences or upper-level status. Human evolution as derived from the fossil record. Examination of major fossil hominid discoveries, their interpretation and place in the development of the human species.

ANT 327 MEDICAL ANTHROPOLOGY

3, 3/0; F 92
Prerequisite: Introductory anthropology, or a social science course, or upper-division status. (Note: certain courses in social work, consumer studies, and nutrition are also acceptable. Consult department.) Introduction to medical anthropology and its relevance to contemporary American society. Includes such topics as folk and traditional healing practices, cultural definitions of illness, and modern medical technology.

ANT 330 THE ANTHROPOLOGY OF OCEANIA

3, 3/0; Sp 93 (S)
Prerequisite: A course in the natural or social sciences, or upper-level status, or permission of the instructor. A general introduction to the prehistory, physical anthropology, ethnography, and ethnology of Polynesia, Micronesia, Melanesia, and Australia, focusing on special problems of current interest.

ANT 340 WOMEN IN ANTHROPOLOGICAL PERSPECTIVE

3, 3/0; F 92 (S)
Prerequisite: A course in the natural or social sciences, or upper-level status, or permission of the instructor. The study of women's position in human society, with attention given to biological, social, and cultural influences on female status in cross-cultural and evolutionary perspective.

ANT 360 FOLKLORE OF WOMEN

3, 3/0; Sp 91 (E)
Prerequisite: ANT 101 or ANT 144 or a course in Women's Studies or a social science, or upper-division status. A survey of women's folklore and folklife; women as traditional performers (seen through expressive behavior such as singing, songwriting and storytelling); material folk culture of women (needlework, crafts, foodways); customary behavior (folk medicine, magic, the domestic religious tradition); folklore of the women's movement. The course will also consider women's contributions to the oral folklore in the formation of sexual stereotypes.

**ANT 362
URBAN FOLKLORE**

3, 3/0; Sp 93 (E)

Prerequisite: ANT 101 or ANT 144 or a course in social science or upper-division status. Folklore and folklife in the urban environment; the survival and reshaping of rural and Old World tradition; the function of folklore in the preservation of ethnic identity; craft, industrial and labor traditions, folklife forms (festivals, markets, material culture); contemporary folklore, folklore in the media and popular culture.

**ANT 365
PRACTICING ANTHROPOLOGY**

3, 3/0; Sp 91, 93

This course will discuss the application of anthropology and anthropological perspectives to contemporary community and world issues and problems. Focus will be placed on the practice of anthropology as a career outside academia, in social services, international relations, government positions, community organizing, etc., and the relevance of anthropological principles in day-to-day life.

**ANT 370
THE ANTHROPOLOGY OF
CONTEMPORARY ISSUES**

3, 3/0; Sp 93 (E)

Prerequisite: ANT 101 or consent of instructor. This course provides an anthropological perspective on some of the principal dilemmas of the contemporary world, including technological, demographic, ideological, and cultural problems which provide much of the content of our daily news and have implications for the survival of our species.

**ANT 377
ANCIENT CIVILIZATION**

3, 3/0; F 91 (E)

Prerequisite: ANT 100 or ANT 101, or upper-level status, or permission of the instructor. An examination of the nature of early civilization as well as possible factors involved in both their rise and fall. Old World civilizations studied will be those in Mesopotamia, Egypt, the Indus Valley, and China. New World civilizations examined will be those in Mesoamerica and Peru. Similarities and differences between all of these civilizations will be considered.

**ANT 380
LANGUAGE AND CULTURE**

3, 3/0; Sp 92, 93 (E)

Examination of the concepts of language and culture as symbolic systems and an introduction to phonetics, phonemics, morphemics, syntax, and semantics from a cross-cultural and cross-lingual perspective. An exploration of the relationship between grammatical structure and modes of perception and cognition as related to world views and systems of values, with special emphasis on the Sapir-Whorf hypothesis and the work of Chomsky.

**ANT 381
RELIGION, MYTH, AND MAGIC**

3, 3/0; 1991-93 (S)

Fetishism (animism), polytheism and monotheism. An in-depth analysis of religion, myth, and magic in prehistoric and primitive societies as well as ancient and contemporary Egypt, Mesopotamia, Asia Minor, North Africa, Iran, India, China, Japan, and the world of Islam. Their bearing on the Judeo-Christian tradition. Recommended for religious studies minors.

**ANT 382
CULTURE AND PERSONALITY**

3, 3/0; F 91, 92 (E)

Prerequisite: A course in the natural or social sciences, or upper-level status, or permission of the instructor. A cross-cultural study of the role of individual variable genetic potentials and socioculturally variable norms, structures of modal and deviant personalities.

**ANT 389
TOPICS IN ANTHROPOLOGY**

3, 3/0

Prerequisite: A course in the natural or social sciences, or upper-level status, or permission of instructor. Analysis of current areas of research interest in anthropology. Emphasis will be placed on using concepts and methods from the subfields of anthropology to study in specific problem or series of problems. Topics include: aggression and warfare, culture and health, shifting patterns of demography, ecological anthropology.

**ANT 405W
HISTORY OF ANTHROPOLOGICAL
THOUGHT**

3, 3/0; Sp 92, F 93

Study of the important contributions to the development of anthropological theory from the preanthropological philosophers such as Locke to the present. Included among the theorists will be Darwin, Tylor, Boas, Kroeber, Rivers, Malinowski, Levi-Strauss, and Sapir. Required of all anthropology majors. ANT 101 is strongly recommended as a prior course.

**ANT 411
AFRICAN SYSTEMS OF KINSHIP AND
MARRIAGE**

3, 3/0; Sp 92

Study of the family, kinship, and marriage among the peoples of Africa. Emphasis on the interrelationship of kinship with other aspects of culture.

**ANT 412
SEMINAR IN ANTHROPOLOGY**

3, 3/0

Anthropology has four areas of research — physical anthropology, archeology, ethnology, and linguistics. This seminar will attempt to examine and criticize literature of one of these four fields. Students may be required to do research.

**ANT 415
SEMINAR IN ARCHEOLOGY**

3, 3/0; F 92

Prerequisite: A course in the natural or social sciences, or upper-level status, or permission of instructor. A survey of the field of archeology, which includes the examination of particular cultures as well as discussion of major methodological and theoretical issues.

Art Education

Offered by the Art Education Department
DR. MICHAEL E. PARKS, Chairperson
Bishop Hall 129

All studio courses in art education require at least two hours per week of outside preparation in addition to the regular class meetings. For those courses in which the use of the studio is necessary for additional work, the instructor will schedule times when it will be open.

**AED 100
ESSENTIALS OF VISUAL ARTS**

3, 2/2; 1991-93 (A)

The development of visual and perceptual awareness through expressive learning processes inherent in the visual arts. Art experience with a variety of media that will accommodate individual interpretations of art concepts which generate the formations, judgments, and decisions of a liberally-educated individual. *Non-art majors only.

**AED 200
FUNDAMENTALS OF ART INQUIRY**

3, 3/0; 1991-93 (A)

A study of functional and common-sense procedures for establishing valid criteria for making judgments about art as it is reflected in all areas of human concern. Instruments of language and logic are examined and tested on how they are useful to the inquiry.

**AED 300
FOUNDATIONS IN ART EDUCATION**

3, 2/2; 1991-93

Prerequisite: Art education major or consent of the department chairperson and completion of Math and English Basic Competency requirements. An introductory course which serves as an entry to the professional program. A review which provides a basic understanding of art education and its relationship to the arts/education careers and society. *Required of all art education majors.

**AED 301
THEORETICAL CONSTRUCTS
IN ART EDUCATION**

3, 2/2; 1991-93

Prerequisite: Art education major, AED 300 and at least one course in psychology or consent of

the department chairperson. This course focuses on specific information and theories relevant to the teaching of art. Students will develop preoperational teaching models which are based on examined art and education theories and are formulated to accommodate each student's perceived personal qualities. *Required of all art education majors. Students are expected to take the Communication Skills and General Knowledge sections of the NTE during the AED 301 semester.

**AED 302
FUNCTIONS AND PRACTICE
IN ART EDUCATION**

3, 2/2; 199-93

Prerequisite: Art education major, AED 300, 301 and at least one course in sociology/anthropology, or consent of the department chairperson. This course will direct students to identify art content and processes necessary in the design of instructional planning, implementation, and evaluation of these art concepts. These skills will be gained and tested by practica in mini-teaching and/or participation teaching.

**AED 303
ELEMENTARY STUDENT-TEACHING
IN ART**

6 cr., full time, 1/2 semester; 1991-93

Prerequisite: Art education major, AED 302, satisfaction of departmental requirements, evidence of successful completion of the Communication Skills and General Knowledge sections of the NTE, approval of AED Coordinator of Student Teaching. Supervised teaching at assigned levels from kindergarten through sixth grade, in various types of schools and communities; seminar discussions on professional problems of the beginning teacher. *Required of all art education majors.

**AED 304
SECONDARY STUDENT-TEACHING
IN ART**

6 cr., full time, 1/2 semester; 1991-93

Prerequisite: Art education major, AED 302, satisfaction of departmental requirements, evidence of successful completion of the Communication Skills and General Knowledge sections of the NTE, approval of AED Coordinator of Student Teaching. Supervised student teaching at assigned levels from seventh grade through senior high school, in various types of schools and communities; conferences devoted to planning and evaluating teaching experiences; seminar discussions on professional problems of the beginning teacher. *Required of all art education majors.

**AED 310
ART MATERIALS EXPLORATION FOR
GROUP ACTIVITIES**

3, 2/2

Prerequisite: One visual-arts studio course for non-art majors; DES 101, 103, FAR 101, 102 for art education majors. Exploratory materials experiences basic to art activities. Class efforts will be directed toward activities-oriented pro-

cesses and their ultimate use in group art activities which can occur in a variety of agency, institutional, and recreational contexts.

**AED 315
ARTS IN LIVING**

3, 2/2; 1991-93 (A)

Prerequisite: Any one art course. A study of contemporary and historic art forms as they apply to everyday living. An analysis of the individual significance and interrelatedness of architecture, industrial design, the graphic arts, painting, sculpture, music, and the theater arts. Participation in creative activities related to the course.

**AED 319
ART FOR ELEMENTARY AND
EXCEPTIONAL-EDUCATION
CLASSROOM TEACHERS**

3, 2/2; 1991-93 (E)

Prerequisite: Elementary, exceptional education, and social work majors or consent of the instructor. A study of children's expressive abilities, interests, and needs in relation to art at several developmental levels. The management of media as an agent for developing skills, inquiry, and appreciation of the artistic process. Studio experiences with processes and materials used in elementary school settings.

**AED 400
STUDENT-TEACHING SEMINAR**

3, biweekly/6; 1991-93

The relationship of art education theories to teaching practices utilized in the contemporary school art program; the identification of crucial issues in art education; problems of beginning art teachers; and the value of current professional literature in the resolution of issues and problems. *Required of all art education majors. To be taken concurrently with or immediately following student teaching.

**AED 488
INTERNSHIP**

1-15

Prerequisite: Upper division standing and/or permission of instructor, 2.5 GPA, and background coursework appropriate to the internship setting. Internship programs provide students with guided and supervised field experiences (experiential learning) as part of their degree programs. An internship shall consist of supervised activities for qualified students in community based agencies or settings in which interns will apply and enhance knowledge gained through formal instruction demonstrating operational skills, as practitioners in prospective specializations.

**AED 495
PROJECT**

Credits, hours vary; 1991-93

Prerequisite: Junior or senior standing. Project undertaken and meetings hours arranged individually with instructor.

**AED 499
INDEPENDENT STUDY**

1991-93

Prerequisite: Sophomore, junior or senior standing. Minimum 2.0 cumulative average (overall, previous semester, and in study area courses). Studies arranged and meeting hours undertaken individually with instructor.

**ATS 320
INTRODUCTION TO ART THERAPY**

3, 2/2; 1991-93 (A)

Prerequisite: One visual-arts studio course or consent of the instructor. Initial exploration of art as a mode of human expression for children and adults in therapeutic settings such as special education classes, mental health clinics, development centers, community centers, etc. Volunteer work in human-service agency. *Required of art therapy studies minors.

**ATS 325
ARTS AND SPECIAL NEEDS**

3, 2/2; F 91, 92 (E)

Prerequisite: ATS 320 and one human service course. In-depth exploration of theoretical and practical relationships within art programs which are designed to serve people with exceptional needs in schools and other human-service agency settings. Art activities as a diagnostic agent and as a means for establishing settings which promote individual growth, self-awareness, self-concept development, and self-expression. Supervised field work in special education settings. *Required of art therapy studies minors.

**ATS 329
ART AND OLDER ADULTS**

3, 2/2; Sp 92, 93 (E)

Prerequisite: ATS 320 and SOC 352 or PSY 327. The study of art as activity, education, and therapy with the older adult. Readings, films, presentations, group experiences, and observations of art experience with older adults in settings ranging from community centers and adult education to geriatric institutions. Supervised field work in service to aged setting. *Required of art therapy studies minors.

Biology

Offered by the Biology Department
DR. BONNIE M. SAMPSELL, Chairperson
Science Building 313

**BIO 100
PRINCIPLES OF BIOLOGY**

3, 3/0; 1991-93 (M)

A consideration of selected principles of modern biology, with special emphasis on their relevance to major biosocial issues. *Not open to biology majors.

**BIO 104
ENVIRONMENTAL BIOLOGY**

3, 3/0; 1991-93 (M)
Principals of ecology for the non-major, applied to major environmental problems. *Not open to biology majors.

**BIO 115
GENERAL BOTANY**

4, 3/3; 1991-93 (M)
Morphology, physiology, phylogeny, reproduction, and adaptation of plants.

**BIO 116
GENERAL ZOOLOGY**

4, 3/3; 1991-93 (M)
Morphology, physiology, phylogeny, reproduction and adaptation of animals.

**BIO 210
BACTERIOLOGY**

3, 2/2; F, 91, F 92, F 93 (E)
Prerequisite: BIO 214 or equivalent. Morphology and physiology of bacteria; general application to household science, sanitation, hygiene, and infectious disease. *Not open to biology majors.

**BIO 214
INTRODUCTION TO CELL BIOLOGY**

4, 3/3; F, Sp 1991-93 (E)
Prerequisite: One year of college chemistry. Structure of biological macromolecules; organization of eukaryotic and prokaryotic cells, and basic cell processes.

**BIO 303
GENETICS**

4, 3/3; F, Sp 1991-93 (E)
Prerequisites: BIO 115, BIO 116, and BIO 214. Principles of heredity; inheritance of specific plant, animal, and human traits; biochemical aspects of the gene; relationship of genetics to evolution.

**BIO 305
MOLECULAR BIOLOGY**

4, 3/3; Sp 91, Sp 93
Prerequisite: BIO 115, 116, 214 and CHE 201. Structure, organization, and function of living matter at the molecular level.

**BIO 306
ENTOMOLOGY**

3, 2/2; F 91 (E)
Prerequisite: BIO 116 or equivalent. The morphology, physiology, ecology, and life histories of insects; major emphasis on interrelationships of insects and man. Laboratory includes a survey of the major insect groups.

**BIO 311
HUMAN ANATOMY AND
PHYSIOLOGY I**

4, 3/2; F, Sp 1991-93 (M)
Prerequisites: BIO 100 or BIO 214 and upper class standing. Study of the basic physiology of cells, tissues, and the following human body sys-

tems: cardiovascular, respiratory, digestive, urinary, reproductive.

**BIO 312
HUMAN ANATOMY AND
PHYSIOLOGY II**

4, 3/2; F, Sp 1991-93 (M)
Prerequisites: BIO 311 and upper class standing. The study of the physiology and related anatomy of the following human body systems: integumentary, skeletal, muscular, nervous, sensory and endocrine. Written essays and reports will be required.

**BIO 314
ADVANCED CELL BIOLOGY**

4, 3/3; F 92
Prerequisite: BIO 115, 116, 214 and CHE 201. An in-depth examination of the cell. The emphasis in this course reflects the contribution of the molecular approach to the understanding of cell structure and function; in particular, the contribution of recombinant DNA technology.

**BIO 315
ECOLOGY**

4, 3/3; 1991-93 (E)
Prerequisite: BIO 115 and 116; CHE 111-112. Ecosystems, biotic communities, interspecific and intraspecific relationships, biogeochemical cycles, energy flow, limiting factors, population ecology, introduction to analysis of community composition, recognition of plants and animals in selected habitats; effects of mankind in modifying natural environments. *Several half-day or all-day field trips may be required.

**BIO 316
MICROBIOLOGY**

4, 2/6; Sp 92, Sp 93 (E)
Prerequisite: BIO 214. Microorganisms and techniques of observing their morphology growth characteristics and distribution; the relationship of microorganisms to man and his activities.

**BIO 322
HEREDITY AND HUMAN AFFAIRS**

3, 3/0; F 91, F 92, F 93 (M)
Prerequisite: BIO 100 and junior standing. A course in human inheritance and social implications of genetics to modern society. Open to non-majors only.

**BIO 324
BIOLOGY OF HUMAN REPRODUCTION**

3, 3/0; Sp 92, Sp 93 (E)
Prerequisite: BIO 100 and junior standing. A course in reproduction for the non-major. Includes the anatomy and physiology of the human reproductive system, development of the human embryo, and the processes of birth and lactation.

**BIO 325
ICHTHYOLOGY**

4, 3/1; Sp 93 (E)
Prerequisite: BIO 116. Study of the biology of

fishes: structure and function (anatomy and physiology), systematics, evolution, diversity, zoogeography, and ecology.

**BIO 361
BIOLOGY SEMINAR**

1, 1/0; F 91, F 92, F 93
A series of weekly presentations of invited personnel. Class meetings are open to any interested person, and biology majors are especially urged to attend throughout their college careers.

**BIO 362
BIOLOGY SEMINAR**

1, 1/0; Sp 91, Sp 92, Sp 93
A series of weekly presentations of invited personnel. Class meetings are open to any interested person, and biology majors are especially urged to attend throughout their college careers.

**BIO 405
ORGANIC EVOLUTION**

3, 3/0; 1991-93
Prerequisite: A course in genetics and ecology. A study of the empirical foundation of evolutionary theory; emphasis will be on the dynamics of the process of evolution, especially as it relates to individual variation within an interbreeding population, to the variation pattern on the population level, and to the origin of the species; more recent trends, such as introgressive hybridization, polyploidy, apomixis, and genetic homeostasis will be developed.

**BIO 406
BIOMETRICS**

4, 3/3; F 91, F 92, F 93
Prerequisite: College algebra and junior standing. Quantitative aspects of biology, with analysis of biological data and its relationship to experimental design. Fundamentals of probability with applications to biological problems. Statistical decision-making applied to measurement and enumeration data. Linear regression and correlation.

**BIO 408
PLANT PHYSIOLOGY**

4, 3/3; F 91, F 93
Prerequisites: BIO 115, BIO 214, and CHE 201. Physiological processes in plants, including photosynthesis; respiration, osmosis, translocation, transpiration, effects of hormones, soil nutrients, and tropisms.

**BIO 411
ANIMAL PARASITOLOGY**

4, 3/1; Sp 92
Prerequisite: BIO 116. Principles of parasitology. Morphology, immunology, physiology, biochemistry, and ecology of parasites; life cycles, identification and pathological effects of representative parasites; control and treatment; significance of parasitism to human health.

**BIO 412
EMBRYOLOGY**

4, 3/3; F 91, F 93
Prerequisite: BIO 116, 214 and CHE 201. Principles and processes of chordate embryology, with emphasis on cellular and molecular mechanisms and development.

**BIO 413
ORNITHOLOGY**

3, 2/2; Sp 91, Sp 93
Prerequisite: BIO 100 or 116. Birds, their structure, functions, origins, and development; their identification and habits. *Field work required.

**BIO 417
FIELD MYCOLOGY**

3, 2/3; Sp 92
Prerequisite: BIO 115. Study of identification, morphology, ecology, and economic importance of this fungi most often encountered in natural environmental situations. Emphasis will be placed on the myxomycetes, ascomycetes, and basidiomycetes. *Field work required.

**BIO 418
LIMNOLOGY**

4, 3/3; F 91, F 93
Prerequisites: BIO 115, BIO 116, BIO 315, and CHE 112. Study of the physical, chemical, and biological factors influencing freshwater life, and the ecological interactions in freshwater communities. Lectures, demonstrations, and field trips.

**BIO 421
INVERTEBRATE STRUCTURE AND
FUNCTION**

3, 2/2; F 92
Prerequisite: BIO 116. Morphology, physiology, adaptation, ecology, reproduction, and evolution of the invertebrates. Functional approach.

**BIO 422
PLANT ANATOMY**

4, 3/1; F 91, F 93
Prerequisite: BIO 115 and BIO 214. Presentation of a cellular and tissue system analysis of vascular plants. Emphasis will be placed on plant structure with respect to and in relation to physiological function as well as the classical concepts and theories in phytoanatomy.

**BIO 425
MORPHOLOGY OF NONVASCULAR
PLANTS AND FUNGI**

4, 3/3; F 90, F 92
Prerequisites: BIO 115 and BIO 214. A study of the comparative structures, reproductive cycles, and phyletic relationships among the non-vascular plants and fungi. Interactions between structure and function and ecological adaptations will be considered.

**BIO 426
MORPHOLOGY OF VASCULAR PLANTS**

4, 3/3; Sp 93
Prerequisites: BIO 115 and BIO 214. A study of

the comparative structures, reproductive cycles, and phyletic relationships among the vascular plants. Interactions between structure and function and ecological adaptations will be considered.

**BIO 427
SYSTEMATIC BOTANY**

4, 3/3; Sp 92
Prerequisites: BIO 115 and BIO 303. A comprehensive study of the diversity of vascular plants, their identification, naming, classification, and evolutionary relationships.

**BIO 428
VERTEBRATE STRUCTURE AND
FUNCTION**

4, 3/3; Sp 92
Prerequisites: BIO 116 and ENG 102. A comparative study of the vertebrates with emphasis on their anatomy, adaptations, ecology, and phylogenetic relationships.

**BIO 429
FISHERIES BIOLOGY**

4, 3/3; Su 93
Prerequisites: BIO 116 and BIO 315. Study of the ecology and management of fish populations: sampling techniques, fisheries management techniques (including stocking, hatcheries, and aquaculture programs), and feeding, behavior, and life history of fishes.

**BIO 450
RECOMBINANT DNA TECHNOLOGY**

4, 2/4; Sp 92, Sp 93
Prerequisite: BIO 314, BIO 316, and BIO 305. This course is designed to provide the student with extensive "hands on" experience using the techniques of biotechnology. The techniques involving the construction of recombinant DNA molecules and their analysis will be emphasized.

**BIO 495
PROJECT**

Prerequisite: Approval of the faculty adviser and department chairperson must be secured prior to registration.

**BIO 498
HONORS RESEARCH**

3, 0/9; 1991-93
Prerequisite: Acceptance by the Biology Honors Committee and approval of the faculty adviser. The honors biology student will conduct an individual investigation of an original problem. After two semesters of honors research, the student will submit a written paper and present the data orally at a scientific meeting or in a department seminar. Minimum of six semester hours required for Honors certification.

**BIO 499
INDEPENDENT STUDY**

Prerequisite: Approval of faculty adviser and department chairperson must be secured prior to registration.

Business

Offered by the Business Department
DR. BENJAMIN SACKMARY, Chairperson
Chase Hall 301

**BUS 116
INTRODUCTION TO BUSINESS**

3, 3/0; 1991-93 (T)
An investigation of modern business functions; economic and social aspects, organization and management, operations, marketing functions, management control and decision making, financial risk and management, and career information for a changing business climate.

**BUS 117
INTRODUCTION TO RETAILING**

3, 3/0; 1991-93 (T)
Role and function of retailing as a channel of distribution, the relationship and responsibilities to the producer and to the consumer.

**BUS 312
PRINCIPLES OF ACCOUNTING I**

3, 3/0; 1991-93
Prerequisite: Math Competence. Basic accounting principles underlying financial statements.

**BUS 313
PRINCIPLES OF ACCOUNTING II**

3, 3/0; 1991-93
Prerequisite: BUS 312. This course is a continuation of BUS 312. Topics include accounting and stocks and bonds, preparation of funds statements, elements of cost accounting, and analysis of financial statements.

**BUS 320
PRINCIPLES OF MARKETING**

3, 3/0; 1991-93
Prerequisite: BUS 312, CIS 101, ECO 201 or 202. Survey course which provides students with an understanding of concepts, policies, and practices in the marketing of products and services. The course will focus on the decision making process in marketing.

**BUS 323
SALES METHODS & TECHNIQUES**

3, 3/0; F 91, 92, 93 (E)
Prerequisite: BUS 116 or 117. An approach to selling with emphasis on the application of sales principles, analysis of consumer characteristics, behavior, and buyer motivation.

**BUS 324
BUSINESS COMMUNICATION**

3, 3/0; 1991-93
Prerequisite: BUS 116; junior standing, S Eng Competency. An investigation of business communication as related to interaction in the private and public sector and in the social sys-

tem; emphasis on routine communication, e.g., business letters and report writing.

BUS 325 HUMAN RESOURCES MANAGEMENT

3, 3/0; 1991-93 (E)
Prerequisite: BUS 312, CIS 101, ECO 201 or 202. Designed to give an overview of philosophy of personnel management based on behavioral, classical managerial approaches, changes, human relations and operation research.

BUS 326 INTRODUCTION TO MERCHANDISING

3, 3/3; 1991-93
Prerequisite: BUS 117, junior or senior standing. The science of merchandising management together with the trends of merchandising.

BUS 327 ADVERTISING CONCEPTS AND PRACTICES

3, 3/0; 1991-93
Prerequisite: BUS 117. Analysis, solution, coordination of various media and sales materials to promote profit-producing programs with emphasis on the print media. Exploration of relationship of behavior sciences to advertising.

BUS 328 ADVANCED ADVERTISING CAMPAIGN MANAGEMENT

3, 3/0; Sp 91, 92, 93
Prerequisite: BUS 327. Principles of communication and advertising in non-print media. Coordination of sales promotion activities and its effect on business, organizations, industries and individuals.

BUS 329 SALES MANAGEMENT

3, 3/0; Sp 91, 92, 93
Prerequisite: Junior or senior standing. BUS 116 or BUS 117. Provides a managerial and pragmatic view of the sales management area. Examines the role of the sales manager as a manager of people, money, and things, as well as total selling effort. Presents the goals and objectives of selling and management of selling effort in today's world, with emphasis on ultimate consumer.

BUS 334 BUSINESS LAW I

3, 3/0; 1991-93
Prerequisite: BUS 312, CIS 101, ECO 201 or 202. A survey of legal principles applicable to business enterprises and operations. Topics such as the following will be considered: the adversary and judicial systems; business organizations; contracts and sales; commercial paper; secured transactions; property; torts; and appropriate sections of the Uniform Commercial Code.

BUS 335 BUSINESS LAW II

3, 3/0; Sp 91, 92, 93
Prerequisite: BUS 334. An advanced course in business law which examines such topics as: the

nature of real and personal property; trusts, wills and estates; creditor's rights and secured transactions; government regulation of business; administrative law; insurance, and evidence. Other selected topics may include taxation of income, arbitration in resolving contract disputes and Rule 10-b-5 of the Securities and Exchange Commission.

BUS 336 VISUAL MERCHANDISING

3, 3/0; 1991-93
Prerequisite: BUS 117, DES 105 recommended. Principles of display through application, experimentation, and evaluation of basic techniques and its importance in selling merchandise. Use of color, harmony, and arrangement.

BUS 340 SECURITIES

3, 3/0; F 91, 92, 93
Prerequisite: BUS 116 or BUS 117; junior standing or permission of instructor. A study of securities and the securities market. An overview of the subject matter with special emphasis on the operations and the securities market, the role it plays in the economy, and its interaction with the macroeconomic system.

BUS 341 COMMODITIES

3, 3/0; Sp 91, 92, 93
Prerequisite: BUS 116 or BUS 117, junior standing or permission of instructor. A study of commodities futures trading; special emphasis on terminology, hedging procedures, trading procedures, and price-making influences.

BUS 350 CURRENT PRACTICES IN BUSINESS TECHNOLOGY

3, 3/0; 1991-93
Prerequisite: BUS 116; junior standing. An explanation of the technological innovations in the business world; emphasis on student preparation to cope with computer-based information systems, decision-making processes, and equipment utilization.

BUS 360 PRINCIPLES OF MANAGEMENT

3, 3/0; 1991-93
Prerequisite: BUS 312, CIS 101, ECO 201 and 202. Introduces the student to basic functions of management; strategic and operational planning, organizational structure and behavior, leadership roles and motivation, and effective control systems. Provides a base for application to all management jobs and careers; helps students explore a personal management style.

BUS 378 BUSINESS PROFESSIONAL PRACTICE

3, 3/0; 1991-93
Students in the business major may elect to take up to 12 credit hours of field experience. An introductory, part-time experience would most likely generate three credit hours, whereas a full-

time culminating experience could generate as many as 12 credit hours. Credit, training, and evaluation criteria to be arranged by business instructor in charge of field experience.

BUS 403 MARKETING II-BUYER BEHAVIOR

3, 3/0; 1991-93
Prerequisite: BUS 116 or BUS 117; Economics is recommended. Junior or senior standing. Familiarization with findings development in human behavior and applications of theory and techniques to marketing problems.

BUS 404 MARKETING RESEARCH

3, 3/0; 1991-93
Prerequisite: BUS 116 or 117; MAT 111 or ECO 305; BUS 320. A study of primary and secondary data as it relates to decision-making in business and government.

BUS 410 MANAGERIAL ACCOUNTING

3, 3/0; Sp 91, 92, 93
Prerequisite: BUS 313, junior standing. Use of accounting concepts and techniques in preparing, presenting, and interpreting the accounting information used by management in planning and controlling the operations of the firm. Introduction to management fundamentals and elementary economic concepts of the firm.

BUS 423 ADMINISTRATIVE OFFICE MANAGEMENT

3, 3/0; F 91
Prerequisite: BUS 116; junior standing or permission of instructor. Concentration on the administration of office management systems; emphasis on office location, layout, organization, and personnel assignments. Course designed primarily for people entering middle- and upper-management positions in business and industry.

BUS 426 CREATIVE OPPORTUNITIES IN MANAGEMENT PRACTICES

3, 3/0; Sp 91, 92, 93
Prerequisite: BUS 360 and BUS 325, junior or senior standing. Involves the student in problems cases, and projects to reinforce the basic functions of management planning, organizing, leading, and controlling. Places the student in the role of an individual manager and team member as the class experiences practical application of the management principles.

BUS 428 ADVANCED MERCHANDISING

3, 3/0; Sp 91, 92, 93
Prerequisite: BUS 326 or permission of instructor. Techniques of merchandising fashion apparel, accessories, housewares, major and minor appliances, and furniture. Major approaches used in planning and analyzing sales and stock records and the use of operating and

financial data to make profitable merchandising decisions, as well as market planning.

BUS 430 BUSINESS STRATEGY

3, 3/0; 1991-93
Prerequisite: BUS 312, CIS 101, ECO 201 or 202. The purpose of this course is to study the actual methods and techniques commonly employed in management decision-making in business and industry. Through use of management simulation programs and actual case studies the student will be given the opportunity to make all major decisions of the operations of a company for 2½ years of simulated business activities. In addition, attention will be given to the role business/labor management relations play in scheduling and continuing business operations.

BUS 440 BUSINESS SENIOR SEMINAR

3, 3/0; Sp 91, 92, 93
Prerequisite: BUS 116 or BUS 117, seniors only. Designed to help business students in the transition to professional employment. Will cover such areas as career paths and employment opportunities, employee benefit packages and policies, Affirmative Action programs, Equal Employment Opportunity, on-the-job considerations and other related subjects.

BUS 490 FIELD EXPERIENCE

Credit to be arranged.
Prerequisite: junior or senior standing. Provides non-business students the opportunity to have experience related to their majors in public or private agencies, business organizations, educational institutions. Registration by permission of the faculty. Obtain necessary forms in CS 301.

Chemistry

Certified by the American Chemical Society
Offered by the Chemistry Department
DR. EDWARD M. SCHULMAN, Chairperson
Science Building 313

CHE 100 CHEMISTRY AND SOCIETY

3, 3/0; 1991-93 (M)
A non-mathematical approach to the study of matter. Presentation of the fundamentals of chemistry followed by such socially-relevant subjects as toxic waste management, environmental pollution, space technology, agricultural chemistry, chemistry of consumer products, food processing, polymers and plastics.

CHE 101 GENERAL CHEMISTRY I

3, 2/3; 1991-93 (M)
Basic principles of chemistry, including atomic

and molecular structure. Gases, liquids, solids, and solutions. Chemical reactions: acids and bases. *Not open to chemistry majors.

CHE 102 GENERAL CHEMISTRY II

3, 2/3; 1991-93 (M)
Prerequisite: CHE 101. A continuation of General Chemistry I; includes chemical equilibria, electrochemistry, metals and non-metals, some fundamentals of organic chemistry, polymers, fibers and plastics, natural products, some fundamentals of biochemistry. *Not open to chemistry majors.

CHE 111 FUNDAMENTALS OF CHEMISTRY I

4, 3/3; 1991-93 (M)
Fundamental principles of chemistry, with illustrative laboratory work of a quantitative nature. *Required of all chemistry and criminalistics majors.

CHE 112 FUNDAMENTALS OF CHEMISTRY II

4, 3/3; 1991-93 (M)
Prerequisite: CHE 111. A continuation of Fundamentals of Chemistry I; to develop the concepts of kinetics, equilibria, and energetics as preparative material for further study in chemistry or other areas of science. Laboratory work in semi micro qualitative inorganic analysis and physicochemical experiments. *Required of chemistry and criminalistics majors.

CHE 201 ORGANIC CHEMISTRY I

3, 3/0; 1991-93 (E)
Prerequisite: CHE 112. Chemistry of carbon compounds. Bonding, stereochemistry, and structure theory. Fundamental reactions of the functional groups considered from the mechanistic standpoint.

CHE 201L ORGANIC CHEMISTRY LABORATORY I

1, 0/3; 1991-93 (E)
Prerequisite: CHE 201 or concurrent registration. An introduction to basic organic laboratory operations. Methods of isolation, purification, and identification of organic compounds. Experiments will be chosen from a variety of possible topics such as synthesis, qualitative organic analysis, and mechanistic studies.

CHE 202 ORGANIC CHEMISTRY II

3, 3/0; 1991-93 (E)
Prerequisite: CHE 201. A continuation of Chemistry 201.

CHE 202L ORGANIC CHEMISTRY LABORATORY II

1, 0/3; 1991-93 (E)
Prerequisite: CHE 202 (or concurrent registration) and CHE 201L. A continuation of Chemistry 201L.

CHE 301 ANALYTICAL CHEMISTRY

4, 2/6; Sp 92, 93 (E)
Prerequisite: CHE 112. Theory and laboratory applications of quantitative analytical chemistry. Gravimetric, volumetric, electrochemical, and spectrophotometric methods will be covered.

CHE 305 PHYSICAL CHEMISTRY I

3, 3/0; F 91, 92
Prerequisite: CHE 202, MAT 263 and PHY 112. A study of the laws governing the behavior of chemical systems (thermodynamics, kinetic theory of gases, and the structure of matter).

CHE 305L PHYSICAL CHEMISTRY LABORATORY I

1, 0/3; F 91, 92
Prerequisite: CHE 202L, CHE 301 and CHE 305 (or concurrent registration). A laboratory study of fundamental chemical principles.

CHE 306 PHYSICAL CHEMISTRY II

3, 3/0; Sp 92, 93
Prerequisite: CHE 305. Applications of thermodynamics to physical and chemical equilibria. The statistical and quantum basis for chemical structure and reactivity.

CHE 306L PHYSICAL CHEMISTRY LABORATORY II

1, 0/3; Sp 92, 93
Prerequisite: CHE 305L and CHE 306 (or concurrent registration). A laboratory study of fundamental chemical principles.

CHE 310 LITERATURE OF CHEMISTRY

1, 1/0; Sp 91, 92 (E)
Prerequisite: CHE 201 or concurrent registration. Sources of chemical literature. Experience in chemical information searching and retrieval, including examples of computer searching.

CHE 312 CHEMISTRY AND CRIMINALISTICS

3, 3/0; Sp 92, 93 (E)
Prerequisite: CHE 201, 321, 102 or 100 (with permission of instructor). The use of chemistry as an investigative aid in the process of criminal justice. General chemical techniques used in criminal investigations. The function of the criminalist considered from the gathering of evidence to the final presentation of expert testimony.

CHE 315 ENVIRONMENTAL CHEMISTRY

3, 3/0; F 90, 91 (E)
Prerequisite: CHE 112 or 102 (with permission of instructor). Discussion of chemical reactions occurring in air, water, and soil. Effect of human activities on the chemical environment. Pollution control methods and devices.

**CHE 321
PRINCIPLES OF ORGANIC CHEMISTRY**

4, 3/3; F 90, 91 (E)

Prerequisite: CHE 102 or CHE 112. A survey of organic chemistry including a treatment of the variety of functional groups and their chemical behavior. *Not open to chemistry majors.

**CHE 322
BIOLOGICAL CHEMISTRY**

4, 3/3; Sp 91, 92 (E)

Prerequisite: CHE 321 or CHE 202. Discussion of structure and functions of the substances of biochemical interest found in living systems supplemented by illustrative laboratory work. *Not open to chemistry majors.

**CHE 399
INTERNSHIP IN CHEMISTRY**

Up to 6, 40/week; 1991-93

Prerequisite: Approval of the Co-Op Committee must be secured prior to registration. Hands-on experience on approved research and/or development project of current interest to local chemical industry. The student will be a full-time employee of the industry drawing full pay for the designated period.

**CHE 400
INORGANIC CHEMISTRY**

4, 4; Sp 92, 93

Prerequisite: CHE 305. An introduction to modern inorganic chemistry with special emphasis on periodic variations of structural and bonding patterns among inorganic compounds and on the kinetic and thermodynamic factors which govern the preparation and relative stabilities of inorganic compounds.

**CHE 401
BIOCHEMISTRY**

4, 3/3; F 91, 92

Prerequisite: CHE 305. Study of the structure, function, and metabolism of the classes of compounds found in living systems. Relationship of enzymology to metabolism and the cellular control of metabolism.

**CHE 403
INSTRUMENTAL ANALYSIS**

4, 2/6; F 91, 92

Prerequisite: CHE 301, CHE 305. Chemical analysis and structure determination through study of the theory and operation of instruments involving visible, ultraviolet, infrared, and atomic absorption spectrophotometry; emission spectroscopy, colorimetry; flame photometry; chromatography; nuclear magnetic resonance spectroscopy.

**CHE 410
ADVANCED SYNTHETIC METHODS**

4, 2/6; Sp 92, 93

Prerequisite: CHE 305, 400, or concurrent registration. An introduction to the theory of synthesis and advanced synthetic techniques via the synthesis and characterization of selected inorganic, organic, and organometallic compounds.

**CHE 412
INTERNSHIP IN CRIMINALISTICS**

Up to 3; 1991-93

Prerequisite: CHE 403 and senior standing. Field experience in a forensic laboratory involving routine and research work in forensic chemistry. *Required of all criminalistics majors.

**CHE 430
ORGANIC CHEMISTRY III**

3, 3/0; Sp 92

Prerequisite: CHE 305. A study of advanced topics in theoretical and physical organic chemistry with emphasis on reaction types, mechanisms, and structure.

**CHE 495
PROJECT**

Prerequisite: Approval of the faculty project adviser must be secured prior to registration.

**CHE 499
INDEPENDENT STUDY**

Prerequisite: Approval of faculty project adviser must be secured prior to registration.

**Communication
(formerly Journalism,
Broadcasting and Speech)**

Offered by the Communication Department
DR. W. RICHARD WHITAKER, Chairperson
Bishop Hall 234

**COM 100
INTRODUCTION TO MASS
COMMUNICATION**

3, 3/0; 1991-93 (H)

Historical development, present patterns, potentialities of the media in a climate of freedom and responsibility. Standards of critical analysis, aesthetic discrimination, and intelligent selection in using media.

**COM 101
WRITING FOR THE PRINT MEDIA**

3, 2/2; 1991-93

Prerequisite: ENG 101 & 102. Discussions and laboratory practice in organizing and writing various news and feature stories for the different print media. 25 w.p.m. typing speed required. *Required of all journalism majors.

**COM 102
INTRODUCTION TO BROADCASTING**

3, 3/0; 1991-93

An examination of current programming, philosophies, social effects, and possible developments in radio and television broadcasting. *Required of all broadcasting majors.

**COM 103
INTRODUCTION TO HUMAN
COMMUNICATION**

3, 3/0; 1991-93 (H)

An investigation of the cultural bases of human communication. Emphasis on rhetorical forms available for the achievement and implementation of social power. Focus on the scientific study of communication, especially theory, constructs, abstractions, and logic.

**COM 201
BROADCAST COPYWRITING**

3, 2/2; 1991-93

Prerequisite: ENG 101 & 102. Discussions and laboratory practice in organizing and writing various news and feature stories for the different media. *Required of all broadcasting majors.

**COM 203
WRITING FOR PUBLICATION**

3, 2/2; 1991-93

Prerequisite: COM 100, 101. Principles and practices of news reporting and writing with special emphasis on news gathering.

**COM 205
EXPERIENCES IN SPEECH**

3, 3/0; 1991-93 (H)

A study of the total speech process through the introduction to speech physiology and the applied skills of public speaking, discussion, and oral interpretation. (Not to be taken after advanced speech courses.)

**COM 206
SPEECH TRAINING FOR THE
COMMUNICATION PROFESSIONS**

3, 3/0; Sp 92, 93

A course that teaches the principles of broadcast performance. Students learn the rudiments of voice and diction and the proper interpretation of broadcast copy. This course is recommended for those students interested in TV or radio talent career.

**COM 222
PRINCIPLES OF BROADCASTING**

3, 3/0; 1991-93

Prerequisite: COM 100. An examination of current philosophies and developments in radio and TV broadcasting plus the legal and procedural knowledge necessary for the successful completion of studio production. *Required of all broadcasting majors.

**COM 301
PUBLIC RELATIONS/ADVERTISING**

3, 2/2; 1991-93

Prerequisite: COM 100, 101. Study of the principles and social responsibility of public relations and advertising. Fact finding, planning, communication, and evaluation. Theories and uses of public relations and advertising in contemporary society.

**COM 302
INTERVIEWING**

3, 3/0; 1991-93

Prerequisite: COM 101 or 205. The theory, research, forms, and techniques of interviewing for the mass media. Practicum experience in the classroom, the studio, and on the street. Offered in print and broadcast sections.

**COM 305
NEWS REPORTING**

3, 2/2; 1991-93

Prerequisite: COM 100, 101. Additional prerequisites: COM 319 (may be taken concurrently). Principles and practices of the news gathering and writing processes. Emphasis on news recognition, reporting, and preparation. News beats, news sources, research, accuracy, comprehensiveness, and investigation through work with Bengal News Service.

**COM 306
PUBLIC SPEAKING**

3, 3/0; 1991-93 (E)

Prerequisite: COM 205. Organization, delivery, and evaluation of public speeches in a variety of speaking situations.

**COM 307
COMMUNICATION AND GROUP
PROCESSES**

3, 3/0; 1991-93 (E)

Prerequisite: COM 205. An interdisciplinary approach to discussion which examines the theoretical and practical dimensions of communication in small group decision making and problem solving communication.

**COM 308
PUBLIC RELATIONS WRITING**

3, 2/2; 1991-93

Prerequisite: COM 100, 101. A survey of all aspects of public relations writing and editing with practice in applying the techniques discussed.

**COM 309
PERSUASIVE SPEAKING**

3, 3/0; Sp 92, 93 (E)

Prerequisite: COM 205. The format and procedure of argumentation with practice in preparation and delivery of persuasive speeches to diverse audiences.

**COM 310
INTERNATIONAL COMMUNICATION**

3, 3/0; Sp 92, 93 (E)

Prerequisite: Upperclass standing. Analyzes the role of international communication in today's global society by a comparative study of the world's press and broadcasting systems. Topics include journalistic values of other countries, differing philosophies of broadcasting, and the process of international communication within the framework of North-South, social, economic, and political divisions of the late 20th century.

**COM 317
BROADCAST SALES AND
MANAGEMENT**

3, 3/0; Sp 92, 93

Prerequisite: COM 100, 222, upperclass standing. The structure, organization, procedures, and problems of radio and television systems management and sales; case studies relating to broadcasting management and sales including personnel, programming, sales development, station promotion, and special problem areas.

**COM 319
NEWS EDITING**

3, 2/2; 1991-93

Prerequisite: COM 100, 101, 203. Fundamentals of copy editing, headline writing, and makeup. Practice in the relevant skills. *Required of all journalism majors.

**COM 322
LAYOUT AND GRAPHICS**

3, 2/2; 1991-93

Prerequisite: COM 301 or 319. The application of effective visual communication to newspaper layout, magazine layout, and other printed publications.

**COM 323
DESKTOP PUBLISHING/
NEWSPAPER DESIGN**

3, 2/2; 1991-93

Prerequisite: COM majors or permission of instructor. Study of the principles of newspaper page design and typography; the use of those principles to create, through desktop publishing, newspaper pages, brochures, and newsletters.

**COM 325
MAGAZINE ARTICLE WRITING**

3, 3/0; Sp 92, 93

Prerequisite: COM 101, or permission of instructor. Writing articles for magazines and professional journals and features for newspapers with the main emphasis on magazine article writing. Study of marketing requirements of various periodicals and newspapers plus freelancing methods and techniques.

**COM 326
EDITORIAL AND CRITICAL WRITING**

3, 3/0; F 91, 92

Prerequisite: COM 101 or permission of instructor. Techniques, purposes, and current practices in writing and presenting the editorial, the critical review, and the individual column. Extensive writing practice in each area.

**COM 328
RADIO STUDIO OPERATIONS**

3, 2/2; 1991-93

Prerequisite: COM 100, 222, majors. An introduction to the fundamentals of radio broadcasting and radio production techniques, designed to provide a laboratory experience in the principles and techniques of the radio station. It is the corollary of COM 329, Beginning Television

Studio Operations. *Required of all broadcasting majors.

**COM 329
BEGINNING TELEVISION STUDIO
OPERATIONS**

3, 2/3; 1991-93

Prerequisite: COM 201, 222. An introduction to the fundamentals of television theory, aesthetics, and production through lecture and in-studio production projects.

**COM 330
INTERMEDIATE TELEVISION STUDIO
OPERATIONS**

3, 2/2; 1991-93

Prerequisite: COM 329, or permission of instructor. A practical program of training in the operation of television studio production techniques and equipment. The course provides students with experience in camera work, direction, production, and programming.

**COM 332
CONTEMPORARY ISSUES IN
BROADCASTING**

3, 3/0; 1991-93

Prerequisite: COM 100, 222. A current problems approach to an understanding of and an appreciation for the development of the broadcasting industry. *Required of all broadcasting majors.

**COM 337
BROADCAST NEWS WRITING**

3, 3/0; 1991-93

Prerequisite: COM 101. Study and practice in the special application of news writing and editing to the broadcasting media. Use of wire copy, tape recorders, and video cameras in producing newscasts. *Required of all journalism majors in broadcast news writing track.

**COM 340
PHOTOJOURNALISM**

3, 2/2; 1991-93

Prerequisite: COM majors only. COM 203 or permission of instructor. Basic techniques of news photography as practiced by newspapers and magazines, with laboratory and field assignment experience. Note: 35mm camera with meter and full manual controls is required.

**COM 400
LAW OF MASS COMMUNICATION**

3, 3/0; 1991-93

Prerequisite: Upperclass standing. Study of the rights and constraints of the mass media under law; libel, privacy, contempt, copyright, free press-fair trial.

**COM 401
COMMUNICATION THEORY**

3, 3/0; 1991-93

Prerequisite: Upperclass standing. A study of communication theory, research, and philosophy. Emphasis is upon applications of communication theory to the message design and source-receiver identification.

**COM 402
VISUAL AND ORAL COMMUNICATION**

3, 3/0; 1991-93 (E)

Prerequisite: Upperclass standing. Practical applications of media to the solution of specific communications problems. Experience with a wide range of visual and oral communication media techniques.

**COM 407
ORGANIZATIONAL COMMUNICATION**

3, 3/0; 1991-93

Prerequisite: COM 205, 308, or permission of instructor. The structure, behavior, and message strategies in an organization, including practice in creating and exchanging effective verbal and nonverbal communication in an organization.

**COM 408
PUBLIC RELATIONS CASE STUDIES**

3, 3/0

Prerequisite: COM 301, 308, majors only. A course for advanced students in Public Communication, stressing the application of communication principles, techniques, and programs to real-life organization problems and opportunities.

**COM 410
HISTORY OF MASS COMMUNICATION**

3, 3/0; F 91, 92

Prerequisite: Upperclass standing. Historical survey of the technology and social evolution of journalism and the broadcasting industries, including an analysis of their roles in American society.

**COM 412
BROADCAST PROGRAMMING**

3, 3/0; F 91, 92

Prerequisite: COM 100, 222, upperclass standing. An examination of the strategy of broadcast programming. The course analyzes both television and radio programming situations. Topics include network, local affiliate, and independent television programming along with AM and FM programming trends.

**COM 415
ADVANCED REPORTING**

3, 2/2; 1991-93

Prerequisite: COM 305. Techniques, problems, and trends in modern depth reporting. Practice in developing and writing stories on a wide variety of subject areas.

**COM 418
PRINCIPLES OF
PUBLICITY COPYWRITING**

3, 2/2; 1991-93

Prerequisite: COM 308 or permission of instructor. Writing techniques for publicity and advertising. Practice in purposive communication including news releases, pamphlets, publicity campaigns, advertising copy and layout, type selection, media selection.

**COM 421
RHETORICAL CRITICISM**

3, 3/0; Sp 92, 93

Prerequisite: Upperclass standing. Instruction in the analysis of persuasive messages, designed to teach students to recognize and respond analytically to strategies used by public persuaders to influence them. Focus on political speeches, commercial advertising, protest music, and a variety of other forms of purposeful communication.

**COM 422
MASS MEDIA CRITICISM**

3, 3/0; F 91

Prerequisite: Upperclass standing. An introductory course in the analysis and criticism of such mass media artifacts as advertisements, newscasts, political messages, docudramas, situation comedies, soap operas, and religious programming, aimed at providing students with an understanding of the persuasive impact of such communication.

**COM 424
VIETNAM AND THE MEDIA**

3, 3/0; Sp 92, 93

Prerequisite: Upperclass standing. An examination of the role of the print and electronic media in the coverage, depiction, and "re-creation" of the Vietnam war and the Vietnam veteran.

**COM 429
ADVANCED TELEVISION AND STUDIO
OPERATIONS**

3, 4/0; 1991-93

Prerequisite: COM 330, permission of instructor. A practical program with emphasis on individual training in specialized production techniques of television studio operation.

**COM 430
BROADCAST LAW AND REGULATION**

3, 3/0; 1991-93

Prerequisite: Upperclass standing. The course examines such issues as why the First Amendment permits greater regulation of broadcasters than of the press. Regulation pertinent only to broadcasting will be examined in depth: the fairness doctrine and the equal time provisions. Also examined: speech which is not protected by the First Amendment, FCC regulations, and copyright problems.

**COM 440
ELECTRONIC NEWS GATHERING**

3, 2/2; 1991-93

Prerequisite: COM 329, 330. Provides a perspective of electronic news gathering based upon its history and ethics. Teaches the techniques of shooting and editing videotaped news stories. Using 3/4-inch portable equipment, students will shoot stories for news and feature programs.

**COM 488
INTERNSHIP**

3; 1991-93

Prerequisite: Upper division standing and per-

mission of faculty. Supervised field experiences in a professional setting for students who have completed extensive academic preparation in the discipline. Fifty hours of field work in journalism, broadcasting, or public relations—advertising per credit.

**COM 495
PROJECT****COM 499
INDEPENDENT STUDY**

Computer Information Systems (formerly Information Systems Management)

Offered by the Computer Information Systems Department
DR. WILLIAM C. SCHULTZ, Chairperson
Chase Hall 201

**CIS 101
COMPUTER FUNDAMENTALS**

3, 3/0; 1991-93 (T)

A study of the characteristics, organization, and use of the computer. The function of the basic portions of the computer will be identified and explained. Minor emphasis is placed on computer programming fundamentals with the writing of several short programs. A broad survey of applications, as well as impact on society, will be discussed. *Course does not apply toward the fulfillment of CIS elective requirements for CIS majors.

**CIS 111
INTRODUCTION TO FORTRAN**

3, 3/0; 1991-93 (T)

Prerequisite: CIS 101 or equivalent. Description of computers; concepts of languages and programming. FORTRAN language programming including a study of basic properties of computer languages such as branching, looping, table handling, subprograms and their application to the solution of a variety of problems. Enhancement of FORTRAN programming skills through actual use of the computer. *Course does not apply toward the fulfillment of CIS elective requirement by CIS majors.

**CIS 151
COMPUTER BASED INFORMATION
PROCESSING I**

3, 3/0; 1991-93 (E)

Prerequisite: CIS 101 or equivalent. Description of computers; concepts of languages and programming; study of basic properties of computer languages such as branching, looping, table handling, subprograms and their application to

the solution of a wide variety of problems. Emphasis on structured language with enhancement of programming skills through actual use of the computer. *Required for majors. Prospective CIS majors must earn at least a C in this course.

**CIS 201
INTRODUCTION TO MICROCOMPUTER
APPLICATIONS**

3, 3/0; 1991-93 (E)

Prerequisite: CIS 101. Introduction to microcomputers and popular applications. Students will work with several current software packages used for business applications. *Course does not apply toward the fulfillment of CIS elective requirement by CIS majors.

**CIS 214
INTERACTIVE COMPUTING**

3, 3/0

Prerequisite: CIS 151 or permission of instructor. A thorough review of interactive computer systems and languages will be undertaken. Applications of interactive computer to the management information field as well as to a wide variety of other disciplines such as mathematics, social sciences, engineering and physical sciences will be described. Projects will be assigned enhancing the student's knowledge of the various languages such as APL and BASIC as well as the different interactive systems supporting these languages.

**CIS 251
COMPUTER BASED INFORMATION
PROCESSING II**

3, 3/0; 1991-93

Prerequisite: CIS 151 or equivalent. Continuation of CIS 151. Description of computer units, data, memory, systems analysis and how data is processed. Emphasis on structured programming languages, such as Pascal, PL/1, ALGOL. *Required for majors.

**CIS 260
DATA STRUCTURES**

3, 3/0

Prerequisite: CIS 251. A study of properties of various techniques for representing relationships between data elements and between records (lists, trees, networks, stacks, etc.). Storage and processing implications. Programming assignments will be used to enhance classroom lectures.

**CIS 311
MANAGEMENT SCIENCE/OPERATIONS
RESEARCH COMPUTING (proposed)**

3, 3/0; 1991-93

Prerequisite: CIS 370. Development of quantitative models that are used in solving management science problems. Computer programs will be used to solve typical problems in management science. *Required for majors.

**CIS 315
COMPUTER ORGANIZATION**

3, 3/0; 1991-93

Prerequisite: CIS 151. Description of the hardware aspects of computer systems. Familiarize the student with hardware design and structural organization of a computer system. *Required for majors.

**CIS 318
SIMULATION AND MODELING**

3, 3/0

Prerequisite: CIS 311, MAT 111. Models and the scientific methods. Characteristics of simulation models. Models of dynamic systems for machine implementation. Simulation languages. Model design. Experimental optimization. Application of computer modeling, using a simulation language, to specific areas such as queueing.

**CIS 350
ASSEMBLY LANGUAGE
PROGRAMMING**

3, 3/0; 1991-93

Prerequisite: CIS 315. One assembler-type language will be covered depth. Programming assignments will be made to develop skills in utilizing a low level language. The student will gain understanding of basic features such as main storage, registers, and the actual instruction set. *Required for majors.

**CIS 351
STRUCTURED PROGRAMMING**

3, 3/0

Prerequisite: CIS 251. Introduce the student to additional structured techniques or structured programming languages. Programs, assignments and examples will extend the student's knowledge of Data Structures and File Structures as well as illustrate language features.

**CIS 370
SYSTEMS ANALYSIS AND DESIGN**

3, 3/0; 1991-93

Prerequisite: CIS 151. To introduce the student to information analysis and system design. Topics include: the systems concept, defining a system, systems analysis, hardware elements, software elements, case studies. *Required for majors.

**CIS 380
MICROCOMPUTER APPLICATIONS**

3, 3/0; 1991-93

Prerequisite: CIS 370. Description of the microcomputer hardware and operating systems. Students will work with several current software packages used for business applications.

**CIS 390
COMPUTER GRAPHICS**

3, 3/0

Prerequisite: CIS 311, 370, junior or senior standing. An introduction to the software, hardware, and aesthetics of computer graphics with emphasis on forms commonly used for bus-

iness purposes. Coverage will include theory of computer graphics, purposes, principles and techniques of communication using graphic forms, practical graphics programming, and an introduction to software packages and hardware systems in current graphics technology. Hands-on programming exercises will permit students to create graphic forms representing constructs studied in the classroom. Interactive graphics in the form of CAD/CAM, games, and simulation will be considered.

**CIS 405
COMPREHENSIVE COBOL
PROGRAMMING**

3, 3/0; 1991-93

Prerequisite: CIS 251. An intensive study of the COBOL language and its uses for commercial applications. Emphasis on COBOL fundamentals and advanced features, program design and style, and file handling. Programming projects will involve commercially-oriented applications programs in an IBM environment. *Required for majors.

**CIS 410
COMPUTER OPERATING SYSTEMS**

3, 3/0; 1991-93

Prerequisite: CIS 315, CIS 350 or concurrent registration. A study of computer operating systems, their functions and components. Scheduling and execution of jobs, task management and interrupts. Case studies of currently used operating systems. *Required of majors.

**CIS 411
DATABASE SYSTEMS**

3, 3/0; 1991-93

Prerequisite: CIS 370. A study of the basic concepts and uses of Database systems. Topics include organization, analysis, and function of database systems. Components of representative CODASYL, Hierarchic and Relational Databases will be presented. *Required for majors.

**CIS 420
DATA BASE MANAGEMENT SYSTEMS**

3, 3/0

Prerequisite: CIS 411. Advanced concepts of Database Management including Data Modeling, features and uses of Database Management Systems, Data and Data Base Administration, and Data Dictionary.

**CIS 425
COMPARATIVE COMPUTER
LANGUAGES**

3, 3/0

Prerequisite: CIS 405. The structure and properties of several representative languages will be compared and evaluated. Programming projects will be assigned to illustrate various concepts.

**CIS 430
APPLIED COBOL**

3, 3/0

Prerequisite: CIS 405. The use of COBOL in a variety of environments including batch, inter-

active and with a data base management system. Emphasis on file handling and design. Programming projects.

CIS 435 COMPUTER SEMINAR

3, 3/0; offered based on staff availability. **Prerequisite:** Permission of instructor. Topics will be selected from subjects not covered in formal courses.

CIS 442 ADVANCED SYSTEMS APPLICATIONS

3, 3/0; 1991-93
Prerequisite: CIS 411. Information systems in complex organizations. Techniques of information systems analysis and design. Detailed study of a representative real-world information system. Case studies, group work, and oral presentations. *Required for majors.

CIS 450 ADVANCED ASSEMBLY LANGUAGE PROGRAMMING

3, 3/0
Prerequisite: CIS 350. IBM 360/370 assembler language will be covered in detail. Students will learn advanced features of the language and write several programs using the language.

CIS 470 DATA COMMUNICATIONS

3, 3/0; 1991-93
Prerequisite: CIS 315. Survey of technical, regulatory, systems, and management aspects of computer data communications. Theory of communications, concepts of hardware implementing that theory, and protocols and conventions essential to efficient operation will be covered in detail. In addition LAN's, packet switching networks and other forms of organization will be treated along with communication integrity and regulatory issues central to data communications systems planning and implementation. *Required for majors.

CIS 480 OFFICE INFORMATION SYSTEMS

3, 3/0
Prerequisite: CIS 470 or senior standing. Study of the technology being brought into office information systems; local area networks, microcomputers, linking micros to mainframes, vendor selection, integrated system.

CIS 481 C PROGRAMMING LANGUAGE

3, 3/0
Prerequisite: Two programming classes beyond CIS 101. The C programming language will be covered in depth. Several programs will be assigned as laboratory exercises to develop the students' skills in the language. This course qualifies as a CIS restricted elective.

CIS 488 INTERNSHIP

3, 3/0; 1991-93
Prerequisite: Junior or senior standing and permission of instructor. Qualified students will be placed in functioning organizations to work as trainees, on special projects, studies, or in any relevant aspect of real-world data processing.

CIS 495 PROJECT

Offered based on staff availability.

CIS 499 INDEPENDENT STUDY

Offered based on staff availability.

Creative Studies

Offered by the Center for Studies in Creativity DR. SCOTT G. ISAKSEN, Director
Chase Hall 244

CRS 205 INTRODUCTION TO CREATIVE STUDIES

3, 3/0; F, Sp, S 1991-93 (E)
The purpose of this course is to increase the degree to which students recognize and nurture their creative potential. The course focuses on four aspects of creativity: the creative person, the creative process, the creative product, and the creative environment. It further emphasizes the interactive nature of these elements and provides for individual application in personal and professional settings.

CRS 302 CREATIVE APPROACHES TO PROBLEM SOLVING

3, 3/0; F, Sp 1991-93 (E)
Prerequisite: CRS 205. This course will allow students to develop skill in using a broad array of creative problem solving methods and techniques. The emphasis of this course is on the application of these technologies to challenges, goals, and opportunities students face in their personal and professional lives.

CRS 303 CREATIVE LEADERSHIP THROUGH EFFECTIVE FACILITATION

3, 3/0; F 1991-93 (E)
Prerequisite: Instructor Permission. This course will provide students with exposure to and practice in leadership and facilitation concepts as they relate to creative problem-solving groups. Students will examine their leadership style and study specific methods and techniques to help in working with groups. Students will apply these concepts and skills to their own leadership roles.

CRS 304 DEVELOPING CREATIVE PROBLEM SOLVING FACILITATION SKILL

3/0; Sp 1991-93 (E)
Prerequisite: CRS 205, CRS 302, CRS 303 and permission of instructor. This course is designed to develop and apply facilitation and leadership skills in a variety of settings. Students will participate in supervised practice using creative problem-solving techniques with groups and individuals.

CRS 305 SEMINAR/METAPHORICAL PROBLEM SOLVING

1, 1/0; F 1991-93
Prerequisite: CRS 205, CRS 302 and instructor permission. Selected topics of current interest related to theories, methods, and models of metaphorical problem solving with a particular emphasis on synectics.

CRS 306 SEMINAR/CRITICAL/ANALYTICAL PROBLEM SOLVING

1, 1/0; F 1991-93
Prerequisite: CRS 205, CRS 302 and instructor permission. Selected topics of current interest related to methods, techniques, and models of problem solving with particular emphasis on creative analysis and Kepner-Tregoe approaches.

CRS 320 APPLICATIONS OF CREATIVITY AND INNOVATION

3, 3/0; 1991-93
This course is designed to provide students with a general awareness of how creative persons apply creative processes within a creative environment to produce novel and useful products. It explores the nature of creative persons and those factors that encourage or inhibit creative outcomes. A general awareness of research in the field is examined to provide personal experience about the application of creativity in the arts, science, education, and business. Students will develop their personal creative ability through class activities, readings, and interaction with guest lecturers.

Criminal Justice

Offered by the Criminal Justice Department DR. JOHN A. CONLEY, Chairperson
Classroom Building C114

CRJ 101 INTRODUCTION TO CRIMINAL JUSTICE

3, 3/0; 1991-93 (T)
This course examines the structure, function, practices, policies, and objectives of the criminal

justice system. The course will emphasize three themes underlying all stages of the criminal justice system: (1) resource scarcity, (2) discretionary powers, and (3) interdependence or exchange relationships among criminal justice agencies.

CRJ 201 CRIMINAL LAW AND PROCEDURE

3, 3/0; 1991-93 (T)
Prerequisite: CRJ 101. This course is designed to offer the student a clear understanding of the substantive and procedural processes used by the criminal justice system. Various laws and procedures which are applied by law enforcement, prosecutors, attorneys, and the judiciary are presented and discussed in an effort to provide the student with an overall understanding of the criminal law and its procedures.

CRJ 202 THE POLICE PROCESS

3, 3/0; 1991-93
This course provides a comprehensive introduction to the basic elements of policing in the United States. It is designed to acquaint the student with the most current knowledge about police organizations, police officers, police work, and the more critical police problems.

CRJ 203 CRIME, IDEOLOGY AND THE ADMINISTRATION OF JUSTICE

3, 3/0; 1991-93
Prerequisite: CRJ 101. This course examines the social, political, cultural and economic forces that shape the historical and contemporary ideologies of crime. It also examines the influences different ideologies of crime have upon the policies and practices of the criminal justice system.

CRJ 204 THE CORRECTIONAL PROCESS

3, 3/0; 1991-93
This course surveys the correctional process from sentencing to parole, examining the various legal and administrative processes used in establishing post-conviction remedies, criminal sanctions, and social controls on adult offenders. An emphasis will be given to understanding the structure and function of American correctional system, and the various processes in establishing correctional custody and treatment.

CRJ 301 POLICE ORGANIZATION AND MANAGEMENT

3, 3/0; 1991-93
Prerequisite: CRJ 101 or permission of instructor, and junior standing. Analysis of administrative theory and practice in police systems with emphasis on organization and function and on issues unique to those systems.

CRJ 302 CRIMINAL JUSTICE AND THE COMMUNITY

3, 3/0; 1991-93 (E)
An examination of patterns of crime in the community and of the community's response; differences between urban and suburban areas, as well as by age, gender and race; inquiry into practices and effects of diversion, community-based corrections, victim-witness programs, crime watch, court watch, restitution, mediation and dispute resolution programs.

CRJ 305 THE JUVENILE JUSTICE SYSTEM

3, 3/0; 1991-93
Prerequisite: CRJ 101 and SOC 390 and junior standing. An overview of the structure and function of the juvenile justice system, the various statutes and court decisions used to determine jurisdiction over youth, an examination of the critical decision-making stages of the juvenile court process, and a review of the research concerning the relative effectiveness of treatment and social control programs for youth. An emphasis will be placed on the historical, cultural, social, and legal influences governing the process, priorities, and practices of juvenile justice.

CRJ 306 PROBATION, PAROLE AND COMMUNITY CORRECTIONS

3, 3/0; 1991-93
Prerequisite: CRJ 101 and junior standing. A review of probation, parole and community corrections; their histories and organizational structures, the nature and the effects of the process by which offenders are handled, as well as the dynamics and trends toward change in the field of probation, parole and community-based corrections.

CRJ 307 COMPARATIVE CRIMINAL JUSTICE SYSTEMS

3, 3/0; 1991-93
Prerequisite: CRJ 101. This course examines the major contemporary criminal justice systems and their operations under various cultural contexts. Efforts will focus on the social, economic, political, and ideological forces which have impacted the various systems as they are today. Methodological issues of comparative research will also be included in the discussion.

CRJ 315 RESEARCH METHODS IN CRIMINAL JUSTICE

3, 3/0; 1991-93
Prerequisite: CRJ 101, ECO 305 or equivalent statistics course and junior standing. Introduction to the elements of the research process as it is practiced in criminal justice: definition of problem, delineating theory, various methods of data collection, examination of validity and reliability. Use of research devices in everyday criminal justice is discussed, and students participate in some aspect of research.

CRJ 316 FIELD STUDIES

6, 3/8; varies by need
This course provides for the integration of theoretical knowledge with practical field work gained by working a minimum of one day (8 hours) a week in a criminal justice agency. Weekly seminar also required. (Inservice students must be placed in fields other than that in which they are employed.) *Graded S/U.

CRJ 317 CONSTITUTIONAL ISSUES IN CRIMINAL JUSTICE

3, 3/0; 1991-93 (E)
Prerequisite: CRJ 101, CRJ 201, and junior standing or permission of instructor. This course examines constitutional issues emerging within the context of the criminal justice system; law enforcement, prosecution, defense, judiciary, corrections, and community supervision. U.S. Supreme Court decisions reversing and modifying previous case law and effecting criminal justice practice and policy will be presented and discussed.

CRJ 402 ADVANCED ADMINISTRATION IN CRIMINAL JUSTICE

3, 3/0; 1991-93
Prerequisite: CRJ 101, junior standing, and completion of introductory course in Pub. Admin., Bus. Mgmt. or CRJ Admin. This is an advanced course in management concepts and issues applicable to the administration of criminal justice agencies. Emphasis will be placed on a systems model of organizational analysis. Areas such as the external environment of crime control policy and its impact upon agency operations, internal agency management, and the responsibilities and functions of crime control agency managers will be examined.

CRJ 406 CORRECTIONAL INSTITUTIONS AND PROGRAMS

3, 3/0; 1991-93
Prerequisite: CRJ 101, 204, junior standing, or permission of instructor. This course provides a comprehensive survey of adult institutional corrections systems, their programs and services, and the policies and procedures governing the operational, legal, and structural context of correctional environments. An emphasis will be given to the analysis of organizational and social dynamics which effect the relative success or failure of various correctional interventions and programs.

CRJ 408 PROSEMINAR IN CRIMINAL JUSTICE

3, 3/0; topic varies
Investigation, examination, and discussion of topics of current interest in criminal justice, techniques and analysis of criminal justice research.

CRJ 409
ADVANCED ISSUES IN
LAW ENFORCEMENT

3, 3/0; 1991-93

Prerequisite: CRJ 101, CRJ 202, junior standing, or permission of instructor. This is an advanced course looking at contemporary issues in law enforcement. It is designed to provide insight and depth into a broad range of topics and to expose the student to a variety of experts and specialists from various disciplines as they relate to these topics.

CRJ 420
ADVANCED ISSUES IN PUNISHMENT
AND CORRECTIONS

3, 3/0; 1991-93

Prerequisite: CRJ 101, CRJ 204 or CRJ 406 and SOC 383, junior standing. This course provides a critical analysis of contemporary policies, practices, and issues arising from the control and punishment of criminal offenders. Special attention will be given to understanding the complexity of recent issues such as those related to disparity in criminal sentencing, the use of the death penalty, institutional overcrowding, the treatment of institutionalized persons, and the community supervision of non-incarcerated offenders. The focus of analysis will vary according to the interest of faculty and students.

CRJ 470
ADVANCED SEMINAR IN CRIMINAL
JUSTICE

3, 3/0; 1991-93

Prerequisite: Completion of 24 credits of CRJ course work, junior standing. This seminar provides for the analysis, evaluation, and summation of criminal justice issues, concepts, theories, research findings, and knowledge acquired by students during their total learning experience within the criminal justice program at Buffalo State College and other colleges.

CRJ 495
PROJECT**CRJ 499**
INDEPENDENT STUDY**Dance**

Offered by the Performing Arts Department
MYRON H. NADEL, Chairperson
Rockwell Hall 203

The 21-credit dance minor includes DAN 200, DAN 220, DAN 224, DAN 302, DAN 303, DAN 312 and DAN 330.

DAN 200
BEGINNING MODERN TECHNIQUE I
3, 1/4; 1991-93 (A)

Exploration of movement in relation to time, space, energy, and principles of alignment.

DAN 220
BEGINNING BALLET

3, 1/4; 1991-93 (A)

An intensive introduction to ballet through the exploration of ballet teaching, anatomical and aesthetic foundations, and ballet history.

DAN 224
DANCE APPRECIATION

3, 3/0; 1991-93 (A)

An elementary course in the history and philosophy of dance from ancient times until the present. Work in evaluation and criticism of modern dance is included.

DAN 230
SURVEY OF AFRO-AMERICAN DANCE

3, 1/4; Sp 92, 93

Technique, practice, readings, and projects in dance and Black culture. Current practices of Black dance in relation to Euro-American techniques.

DAN 250
JAZZ DANCE

3, 1/4

Prerequisite: DAN 200 or 220 or equivalent. Technique, studies and compositional problems illustrating the diverse possibilities of jazz dance, special attention to the ethnic foundations of this form.

DAN 302
MODERN DANCE TECHNIQUE II

3, 1/4; F 91, 92 (E)

Prerequisite: DAN 200 or permission of instructor. Designed to develop and strengthen technical dance skills. Fundamental principles of movement in relation to dynamics, rhythm, and space; development of original movement patterns; elementary dance composition, modern dance history.

DAN 303
DANCE COMPOSITION

3, 1/4; Sp 92 (E)

Prerequisite: One semester of modern dance or equivalent and/or permission of instructor. Research in individual and group composition; evaluation of original compositions.

DAN 310
DANCE FOR THE MUSIC THEATER

3, 1/4

Prerequisite: DAN 250. A continuation of DAN 250 emphasizing the technique and history of the diverse dance forms required in the music theater.

DAN 312
MODERN DANCE TECHNIQUE III

3, 1/4; Sp 92, 93 (E)

Prerequisite: DAN 302 or permission of instructor. A continuation of Modern Dance Tech-

nique II. Emphasis will be placed on expanding and deepening the individual's technical range and quality of movement and expanding the individual's creative ability through the use of lecture, dance composition, and film.

DAN 320
REHEARSAL AND PERFORMANCE

1, 0/6; repeatable, 1991-93 (E)

Open to students by audition only. This course offers the student exposure to various dance performance experiences. The students will be given the opportunity to participate in building a finished dance production, including audition, choreographic rehearsals, and technical rehearsals.

DAN 330
BALLET II

3, 1/4; Sp 92, 93 (E)

Prerequisite: DAN 220 or permission of instructor. Comprehensive examination of the technique and historical background of ballet explored in depth through studio work, lecture, and composition. Emphasis placed upon strengthening the individual's technical range and understanding of basic concepts.

DAN 350
TAP DANCE FOR THE STAGE:
ELEMENTARY

1, 0/2; F 92

Prerequisite: DAN 200 or 220 or permission of instructor. The first course in a two-semester sequence for majors and minors in the performing arts with at least two weekly hours of outside practice plus familiarity with selected reading. The student will be able to comprehend and execute an elementary vocabulary of stage tap.

DAN 401
TEACHING DANCE

3, 3/0; Sp 93

Prerequisite: DAN 302 and permission of instructor. A comprehensive survey of the methods and materials used in teaching dance to students of various ages and backgrounds, explored through research and practical experience.

DAN 402
ADVANCED MODERN TECHNIQUE IV

3, 0/6

Prerequisite: DAN 312 or permission of instructor. First semester course of a two-semester sequence for students already at the intermediate or advanced levels of modern dance. Opportunities to study with Buffalo State and guest instructors in various techniques chosen from Limon, Cunningham, Graham, jazz, ballet, and other contemporary approaches.

DAN 412
ADVANCED MODERN TECHNIQUE V

3, 0/6; Sp 92, 93

Prerequisite: DAN 402 or permission of instructor. A continuation of DAN 402.

DAN 450
TAP DANCE FOR THE STAGE:
INTERMEDIATE

1, 0/2; Sp 93

Prerequisite: DAN 350 or permission of instructor. Advanced vocabulary, styles, and solo/duet work emphasized. Some creative work required. The student will be able to comprehend and execute a substantial portion of traditional Broadway requirements.

DAN 495
PROJECT**DAN 499**
INDEPENDENT STUDY**Design**

Offered by the Design Department
RICHARD A. BUTZ, Chairperson
Upton Hall 212

All studio courses in design require at least two hours per week of outside work for each credit, in addition to the regular class meetings. Open studio times are scheduled for this purpose. Note: students are expected to assume the costs of materials they use in their courses.

DES 101
INTRODUCTORY DESIGN 2D I

3, 0/6; 1991-93 (A)

Development of basic skills and concepts in two-dimensional design; logical and intuitive approaches to pure form and natural sources; emphasis on development of individual solutions.

DES 102
INTRODUCTORY DESIGN 2D II

3, 0/6; 1991-93

Prerequisite: DES 101. Continued development of material covered in Design 101, involving in-depth assignments stressing composition and form, idea development, design process, and color dynamics while strengthening skills and control.

DES 103
INTRODUCTORY DESIGN 3D I

3, 0/6; 1991-93 (A)

An exploration of the fundamentals of three-dimensional design, with emphasis on the development of skills related to spatial manipulation via form and structure. The development of manipulative skills in various media.

DES 104
INTRODUCTORY DESIGN 3D II

3, 0/6; 1991-93

Prerequisite: DES 103. The investigation of advanced concepts and manipulation skills related to three-dimensional design. Students

are involved in the process of conceptualization, visualization, and evaluation related to design objectives.

DES 105
MECHANICAL AND PERSPECTIVE
DRAWING

3, 0/6; 1991-93

Descriptive drawing, including orthographic, isometric, and perspective projection, as an aid in visualizing and planning the construction of three-dimensional art objects.

DES 114
WORKSHOP IN CRAFTS

3, 0/6; 1991-93 (A)

Creative experience in crafts, individual projects. *Non-art majors only.

DES 190
DESIGN SYMPOSIUM

3, 3/0; 1991-93 (A)

A non-technical study for non-majors as it relates to varied design fields in our culture. Presentation of brief reviews of design as it functions in architecture, planning and environment, metal, wood, ceramics, textiles, advertising, and industrial design.

DES 215
INTRODUCTION TO
THE HISTORY OF DESIGN

3, 3/0; 1991-93 (E)

A general introduction to the field of design history and criticism, tracing the evolution of form and meaning from primitive cultures through the contemporary world. Special emphasis given to the Industrial Revolution and modern and post-modern culture.

DES 220
CERAMICS I

3, 0/6; 1991-93 (E)

Exploration of clay as a medium of expression. Experiences in methods of forming; preparation and application of glaze; firing theory. Study of form and function.

DES 230
INTRODUCTION TO JEWELRY MAKING

3, 0/6; 1991-93 (E)

Prerequisite: DES 101. Basic exploration of materials and processes in jewelry making, emphasizing creative design.

DES 235
DESIGN IN METAL

3, 0/6; 1991-93 (E)

Metalsmithing as a medium for expression and object design, utilizing the unique qualities of various metals and working techniques.

DES 240
DESIGN IN FIBERS — WEAVING

3, 0/6; 1991-93 (E)

Exploration of traditional and experimental techniques in weaving and related fiber processes, including tapestry, twill pattern weaving,

and selected problems in various off-loom techniques.

DES 245
DESIGN IN FIBERS — SURFACE DESIGN

3, 0/6; 1991-93 (E)

Study and exploration of textile printing processes, with emphasis on such techniques as silkscreen, batik, and block printing on cloth; aesthetic and practical considerations in design of printed textile.

DES 250
DESIGN IN WOOD

3, 0/6; 1991-93 (E)

Wood as a medium for expression and object design; technical and aesthetic problems.

DES 253
FUNDAMENTALS OF BOAT BUILDING

3, 0/6; 1991-93

Prerequisite: DES 105. A course in which students learn fundamentals of boat design, lofting, and construction through lectures, demonstrations, and the construction of a small boat.

DES 260
INTRODUCTION TO INTERIOR DESIGN

3, 0/6; 1991-93 (E)

Prerequisite: DES 105. A basic studio introduction to the theory and practice of interior design. The course will include specific design projects as well as a survey and critique of historical and contemporary practice.

DES 264
ENVIRONMENTAL PLANNING AND
DESIGN

3, 0/6; offered based on staff availability and demand

Prerequisite: DES 105. A study of how the "built-world" profoundly affects human behavior. A critical examination of our own response to the man-made environment is supplemented by observations of the responses of others. Studio projects use this shared experience to examine ways we can make our environment more "fertile," capable of sustaining and encouraging a world-wide range of human activity.

DES 270
VISUAL COMMUNICATION I

3, 0/6; 1991-93

Prerequisite: DES 101, 102, 103, 104, 105. Foundation course for graphic design. Technical knowledge for the preparation and production of art for visual communication.

DES 271
LETTERING AND TYPOGRAPHY I

3, 0/6; 1991-93

Prerequisite: DES 270. The uses of typographic forms in graphic design. Problems in expression and appropriate application and layout; type specification, indication, copyfitting. Study of the origins of the Western alphabet.

**DES 307
ADVANCED DESIGN I**

3, 0/6; 1991-93

Prerequisite: DES 101, 102, 103, 104, 105. The continued study of origins, meaning, and dimensions of color. Theoretical two-dimensional and multidimensional problems.

**DES 308
FORM AND FUNCTION**

3, 0/6; 1991-93

Prerequisite: DES 101, 102, 103, 104, 105. The practical application of two- and three-dimensional design principles toward the analysis, evolution, development, and utilization of forms in a changing environment.

**DES 309
PRINCIPLES OF PERSPECTIVE
DRAWING**

3, 0/6; 1991-93

Prerequisite: DES 105. A continuation of DES 105. Problems in one- and two-point perspective drawing as a means of visualization. The projection of space and volume. The use of perspective as a working design process.

**DES 316
DESIGN IN THE NINETEENTH CENTURY**

3, 3/0; Sp 92, 93

Prerequisite: DES 215 or permission of instructor. Theoretical foundations and historical developments of design from the end of the 18th century to World War I. Emphasis on the effects of the Industrial Revolution on graphic design, industrial design, interiors, costume, and crafts.

**DES 317
DESIGN IN THE TWENTIETH CENTURY**

3, 3/0; F 91, F 92

Prerequisite: DES 215 or permission of instructor. Examination of the historical and theoretical foundations of design in the 20th century, concentrating on developments in graphic, industrial, and craft design from the 1890s to the present and emphasizing the unique conditions of the present century with respect to new technology and new media.

**DES 318
SCENOGRAPHY**

3, 0/6; offered based on staff availability

Design for stage; philosophy, theory, practices in design for the dramatic arts; the relationship of scenery, costume, makeup, lighting, and allied stage crafts; function of the designer; development of theater design problems from the design concept to working drawings to the making of models.

**DES 319
HISTORY AND THEORY OF
WATERCRAFT DESIGN**

3, 3/0; offered based on staff availability

Prerequisite: DES 215 or permission. A survey of the history and theory of naval architecture and watercraft design with special attention to the development of design solutions within spe-

cific cultural contexts. Special emphasis will be given to American small craft and local traditional designs.

**DES 320
CERAMICS II**

3, 0/6; 1991-93

Prerequisite: DES 220. Studio practice in pottery form, glaze, and firing methods, through assigned problems and individual interests. Lectures and laboratory in glaze materials and glaze design.

**DES 321
CERAMICS: JUNIOR STUDIO**

3-12 (3-6 hrs/sem) 0/6-0/12; 1991-93

Prerequisite: DES 320. Advanced study and experience in the total ceramic process through assigned problems and according to individual personal interests.

**DES 330
APPLIED JEWELRY TECHNIQUES**

3, 0/6; 1991-93

Prerequisite: DES 230. To develop the competence in execution of the basic jewelry techniques. Experiment with and incorporate non-traditional materials in jewelry with stress on the aesthetics of jewelry design.

**DES 331
JEWELRY: JUNIOR STUDIO**

3-12 (3-6 hrs/sem) 0/0-6/12; 1991-93

Prerequisite: DES 330. Advanced exploration of materials and processes used in jewelry making with emphasis on design aspects. Individually selected projects.

**DES 336
METALSMITHING II**

3, 0/6; 1991-93

Prerequisite: DES 235. Advanced experience in metalsmithing as a continuation of forming techniques introduced in DES 235.

**DES 337
METALSMITHING: JUNIOR STUDIO**

3-12 (3-6 hrs/sem) 0/6-0/12; 1991-93

Prerequisite: DES 336. Practical application of metalsmithing techniques with emphasis on raising, forging, welding, riveting, casting, spinning, and other forming methods; parallel studies of work of leading designers, craftspeople; tutorial relationship with instructor; extra class assignments, including minimum studio hours equal to class hours.

**DES 341
FIBER-WEAVING: JUNIOR STUDIO**

3-12 (3-6 hrs/sem) 0-6-0/12; 1991-93

Prerequisite: DES 240. Study and experience in basic technique of floor loom weaving; pattern drafting; expressive and controlled design in woven fabric structures; aesthetic and practical considerations.

**DES 346
FIBER-SURFACE DESIGN:
JUNIOR STUDIO**

3-12 (3-6 hrs/sem) 0/6-0/12; 1991-93

Prerequisite: DES 245. Advanced study and exploration of textile printing processes, with emphasis on such techniques as silkscreen, batik, and block printing on cloth; aesthetic and practical considerations in the design of printed textiles.

**DES 350
TECHNICAL PROCESSES IN WOOD**

3, 0/6; 1991-93

Prerequisite: DES 250. An exploratory course designed to expose students interested in contemporary design to the technical processes being utilized in the field today. Processes to be emphasized will be joinery, laminating, steam-bending, vacuum forming, veneering, and finishing.

**DES 351
WOOD DESIGN: JUNIOR STUDIO**

3-12 (3-6 hrs/sem) 0/6-0/12; 1991-93

Prerequisite: DES 350. The design and creation of a major project in wood, approached from the viewpoint of the designer-craftsperson utilizing a range of techniques, and hand, power, and machines tools, as needed.

**DES 360
INTERIOR DESIGN II**

3, 0/6; 1991-93

Prerequisite: DES 260. The exploration of functional criteria and the development of skills essential to the interior designer as they relate to residential and small commercial projects.

**DES 361
INTERIOR DESIGN III**

3-12 (3-6 hrs/sem) 0/6-0/12; 1991-93

Prerequisite: DES 360. A class for junior majors covering the entire interior design process from space planning to presentation through study and development of actual cases. Involves development of advanced skills and technical concepts.

**DES 364
URBAN DESIGN**

3, 0/6; offered based on staff availability and demand

Prerequisite: DES 264. A study of the design of the urban environment, focusing on the use and meaning of space and its impact on human behavior. Personal observations are expanded by an examination of the urban scene worldwide. Studio projects concentrate on a single urban setting; stress is placed on both design and the development of professional presentation techniques.

**DES 370
VISUAL COMMUNICATION II**

3, 0/6; Sp 92, 93

Prerequisite: DES 271. Design problems in visual communication. Emphasis on creative prob-

lem solving and appropriate application to promotional and editorial communication.

**DES 371
LETTERING AND TYPOGRAPHY II**

3, 0/6; 1991-93

Prerequisite: DES 370. A continuation of the exploration of typography as an expressive and functional communication medium. Emphasis on design criteria, theories of interpretation, and personal creativity. Review of current technology.

**DES 374
ADVERTISING DESIGN**

3-6 (3 hrs/sem) 0/6; 1991-93

Prerequisite: DES 271, 380. Principles of advertising design as visual communication, motivation, and persuasion; problems in advertising and publication design; illustration, media, and techniques; typographic design and reproduction processes.

**DES 380
ILLUSTRATION**

3-6 (3 hrs/sem) 0/6; 1991-93

Prerequisite: DES 105, FAR 101, DES 270. Application of drawing and rendering skills to client-oriented problems. Emphasis on relationship of style to required content; experimentation with techniques in black-and-white and color.

**DES 384
CHILDREN'S BOOK ILLUSTRATION**

3, 0/6; Sp 92, 93

Prerequisite: DES 270, 380, or permission. A survey of illustration in children's literature, including problems devoted to defining, developing, and evaluating an effective relationship between verbal and visual imagery; exploration of media, technique, and style, stressing individual interpretation and development based on the understanding of skill, communication, production, design, and audience.

**DES 414
SENIOR SEMINAR/EXHIBITION**

4, 3/2; Sp 92, 93

A series of lectures and discussions concerning topics such as self-presentation concepts; job and professional interviews; business practices, record keeping, and taxes; legal contracts and copyrights; exhibitions and promoting personal work.

**DES 419
EXHIBITION TECHNIQUES**

3, 0/6; 1991-93

Basic design theory and communication in the field of exhibits, displays, and signage. Emphasis on structural concepts, lighting, kinetics, function, materials, and visual aesthetics. Additional credit by special arrangement with the instructor.

**DES 421
CERAMICS: SENIOR STUDIO**

3-12 (3-6 hrs/sem) 0/6-0/12; 1991-93

Prerequisite: DES 321. Emphasis on the development and presentation of the student's personal direction in clay, culminating in a portfolio presentation and a final show.

**DES 431
JEWELRY: SENIOR STUDIO**

3-12 (3-6 hrs/sem) 0/6-0/12; 1991-93

Prerequisite: DES 331. A concentration of studio work by the senior major in jewelry. The student will plan and execute a series of problems and projects in consultation with his or her instructor.

**DES 437
METALSMITHING: SENIOR STUDIO**

3-12 (3-6 hrs/sem) 0/6-0/12; 1991-93

Prerequisite: DES 337. Practical application of metalsmithing techniques with emphasis on raising, forging, welding, riveting, casting, spinning, and other forming methods; parallel studies of work of leading designers/craftspersons; tutorial relationship with instructor; extra class assignments, including minimum studio hours equal to class hours.

**DES 441
FIBER-WEAVING: SENIOR STUDIO**

3-12 (3-6 hrs/sem) 0/6-0/12; 1991-93

Prerequisite: DES 240, 245, 341 desirable. Exploration of various fiber techniques on an advanced level, including multiple harness pattern weaving, garment design, dyed warp methods, and various combinations of traditional and experimental techniques according to student interest and need.

**DES 446
FIBER-SURFACE DESIGN:
SENIOR STUDIO**

3-12 (3-6 hrs/sem) 0/6-0/12; 1991-93

Prerequisite: DES 346. A concentration of studio work by the senior major in fiber. The student will plan and execute a series of self-determined problems and projects in consultation with his/her instructor.

**DES 451
WOOD DESIGN: SENIOR STUDIO**

3-12 (3-6 hrs/sem) 0/6-0/12; 1991-93

Prerequisite: DES 351. A concentration of studio work by the senior major in wood. The student will plan and execute a series of problems and projects in consultation with his/her instructor.

**DES 453
WOOD/EPOXY BOATBUILDING**

2, 0/4; 1991-93

Prerequisite: DES 251. A course in the theory and applications of wood/epoxy boatbuilding materials and techniques through the construction of a wood/epoxy skiff.

**DES 461
INTERIOR DESIGN IV**

3-12 (3-6 hrs/sem) 0/6-0/12; 1991-93

Prerequisite: DES 361. The senior interior design course in which the student/designer accepts a major project and is responsible for its development. Projects will be either on or off campus and will include significant contact with clients and the development of formal presentations. Also stressed will be the development of a personal portfolio.

**DES 473
GRAPHIC DESIGN**

3-9 (3 hrs/sem) 0/6; 1991-93

Prerequisite: DES 371, 380. Advanced problems in advertising, publication, and packaging design. Materials, techniques, and processes used in preparation of visuals, design presentations, and mechanicals. Emphasis on individual solutions to problems typical of those confronting the professional graphic designer.

**DES 475
GRAPHIC DESIGN PRACTICUM**

6, 0/20; 1991-93

Prerequisite: Completion of all required courses in graphic design specialization. Practical experience in an advertising agency, design studio, or corporate design office under the sponsorship of an art director, working two days a week for six credit hours, or working on practical problems in a simulated agency situation for ten hours a week for three credit hours. *Admission by permission of graphic design advisers after portfolio review. Portfolio review takes place on the first Tuesday of December for the spring semester and on the first Tuesday of May for summer and fall.

**DES 476
ADVANCED GRAPHICS**

3-6, 0/6-0/12; 1991-93

Prerequisite: Senior standing and portfolio review. An extension of graphic design into actual job situations. Students work in a studio environment. They experience client contact, research, cost considerations, conceptualizing, presentation of design solutions, and production problems.

**DES 477
COMPUTER GRAPHICS FOR DESIGN
AND ART APPLICATIONS I**

3, 0/6; 1991-93

Prerequisite: Instructor's permission. Fundamentals of computer graphics. Hands-on experience. Basic programming for still and animated images. System configurations and design applications.

**DES 478
COMPUTER GRAPHICS FOR DESIGN
AND ART APPLICATIONS II**

3, 0/6; offered based on staff availability

Prerequisite: DES 477. Continuation of DES 477. Structures of software design. Advanced programming skills. Overview of the state of the art.

**DES 488
INTERNSHIP****DES 495
PROJECT****DES 499
INDEPENDENT STUDY**

Distributive and Business Education

Offered by the Business Department
DR. BENJAMIN SACKMARY, Chairperson
Chase Hall 301

**OEC 301
PRINCIPLES OF OCCUPATIONAL
EDUCATION**

3, 3/0; 1991-93

Introduction to the teaching of occupational education courses in public schools; principles, philosophy and objectives; historical development of occupational education and the development of current issues for an occupational education program. *Required of TED, Voc-Tec, and BUS majors.

**OEC 302
CURRICULUM AND EVALUATION IN
OCCUPATIONAL EDUCATION**

3, 3/0; 1991-93

Introduction to the teaching methods of occupational education courses in the public schools; introduction to test construction and evaluation techniques utilized in occupational education courses. *Required of TED, Voc-Tec, and BUS majors.

**OEC 303
METHODS AND MATERIALS IN
OCCUPATIONAL EDUCATION**

1, 1/0; 1991-93

Basic methods utilized in the teaching of occupational education courses in the public schools and the preparation of teaching materials to accomplish stated objectives. Utilization of teaching methods that take into consideration the role of race, gender, and the cultural as well as the individual with specific needs. *Required of TED, Voc-Tec, and BUS majors.

**DED 410
METHODS OF TEACHING BUSINESS
SKILLS SUBJECTS**

3, 3/0; F 91, 92, 93

Prerequisite: Business Education major, junior or senior standing. Methods of teaching business skills subjects concentrating on the process of teaching others certain office-related skills. *Required of business education majors.

**BUS 411
METHODS OF TEACHING BUSINESS
AND DISTRIBUTIVE EDUCATION**

3, 3/0; Sp 91, 92, 93

Prerequisite: OEC 301. Basic principles and methods of teaching business and distributive education subjects. Prepares the student to effectively teach subjects in this area. *Required of distributive education majors.

**DED 415
STUDENT TEACHING**

12, 0/24; 1991-93

Prerequisite: DED 410/411, OEC 301, OEC 302. Successful completion of basic English and Mathematics college competency requirements, senior standing. Full-time teaching in a public school for one semester under the supervision of a master teacher and a college supervisor; daily and long-range planning, unit teaching; classroom management; individual and group instruction; participation in total school program; weekly on-campus seminar as assigned. *Required of business education and distributive education majors.

Earth Sciences (formerly Geosciences)

Offered by the Earth Sciences and Science Education Department
DR. ROBERT E. HORVAT, Chairperson
Science Building 271

All courses in earth sciences may include occasional field trips. Expenses for these trips are shared by the participants.

**GES 101
INTRODUCTORY GEOLOGY**

3, 3/0; 1991-93 (M)

An introduction to physical geology; the earth and the processes operating on and within it; the formation of rocks and minerals, volcanoes; earthquakes, mountain building, continental drift, plate tectonics, glaciers, and the ice ages. Concurrent registration in GES 103 is recommended for geology and geoscience majors. *Required for all majors.

**GES 102
HISTORICAL GEOLOGY**

3, 3/0; 1991-93 (M)

An introduction to the history of the earth from its foundation 4½ billion years ago, and the role of continental drift, seafloor spreading, and plate tectonics in its development. The evolution of life as shown in the fossil record. *Required for all majors.

**GES 103
INTRODUCTORY GEOLOGY
LABORATORY**

1, 0/2; 1991-93

Prerequisite: GES 101 (may be concurrent). Investigations and activities in identification of rocks and minerals, map and aerial photograph interpretation. *Required for all majors.

**GES 111
GENERAL OCEANOGRAPHY**

3, 3/0; 1991-93 (M)

An introduction to the science of the ocean. Includes biological, physical, chemical, and geological aspects of the oceans. *Required for geoscience majors.

**GES 131
INTRODUCTORY ASTRONOMY**

3, 3/0; 1991-93 (M)

A non-mathematical survey of the universe. A survey of the sun, planets, moons, and comets will precede an investigation of stars, galaxies, and finally the universe. Observation, planetarium, and laboratory sessions will supplement the lectures.

**GES 223
ENVIRONMENTAL EARTH SCIENCE**

3, 3/0; F 91, S 92 (M)

A practical study of the interrelation of earth and human systems. Energy resources, non-renewable earth materials, earthquake prediction and control, volcanoes, land movements, man's effect on weather and climate. *Included in environmental sciences minor.

**GES 241
METEOROLOGY**

3, 3/0; Sp 92, Sp 93 (M)

An introduction to weather, including prediction, meteorological instruments, atmospheric movements, humidity and precipitation, high and low pressure areas, air masses and fronts, heat balance, and climate past and present. *Required for geoscience majors.

**GES 301
STRATIGRAPHY**

3, 3/0; F 91, F 92

Prerequisite: GES 101; GES 102 (may be concurrent). Basic principles governing the nature, interpretation, correlation, and nomenclature of stratified rock units. *Required for geology majors.

**GES 302
INVERTEBRATE PALEONTOLOGY**

3, 2/2; Sp 91, Sp 92, Sp 93 (E)

Prerequisite: GES 102, BIO 116 and one additional semester of biology. Invertebrate fossils and their stratigraphic distribution. *Required for geology majors.

**GES 304
THE COMMON ROCKS AND MINERALS**

3, 2/2; F 91, F 92 (E)

Prerequisite: GES 101 or GES 122; CHE 112 or CHE 102 (may be concurrent). Study of the common rocks and minerals, emphasizing how they are identified, where they occur, and how they form. *Required for all majors.

**GES 305
OPTICAL MINERALOGY**

3, 2/2; Sp 92, Sp 93

Prerequisite: GES 304. The use of the petrographic microscope and the identification of minerals in crushed grains and thin section.

**GES 307
GEOMORPHOLOGY**

3, 3/0; Sp 91, Sp 92, Sp 93 (E)

Prerequisite: GES 101 or GEG 101. A study of the structural controls and processes which affect the development of the surface of the earth. Emphasis on selected geologic environments. *Required for geoscience majors.

**GES 308
STRUCTURAL GEOLOGY**

3, 2/2; Sp 91, F 91, F 92

Prerequisite: GES 101; GES 103. Analysis of folds, faults, and other structural features in sedimentary and metamorphic terrains; introduction to rock mechanics, regional tectonics. *Required for all majors.

**GES 314
GEOLOGICAL OCEANOGRAPHY**

3, 2/2; F 92

Prerequisite: GES 111. A description of the sediments, structure and history of the ocean basins.

**GES 331
MODERN SOLAR SYSTEM ASTRONOMY**

3, 3/0; F 91 (E)

Prerequisite: GES 131 or equivalent. The moon and the planets, their appearance, atmospheres, and surfaces, planetary magnetic fields, asteroids, meteoroids, comets, theories of the origin of the planetary system, the possibility of life elsewhere in the solar system. Emphasis on recent problems in our understanding of the solar system.

**GES 332
STELLAR AND GALACTIC ASTRONOMY**

3, 3/0; Sp 91, Sp 92, Sp 93 (E)

Prerequisite: GES 131 or equivalent. How astronomers have determined the properties of stars, the energy of stars, the masses and compositions of stars, stellar evolution, the structure of the galaxy, the movement of stars in the galaxy.

**GES 335
METHODS OF OBSERVATIONAL
ASTRONOMY**

3, 3/0; (E)

Prerequisite: GES 131. Locating celestial objects in the night sky; use of astronomical telescopes to locate, observe, and photograph stars, nebulae, and galaxies; use of observing aids.

**GES 337/SCI 337
ASTRONOMY AND THE ASTRONOMERS
TO 1750**

3, 3/0; F 91 (E)

Prerequisite: GES 131 or equivalent. The saga of man's developing understanding of his universe,

beginning with pre-historic efforts to predict celestial events continually through Grecian speculation on the nature of things, and culminating in the heliocentric revolution sparked by Copernicus and supported by Galileo.

**GES 338/SCI 338
ASTRONOMY AND THE ASTRONOMERS
FROM 1750 TO THE PRESENT**

3, 3/0; Sp 91, Sp 92, Sp 93 (E)

Prerequisite: GES 131 or equivalent. A study of the men and women, the ideas and the forces which brought us from the heliocentric mechanical universe of Copernicus and Newton to an immense expanding universe of galaxies, quasars, and black holes.

**GES 339
ASTRONOMY AND COSMOLOGY**

3, 3/0; F 91 (E)

Prerequisite: GES 131 or equivalent. Cosmology, the primeval fireball, quasars, pulsars, black holes, origin of the elements.

**GES 401
IGNEOUS AND METAMORPHIC
PETROLOGY**

3, 2/2; Sp 91, Sp 92, Sp 93

Prerequisite: GES 304 and CHE 112 or permission of instructor. Description, origin, and classification of igneous and metamorphic rocks. *Required for geology majors.

**GES 403
GLACIAL GEOLOGY**

3, 3/0; F 91, F 92

Prerequisite: GES 307. A study of glacial processes, landforms, and landscapes, with emphasis on New York State. Develops a model for the sequence of glacial events and the causes of climate change. Includes field trips.

**GES 404
FIELD GEOLOGY**

3, 2/2; Sp 91, Sp 92, Sp 93

Prerequisite: GES 101 or GES 122. Application of geological principles and techniques in the interpretation of earth features in the field.

**GES 405
GEOLOGY OF NORTH AMERICA**

3, 3/0; F 91

Prerequisite: GES 101 or GES 122; GES 102. Major physical provinces of the United States and adjacent areas; their geological history, structure, and topographic development.

**GES 407
INTRODUCTION TO PETROLEUM
GEOLOGY**

3, 3/0

Prerequisite: GES 301 or permission of instructor. Basic investigation of geologic processes concerning the origin, migration, and accumulation of oil and natural gas; techniques of the petroleum geologist; extent and distribution of petroleum reserves.

**GES 409
FLUVIAL GEOMORPHOLOGY**

3, 2/2; F 91

Prerequisite: GES 307. A study of the variables which influence the behavior of water flowing on the surface of the earth, the effects of flowing water on the landscape; emphasis on field and lab work.

**GES 410
PETROLOGY LABORATORY**

1, 0/2

Prerequisite: GES 305; GES 401 (may be concurrent). The description, classification, and determination of rocks and their textures by means of the petrographic microscope.

**GES 415
GEOLOGY FIELD CAMP**

6, 0/35

Fee: Group transportation and meals are arranged. Costs paid by the students.

Prerequisite: GES 404 and permission of instructor. Field mapping and field study of sedimentary rocks such as in Cody, Wyoming, and Lovell, Wyoming; igneous and metamorphic rocks such as in the Beartooth Mountains, Wyoming and Montana; Yellowstone National Park; and Craters of the Moon National Monument, Idaho.

**GES 421
DYNAMICS OF SEDIMENTATION**

3, 2/2; Sp 91, Sp 92, Sp 93

Prerequisite: GES 101 or 122; junior standing or permission of instructor. An introduction to the dynamics of erosion, transportation and deposition of sedimentary particles including formation of bedforms and sedimentary structures. Present-day sedimentary environments and facies analysis.

**GES 422
SEDIMENTARY PETROLOGY**

3, 2/2

Prerequisite: GES 421; GES 305 or instructor permission. Interpretation of ancient depositional environments, from the petrologic study of sedimentary rocks. Descriptive and predictive sedimentological models.

**GES 431
PLANETARIUM SEMINAR**

3, 3/0; Sp 92

Prerequisite: Two semesters of astronomy. The Celestial Sphere; operating, maintaining, and administering the planetarium; audio-visual aids in the planetarium; planetarium programming. Using the planetarium to teach. Includes supervised teaching experience.

**GES 488
GEOLOGY INTERNSHIP**

1-15, 0/2-30; 1991-93

Prerequisite: Senior standing as department major, a minimum of 3.0 GPA in major, and 2.5 GPA overall. Requires department application and approval. Practical work on an individual basis with a participating organization.

**GES 495
PROJECT**

1-3, 0/2-6; 1991-93

Prerequisite: Approval of a faculty sponsor must be secured prior to registration. Environmental, energy, geology, or astronomy-related areas.

**GES 498
HONORS RESEARCH**

3-6, 0/6; 1991-93

Prerequisite: Acceptance in Geology or Geoscience Honors Program. Includes completion of an honor's thesis and seminar. May be repeated for a maximum of six credits.

**GES 499
INDEPENDENT STUDY**

3-6, 0/6-12; 1991-93

Prerequisite: Approval of a faculty sponsor must be secured prior to registration. Environmental, energy, geology or astronomy-related areas.

Economics and Finance

Offered by the Economics and Finance Department
DR. ALEX J. RATKOWSKI, Chairperson
Classroom Building B207

**ECO 101
THE ECONOMIC SYSTEM**

3, 3/0; 1991-93 (S)

An overview course which presents fundamental economic concepts, basic economic institutions, and contemporary economic issues. Topics include supply and demand, markets, gross national product (GNP), inflation and recession, and the role of government. In addition, economic issues such as energy, environment, education, and health care will be included when appropriate. Will not count toward the credit hour requirement of majors. May not be taken concurrently with or subsequent to ECO 201 or 202.

**ECO 103
ECONOMIC HISTORY OF THE UNITED STATES**

3, 3/0; F 91, 92 (S)

Development of the U.S. economy, the role of government in the economy, and organized labor from the colonial era to the present.

**ECO 201
PRINCIPLES OF MACROECONOMICS**

3, 3/0; 1991-93 (S)

A study of the major forces in the economic system—consumer expenditures, business investment, and government spending—to determine their influence on the level of national income. Includes a discussion of money and banking, monetary and fiscal policies, inflation

and recession, economic growth, and international monetary problems. *Required for majors. Either ECO 201 or 202 may be taken first.

**ECO 202
PRINCIPLES OF MICROECONOMICS**

3, 3/0; 1991-93 (S)

A study of the individual economic units in the economy—consumer, firms, and resource owners—to determine how their decisions influence market prices and industrial output. Includes a discussion of supply and demand, competition and monopoly, corporations, and capitalism and socialism, labor and international trade. *Required for majors. Either ECO 201 or 202 may be taken first.

**ECO 201
ECONOMICS OF LABOR RELATIONS**

3, 3/0; 1991-93 (S)

A study of present-day techniques in labor management negotiations; the collective bargaining agreement; the development and structure of organized labor; labor law, and labor economics.

**ECO 302
WOMEN IN THE ECONOMY**

3, 3/0; Sp 92

Prerequisite: ECO 201 or ECO 202 recommended. An examination of women's position in the U.S. economy, how it has changed, how it compares to men's position and to women's position in other countries. A study of the theoretical and empirical issues in analyzing women's economic status.

**ECO 304
MONEY AND BANKING**

3, 3/0; 1991-93 (E)

Prerequisite: ECO 201, MAT 110, or consent of instructor. The nature and function of money; the American monetary system and the role of the banking system; the structure and functions of Federal Reserve System; fundamental monetary theory and its relation to monetary policy; current problems relating to the impact of monetary policy on the level of prices and employment.

**ECO 305
STATISTICS FOR ECONOMICS**

3, 3/0; 1991-93 (E)

Introduction to elementary statistical principles, descriptive statistics and statistical inference; applications in economics, business, and criminal justice. *Required for majors. (Majors may substitute Math 111, but may not receive credit for both Math 111 and Eco 305.)

**ECO 307
INTERMEDIATE MICROECONOMICS**

3, 3/0; 1991-93 (E)

Prerequisite: ECO 202 and MAT 110 or equivalent. An advanced study of the individual economic units in the economy to determine how their decisions influence market prices and industry output. Topics include the theory of consumer demand, the theory of the firm,

resource allocation, income distribution, and welfare economics. *Required for majors.

**ECO 308
INTERMEDIATE MACROECONOMICS**

3, 3/0; 1991-93 (E)

Prerequisite: ECO 201 and MAT 110 or equivalent. An advanced study of aggregate economic activity to determine its influence on the level of national income. Topics include classical and Keynesian theory, monetary and fiscal policies, business cycles, forecasting, and economic growth. *Required for majors.

**ECO 314
CORPORATION FINANCE**

3, 3/0; 1991-93 (E)

Prerequisite: ECO 201 or ECO 202, BUS 312. Introduction to corporate financial management, and the U.S. capital markets, including the stock market.

**ECO 317
ECONOMIC POLICY: GOVERNMENT AND BUSINESS**

3, 3/0; offered based on staff availability (E)

Prerequisite: ECO 202 or ECO 101 and consent of instructor. An examination of government efforts to improve the economic performance of industries in the U.S. economic system. Topics include antitrust policy, regulation of utilities, conglomerates, and multinational corporations.

**ECO 320
MANAGERIAL ECONOMICS**

3, 3/0; 1991-93 (E)

Prerequisite: ECO 305, MAT 110 or equivalent is recommended. The utilization of economic analysis to formulate and provide guides to the solution of management decision and control problems and the development of appropriate business policies.

**ECO 340
FEDERAL INCOME TAXATION**

3, 3/0; Sp 92, 93

Prerequisite: Upperclass standing or consent of instructor. An examination of the tax principles and policies, drawn from public finance theory, that have shaped the federal income tax system. In addition, students will learn how to prepare individual income tax returns in conformity with the IRS codes.

**ECO 350
PUBLIC FINANCE**

3, 3/0; F 92 (E)

Prerequisite: MAT 110; ECO 307 recommended. Analysis of the nature and growth of public expenditures; principles of taxation; federal, state and local revenue; introduction to fiscal policy and theory; significance of public debt; selected problems in intergovernmental fiscal relations.

**ECO 355
THE ECONOMICS OF ENERGY AND THE ENVIRONMENT**

3, 3/0; (E)

Offered based on staff availability.

Prerequisite: ECO 202 or consent of instructor. An examination of the micro and macroeconomic interrelationships between the flow of economic activity and the constraints on the flow of economic activity imposed by the availability of energy resources and by environmental considerations. Alternative policy strategies relating to energy and the environment will be evaluated in terms of their economic impact.

**ECO 360
INTRODUCTION TO THE ECONOMIC ANALYSIS OF LAW**

3, 3/0; F 91, 92

Prerequisite: ECO 207 or permission of instructor. An introductory approach to the study of law from an economic perspective. No prior knowledge of law is necessary and all the economic concepts needed will be presented. The objective is to use economic concepts and reasoning to explain and predict the consequences of legal rules. For this purpose, important issues found in court cases involving, for example, contracts, property law, liability, and environmental law will be used.

**ECO 401
INTERNATIONAL ECONOMICS**

3, 3/0; Sp 92, 93

Prerequisite: ECO 201 and ECO 202; ECO 307 recommended. Basic theories of international trade; the international monetary mechanism and the institutions which facilitate its operation; foreign economic policy and contemporary problems relating to tariffs, payments, balances, devaluation, and gold as a means of setting international payments in balances.

**ECO 402
SEMINAR IN CURRENT ECONOMIC PROBLEMS**

3, 3/0

Offered based on staff availability. **Prerequisite:** ECO 307 and ECO 308. Readings, discussion and research on current economic problems. Topics to be selected by the seminar.

**ECO 403
COMPARATIVE ECONOMIC SYSTEMS**

3, 3/0; Sp 93

Prerequisite: ECO 201 and ECO 202 or consent of instructor. Essential characteristics of the market economy as it has evolved to the present time; increasing social control; its strengths and weaknesses; the contrast with the socialist system as it operates in the Soviet Union today; strengths and weaknesses of Soviet socialism.

**ECO 405
HISTORY OF ECONOMIC THOUGHT**

3, 3/0; 1991-93

Prerequisite: ECO 201 and ECO 202 or consent of instructor. A study of the attempts of key economic thinkers from Aristotle until the present time to analyze economic phenomena and to provide guidance for economic policy.

**ECO 409 (GEG 409)
GEOGRAPHY OF MANUFACTURING**

See description listed under GEG 409.

**ECO 411 (GEG 411)
REGIONAL ECONOMIC ANALYSIS**

3, 3/0; Sp 93

Prerequisite: ECO 201 and ECO 202 or consent of instructor; MAT 110 recommended. Analysis of location of economic activity, urbanization patterns, and regional growth and development. Techniques in measuring the level of economic activity of a region will be discussed. Particular emphasis will be given to the Western New York area and the impact of the Buffalo urban area on development of the surrounding region.

**ECO 412
URBAN ECONOMICS**

3, 3/0; F 92

Prerequisite: ECO 201 or ECO 202 or consent of instructor. An application of economic analysis to urban growth, land use, poverty, housing, segregation, pollution, congestion, and urban public finance.

**ECO 414
INVESTMENT MANAGEMENT**

3, 3/0; F 91, 92

Prerequisite: ECO 314. An examination and analysis of operating and efficiency characteristics of security markets. The application of institutional, technical, and theoretical approaches to security analysis and evaluation of investment portfolios.

**ECO 415
CASES IN CORPORATE FINANCE**

3, 3/0; Sp 92, 93

Prerequisite: ECO 314; ECO 307 recommended. An application of the case approach to problems in business finance. Topics include working capital financing, term borrowing, capital budgeting, mergers, and acquisitions.

**ECO 420/GEG 420
ECONOMIC EVALUATION OF WATER RESOURCES**

See description listed under GEG 420.

**ECO 424
ECONOMETRICS**

3, 3/0; F 91, 92

Prerequisite: ECO 201 or ECO 202, ECO 305 or equivalent statistics course. Introduces students to applied statistical analysis with primary emphasis on business and economic applications. Provides quantitative background for graduate study in economics, business, public administration, and related social sciences as well as for many types of employment.

**ECO 425
BUSINESS AND ECONOMIC FORECASTING**

Offered based on staff availability. **Prerequisite:** ECO 424. Introduces students to

basic methods and problems in applied economic research and advanced econometric techniques. Is an extension of ECO 424 into the topics of organizing research projects, finding sources of data, selecting econometric techniques, using the computer, and writing research reports.

**ECO 488
INTERNSHIP**

3-6

Prerequisite: ECO 201, 202, and one relevant ECO elective; 2.5 GPA; junior/senior standing. The internship program is designed to provide an opportunity to apply and integrate economic concepts and methodologies in an off-campus, field setting, under the direction of a faculty sponsor with the cooperation of a designated field supervisor. A maximum of three hours of ECO 488, 499 may be used in the major.

**ECO 495
PROJECT**

Prerequisite: 3.0 GPA (in major and overall); ECO 307, 308, or approval by Curriculum Committee. A maximum of three hours of ECO 488, 495, 499 may be used in the major.

**ECO 498
HONORS RESEARCH I**

3

Prerequisite: Admission to honors in economics. A review of the literature and development of the theoretical issues relevant to the research topic.

**ECO 498
HONORS RESEARCH II**

3

Prerequisite: Honors Research I. Appropriate applied analysis relevant to the development and resolution of the research topic begun in Honors Research I prepared in written form and orally defended before the faculty mentor, economics Curriculum Committee, and interested students and faculty.

**ECO 499
INDEPENDENT STUDY**

Prerequisite: 3.0 GPA (in major and overall); ECO 307, 308, or approval by Curriculum Committee. A maximum of three hours of ECO 488, 495, 499 may be used in the major.

Education

Offered by the Elementary Education and Reading Department
DR. NORMAN G. WALKER, Chairperson
Bacon Hall 302

**EDU 120
READING AND STUDY STRATEGIES**

3, 3/0; 1991-93

A competency-based course designed to

improve students' college reading and study skills. Classes include lecture and laboratory work. Students are encouraged to become aware of their own levels of competency in order to improve areas of weakness.

EDU 150 ADVANCED READING & STUDY STRATEGIES

3, 3/0; 1991-93

A course designed to help students improve their strategies for effective learning. Topics included in this course are study strategies, taking notes, taking exams, and time management.

EDU 300 INTRODUCTION TO TEACHING THE URBAN CHILD

3, 3/0; offered based on staff availability

An elective course offering the student an overview of the urban child, urban community and urban school. Each area will be treated as it relates to the school curriculum. Course affords opportunity for exposure to children in urban schools, guides appropriate career decisions. Each student will be involved in supervised field experience.

EDU 314 TEACHING READING AND THE OTHER LANGUAGE ARTS IN THE ELEMENTARY SCHOOL

6, 4/4; 1991-93

Prerequisite: EDF 203, 210; 302; cumulative avg. of 2.5 or higher; junior status; must have passed the English Composition and Math Requirement. Development of attitudes, knowledge, skills necessary to extend reading and other communication skills of elementary children; interrelationships of strands of language arts; exploration of diagnostic teaching and differentiated instruction. Experiences with children are provided in schools on a planned basis. *Required of EE and EXE majors.

EDU 315 THE TEACHING OF SOCIAL STUDIES, SCIENCE AND MATHEMATICS

6, 3/6; 1991-93

Prerequisite: EDF 203, EDF 210, EDU 314, EDF 302; cum. avg. of 2.5, C or higher in EDU 314. Basic curriculum course, selecting, organizing and presenting elementary school science, mathematics, and social studies material; evaluating pupil progress, observation and elementary school participation. *Required of all EE majors and EXE majors seeking dual certification.

ECS 329 TECHNIQUES AND PARTICIPATION IN EARLY CHILDHOOD

6, 4/4; 1991-93

Prerequisite: EDF 210 or equivalent, or by permission of instructor. Overview of the learning sequence of the young child; instructional materials and procedures for program development for groups of young children, e.g., creative play, art, music, science, mathematics, and language

arts experiences. Students observe, record behavior, and participate in the teaching process with children two to six years of age.

EDU 401 PRACTICUM IN TEACHING

12, 0/30; 1991-93

Prerequisite: Grade of "C" or higher in EDU 314 and EDU 315; cumulative average of 2.5 or higher in all course work. Successful completion of math and English competency required as well as passing the Communication Skills and General Knowledge sections of the NTE. Teaching under supervision in elementary grades five days per week, individual conferences and seminars with the college supervisor; tutorial and group instruction; daily and long view planning; teacher-pupil planning; unit teaching; audio-visual aids; classroom management; record-keeping; evaluation techniques. *Required of EE majors or with special permission of the chairman. EE extending majors and EXE majors (MR/PH, LBD) are required to take EDU 404.

EDU 402 SEMINAR IN EDUCATION

3, 3/0; 1991-93

Nature and function of a philosophy of education; study of teaching research methods and techniques; crucial issues in education; problems of beginning teachers. To be taken concurrently with or preferably subsequent to EDU 401. *Required of all EE majors.

EDU 404 PRACTICUM IN ELEMENTARY SCHOOL TEACHING

6, 1/30; (1/2 sem)

Prerequisite: Grade of "C" or higher in EDU 314 and EDU 315; cumulative average of 2.5 or higher in all course work. Successful completion of math and English competency required as well as passing the Communication Skills and General Knowledge sections of the NTE. Teaching under supervision in elementary grades five days per week; individual conference and seminars with college supervisor, tutorial and group teaching; audio-visual aids; classroom management; record keeping, evaluation techniques. *Required of EE extended majors seeking dual certification.

ECS 405 PARENT-INFANT EXPERIENCE

3, 3/0; offered based on staff availability; Sp 92, S 93 (E)

An overview of the infant period (birth to 36 months) and techniques and materials to be used with parents to facilitate infant development. Innovative infant programs will be examined and practical experience with parents and infants will be provided. Elective for juniors and seniors.

EDU 416/SED 305 TEACHING READING IN SECONDARY SCHOOLS

3, 3/0; 1991-93

An analysis of the special problems in reading encountered in the secondary school. Topics to be discussed as they relate to the secondary school include: the reading process, reading skills, and techniques for assessing developing reading skills. Special emphasis placed on critical reading in the content area. *Required of Secondary Ed. majors.

ECS 417 PARENTS AND EDUCATION

3, 3/0; 1991-93

Prerequisite: ENG 101, ENG 102 or exempt, junior standing. To develop an understanding of the parental role in education and develop empathy for parents with diverse cultural, ethnic, economic background and parenting styles. Parent education programs and methods of conducting parent/teacher conferences are stressed.

EDU 418 MEDIA IN EDUCATION

3, 2/2; S 92, S 93

Audio-visual materials in teaching; audio-visual equipment; selecting, securing and using films and other materials; audio-visual programs in the school; teacher and pupil-produced materials; photography.

EDU 419 METHODS AND MATERIALS IN THE ELEMENTARY SCHOOL

3, 3/0; offered based on staff availability

School curriculum in the common branch subjects; selecting and presenting curriculum material, adapting the curriculum to the varying needs, interest and abilities of the pupils; evaluating pupil progress in terms of school objectives. *Elective for juniors and seniors.

EDU 422 INTRODUCTORY LABORATORY PRACTICUM IN READING

3, 2/2; offered based on staff availability.

Prerequisite: EDU 314. Supervised laboratory experience in tutorial work with children demonstrating mild reading disability. The student will review available school information and/or the child's diagnostic evaluation completed in the Reading Center and structure and implement a corrective reading program. An instructional report for the parent will be prepared.

EDU 426 TEACHING READING IN THE PRIMARY GRADES

3, 3/0; offered based on staff availability.

Prerequisite: EDU 314. Recognition and development of reading readiness; approaches to primary reading; methods and materials of instruction; grouping plans; development of word recognition, comprehension/interpretation, and oral reading skills; evaluation of reading, and professional growth.

ECS 429 COGNITIVE AND SOCIALIZATION PROGRAMS FOR PRE-KINDERGARTEN CHILDREN

3, 3/0; 1991-93

Prerequisite: EDF 210 or equivalent, EDU 329, or by permission of instructor. Consideration of theories and research in cognitive development and their application in various model early childhood program. Elements of program design and assessment will be explored. *Upper division elective.

ECS 488 INTERNSHIP IN NON-SCHOOL SETTINGS

Credit hours vary.

Prerequisite: Junior or senior status, 2.5 cum. avg., and permission of advisor, faculty supervisor, and chairperson. The Internship component provide opportunities for students to integrate theoretical knowledge and practical experiences in non-classroom professional settings. Students are supervised by college faculty and meet them regularly in the professional field setting and on campus.

EDU 495 PROJECT

EDU 499 INDEPENDENT STUDY

Educational Foundations Department
DR. THOMAS J. QUATROCHE, Chairperson
Bacon Hall 306

EDF 202 CHILD DEVELOPMENT AND EDUCATION

3, 3/0; 1991-93

An introduction to the study of child behavior and development with emphasis on implications for teaching and learning. From the life span perspective, the focus will be on the child in school; from early childhood through preadolescence. Topics include child study and observation methods, theories of development, nature and sources of individual development from biological, cultural, and behavioral perspectives, with emphasis on the following areas of development as they apply to the classroom: cognitive, social, emotional, and physical.

EDF 203 SCHOOL AND SOCIETY

3, 3/0; 1991-93

Education as a function of a democratic society; sociological and historical backgrounds of the schools; current issues and problems affecting the schools; objectives, control and financial support of education in the State of New York and the U.S.; directed observation. *Required of EE and EXE sophomores in mental retardation, physical handicap, learning, and behavioral disorders.

EDF 206 INTRODUCTION TO THE GROUP EXPERIENCE

3, 3/0; (T)

Exploration and development of basic attitudes, understandings and skills involved in democratic group participation through laboratory and academic experiences. Elective.

EDF 207 LEARNING IN COLLEGE ORIENTATION FOR UNDERGRADUATE

3, 3/0; 1991-93

This course is designed to acquaint students with the psychological and sociological understanding necessary for achievement within, and adjustment to college. Topics include human development during adulthood, higher education in the U.S., communication, self-awareness, learning, vocational goals, and the college as a sociocultural system.

EDF 210 INTRODUCTION TO HUMAN DEVELOPMENT

3, 3/0; 1991-93

An introduction to human behavior and development. Topics include a study of forces that shape human behavior and development, developmental characteristics during the life cycle, learning, development and the educative process, ways of studying children, and understanding self. *Required of EE majors and EXE majors according to program; elective for others beyond freshman levels.

EDF 217 FOUNDATION OF EARLY CHILDHOOD EDUCATION

3, 3/0; F 91, 92, 93

Prerequisite: EDF 210 or equivalent. A study of the historical, sociological and psychological foundations of early childhood education and how they influenced child rearing practices and early childhood programs in 19th and 20th century Europe and America. Classification: elective.

EDF 221 (AAS 221) THE HISTORY OF BLACK EDUCATION IN AMERICA

3, 3/0

An examination of the role of blacks in the American educational system. Relevant information on various changes that have taken place in order to improve or retard education for blacks. The course will explore approaches for providing meaningful education for blacks now and in the future.

EDF 222 (AAA 222) THE DEVELOPMENT OF MODERN EDUCATION IN AFRICA

3, 3/0

A phase of study of educational changes in Africa beginning with the colonial era to the present time. One important aspect of the course will be the examination of the effect of these

changes on social and political issues in Africa and abroad.

EDF 225 ETHNIC STUDIES IN THE EDUCATIVE PROCESS

3, 3/0; F 92

This course is responsive to ethnic diversity in American life and education. Cultural minorities, e.g., Native American, blacks, Spanish-speaking, Jews, and white ethnic groups, and mainstream American life and education.

EDF 302 EDUCATIONAL PSYCHOLOGY: ELEM. ED.

3, 3, 3/0; 1991-93

Prerequisite: EDF 202, 2.5 GPA.

This course is designed to help prospective elementary education teacher understand learners, the learning process, how to evaluate learning, and how to establish a classroom environment which will maximize learning. May be taken concurrently with EDU 314.

EDF 303 EDUCATIONAL PSYCHOLOGY

3, 3/0; 1991-93 (E)

Psychological principles underlying learning and effective teaching, the effect of social and personality factors on learning, assessment and evaluation of individual progress; diagnosis of difficulties in learning, discipline, programming, and planning as related to instruction; directed observations. *Classification: Required for secondary education majors according to program, and HEE and IAE education majors.

EDF 338 OBSERVATION AND STUDY OF CHILDREN: NURSERY/PRIMARY

3, 3/0; F 92

Prerequisite: EDF 202 or equivalent.

Opportunity for students interested in early childhood education to study child behavior and development in nursery/preschool/day care/primary school or other settings; projects include observations and study experiences.

EDF 345 PARENTING

3, 3/0; F 91 (E)

This course explores the relevant issues facing parents and the professionals who work with them in today's changing society. It includes both classical and current research with emphasis on practical application and implication as well as a developmental approach to understanding parent-child relationships. Because of the diversity of contemporary families the course helps to prepare students to work more effectively with parents with varied cultural backgrounds, family structures, lifestyles, and at-risk factors.

EDF 346 TEENAGE SEXUALITY

3, 3/0; Sp 91, 92 (E)

A critical examination of teenage sexuality and

factors in influencing its emergence; considers how sexuality education can be incorporated in the teaching-learning process at home and in school, ways to facilitate cooperative efforts by parents and teachers. Offers opportunities to develop skills in communicating with teenagers about their sexuality and strategies whereby teens can deal with sexuality concerns more effectively. Surveys community resources for teens, parents, and teachers; examines special issues and problems.

EDF 350
HUMAN DEVELOPMENT DURING
EARLY CHILDHOOD

3, 3/0; 1991-93

Prerequisite: EDF 210. A consideration of behavior and development during early childhood with emphasis on teaching/learning implication. Topics include a study of developmental processes during these ages, methods of studying young children, problems of child behavior and development, and an analysis of learning in home, pre-school, and primary school. *Required of EE and EXE majors; permissible substitution: EDF 353; elective for others.

EDF 353
HUMAN DEVELOPMENT DURING
EARLY ADOLESCENCE

3, 3/0; 1991-93

An introduction to the study of early adolescent and adolescent behavior and development with emphasis on implications for teaching. Includes a consideration of the nature of adolescence, developmental and behavioral characteristics, learning and education, problems and issues of adolescents in today's society, ways teachers can study adolescents and self-understanding. *Required for secondary education majors according to program; elective for others.

EDF 403
HISTORICAL AND PHILOSOPHICAL
FORCES INFLUENCING SECONDARY
EDUCATION

3, 3/0; 1991-93

European influences in American education; religious influences in education; secular influences in education, evolving concepts of education in a democracy; social and economic pressures in education; development of the secondary school; conflicting philosophies in current education. *Required for secondary education majors in English, mathematics, science, social studies, and foreign languages. Taken concurrently with EDU 306, 307, 308, 309 or 310, when student teaching occurs in the last semester of the senior year.

EDF 410
PHILOSOPHY OF EDUCATION

3, 3/0; F 92, F 93

Examination and evaluation of the more influential theories of education and their effect upon education, past and present, effect of democratic, as opposed to authoritarian, concepts of the good life upon school policy and practice, nature and function of academic free-

dom, the public school and the religious dimension of life; importance of continuity between avowed values and actual school practices. *Elective for juniors and seniors.

EDF 412
COMPARATIVE EDUCATION

3, 3/0; Sp 92

Education as an influence in world affairs; comparison of educational problems and their solution, in various countries; relationship of education programs to the cultural heritage and its future; selection of program studies in terms of student interests and current developments. *Elective for juniors and seniors.

English

Offered by the English Department
DR. THERESA F. PLATEK, Chairperson
Ketchum Hall 326

ENG 099
DEVELOPMENTAL WRITING

0, 3/0; 1991-93

An introductory course designed to reinforce sentence and paragraph structure through emphasis on unity, consistency, order, and coherence. *Does not carry credit.

ENG 101
COLLEGE WRITING I

3, 3/0; 1991-93

Emphasis on expository prose, writing assignments.

ENG 102
COLLEGE WRITING II

3, 3/0; 1991-93

Prerequisite: ENG 101 or exemption therefrom. Readings in literature with emphasis on the techniques of analyzing and writing about literature.

ENG 110
ENGLISH LITERATURE I:
SELECTED TOPICS

3, 3/0; 1991-93 (H)

A survey of topics, themes, and authors in English literature to 1700.

ENG 111
ENGLISH LITERATURE II
SELECTED TOPICS

3, 3/0; 1991-93 (H)

A survey of topics, themes, and authors in English literature from 1700 to 1900.

ENG 130
BIBLICAL AND CLASSICAL
LITERATURE

3, 3/0; 1991-93 (H)

A study of Greek, Roman, and Biblical literature.

ENG 131
MEDIEVAL AND RENAISSANCE
LITERATURE

3, 3/0; 1991-93 (H)

A study of major European writers prior to 1600.

ENG 132
MODERN EUROPEAN LITERATURE

3, 3/0; 1991-93 (H)

A study of major European writers after 1600.

ENG 140
AMERICAN LITERATURE I:
SELECTED TOPICS

3, 3/0; 1991-93 (H)

A survey of topics, themes, and authors in American literature prior to the Civil War.

ENG 141
AMERICAN LITERATURE II:
SELECTED TOPICS

3, 3/0; 1991-93 (H)

A study of major American writers after the Civil War.

ENG 151
INTRODUCTION TO POETRY

3, 3/0; 1991-93 (H)

A study of the verbal and formal techniques of English and American poetry; prosody, verse forms, conventions, genres, diction, and imagery.

ENG 180
INTRODUCTION TO FOLKLORE

3, 3/0; Sp 92, 93 (E)

A general introduction to the nature, form of folklore, and its function in society.

ENG 202
CREATIVE WRITING: NARRATIVE

3, 3/0; 1991-93 (E)

Prerequisite: Fulfillment of the freshman writing requirement. An introductory course emphasizing the writing of fiction.

ENG 203
CREATIVE WRITING: POETRY

3, 3/0; 1991-93 (E)

Prerequisite: Fulfillment of the freshman writing requirement. An introductory course emphasizing the writing of poetry.

ENG 205
HISTORY OF CINEMA I

3, 3/0; 1991-93 (H)

A broad survey of the development of the motion picture from its earliest form in the 1890s to the inception of sound.

ENG 206
HISTORY OF CINEMA II

3, 3/0; 1991-93 (H)

A survey of the development of the motion picture from the inception of sound to the present.

ENG 230
COMPARATIVE LITERATURE

3, 3/0; 1991-93 (H)

Recurring ideas, themes, and theories in world literature.

ENG 231
WOMEN IN LITERATURE:
SELECTED TOPICS

3, 3/0; F 91, 92 (E)

An examination of the images of women in literature as they reflect attitudes about women and their roles. Emphasis on authors and eras varies with instructors.

ENG 240
AFRO-AMERICAN LITERATURE
TO 1940

3, 3/0; 1991-93 (E)

Survey of black American slave narratives, poetry, fiction, essays, and drama, noting the influence of the African oral tradition on the black American writer. The Harlem renaissance of the 1920s and its relation to the development of black revolutionary thought is emphasized.

ENG 241
AFRO-AMERICAN LITERATURE
SINCE 1940

3, 3/0; 1991-93 (E)

Survey of black revolutionary thought and artistry in such writers as Richard Wright, William Demby, Ralph Ellison, LeRoi Jones, James Baldwin, Don L. Lee, Gwendolyn Brooks, Nikki Giovanni, John Henrik Clarke, and Ed Bullins.

ENG 250
LITERARY CRITICISM

3, 3/0; 1991-93

An introduction to the basic questions of theoretical and practical literary criticism. Intended primarily for those students who have or are considering a major or a concentration in English.

ENG 252
CONTEMPORARY LITERATURE I

3, 3/0; 1991-93 (H)

A study of literature in English from 1900 to 1945.

ENG 253
CONTEMPORARY LITERATURE II

3, 3/0; 1991-93 (H)

A study of literature in English from 1945 to the present.

ENG 260
CHILDREN'S LITERATURE

3, 3/0; 1991-93 (E)

A study of the types of children's literature with attention to the principles of book selection and reading interests of children. *Sophomores, juniors, and seniors only.

ENG 280
AMERICAN FOLKLORE

3, 3/0; F 91, 92 (E)

Introduction to American folklore and its uses.

ENG 300
WRITING FOR THE PROFESSIONS

3, 3/0; 1991-93 (E)

Prerequisite: Fulfillment of the freshman writing requirement. Practice for students who wish to improve their competence in writing and editing for a variety of professions.

ENG 301
ADVANCED COMPOSITION

3, 3/0; 1991-93 (E)

Prerequisite: Fulfillment of the freshman writing requirement. Practice in writing expository papers.

ENG 303
LITERATURE IN THE FILM

3, 3/0; 1991-93 (E)

A study of the motion picture as a vehicle for literature. Analysis and composition of the verbal and pictorial forms.

ENG 304
FORMS OF THE FILM

3, 3/0; 1991-93 (E)

A study of breadth and depth of selected film forms. Emphasis on the film as art, medium of communication, and social document. May be taken for credit more than once where content is different.

ENG 309
TEACHING AND EVALUATING WRITING

3, 3/0; 1991-93

Prerequisite: Fulfillment of the freshman writing requirement. Methods for teaching and evaluating writing including theories of composition and rhetoric, approaches to teaching composition, ways to respond to writing-in-progress and completed texts, methods of measuring growth, and means to evaluate writing performance.

ENG 315
SHAKESPEARE I

3, 3/0; 1991-93 (E)

Prerequisite: Sophomore standing or three hours of English. A study of the earlier comedies, tragedies, and histories.

ENG 316
SHAKESPEARE II

3, 3/0; 1991-93 (E)

Prerequisite: Sophomore standing or three hours of English. A study of the later comedies, tragedies, and histories.

ENG/MUS 328
WORDS AND MUSIC

3, 3/0; Sp 92 (E)

Broadway musicals, songs, operas, and other works of art which combine words and music are

analyzed in terms of the relations between musical structure and linguistic structure.

ENG 330
LITERATURE OF THE BIBLE

3, 3/0; 1991-93 (E)

Prerequisite: Sophomore standing or three hours of English. A study of the Bible as literature.

ENG/FRE 331
FRENCH LITERATURE IN
TRANSLATION

3, 3/0; See FRE for offerings. (E)

Prerequisite: A literature course at the college level or permission of instructor. Selected masterpieces of contemporary French literature in translation. Knowledge of French not required. *Open to French majors only upon approval of both the department chairperson and the course instructor.

ENG/RUS 332
RUSSIAN LITERATURE IN
TRANSLATION

3, 3/0; (E)

Prerequisite: A literature course at the college level or permission of instructor. Writers such as Gogol, Pushkin, Turgenev, Goncharov, Tolstoy, Dostoevsky, and Chekhov. Knowledge of Russian not required.

ENG/POL 334
POLISH LITERATURE
IN TRANSLATION

3, 3/0; (E)

Prerequisite: A literature course at the college level or permission of instructor. Introduction to Polish culture and literature through readings from the major dramatists and poets from the Middle Ages to the Post-Romantic Period. Lectures and readings to be enhanced by audiovisual material. Knowledge of Polish not required.

ENG/ITA 335
ITALIAN RENAISSANCE
LITERATURE IN TRANSLATION

3, 3/0

Prerequisite: A literature course at the college level or permission of instructor. The development of humanism from Petrarch to Tasso. Knowledge of Italian not required.

ENG/ITA 336
MODERN ITALIAN
LITERATURE IN TRANSLATION

3, 3/0; (E)

Prerequisite: A literature course at the college level or permission of instructor. Major writers since World War II. Knowledge of Italian not required.

ENG/RUS 338
RUSSIAN LITERATURE
SINCE THE REVOLUTION

3, 3/0

Prerequisite: A literature course at the college

level or permission of instructor. An examination of the state of Russian literature from the revolution to the present. Such writers as Gorky, Sholokhov, Terz, Solzhenitzyn, Pasternak, and Yevtushenko. Knowledge of Russian not required.

**ENG/POL 339
MODERN POLISH LITERATURE
IN ENGLISH TRANSLATION**

3, 3/0

Prerequisite: A literature course at the college level or permission of instructor. Selected masterpieces of Polish literature and culture from 1863 to the present: novels, short stories, drama, and poetry. Knowledge of Polish not required.

**ENG 341
MODERN HEBREW LITERATURE IN
TRANSLATION**

3, 3/0; (E)

Israeli literature today, its background and influences. Poetry and fiction translated from the Hebrew.

**ENG 345
WORLD LITERATURE AFTER 1945**

3, 3/0; Sp 92, 93 (E)

Post-World War II literature around the globe. Study of poetry and fiction along with the cultural background of at least two continents per semester.

**ENG 350
DRAMA: IBSEN TO 1945**

3, 3/0; F 91, 92 (E)

Prerequisite: Sophomore standing or three hours of English. Drama from the 1880s until the end of World War II of such playwrights as Ibsen, Strindberg, Chekhov, Lorca, Synge, O'Casey, and O'Neill.

**ENG 351
DRAMA SINCE 1945**

3, 3/0; 1991-93 (E)

Prerequisite: Sophomore standing or three hours of English. Drama since World War II. Includes epic theater, absurdism, and theater of cruelty of such playwrights as Brecht, Ionesco, Beckett, Genet, Miller, Albee, Pinter, Baraka, and Arrabal.

**ENG 354
ETHNIC-AMERICAN MINORITY
LITERATURE**

3, 3/0; 1991-93 (E)

Background, development, and contemporary contribution of ethnic-American minority literature (folk, poetry, short story, novel, biography, and plays) and individual authors. A study of the literary characteristics of the literature, its contribution to the field of American literature, and its place in today's society.

**ENG 355
THE SHORT STORY**

3, 3/0; 1991-93 (E)

Prerequisite: Sophomore standing or three

hours of English. Major writers in the development of short fiction; may include stories of writers from Poe or Gogol to Pirandello, Joyce, Faulkner, Camus, Malamud, Boll, Sillitoe, or W.M. Kelley.

**ENG 356
FUTURISTIC FICTION**

3, 3/0; F 91, 92 (E)

Prerequisite: Sophomore standing or three hours of English. Background, development, and present status of futuristic fiction. Short story and novel forms. A study of the quality of the literature and its place in today's society.

**ENG 357
COMEDY**

3, 3/0; 1991-93 (E)

Prerequisite: Sophomore standing or three hours of English. Exploration of the nature and forms of comedy in stage and television drama, poetry, fiction, jokes, and life situations. Relationship to respective cultures and periods from Aristophanes into the 1970s.

**ENG 359
TELEVISION DRAMA**

3, 3/0; 1991-93 (E)

A study of TV drama as one of the most recent manifestations in the history of drama generally. Analysis of structure, characterization, tone, style, and texture of selected TV scripts and viewings from the "Golden Age" forward.

**ENG 360
REALISTIC FICTION FOR CHILDREN**

3, 3/0; Sp 92, 93

Prerequisite: ENG 260, or permission of instructor. A study of the literary characteristics, recurring themes, significant authors, and major categories of realistic fiction for children. Students will read and discuss classic and contemporary realism, and illustrations in realistic fiction will be viewed and evaluated in terms of relationship to literary elements.

**ENG 377
INTRODUCTION TO SEMANTICS**

3, 3/0; 1991-93 (E)

Analysis of the relations between words and meaning, cognition and language, culture and connotation. Review of classic and contemporary semantic theories.

**ENG 402
ADVANCED CREATIVE WRITING:
NARRATIVE**

3, 3/0; F 91, 92

Prerequisite: ENG 202, publication of fiction, or permission of instructor. A creative workshop for students who wish to attempt longer forms of narrative than the short story.

**ENG 403
ADVANCED CREATIVE WRITING:
POETRY**

3, 3/0; Sp 92, 93

Prerequisite: ENG 203 or permission of instructor.

A creative workshop for students experienced and/or talented in the writing of poetry.

**ENG 404
STUDIES IN CINEMA**

3, 3/0; 1991-93

Prerequisite: Minimum of one lower-level film course or permission of instructor. May be taken more than once where content is different. An analytical, in-depth study of a film genre, performer, director, or period.

**ENG 411
CHAUCER**

3, 3/0; Sp 92, 93

Prerequisite: Six hours of literature courses. A study of representative works of Geoffrey Chaucer.

**ENG 413
MILTON**

3, 3/0; F 91

Prerequisite: Six hours of literature courses. A study of representative works of John Milton.

**ENG 415
SEVENTEENTH CENTURY ENGLISH
LITERATURE**

3, 3/0; Sp 92

Prerequisite: Six hours of literature courses. A study of the literature of 17th-century England.

**ENG 416
EIGHTEENTH CENTURY ENGLISH
LITERATURE**

3, 3/0; Sp 93

Prerequisite: Six hours of literature courses. A study of the literature of 18th-century England.

**ENG 417
ENGLISH NOVEL TO 1800**

3, 3/0; F 91

Prerequisite: Six hours of literature courses. A study of the English novel prior to 1800.

**ENG 418
ENGLISH NOVEL 1800-1900**

3, 3/0; F 92

Prerequisite: Six hours of literature courses. A study of representative 19th-century English novels.

**ENG 419
ROMANTIC MOVEMENT IN
ENGLISH LITERATURE**

3, 3/0; Sp 92

Prerequisite: Six hours of literature courses. A study of English Romantic writers.

**ENG 420
EARLY VICTORIAN LITERATURE**

3, 3/0; Sp 93

Prerequisite: Six hours of literature courses. Study of English writers, 1832-59.

**ENG 421
LATER VICTORIAN LITERATURE**

3, 3/0; F 91

Prerequisite: Six hours of literature courses. A study of English writers, 1859-1914.

**ENG 422
JAMES JOYCE AND HIS
CONTEMPORARIES**

3, 3/0; F 92

Prerequisite: Six hours of literature courses. A study of the major fiction of James Joyce; supplemental readings in other writers of the period.

**ENG 432
COMPARATIVE DRAMA: TRAGEDY**

3, 3/0; F 92

Prerequisite: Six hours of literature courses. A study of the tragic drama from Aeschylus to the present.

**ENG 441
ROMANTIC MOVEMENT IN
AMERICAN LITERATURE**

3, 3/0; F 91

Prerequisite: Six hours of literature courses. A study of American Romantic writers.

**ENG 442
AMERICAN NOVEL TO 1900**

3, 3/0; Sp 92

Prerequisite: Six hours of literature courses. A study of the 19th-century American novel.

**ENG 450
STUDIES IN POETRY**

3, 3/0; Sp 92, 93

Prerequisite: Six hours of literature courses. A study of a particular aspect of poetry: theme, motif, philosophy, concept, or literary movement in English, American, or world literature. May be taken more than once where content is different.

**ENG 451
STUDIES IN FICTION**

3, 3/0; 1991-93

Prerequisite: Six hours of literature courses. Analysis of selected aspects of the novel, novella, or short story: theme, motif, concept, or movement in English, American, or world literature. May be taken more than once where content is different.

**ENG 452
STUDIES IN DRAMA**

3, 3/0; 1991-93

Prerequisite: Six hours of literature courses. A study of particular aspects of drama: theme, motif, philosophic content, or literary movement in English, American, or world literature. May be taken more than once where content is different.

**ENG 454
CONTEMPORARY NOVEL I**

3, 3/0; 1991-93

Prerequisite: Six hours of literature courses. A study of major British and/or American novels from 1914-1945.

**ENG 455
CONTEMPORARY NOVEL II**

3, 3/0; 1991-93

Prerequisite: Six hours of literature courses. A study of major British and American novels from 1945 to the present.

**ENG 461
YOUNG ADULT LITERATURE**

3, 3/0; 1991-93

Prerequisite: Six hours of literature courses. A study of literature appropriate to students in grades 7-12.

**ENG 462
METHODS AND MATERIALS IN
TEACHING SECONDARY-SCHOOL
ENGLISH**

3, 3/0; 1991-93

Prerequisite: ENG 470, EDF 303, SST 200 and minimum cumulative average of 2.00. A study of secondary-school curriculum materials and methods of instruction. Only open to juniors and seniors majoring in secondary English or elementary majors seeking certification in English; to be taken the semester before student teaching.

**ENG 464
STUDENT TEACHING IN SECONDARY-
SCHOOL ENGLISH**

12, 0/30; 1991-93

Prerequisite: Completion of ENG 462 with minimum grade of C. Cumulative average minimum of 2.00; 2.50 GPA in Professional Education Block with no grade below C; evidence of passing NTE in Communication Skills and General Knowledge. Full-time practice teaching, five days per week, for 14 weeks; seven weeks in a junior high school situation and seven weeks in a senior high school situation. College supervision bi-weekly. Elementary extension students teach one situation. *Required of juniors and seniors in secondary English and elementary extension students.

**ENG 470
FOUNDATIONS OF LANGUAGE**

3, 3/0; 1991-93

A study of the structure of language with emphasis on English, relation to speech and to writing; language families and their relationships; language change, significance of regional and social dialects.

**ENG 472
ENGLISH GRAMMARS**

3, 3/0; 1991-93

Prerequisite: ENG 470. A study of different approaches to the analysis of the English language; brief history of the development of the English language; historical survey of the study

of language; detailed study of the contemporary scientific approaches to the study of English.

**ENG 476
NON-VERBAL COMMUNICATION**

3, 3/0; Sp 92, 93

Prerequisite: Six hours of English. A study of the history and development of non-verbal communication and communication systems including grimaces, gestures, posture, tone of voice.

**ENG 490
ENGLISH SEMINAR**

3, 3/0; 1991-93

Prerequisite: Six hours of English. A study of specific writers.

**ENG 495
PROJECT**

**ENG 499
INDEPENDENT STUDY**

Exceptional Education

Offered by the Exceptional Education Department
DR. DON LOGAN, Chairperson
Ketchum Hall 201

**EXE 100
NATURE AND NEEDS OF INDIVIDUALS
WHO ARE EXCEPTIONAL**

3, 3/0; 1991-93 (T)

The study of individuals who are exceptional due to factors of intelligence, physical development, behavior, and sensory impairment. The course examines the causes, characteristics, and implications — educational, social, and vocational — of individuals who deviate from the average or normal. Required of all exceptional education majors.

**EXE 245
COMMUNITY SERVICE WITH
INDIVIDUALS WHO ARE EXCEPTIONAL**

1-3, 1-3/2-6/3-9; 1991-93 (E)

Service in community agencies with individuals who are exceptional. May be taken for one, two, or three credits. Three credit hours required for majors in exceptional education.

**EXE 306
BEHAVIOR MANAGEMENT**

3, 3/1; 1991-93 (T)

Prerequisite: EXE 100. Reviews various procedures and strategies for managing behavior of students in special education settings. The course focuses on the prevention of undesirable classroom behavior, the assessment and remediation of behavior problems, and the effective

delivery of instruction. Students are required to complete a project in an approved educational setting. Required of all exceptional education majors.

EXE 314 PSYCHOLOGY OF INDIVIDUALS WHO ARE EXCEPTIONAL

3, 3/0; F 91, 92, 93 (T)
Examination of behavior trends common to various types of exceptionality; description, analysis, examination of educational implications.

EXE 320 EVALUATING INDIVIDUALS WHO ARE EXCEPTIONAL

3, 3/1; 1991-93
Prerequisite: EXE 100. Introduction to the educational assessment of students who are disabled. Models, issues, basic terminology and practice, interpreting scores, testing and test construction are included. Required of all exceptional education majors.

EXE 330 INDIVIDUALS WITH MILD HANDICAPS

3, 3/0; 1991-93
Prerequisite: EXE 100. This course provides in-depth consideration of the history, causes, personal and social factors, and needs of individuals exhibiting mild handicapping conditions. Required of all exceptional education majors.

EXE 331 INDIVIDUALS WITH MODERATE/SEVERE/AND MULTIPLE HANDICAPS

3, 3/0; 1991-93
Prerequisite: EXE 100. This course provides in-depth consideration of the history, causes, personal and social factors, and needs of individuals exhibiting moderate and severe handicapping conditions. Required of all exceptional education majors.

EXE 340 CURRICULUM FOR INDIVIDUALS WITH MILD HANDICAPS

3, 3/1; 1991-93
Prerequisite: EXE 306; EXE 330. Basic curricular practices; procedures in developing, implementing, and revising programs for students who are mildly handicapped. Required of all exceptional education majors.

EXE 341 CURRICULUM FOR INDIVIDUALS WITH MODERATE/SEVERE/MULTIPLE HANDICAPS

3, 3/1; 1991-93
Prerequisite: EXE 306; EXE 331. Curriculum methods, materials, problems, in educating students with moderate, severe or multiple handicaps in public school classes, residential settings, vocational programs, and other service programs. Required of juniors and seniors in exceptional education.

EXE 385 OBSERVATION AND PARTICIPATION IN SPECIAL EDUCATION

6, 2/12; 1991-93
Prerequisite: Cumulative GPA of 2.00 or higher; EXE 320; EXE 340; EXE 341, EDU 315. Observation, classroom participation, selection, organization, presentation of curriculum material at different grade levels; evaluation of pupil progress in classes for students with handicapping conditions. Required of juniors and seniors in exceptional education.

EXE 420 PRACTICUM IN SPECIAL EDUCATION

6, 1/2 semester; 1991-93
Prerequisite: Grade of C or higher in EXE 385. Minimum overall cumulative GPA of 2.5. Minimum cumulative GPA of 2.5 in the major. Practice teaching with students who are learning and behavior disordered, mentally retarded, and physically and neurologically impaired in public school special classes, private agencies, or residential settings. Required of seniors in exceptional education.

EXE 495 PROJECT

EXE 499 INDEPENDENT STUDY

Fashion Technology

Offered by the Nutrition and Food Science Department
DR. DENNIS K. PONTON, Chairperson
Caudell Hall 106

CFS 108 APPAREL DESIGN

3, 2/1; 1991-93 (T)
Application of principles of selective design, fitting and construction techniques using a commercial pattern, including an analysis of textiles and socio-psychological aspects of clothing.

CFS 206 INTRODUCTION TO TEXTILES

3, 3/0; 199-193 (T)
An introduction to the consumer selection, use, and care of textile products. This course will be useful for non-majors as well as majors with little or no background in chemistry. Topics include the processes involved in producing textile products, properties of textiles, and the influences of these properties on textile utilization and performance.

CFS 230 FAMILY HEALTH AND NURSING — A HOLISTIC APPROACH

3, 3/0; 1991-93 (E)
This course discusses family health through the logical approach or the developmental life cycle. Each stage of the life cycle will be considered holistically, stressing high-level wellness. The holistic approach will consider heredity, psychological, social-cultural, and environmental factors concurrently. Facts and procedures essential in preventing illness as well as maintaining and safeguarding the health of the individual and family will be presented.

CFS 303/THA 303 FASHION ILLUSTRATION

3, 3/0; Sp 92, 93
Prerequisite: DES 105, CFS 108, or THA 311, or permission of instructor. Introduction to fashion drawing; development of drawing skills that will enable students to utilize a variety of media to present the fashion figure with contemporary fashion styles from rough sketch to finished rendering.

CFS 304 INTRODUCTION TO RESEARCH METHODS

3, 3/0
Prerequisite: Beginning course in statistics; junior or senior standing. Introduction to the research process. Steps in conducting research; selecting, limiting, planning a study; testing the hypothesis, writing the research report.

CFS 306 TEXTILE SCIENCE

3, 2/2
Prerequisite: Chemistry 102 or 112 strongly recommended. Study of natural and man-made fibers as they relate to use, care, and consumer satisfaction.

CFS 307 CLOTHING DESIGN AND CONSTRUCTION

3, 2/2; Sp 92, 93
Prerequisite: CFS 108; CFS 306 recommended. Creative use of commercial patterns with experimental implementation of fabrics, methods, and design; combined with a comparative study of ready-to-wear.

CFS 327 CLOTHING DESIGN THROUGH FLAT PATTERN TECHNIQUES

3, 2/2; F 92
Prerequisite: CFS 306, CFS 307 or permission of instructor. Emphasis on fitting and figure problems; development of master pattern from personal sloper, designing and creating garments through the use of flat pattern methods.

CFS 328 CLOTHING DESIGN THROUGH DRAPING

3, 2/2; Sp 92
Prerequisite: CFS 108, 306, 327 or permission of instructor. Experience with the manipulation of a two-dimensional fabric to cover three-dimensional forms — both mobile and immobile — using a variety of fabrics to achieve individualized design.

CFS 336 TEXTILE EVALUATION

3, 2/2; 1991-93
Prerequisite: CFS 306 or permission of instructor. Fibers, yarns, fabrics, and finishes emphasizing textile testing and utilizing test methods in relation to the consumer and the environment.

CFS 340 INTRODUCTION TO FASHION MERCHANDISING

3, 3/0; 1991-93 (T)
An introduction to Fashion Merchandising including basic market structure, operational patterns, and occupational roles.

CFS 357 CONTEMPORARY FASHION ANALYSIS

3, 3/0; F 91, 92
Prerequisite: CFS 108, and CFS 306, or permission of instructor. Analysis of fashion cycles and theories, and consideration of societal influences on fashion. Students will examine current fashion trends and become familiar with designers, fashion terminology and selected fashion centers. They will have the opportunity to attend and evaluate designer and/or trunk shows at area fashion retailers.

CFS 410 FUNDAMENTALS OF APPAREL PRODUCTION

3, 3/0; Sp 92, 93
Prerequisite: CFS 108, 306 or permission of instructor. Apparel production provides students with an overview of the apparel industry. It includes a study of the structure and organization of the industry as well as the design sources, techniques of pattern development, selection of raw materials, manufacturing processes, costing, quality control, and marketing strategies of the finished product.

CFS 425 CLOTHING DESIGN THROUGH TAILORING

3, 2/2; Sp 92
Prerequisite: CFS 306, CFS, 307. Selection, design, fitting, and construction techniques pertaining to traditional and contemporary tailoring.

CFS 434 PRINCIPLES AND PRACTICES IN FASHION BUYING AND MERCHANDISING

3, 3/0; Sp 92, 93

Prerequisite: CFS 340, BUS 117. Principles and practices in fashion buying provides students with marketing skills specific to fashion buying. Market segmentation, fashion merchandising objectives, and techniques used for buying and controlling fashion inventories will be explored.

CFS 349 PUBLIC POLICY IN THE CONSUMER INTEREST

3, 3/0
Prerequisite: Permission of instructor. A survey of the nature, determinants, and impact of the consumer interest on public policy in the United States. The substantive aspects of consumer policy are analyzed at both the theoretical and the practical levels.

CFS 447 CLOTHING IN RELATION TO HUMAN BEHAVIOR

3, 3/0; F 91, 92 (E)
An exploration of the cultural, communicative, sociological, and psychological functions of dress as they relate to human behavior. Topics include the cultural universalities and diversities of dress, the interpretation of the communicative language of clothing, psychological clothing needs of the life cycle, clothing needs of the disabled, and contemporary issues related to dress.

CFS 448 COSTUME THROUGH THE AGES

3, 3/0; Sp 92 (E)
Prerequisite: CFS 108 and CFS 306. Survey of fashion from earliest period of time to the present, with concentration on societal influences and recurring fashion trends.

CFS 449 TEXTILES THROUGH THE AGES

3, 3/0; Sp 93
Prerequisite: CFS 306 or permission of instructor. Survey of textiles from earliest period of time to the present, with concentration on the technological development of textile and its influence on today's design and culture.

CFS 450 APPAREL/TEXTILE/FASHION INDUSTRY

3, 3/0; Sp 91, 92
Prerequisite: CFS 306, 357, 447, CFS 448 or 449. Overview of textile/apparel/fashion industry with emphasis on the inherent structural characteristics of the three segments, their interrelationships and current issues.

CFS 488 INTERNSHIP

Variable credit; 1991-93
Prerequisite: Upper division standing and permission of instructor. Designed to provide for the integration of theoretical knowledge with practical experience in an institutional, business, social, or governmental agency. Includes supervised field participation, meetings with instructor, and written or other production. Students

must have at least a 2.5 GPA and a background within the area of interest to be considered for this experience. May be taken for maximum of nine credits with no more than six being in one agency.

CFS 495 PROJECT

Credits vary; 1991-93

CFS 499 INDEPENDENT STUDY

Credits vary; 1991-93

Fine Arts

Offered by the Fine Arts Department
FRANK C. ECKMAIR, Chairperson
Upton Hall 502

All studio courses in fine arts require at least three hours per week of outside preparation in addition to the regular class meetings.

FAR 100 INTRODUCTION TO FINE ARTS

3, 0/6; (A)
A study of the critical bases for procedures in the fine arts; introductory problems in studio performance. Lecture and studio experience. Note: For non-art majors only.

FAR 101 DRAWING I

3, 0/6; 1991-93 (A)
Fundamentals of drawing based primarily on the study and representation of objects and nature forms, with problems of analysis, composition, and structure in various media; involves lecture and studio experience.

FAR 102 DRAWING II

3, 0/6; 1991-93 (E)
Prerequisite: FAR 101. Drawing from the nude using various media with an emphasis on proportion anatomy and pictorial structure; involves lecture and studio experience.

FAR 103 MODELING

3, 0/6; 1991-93
Modeling as an introductory experience in the exploration of three-dimensional form; development of perceptual and analytical attitudes; involves lectures and modeled work dealing with the human figure; for B.F.A. first-year students only.

FAR 210 INTRODUCTORY PAINTING

3, 0/6; 1991-93 (A)
Prerequisite: FAR 101. An introduction to the methods, techniques, standards, and values of painting; exploration of color, form, and com-

positional problems; includes lecture and studio experiences.

FAR 220 **INTRODUCTORY PHOTOGRAPHY**

3, 0/6; 1991-93 (A)
Prerequisite: FAR 101. Basic technique: camera use, film development, enlarging, print finishing, and presentation. Emphasis will be placed concurrently upon image and technique to produce personal expressive images; includes lecture and studio experiences. Note: 35mm camera with meter and full manual controls required.

FAR 230 **INTRODUCTORY PRINTMAKING**

3, 0/6; 1991-93 (A)
Prerequisite: FAR 101. An introduction to printmaking and its basic processes and techniques, involving demonstrations, lectures, and studio experiences in one or more areas such as intaglio, lithography, and relief.

FAR 240 **INTRODUCTORY SCULPTURE**

3, 0/6; 1991-93 (A)
Prerequisite: FAR 101. Introduction to the fundamentals of sculptural form; exploration of additive, subtractive, and constructive approaches to sculpture through lecture and studio experiences.

FAR 250 **ART HISTORY I**

3, 3/0; 1991-93 (A)
Development of art from ancient times through the Gothic period. Particular emphasis will be placed upon significant works of painting, sculpture, and architecture.

FAR 251 **ART HISTORY II**

3, 3/0; 1991-93 (A)
Recommended prerequisite: FAR 250. The development of art from the Renaissance to the modern period. Particular emphasis will be placed upon the significant works of painting, sculpture, and architecture.

FAR 300 **DRAWING III**

3-6 (3 hrs./sem.), 0/6; 1991-93
Prerequisite: FAR 102. A continuation of FAR 102 with an emphasis on surface anatomy and pictorial structure; includes lecture and studio experience.

FAR 311 **INTERMEDIATE PAINTING I**

3, 0/6; 1991-93
Prerequisite: FAR 210. A continuation of the problems dealt with in Introductory Painting, working toward a greater awareness of a personal statement; includes lecture and studio experience.

FAR 312 **INTERMEDIATE PAINTING II**

3, 0/6; 1991-93
Prerequisite: FAR 311. A continuation of the problems dealt with in the first two painting courses, allowing the opportunity for more thorough fundamental awareness at a more intense concentration; includes lecture and studio experience.

FAR 313 **ADVANCED PAINTING**

3-9 (3 hrs./sem.) 0/6; 1991-93
Prerequisite: FAR 312. Advanced painting, with media, style, and content based on individual needs; concentration on individually-selected areas of painting; includes lectures and studio experience.

FAR 316 **PAINTING IN SIENA**

3, 0/6; 1991-93
Prerequisite: For art credit — FAR 210; For non-art credit — none. An upper-level course in painting taught in Siena, Italy. Students will work at the level of their experience and in the materials and techniques currently available in Siena.

FAR 321 **INTERMEDIATE PHOTOGRAPHY**

3, 0/6; 1991-93
Prerequisite: FAR 220. A continuation of introductory photography with more in-depth studies; concurrent emphasis on technique and image to produce personal, expressive, and significant images; includes lecture, field and studio experience. Note: 35mm camera with meter and full manual controls required; tripod, hand meter, and flash desirable.

FAR 322 **INTERMEDIATE PHOTOGRAPHY II**

3, 0/6; 1991-93
Prerequisite: FAR 321. An advanced course in the photographic disciplines, stressing the individual, expressive, and creative approach to the making of significant photographic images. Includes lecture, field and studio experiences. Note: 35mm camera with meter and full manual controls, tripod, flash, hand meter required.

FAR 323 **ADVANCED PHOTOGRAPHY**

3-9 (3 hrs./sem.) 0/6; 1991-93
Prerequisite: FAR 322. An advanced course in which individual directions and advanced photographic concerns may be explored; includes lecture, field and studio experiences.

FAR 327 **NON-SILVER PHOTOGRAPHIC PROCESSES**

3, 0/6
Prerequisite: FAR 220. An investigation of light-sensitive, non-silver photographic processes. Areas covered will be cyanotype, Vandyke brown, casein, and gum bichromate. Stu-

dents will be given instruction in the basic processes then individually assigned problems. Papers, fabrics, and other working materials and supplies will be provided by the student.

FAR 331 **INTERMEDIATE PRINTMAKING I**

3, 0/6; 1991-93
Prerequisite: FAR 230. An exploration of the relief processes in the making of prints through woodcuts and wood engravings; emphasis upon personal expression and creative possibilities. Lectures and studio experiences.

FAR 332 **INTERMEDIATE PRINTMAKING II**

3, 0/6; 1991-93
Prerequisite: FAR 331. An exploration of the intaglio process in making prints through etching and dry point; emphasis upon personal expression and creative possibilities. Includes lectures and studio experience.

FAR 333 **ADVANCED PRINTMAKING**

3-9 (3 hrs./sem.) 0/6; 1991-93
Prerequisite: FAR 331 and 332. Advanced printmaking, media determined by the student in consultation with the instructor; includes lectures and studio experiences.

FAR 335 **PAPERMAKING**

3-9 (3 hrs./sem.) 0/6; 1991-93 (E)
Prerequisite: Any studio experience in FAR/DES. The theory and practice of handmade papermaking involving demonstrations, lectures, and studio experience. Note: Required of B.F.A. printmaking majors (0165).

FAR 341 **INTERMEDIATE SCULPTURE I**

3, 0/6; 1991-93
Prerequisite: FAR 240. A further exploration of sculptural form with a more thorough study of the numerous sculptural approaches and techniques; practice in planning and executing sculpture projects.

FAR 342 **INTERMEDIATE SCULPTURE II**

3, 0/6; 1991-93
Prerequisite: FAR 341. A continuation of Intermediate Sculpture I with further emphasis on exploration of the variations within each technique and approach; development of personal modes of expression.

FAR 343 **ADVANCED SCULPTURE**

3-9 (3 hrs./sem.) 0/6; 1991-93
Prerequisite: FAR 342. Concentration on individually selected areas of development in sculpture based on personal interests, needs, and experience.

FAR 345 **FIGURE MODELING**

3, 0/6; 1991-93
Prerequisite: FAR 240. Figure modeling as a basic sculptural discipline; portrayal interpretation of the human form; includes anatomy lectures and work from the live model.

FAR 346 **SCULPTURE IN SIENA**

3, 0/6; 1991-93
Prerequisite: For art credit — FAR 240; For non-art credit — none. An upper-level course in sculpture taught in Siena, Italy. Students will work at the level of their experience and in the materials and techniques currently available in Siena.

FAR 400 **DRAWING IV**

3-6 (3 hrs./sem.) 0/6; 1991-93
Prerequisite: FAR 300. Advanced drawing with media and content based upon individual needs. Concentration on individually-selected areas of development in drawing; use of model; lecture and studio experiences included.

FAR 410 **SENIOR STUDIO IN PAINTING**

6, 0/12; 1991-93
Prerequisite: FAR 313. A six-credit-hour concentration of studio work by the senior major in painting; the student will plan and execute a series of problems and projects in consultation with major adviser. Note: B.F.A. painting majors only.

FAR 420 **SENIOR STUDIO IN PHOTOGRAPHY**

6, 0/12; 1991-93
Prerequisite: FAR 323. A six-credit-hour concentration of studio work by the senior major in photography; the student will plan and execute a series of problems and projects in consultation with major adviser. Note: B.F.A. photography majors only.

FAR 430 **SENIOR STUDIO IN PRINTMAKING**

6, 0/12; 1991-93
Prerequisite: FAR 333. A six-credit-hour concentration of studio work by the senior major in printmaking; the student will plan and execute a series of problems and projects in consultation with major adviser. Note: B.F.A. printmaking majors only.

FAR 440 **SENIOR STUDIO IN SCULPTURE**

6, 0/12; 1991-93
Prerequisite: FAR 343. A six-credit-hour concentration of studio work by the senior major in sculpture; the student will plan and execute a series of problems and projects in consultation with major adviser.

FAR 454 **GREEK ART**

3, 3/0; F 91 (E)
Prerequisite: FAR 250 and 251. A concentrated study of the architecture, painting, and sculpture of ancient Greece from Minoan and Mycenaean ages to the end of the Hellenistic period. Note: Required of art history majors.

FAR 455 **ETRUSCAN AND ROMAN ART**

3, 3/0; Sp 92 (E)
Prerequisite: FAR 250 and 251. A concentrated study of the architecture, painting, and sculpture of the Etruscan civilization and of the Roman Republic and Empire. Special emphasis will be given to Roman sculpture and architecture of the Republican and Imperial periods.

FAR 456 **EARLY MEDIEVAL ART**

3, 3/0; Sp 92 (E)
Prerequisite: FAR 250 and 251. A concentrated study of the art and architecture of western Europe in relation to the arts of the classical world and Byzantium from the 6th through the 11th centuries, emphasizing historical and religious meaning of art, architecture, manuscript illumination, and jeweled arts of the period. Illustrated lectures, extra class assignments.

FAR 457 **GOTHIC ART**

3, 3/0; Sp 91, 93 (E)
Prerequisite: FAR 250 and 251. A comprehensive study of architecture, sculpture, painting, and the decorative arts of the Gothic era from the rise of the new aesthetic, through its international development to its culmination, from Abbot Suger and the Abbey Church of St. Denis to the Henry VII Chapel at Westminster Abbey. Note: Required of art history majors.

FAR 458 **EARLY RENAISSANCE ART IN ITALY**

3, 3/0; F 91 (E)
Prerequisite: FAR 250 and 251 except in Siena. Survey of painting, sculpture, and architecture of 15th-century Italy. Special attention to Donatello, Brunelleschi, and Alberti. Consideration will be given to important earlier artists and movements as well as to the aesthetic implications of the rebirth of classical tradition in western civilization.

FAR 459 **HIGH RENAISSANCE AND MANNERISM**

3, 3/0; Sp 92 (E)
Prerequisite: FAR 250 and 251. Survey of Italian art and architecture in the 16th century. Special attention to Bramante, Leonardo, Raphael, and Michelangelo, and the emergence of Mannerism.

FAR 460 **NORTHERN RENAISSANCE ART**

3, 3/0; F 91 (E)
Prerequisite: FAR 250 and 251. A concentrated

study of the artistic production, including illuminated manuscripts, in the Netherlands, France, Germany, England, from the late 14th through the early 16th centuries.

FAR 461 **ITALIAN BAROQUE ART**

3, 3/0; F 92 (E)
Prerequisite: FAR 250 and 251. A concentrated study of the architecture, sculpture, and painting in Italy during the 17th and 18th centuries. Emphasis will be placed on key centers such as Rome, Venice, Turin, and Naples.

FAR 462 **NINETEENTH-CENTURY ART**

3, 3/0; F 91, 92 (E)
Prerequisite: FAR 250 and 251. A concentrated study of architecture from neo-classicism of the Adam Brothers to the skyscraper; painting from David to Cezanne in France, the Nazarenes and Pre-Raphaelites in Germany and England; sculpture from Houdon and Canova to Rodin, in relationship to the social, political, economic, and intellectual climate of the times.

FAR 463 **TWENTIETH-CENTURY ART**

3, 3/0; Sp 92, 93 (E)
Prerequisite: FAR 250 and 251. A study of the major trends and works of the twentieth century, with an emphasis on historical, artistic, judgmental, and cultural meanings as they reflect the twentieth century and past civilizations; includes painting, sculpture, architecture, and other areas.

FAR 465 **AMERICAN ART I**

3, 3/0; F 92 (E)
Prerequisite: FAR 250 and 251. A comprehensive study of architecture, painting, and sculpture in the United States from the 17th century to the Civil War. Emphasis will be given to colonial architecture, early Republican painting, and the Romantic movement.

FAR 467 **BAROQUE OF NORTHERN EUROPE**

3, 3/0; Sp 93 (E)
Prerequisite: FAR 250 and 251. A concentrated study of the architecture, sculpture, and painting in northern Europe during the 17th and 18th centuries. Major emphasis will be placed on developments in France, Holland, and Germany.

FAR 468 **ROMANESQUE ART**

3, 3/0; F 92 (E)
Prerequisite: FAR 250 and 251. A comprehensive study of architecture, sculpture, painting, and the decorative arts of Europe from the origins of a Romanesque style in the 11th century through its culmination in the late 12th century — from the era of the Bayeux Tapestry and the churches of the Pilgrimage Road to the age of Abbot Suger.

**FAR 470
SENIOR SEMINAR IN FINE ARTS**

3, 3/0; F 91, 92

Prerequisite: FAR 313, 323, 333, or 343. A final evaluative process regarded as a culminating experience in the program; discussions and lectures in major areas; theory and significance of selected problems; a critical analysis of the student's work resulting in the preparation of a professional portfolio. Note: B.F.A. majors only.

**FAR 472
MASTERWORKS OF ARCHITECTURE**

3, 3/0; Sp 91, 93

An introduction to masterworks of architecture for non-art majors, emphasizing architecture as a living organism. Buildings selected from various periods, cultures; styles from early civilization to the present day, including places of worship and interment, public and commercial structures, private residences.

**FAR 495
PROJECT****FAR 499
INDEPENDENT STUDY****FOREIGN
LANGUAGE****Foreign Language Requirement**

All students in B.A. degree programs must demonstrate proficiency in a single foreign language equivalent to the successful completion of the first two years of college-level study (101-202 level). Courses taken to satisfy the language requirement may be applied to the following sections of the B.A. degree audit sheet: Humanities (maximum of two courses), general education electives, all-college electives. Students who have successfully completed foreign language study on the high school level may register for the appropriate course or take a placement examination administered by the Foreign Language Department. Normally, one year of high school study is equivalent to one semester of college level work. Successful completion of one language through the fourth year in high school satisfies the requirement. Transfer students may apply language courses successfully completed at other institutions in fulfillment of the requirement. Foreign language courses currently numbered 201-202 shall carry upper-level credit, i.e., they may be applied toward fulfillment of the 45-credit upper-division requirement. For further information regarding placement or any aspect of the requirement, contact the Foreign Language Department, Bishop Hall 126, 878-5414.

Note: The four years of high school study which shall constitute fulfillment of the requirement

are to be verified by the appearance of level IV on the high school transcript.

Major programs (B.A.) are offered in French, Italian, and Spanish. There are secondary education programs (B.S.) in French and Spanish. Minors are offered in French, German, Italian, and Spanish. Polish and Russian courses may be applied to the East European Studies Minor.

Offered by the Foreign Language Department
DR. MICHAEL JOHNSON, Chairperson
Bishop Hall 126

**FLA 461
LANGUAGE TEACHING WORKSHOP**

3, 3/0

Prerequisite: Mastery of language to be taught and permission of instructor. A course in foreign language teaching at the college level; includes practice in techniques for teaching listening, speaking, reading, and writing skills. Student has responsibilities in small and/or large group instruction.

**FLA 462
LANGUAGE TEACHING WORKSHOP**

3, 3/0

Prerequisite: Mastery of language to be taught and permission of instructor. Continuation of FLA 461.

**FLA 495
PROJECT**

1-3 cr.; offered based on staff availability
Prerequisite: Permission of instructor.

**FLA 499
INDEPENDENT STUDY**

3 cr.; offered based on staff availability
Prerequisite: Permission of instructor.

See also:

Classics	Italian
Foreign Language	Latin
Education	Polish
French	Russian
German	Spanish
Greek	Swahili
Hebrew	

**Foreign Language
Education****FLE/SED 200
FIELD EXPERIENCE IN FOREIGN
LANGUAGE EDUCATION**

3, 6/0; F 91, 92

Prerequisite: Sophomore; completion of 302 in language of specialization; GPA of 2.5 or above in language of specialization or GOOD on MLA scale; proficiency in English (FS1-3); permission of FLE coordinator. Ninety clock hours in a middle, junior high, or senior high school in observation and participation of various types. Conducted by school and college staff.

**FLE/SED 405 (pending approval)
METHODS AND MATERIALS FOR
TEACHING FOREIGN LANGUAGES IN
THE SECONDARY SCHOOLS**

3, 3/0; F 91, 92

Prerequisite: Second semester junior; FLE/SED 200, EDF/SED 303, EDF/SED 403. Introduction to the elements of a foreign language curriculum. Selecting, organizing and presenting material; designing classroom activities; evaluating student progress; teacher-pupil relationships. Students in Foreign Language teacher certification programs should take this course immediately before FLE 407-408.

**FLE/SED 406 (pending approval)
TECHNIQUES FOR TEACHING AND
EVALUATING FOREIGN LANGUAGES IN
MIDDLE AND SECONDARY SCHOOLS**

3, 3/0; Sp 92, 93

Prerequisite: FLE/SED 405, Methods and Materials for Teaching Foreign Languages in Secondary Schools or permission of instructor. A continuation of FLE 405. Refinement of the student's skill in teaching and testing foreign languages, with special emphasis on applying a communicative syllabus to middle and secondary school language programs.

**FLE/SED 407 (pending approval)
PRACTICUM IN THE TEACHING OF
FOREIGN LANGUAGES IN MIDDLE/
JUNIOR HIGH SCHOOLS**

6, 0/30; 1991-93

Prerequisite: All required courses in language of specialization; grade of C or higher in FLE 405; EDU/SED 416; satisfactory completion of EXE 100; successful completion of Communication Skills and General Knowledge sections of NTE; permission of FLE coordinator. Teaching under supervision in a middle school or junior high school five days per week, with additional participation in school program. Evaluation by college and school personnel.

**FLE/SED 408 (pending approval)
PRACTICUM IN THE TEACHING OF
FOREIGN LANGUAGES IN
SECONDARY SCHOOLS**

6, 0/30; 1991-93

Prerequisite: All required courses in language of specialization; grade of C or higher in FLE 405; EDU/SED 416; satisfactory completion of EXE 100; successful completion of Communication Skills and General Knowledge sections of NTE; permission of FLE coordinator. Teaching under supervision in a senior high school five days per week, with additional participation in school program. Evaluation by college and school personnel.

Classics

See also: Greek, Latin

Offered by the Foreign Language Department
DR. MICHAEL JOHNSON, Chairperson
Bishop Hall 126

**FLA 200
LITERATURE, CIVILIZATION AND
INSANITY**

3, 3/0; Sp 93

A study of the relationship of literature, civilization, and insanity from the time of the ancient Greeks to the present.

**FLA 337
GREEK AND ROMAN MYTHOLOGY**

3, 3/0; F 91, 92 (E)

Prerequisite: A literature course at the college level or permission of instructor. The stories of the gods, goddesses, and heroes of Greece and Rome as presented in Greek and Roman literature, with emphasis upon determining the possible origins and meaning of the myths studied.

**FLA 338
INTRODUCTION TO CLASSICAL
GREEK DRAMA**

3, 3/0; Sp 92 (E)

Prerequisite: A literature course at the college level or permission of instructor. Study and discussion of selected ancient Greek plays in modern translations, with emphasis upon their uniqueness as cultural documents and their enduring quality as drama. Characteristics of Greek drama, the ancient theater, and theatrical conventions.

See also: Greek, Latin

French

Offered by the Foreign Language Department
DR. MICHAEL JOHNSON, Chairperson
Bishop Hall 126

**FRE 101
ELEMENTARY FRENCH**

3, 3/0; 1991-93 (H)

Fundamentals of French with emphasis on the spoken language.

**FRE 102
ELEMENTARY FRENCH**

3, 3/0; 1991-93 (H)

Prerequisite: FRE 101 or equivalent. Continuation of FRE 101.

**FRE 201
INTERMEDIATE FRENCH**

3, 3/0; 1991-93 (E, upper level credit)

Prerequisite: FRE 102 or equivalent. Further development of the basic skills with emphasis on reading and writing.

**FRE 202
INTERMEDIATE FRENCH**

3, 3/0; 1991-93 (E, upper level credit)

Prerequisite: FRE 201 or equivalent. Continuation of FRE 201.

**FRE 301
FRENCH CONVERSATION
AND COMPOSITION**

3, 3/0; 1991-93 (E)

Prerequisite: FRE 202 or equivalent. Practice in spoken and written French.

**FRE 302
FRENCH CONVERSATION
AND COMPOSITION**

3, 3/0; 1991-93 (E)

Prerequisite: FRE 301 or permission of instructor. Practice in spoken and written French.

**FRE 305
SPOKEN FRENCH**

3, 3/0; F 91, 92

Prerequisite: FRE 301 and FRE 302, or permission of instructor. Introduction to French phonetics and applied linguistics.

**FRE 306
THE CIVILIZATION OF FRANCE**

3, 3/0; Sp 92, 93 (E)

Prerequisite: FRE 301, or permission of instructor. Survey of French civilization, its economic, social, and cultural aspects based on a review of the history of France.

**FRE 307
SURVEY OF FRENCH LITERATURE**

3, 3/0; F 91, Sp 93

Prerequisite: FRE 301 or permission of instructor. The Middle Ages through the Renaissance.

**FRE 308
SURVEY OF FRENCH LITERATURE**

3, 3/0; Sp 92

Prerequisite: FRE 301 or permission of instructor. Classicism and the Enlightenment.

**FRE 309
SURVEY OF NINETEENTH AND
TWENTIETH-CENTURY FRENCH
LITERATURE**

3, 3/0; F 92

Prerequisite: FRE 301 or permission of instructor. Introduction to representative works from a variety of genres. From Romanticism to contemporary writing.

**FRE/ENG 331
FRENCH LITERATURE IN
TRANSLATION**

3, 3/0; Sp 92, 93 (E)

Prerequisite: A literature course at the college level or permission of instructor. Selected masterpieces of contemporary French literature in translation. Knowledge of French not required. *Open to French majors only upon approval of both the department chairperson and the course instructor.

**FRE 401
CLASSICAL FRENCH THEATER**

3, 3/0; F 92

Prerequisite: FRE 307-308 or permission of instructor. The French theater of the seventeenth century.

**FRE 403
NINETEENTH-CENTURY
FRENCH NOVEL**

3, 3/0; Sp 93

Prerequisite: FRE 307-308 or permission of instructor. A study and analysis of major works of the period.

**FRE 404
CONTEMPORARY FRENCH NOVEL**

3, 3/0; Sp 92

Prerequisite: FRE 307-308 or permission of instructor. A study and analysis of major works of the twentieth century.

**FRE 408
CONTEMPORARY FRENCH THEATER**

3, 3/0; F 91

Prerequisite: FRE 307-308 or permission of instructor. The French theater of the twentieth century.

**FRE 415
ADVANCED GRAMMAR
AND COMPOSITION**

3, 3/0; F 91, 92

Prerequisite: FRE 301-302. Systematic study of advanced topics of French grammar with work in French composition.

**FRE 416
ADVANCED CONVERSATION
AND COMPOSITION**

3, 3/0; Sp 92

Prerequisite: FRE 302 and 415, or permission of instructor. Advanced conversation dealing with contemporary French civilization and institutions. *Recommended for secondary education majors.

**FRE 417
BUSINESS FRENCH**

3, 3/0; Sp 93

Prerequisite: FRE 301-302. A study of areas of the French business world to develop competency in French commercial language. Practice in translating and writing business communiques.

**FRE 496
SENIOR SEMINAR I**

3, 3/0

Prerequisite: Permission of instructor. Topic to be chosen by the instructor.**FRE 497
SENIOR SEMINAR II**

3, 3/0

Prerequisite: Permission of instructor. Topic to be chosen by the instructor.**German**

Offered by the Foreign Language Department
DR. MICHAEL JOHNSON, Chairperson
Bishop Hall 126

**GER 101
ELEMENTARY GERMAN**

3, 3/0; F 91, 92 (H)

Fundamentals of German with emphasis upon speaking.

**GER 102
ELEMENTARY GERMAN**

3, 3/0; Sp 92, 93 (H)

Prerequisite: GER 101 or equivalent. Continuation of GER 101.**GER 201
INTERMEDIATE GERMAN**

3, 3/0; F 91, 92 (E, upper level credit)

Prerequisite: GER 102 or equivalent. Further development of the basic skills with emphasis upon reading, aural comprehension, and speaking.**GER 202
INTERMEDIATE GERMAN**

3, 3/0; Sp 92, 93 (E, upper level credit)

Prerequisite: GER 201 or equivalent. Continuation of GER 201.**GER 301
GERMAN CONVERSATION AND COMPOSITION**

3, 3/0; F 91, 92 (E)

Prerequisite: GER 202 or equivalent. Practice in written and spoken German with emphasis upon the spoken language.**GER 302
GERMAN CONVERSATION AND COMPOSITION**

3, 3/0; Sp 92, 93 (E)

Prerequisite: GER 202 or equivalent. Practice in spoken and written German with emphasis upon the written language.**GER 306
GERMAN CIVILIZATION**

3, 3/0; (E)

Prerequisite: GER 201-202. Study of the growth of German civilization, with emphasis on the artistic and intellectual contributions to the Western world.**GER 308
HISTORY OF GERMAN LITERATURE II**

3, 3/0; Sp 93

Prerequisite: GER 202 or permission of instructor. Reading of representative selections from the major authors of the Classical period and the nineteenth and twentieth centuries.**GER 401
TWENTIETH-CENTURY GERMAN LITERATURE**

3, 3/0

Prerequisite: GER 202 or permission of instructor. A study of the chief literary trends and the major authors of German literature in the twentieth century.**Greek**

Offered by the Foreign Language Department
DR. MICHAEL JOHNSON, Chairperson
Bishop Hall 126

**GRK 101
ELEMENTARY NEW TESTAMENT GREEK (KOINE)**

3, 3/0; F 91 (H)

Fundamentals of Koine Greek with emphasis upon reading.

**GRK 102
ELEMENTARY NEW TESTAMENT GREEK (KOINE)**

3, 3/0; Sp 92 (H)

Prerequisite: GRK 101 or equivalent. Continuation of GRK 101.**GRK 201
INTERMEDIATE NEW TESTAMENT GREEK (KOINE)**

3, 3/0; F 92 (E, upper level credit)

Prerequisite: GRK 102 or equivalent. Further development of reading and writing ability, with continuing emphasis on the comprehension of the written language.**GRK 202
INTERMEDIATE NEW TESTAMENT GREEK (KOINE)**

3, 3/0; Sp 93 (E, upper level credit)

Prerequisite: GRK 201 or equivalent. Continuation of GRK 201.

See also: Classics

**Hebrew
Language and Literature**

Offered by the Foreign Language Department
in cooperation with the Institute of Jewish
Studies, Bureau of Jewish Education of
Greater Buffalo, Inc.
DR. MICHAEL JOHNSON, Chairperson
Bishop Hall 126

**HEB 101
ELEMENTARY HEBREW I**

3, 3/0; (H)

Fundamentals of Hebrew with emphasis upon speaking and reading. No previous knowledge of Hebrew necessary. Oral-aural method.

**HEB 102
ELEMENTARY HEBREW II**

3, 3/0; (H)

Prerequisite: HEB 101 or equivalent. Continuation of HEB 101.**HEB 201
INTERMEDIATE HEBREW I**

3, 3/0; (E, upper level credit)

Prerequisite: HEB 102 or equivalent. Further development of the basic skills with emphasis upon reading and speaking. Oral-aural method.**HEB 202
INTERMEDIATE HEBREW II**

3, 3/0; (E, upper level credit)

Prerequisite: HEB 201. Continuation of HEB 201. Completion of Habet Ushma method.**HEB 301
HEBREW CONVERSATION AND COMPOSITION I**

3, 3/0

Prerequisite: HEB 202 or equivalent. Practice in spoken and written Hebrew with emphasis upon the spoken language.**HEB 302
HEBREW CONVERSATION AND COMPOSITION II**

3, 3/0

Prerequisite: HEB 301 or equivalent. Advanced course in spoken and written Hebrew with selections from modern Hebrew literature and publications.**HLI 102
INTRODUCTION TO HEBREW LITERATURE**

3, 3/0; (E)

Major trends in 2,000 years of Hebrew literary creativity, with emphasis on the modern period; examination of major authors and analysis of

their contributions to literary excellence, to Jewish thought, and to contemporary themes. Selections are studied in English translation.

**HLI 141
INTRODUCTION TO THE TALMUD**

3, 3/0

Introduction to the Talmud, the nature, structure, and development of the Talmudic literature. Representative selections on a variety of subject matters, both legal and narrative, analyzing the Talmudic method of interpreting the Bible.

**HLI 201
THE PENTATEUCH (WITH COMMENTARIES)**

3, 3/0

Prerequisite: HLI 101 or permission of instructor. An introduction to the Five Books of Moses (Torah) based upon the most important selections of narrative, legislative, and religious (mythological) content, using modern and traditional commentaries.**HLI 202
THE PROPHETIC BOOKS OF THE HEBREW BIBLE**

3, 3/0

Prerequisite: HLI 101 or permission of instructor. Prophecy in ancient Israel; the development of prophecy in the context of relevant historical data; the interpretation of representative texts with the help of commentaries and historical documents.**Italian**

Offered by the Foreign Language Department
DR. MICHAEL JOHNSON, Chairperson
Bishop Hall 126

**ITA 101
ELEMENTARY ITALIAN**

3, 3/0; 1991-93 (H)

Fundamentals of Italian with emphasis on listening and speaking skills.

**ITA 102
ELEMENTARY ITALIAN**

3, 3/0; 1991-93 (H)

Prerequisite: ITA 101 or equivalent. Continuation of ITA 101.**ITA 201
INTERMEDIATE ITALIAN**

3, 3/0; 1991-93 (E, upper level credit)

Prerequisite: ITA 102 or equivalent. Further development of the basic skills with emphasis on reading and writing.**ITA 202
INTERMEDIATE ITALIAN**

3, 3/0; 1991-93 (E, upper level credit)

Prerequisite: ITA 201 or equivalent. Continuation of ITA 201.**ITA 301
ITALIAN CONVERSATION AND COMPOSITION**

3, 3/0; 1991-93 (E)

Prerequisite: ITA 202 or equivalent. Practice in written and spoken Italian.**ITA 302
ITALIAN CONVERSATION AND COMPOSITION**

3, 3/0; 1991-93 (E)

Prerequisite: ITA 202 or equivalent. Practice in written and spoken Italian.**ITA 306
CONTEMPORARY ITALIAN CIVILIZATION**

3, 3/0; F 92 (E)

Prerequisite: None, if offered in English; if offered in Italian, the prerequisite is ITA 202 or equivalent. An examination of cultural, intellectual, and social developments in Italy past and present. To be offered in English or Italian as noted in master schedule. When offered in English, this course may not be applied to the ITA minor.**ITA 307
SURVEY OF ITALIAN LITERATURE**

3, 3/0; F 91

Prerequisite: ITA 202 or equivalent. Readings and discussion of major works from the origins through the Cinquecento.**ITA 308
SURVEY OF ITALIAN LITERATURE**

3, 3/0; Sp 92

Prerequisite: ITA 202 or equivalent. Readings and discussion of major works from the Seicento through the Ottocento.**ITA 401
DANTE'S DIVINA COMMEDIA**

3, 3/0; F 91

Prerequisite: An upper-division Italian course or permission of instructor. Study of selected cantos as an introduction to Dante's work and times.**ITA 406
NINETEENTH-CENTURY ITALIAN LITERATURE**

3, 3/0; F 92

Prerequisite: An upper-division Italian course or permission of instructor. Readings and discussions of representative works of poetry and novels.**ITA 410
MODERN ITALIAN LITERATURE**

3, 3/0; Sp 93

Prerequisite: An upper-division Italian course or permission of instructor. Readings and discussions of representative novels and short stories of the twentieth century.

**ITA 450
DIRECTED READINGS I**

3, 3/0; Sp 92

Prerequisite: Permission of instructor. Variable topics.**ITA 451
DIRECTED READINGS II**

3, 3/0; Sp 93

Prerequisite: Permission of instructor. Variable topics.**Latin**

Offered by the Foreign Language Department
DR. MICHAEL JOHNSON, Chairperson
Bishop Hall 126

**LAT 101
ELEMENTARY LATIN**

3, 3/0; F 91, 92 (H)

Fundamentals of the Latin language with emphasis upon reading.

**LAT 102
ELEMENTARY LATIN**

3, 3/0; Sp 92, 93 (H)

Prerequisite: LAT 101 or equivalent. Continuation of LAT 101.**LAT 201
INTERMEDIATE LATIN**

3, 3/0; F 92 (E, upper level credit)

Prerequisite: LAT 102 or equivalent. Further development of reading and writing ability, with continuing emphasis on the comprehension of the written language.**LAT 202
INTERMEDIATE LATIN**

3, 3/0; Sp 93 (E, upper level credit)

Prerequisite: LAT 201 or equivalent. Continuation of LAT 201.

See also: Classics

Polish

Offered by the Foreign Language Department
DR. MICHAEL JOHNSON, Chairperson
Bishop Hall 126

**POL 101
ELEMENTARY POLISH**

3, 3/0; F 91, 92 (H)
Fundamentals of Polish; speaking, reading, and writing.

**POL 102
ELEMENTARY POLISH**

3, 3/0; Sp 92, 93 (H)
Prerequisite: POL 101 or equivalent. Continuation of POL 101.

**POL 201
INTERMEDIATE POLISH**

3, 3/0; F 91, 92 (E, upper level credit)
Prerequisite: POL 102 or equivalent. Further development of the basic skills with emphasis on reading and writing.

**POL 202
INTERMEDIATE POLISH**

3, 3/0; Sp 92, 93 (E, upper level credit)
Prerequisite: POL 201 or equivalent. Continuation of POL 201.

**POL 339 (ENG 339)
MODERN POLISH LITERATURE
IN TRANSLATION**

3, 3/0
Prerequisite: A literature course at the college level or permission of instructor. Selected masterpieces of Polish literature and culture from 1863 to the present; novels, short stories, drama and poetry. Knowledge of Polish not required.

Russian

Offered by the Foreign Language Department
DR. MICHAEL JOHNSON, Chairperson
Bishop Hall 126

**RUS 101
ELEMENTARY RUSSIAN**

3, 3/0; F 91, 92 (H)
Fundamentals of Russian: reading, speaking, and writing.

**RUS 102
ELEMENTARY RUSSIAN**

3, 3/0; Sp 92, 93 (H)
Prerequisite: RUS 101 or equivalent. Continuation of RUS 101.

**RUS 201
INTERMEDIATE RUSSIAN**

3, 3/0; F 91, 92 (E, upper level credit)
Prerequisite: RUS 102 or equivalent. Further development of the basic skills with emphasis upon reading and writing.

**RUS 202
INTERMEDIATE RUSSIAN**

3, 3/0; Sp 92, 93 (E, upper level credit)
Prerequisite: RUS 201 or equivalent. Continuation of RUS 201.

Spanish

Offered by the Foreign Language Department
DR. MICHAEL JOHNSON, Chairperson
Bishop Hall 126

**SPA 101
ELEMENTARY SPANISH**

3, 3/0; 1991-93 (H)
Fundamentals of Spanish with emphasis on speaking and listening skills.

**SPA 102
ELEMENTARY SPANISH**

3, 3/0; 1991-93 (H)
Prerequisite: SPA 101 or equivalent. Continuation of SPA 101.

**SPA 201
INTERMEDIATE SPANISH**

3, 3/0; 1991-93 (E, upper level credit)
Prerequisite: SPA 102 or equivalent. Further development of basic skills with increasing emphasis on reading and writing.

**SPA 202
INTERMEDIATE SPANISH**

3, 3/0; 1991-93 (E, upper level credit)
Prerequisite: SPA 201 or equivalent. Continuation of SPA 201.

**SPA 204
SPANISH FOR NATIVE SPEAKERS**

3, 3/0; F 91, 92 (E)
Prerequisite: Spanish for Spanish Speakers exam; contact E. Rosario, EOP, Ext. 4426 or 6029, or J. Martinez-Tolentino, Foreign Language Department, Ext. 5414. An overview of the Spanish language and a study of Spanish grammar, lexicon, and sound system that will enhance bilingual students' effectiveness in oral and written communication in Spanish, especially in academic and formal style. Emphasis placed on spelling, sound system, mechanics, vocabulary, and reading. Student may not earn credit for both SPA 201 and SPA 204.

**SPA 205
SPANISH FOR NATIVE SPEAKERS**

3, 3/0; Sp 92, 93 (E)
Prerequisite: Spanish for Spanish Speakers exam; contact E. Rosario, EOP, Ext. 4426 or 6029, or J. Martinez-Tolentino, Foreign Language Department, Ext. 5414. An overview of the Spanish language and a study of Spanish grammar, lexicon, and sound system that will enhance bilingual students' effectiveness in oral

and written communication in Spanish, especially in academic and formal style. Emphasis placed on oral expression, grammar, and composition, and differences between formal and informal language. Student may not earn credit for both SPA 202 and SPA 205.

**SPA 301
SPANISH CONVERSATION AND
COMPOSITION**

3, 3/0; 1991-93 (E)
Prerequisite: SPA 202 or equivalent. Practice in spoken and written Spanish with emphasis on the written language.

**SPA 302
SPANISH CONVERSATION AND
COMPOSITION**

3, 3/0; 1991-93 (E)
Prerequisite: SPA 202 or equivalent. Practice in spoken and written Spanish with emphasis on the spoken language.

**SPA 305
SPANISH PHONETICS**

3, 3/0; F 91, 92
Prerequisite: SPA 301-302 or equivalent. An analysis of the speech sounds of Spanish. A consideration of comprehension and pronunciation difficulties caused by differences in the sound systems of English and Spanish. Exercises aimed at improvement of pronunciation and intonation.

**SPA 306
THE CIVILIZATION OF SPAIN**

3, 3/0; F 92 (E)
Prerequisite: SPA 301 or 302 or permission of instructor. A consideration of the culture of the Spanish people. A focus on their achievements, customs, and way of life as affected by geographic, historical, political, and economic factors.

**SPA 307
SURVEY OF SPANISH LITERATURE**

3, 3/0; F 92
Prerequisite: SPA 301 or 302 or permission of instructor. The Middle Ages through the Golden Age.

**SPA 308
SURVEY OF SPANISH LITERATURE**

3, 3/0; Sp 93
Prerequisite: SPA 301 or 302 or permission of instructor. The eighteenth century to the present.

**SPA 309
THE CIVILIZATION OF LATIN
AMERICA**

3, 3/0; F 91 (E)
Prerequisite: SPA 301 or 302 or permission of instructor. A consideration of the culture of the Latin American people. A focus on their achievements, customs, and way of life as affected by geographic, historical, political, and economic factors.

**SPA 310
SURVEY OF SPANISH-AMERICAN
LITERATURE**

3, 3/0; F 91
Prerequisite: SPA 301 or 302 or permission of instructor. The Colonial period through Romanticism.

**SPA 311
SURVEY OF SPANISH-AMERICAN
LITERATURE**

3, 3/0; Sp 92
Prerequisite: SPA 301 or 302 or permission of instructor. Realism to the present.

**SPA 317
BUSINESS SPANISH**

3, 3/0; F 91
Prerequisite: SPA 301 or 302 or equivalent. An introduction to Spanish commercial language. Extensive practice in translating and composing Spanish business communiques.

**SPA 408
20th-CENTURY SPANISH LITERATURE:
POETRY AND THEATER**

3, 3/0; Sp 92
Prerequisite: SPA 308 or permission of instructor. A study in the appreciation, analysis, and criticism of the major trends in the development of Spanish poetry and theater of the twentieth century.

**SPA 411
SPANISH-AMERICAN LITERATURE OF
THE 19th AND 20th CENTURIES: NOVEL,
SHORT STORY AND ESSAY**

3, 3/0; F 92
Prerequisite: SPA 310, 311, or permission of instructor. Study of the major trends in these genres in the context of the cultural diversity of the hemisphere.

**SPA 415
ADVANCED GRAMMAR AND
COMPOSITION**

3, 3/0; Sp 92, 93
Prerequisite: SPA 301-302 or permission of instructor. Elements of stylistics and selected grammar topics. Special attention given to common errors of English speakers.

**SPA 496
SENIOR SEMINAR I**

3, 3/0; F 91, 92
Prerequisite: Permission of instructor. Topic to be chosen by the instructor.

**SPA 497
SENIOR SEMINAR II**

3, 3/0; Sp 93
Prerequisite: Permission of instructor. Topic to be chosen by the instructor.

Swahili

Offered by the Foreign Language Department
DR. MICHAEL JOHNSON, Chairperson
Bishop Hall 126

**SWA/AAS 101
ELEMENTARY SWAHILI**

3, 3/0; F 91, 92 (H)
A study of the fundamentals of Swahili with emphasis on the spoken language.

**SWA/AAS 102
ELEMENTARY SWAHILI**

3, 3/0; Sp 92, 93 (H)
Prerequisite: SWA 101 (AAS 101) or permission of instructor. Continuation of SWA 101 (AAS 101), with emphasis on writing and reading.

**SWA/AAS 201
INTERMEDIATE SWAHILI**

3, 3/0; F 91, 92 (E, upper level credit)
Prerequisite: SWA 102 (AAS 102), or permission of instructor. Further development of the basic skills, with emphasis on reading, writing, and casual conversation.

**SWA/AAS 202
INTERMEDIATE SWAHILI**

3, 3/0; Sp 92, 93 (E, upper level credit)
Prerequisite: SWA 201 (AAS 201) or permission of instructor. Continuation of SWA 201 (AAS 201), with emphasis on casual and formal speaking as well as fast translation.

General Studies**AEL 100W
ASSESSMENT OF EXPERIENTIAL
LEARNING**

3, 3/0; F 92, 93
Designed for students who consider their previous learning experiences as college level credit. Students will analyze those experiences which may qualify for college credit and prepare a portfolio to inventory college level learning gained through experience outside of college.

Geography

Offered by the Geography and Planning Department
ELBRIDGE A. RENNING JR., Chairperson
Classroom Building A 213

**GEG 101
MAN'S NATURAL ENVIRONMENT**

3, 3/0; 1991-93 (S)
Nature of geography; earth-sun relationship; maps and map interpretation; and classification, distribution, and origins of the major elements of the natural environment: weather, climates, soils, natural vegetation, and landforms.
*Required of Geography majors.

**GEG 102
MAN'S CULTURAL ENVIRONMENT**

3, 3/0; 1991-93 (S)
Introduction to cultural geography and the cultural landscape. An examination of the distribution of value systems, ethnicity, religion, language, population, and politics as indices of human variety; an introduction to evolution of rural and urban socioeconomic patterns.
*Required of all Geography majors.

**GEG 107
RESOURCES AND MAN**

3, 3/0; 1991-93 (S)
A geographical analysis of man's use and misuse of natural resources; air, water, soils, vegetation, animal life, minerals, and energy sources. Problems are placed in a world context but emphasis is on the United States.

**GEG 199/SST 199
COMPUTER IN SOCIAL SCIENCE**

3, 3/0; F 91, 92
See description listed under SST 199.

**GEG 200
INTRODUCTION TO
REGIONAL GEOGRAPHY**

3, 3/0; Sp 92 (S)
An introduction to the geographic analysis of selected world regions. Emphasis is placed upon providing the student with an understanding of the regions' major natural environmental features (terrain, climate, natural vegetation, and soils) as well as how these features relate to and influence man's occupancy of each region.

**GEG 202
GEOGRAPHY OF THE UNITED STATES
AND CANADA**

3, 3/0; F 91, 92 (E)
Analysis of the basic geographic elements of North America including the natural environment, natural resources, economic activities, population, and urbanization.

**GEG 203
GEOGRAPHY OF MIDDLE AMERICA**

3, 3/0; Sp 93 (S)
Physical, cultural, historical and regional geography of Mexico, Central America, and the West Indies; emphasis on man's relationship to the natural environment.

**GEG 205
GEOGRAPHY OF ASIA**

3, 3/0; Sp 93 (S)
Excludes the Soviet Union. Regional divisions; landform, climate, and natural resources; cultural and economic geography; social and political problems related to the natural environment; industrial development. *Open to sophomores, juniors, and seniors.

**GEG 206
GEOGRAPHY OF NEW YORK STATE**

3, 3/0; 1991-93 (S)
Landforms, regions, climates, and natural resources; distribution of population; location and functions of the cities; development of transportation; utilization and conservation of soil, mineral, forest, wildlife, and water resources; industrial development.

**GEG 303
WORLD CLIMATOLOGY**

3, 3/0; Sp 93
Prerequisite: GEG 101. Discussion of world climatic regions. Fundamentals of climate classification systems. Classification, distribution, and comparative analysis of world climatic regions. *Required of Track 1 (physical geography/conservation) geography majors.

**GEG 304
MAP INTERPRETATION**

3, 3/0; F 91, 92 (E)
History of maps; types of maps; techniques of map interpretation; methods of developing map-reading skills.

**GEG 305
PRINCIPLES OF ECONOMIC
GEOGRAPHY**

3, 3/0; Sp 92, 93 (E)
Prerequisite: Junior or senior and ECO 202. An introduction to the theoretical study of economic geography; utilizing the approach of location theory, the course develops a theoretical spatial distribution of economic activities, including: agriculture, manufacturing, urban land use, services, and transportation. *Required of urban-regional analysis and planning majors and of Track 3 (urban/economic) geographic majors.

**GEG 307
CONSERVATION AND
ENVIRONMENTAL MANAGEMENT**

3, 3/0; Sp 92, 93 (S)
Discussion of natural, human, and cultural resources; concepts and philosophy of conservation; problems and strategies in environmental management and resources considered. *Required of Track 1 (physical geography/conservation) majors.

**GEG 309
INTRODUCTION TO URBAN
GEOGRAPHY**

3, 3/0; 1991-93 (S)
Spatial arrangement of land uses existing within

the American city; differences of American cities of function, size and location; dynamics of change in city structures; central place theory and urban structures. *Required for urban regional analysis and economic geography majors and Track 3 (urban/economic) geography majors.

**GEG 310
GEOGRAPHY OF TRANSPORTATION**

3, 3/0; Sp 93
Geography of transportation introduces the comparative study of the modes of transportation, transportation planning and the benefits and effects of transportation, with special emphasis on application to urban transportation. It will study the importance of accessibility as a factor in the development of a modern metropolitan transportation system.

**GEG 313
AIR PHOTO INTERPRETATION**

3, 3/0; F 91
Prerequisite: One of GEG 101, 102, GES 101 or PLN 315. Techniques of aerial photography interpretation as applied to natural and man-made environments; technical aspects of obtaining and using aerial photographs and remote sensing.

**GEG 320
HISTORICAL GEOGRAPHY OF THE
UNITED STATES**

3, 3/0; Sp 92 (E)
The approach and methods of historical geography; exploration and discovery; regional variation of cultural landscapes; origin and dispersals of selected cultural traits. *Required of Track 2 (historical cultural) geography majors.

**GEG 322
GEOGRAPHY OF WORLD HUNGER**

3, 3/0; 1991-93 (E)
The dimensions of world hunger; a geographical analysis of factors contributing to world hunger: population growth, destruction of the natural environment, limited amount of arable land, natural disasters, political-social-economic conflicts, distribution problems, etc.; steps taken to alleviate world hunger; and a geographical examination of the world's major hunger areas.

**GEG 330
LAND RESOURCE ANALYSIS &
PLANNING**

3, 3/0; F 92
Prerequisite: PLN 315; junior or senior. Analysis of the principles of land resource management with emphasis upon land use patterns, controls and policy. Attention is given to urban, suburban and rural land use situations. Required of urban-regional analysis and planning majors.

**GEG 350
COMPARATIVE CANADIAN-U.S.
METROPOLITAN SYSTEMS**

3, 3/0; Sp 92 (E)
Prerequisite: Junior or senior. Contrasts between

the spatial structure and functions of Canadian and U.S. cities, and the reasons why; historical processes, ethnic and housing patterns, retail structure, transportation, metropolitanization and metropolitan government, and planning processes. Buffalo will be compared with Toronto and Kitchener-Waterloo, Ontario. Field trips to these areas will constitute an integral part of the course.

**GEG 351
GEOGRAPHY OF AFRICA**

3, 3/0; Sp 92 (S)
Prerequisite: Junior or senior. An introduction to the geography of Africa through a systematic discussion of selected prominent environmental and cultural characteristics of the continent and its people. Topics include the physical environment, historical development, population, and economic activities.

**GEG 352
GEOGRAPHY OF EUROPE**

3, 3/0; F 92 (S)
Excludes the Soviet Union. Physiographic regions, landforms, climate, natural vegetation, soils, and drainage patterns; major economies and their relationships to the natural environment; interdependence of regions.

**GEG 353
GEOGRAPHY OF THE SOVIET UNION**

3, 3/0; F 91 (S)
Physiographic regions; landforms, climate, natural vegetation, soils, and drainage patterns; major economies and their relationship to the natural environment; problems resulting from changes in land use; interdependence of regions.

**GEG 356
FIELD STUDIES IN BUFFALO AND
WESTERN NEW YORK**

3, 3/0; summers only
Through lectures and walking tours, students gain firsthand exposure to geographic field work and analysis. Emphasis on impact of past landscapes on present land and relationship between economic, social and physical aspects of place.

**GEG 357
GEOGRAPHY OF BUFFALO AND THE
NIAGARA FRONTIER**

3, 3/0; F 91 (E)
Explores the people, problems, and interesting places of Buffalo and the Niagara Frontier. Emphasis on qualities of physical site and cultural situation. Studies the relationship of the urban Niagara Frontier with nearby urban areas in North America. A field trip experience is an integral part of the course.

**GEG 370
PRINCIPLES OF WATER RESOURCE
PLANNING**

3, 3/0; F 91 (E)
Prerequisite: Sophomore, junior or senior standing. An introduction to water resource planning in the United States. Emphasizes project man-

agement and planning processes utilized by federal water resources agencies. A field trip and group project are required.

**GEG 375
PRINCIPLES OF HYDROLOGY**

3, 3/0; F 92
Prerequisite: GEG 370 or permission of instructor. A course on the principles in hydrology and its relationship with water resources management. Emphasis is placed on describing the processes governing surface and groundwater movement. A field trip will provide an example of the practical application of hydrologic principles.

**GEG 401
DEVELOPMENT OF GEOGRAPHIC
THOUGHT**

3, 3/0; offered based on staff availability
Seminar on the development of geographic thought and methodology from the ancient Greeks to modern times. Discusses the evolution of schools of thought among the Greeks, Romans, Medieval Europeans, Arabs, and Moslems. *Required of Geography majors.

**GEG 405
ADVANCED URBAN GEOGRAPHY**

3, 3/0; offered based on staff availability
Prerequisite: GEG 309. Growth of cities in a national system; relationships between cities; regional growth within the national system; central place theory and urban hierarchies; role of urban geography in urban planning; and the role of planning on a regional scale.

**GEG 409
GEOGRAPHY OF MANUFACTURING**

3, 3/0; offered based on staff availability
Prerequisite: GEG 305 or ECO 202. An analysis of geography of manufacturing, principally in the United States, emphasizing the industrial location process. Attention given to measurement in manufacturing geography, the industrial location process, principle factors affecting the location of manufacturing and local industrial/economic development.

**GEG/ECO 411
REGIONAL AND ECONOMIC ANALYSIS**

3, 3/0; offered based on staff availability
See description listed under ECO 411.

**GEG 413
CARTOGRAPHY**

3, 3/0; F 92
Drafting set and tools required.
Prerequisite: GEG 101. History of cartography, use of drafting materials; the study and construction of map projections and cartograms; principles of map reproduction. *Required of geography majors.

**GEG 415
PROSEMINAR**

3, 3/0; offered based on staff availability
Prerequisite: Permission of instructor. One

seminar, appropriate to the major's track, is required of Track 1 (physical geography/conservation) geography majors. Investigation, examination, and discussion of topics of current interest in geography. Techniques and analysis of geographic research.

**GEG 420/ECO 420
ECONOMIC EVALUATION OF WATER
RESOURCES**

3, 3/0; Sp 92
Prerequisite: PLN 315 and ECO 202. An examination of the process, procedures and regulations affecting the evaluation of water resources projects as practiced by water resource planning and development agencies of the U.S. government. Emphasis will be placed upon the benefit-cost methodology.

**GEG 425
COMPUTER MAPPING AND
GEOGRAPHIC INFORMATION SYSTEMS**

3, 3/0; Sp 92, 93
Prerequisite: GEG 199 or equivalent. An examination of the uses of computer mapping and geographic information systems (GIS) in geography, planning and related fields; preparation and presentation of studies for mainframe and personal computer systems; the creation and application of GIS. A project will be an integral part of this course.

**GEG 495
PROJECT****GEG 499
INDEPENDENT STUDY**

Health, Physical Education, and Recreation

Offered by the Health, Physical Education and Recreation Department
DR. DONALD E. BARR, Chairperson
Houston Gym 205

Also see Recreation listings.

**PHYSICAL EDUCATION
HPR 100 Series**

The college currently requires completion of two semester hours of either HPR 100 level courses or HPR 200. Each 100 level course (1) meets the equivalent of two hours per week for one-hour credit; (2) includes instruction in theoretical aspects; (3) involves written and skill evaluations; (4) is offered generally every semester except for II levels.

Those courses designated with "I" are for students with limited previous experience. Those designated "II" require previous experience in

the form of a semester course or permission of instructor.

When HPR 200 (2 credits) is used to fulfill the physical education requirement, only this one course is needed.

Health science and other HPR 200, 300, and 400 level courses do not satisfy the above physical education requirement.

Students may elect up to four additional courses for graduation credit.

HPR 100 Special Project

Limited selection for certain movement, exercise, and sport experiences not included in the HPR 100 level offerings. Necessary form must be completed and chairperson's approval must be secured. Forms are available in the HPER office.

Individual Activities

- 100 Special Project
- 101 Individual Physical Education
- 102 Archery
- 106 Bowling
- 110 Golf
- 114 Jogging
- 118 Self Defense I
- 119 Self Defense II
- 122 Skiing Conditioning (Fee)
- 124 Skiing I (slopes) (Fee)
- 125 Skiing II (slopes) (Fee)
- 128 Cross-Country Skiing (Fee)
- 129 Advanced Cross-Country Skiing
- 175 Stunts and Tumbling
- 176 Gymnastics (stunts-apparatus)
- 180 Physical Fitness for Women
- 198 Strength Fitness

Dual/Team Sports

- 136 Badminton I
- 137 Badminton II
- 140 Fencing I
- 141 Fencing II
- 144 Tennis
- 148 Volleyball I
- 149 Volleyball II
- 178 Field Hockey
- 182 Racquetball (women)
- 192 Fencing - Sabre & Epée
- 194 Handball
- 196 Racquetball (men)

Aquatics

- 151 Swimming — Nonswimmers
- 152 Swimming — Beginners
- 153 Swimming — Intermediate
- 154 Fitness Through Swimming
- 155 Basic and Emergency Water Safety
- 156 Basic SCUBA Diving (Fee)
Prerequisite: see instructor
- 157 Assistant SCUBA Instructor (Fee)
Prerequisite: see instructor
- 158 Lifeguarding
Prerequisite: see instructor
- 190 Aquatic Sports

Dance

- 160 Aerobic Movement
- 162 Social Dance
- 164 Folk Dance I
- 165 Folk Dance II

- 166 Jazz Dance I
167 Jazz Dance II
168 Tap Dance
170 Modern Dance I
171 Modern Dance II

HPR 200 FITNESS FOR LIVING

2, 2/0

A series of lecture/discussion sessions, laboratory experiences and specific movement experiences presenting the HOW, WHAT and WHY of physical activity and exercise. Fulfills the two-credit physical education requirement.

A course may not be repeated for credit. Students may challenge HPR 102, 106, 155 by applying to HPER Department by the second week of the semester, and following the assigned reading, knowledge test, and performance test procedure as scheduled.

ELECTIVE & PROFESSIONAL

A minor in coaching is offered. See the required programs in the section on minors.

The pattern of courses to meet the coaching requirement, approved by the State Education Department, includes HPR 300, 301, 335, or HSC 310, plus one more of the HPR 201-209 Techniques and Theories (of Sports) courses.

The department expects to enroll freshmen in a proposed B.S. program in health/wellness in the fall 1991 semester. Contact the department office for details.

HPR 201 TECHNIQUES AND THEORIES OF COACHING SPECIALTY SPORTS

3, 3/0; offered based on staff availability

A combination of a lecture/discussion analysis of athletic coaching, and a supervised independent study of the requirements for coaching an approved specialty sport.

HPR 202 TECHNIQUES AND THEORIES OF SOCCER

3, 3/0; offered based on staff availability

A complete analysis of the sport of soccer with particular emphasis on history, present status, rules, techniques, and theories.

HPR 203 TECHNIQUES AND THEORIES OF FOOTBALL

3, 3/0; offered based on staff availability

A complete analysis of the sport of football with particular emphasis on history, present status, rules, techniques, and theories.

HPR 204 TECHNIQUES AND THEORIES OF TRACK AND FIELD

3, 3/0; offered based on staff availability

A complete analysis of the sport of track and field with particular emphasis on history, present status, rules, techniques, and theories.

HPR 207 TECHNIQUES AND THEORIES OF BASEBALL/SOFTBALL

3, 3/0; offered based on staff availability

A complete analysis of the sport of baseball with particular emphasis on history, present status, rules, techniques, and theories.

HPR 208 TECHNIQUES AND THEORIES OF SWIMMING

3, 3/0; offered based on staff availability

A complete analysis of the sport of swimming with particular emphasis on history, present status, rules, techniques, and theories.

HPR 209 TECHNIQUES AND THEORIES OF BASKETBALL

3, 3/0; Sp 92, 93

A complete analysis of the sport of basketball with particular emphasis on history, present status, rules, techniques, and theories.

HPR 210 WATER SAFETY INSTRUCTION

3, 3/0 (2 cl. in pool); Sp 92, 93

Prerequisite: HPR 155 or current lifeguarding card. A course in the knowledge and techniques of aquatic instruction, principles of site selection, class organization, teaching progressions, drill, and skill instruction. Successful completion would lead to certification by the American Red Cross in water safety instruction. *Students may challenge HPR 210 by applying to HPER Department by the announced date each semester, and following the assigned reading and knowledge test procedure as scheduled.

HPR 250 INTRODUCTION TO HUMAN MOVEMENT

3, 3/0; offered based on staff availability (S)

Critical orientation to the discipline of physical education, philosophical and historical perspectives; psychological, sociological, physiological foundations.

HPR 300 ATHLETICS IN EDUCATION

3, 3/0; Sp 92, 93 (S)

Prerequisite: Sophomore. A study of the philosophy and principles of athletics in education. A required course for students choosing either to meet minimal state standards for the coaching requirement or to concentrate in a selected area of coaching.

HPR 301 FUNDAMENTALS OF KINESIOLOGY

3, 3/0; F 91, 92

Prerequisite: Sophomore. Study of selected anatomical, physiological, and mechanical principles of movement and their application to human motion. *Required for the coaching requirement.

HPR 302 EXERCISE PRINCIPLES AND TECHNIQUES

3, 3/0; offered based on staff availability

Prerequisite: HSC 204, BIO 311, BIO 312, NFS 335. Practical application of knowledge gained through general anatomy, physiology, and biomechanics. Covers principles and techniques related to fitness, metabolism and weight control, exercise, and training.

HPR 303 PLANNING, MANAGEMENT AND EVALUATION OF HEALTH/WEALTH FACILITIES

3, 3/0; offered based on staff availability

Prerequisite: Junior standing. A course in the recent trends in construction, evaluation, and maintenance of health related facilities, such as gymnasias, swimming pools, outdoor play areas, weight training rooms, testing labs, etc. The criteria for selection and supervision of staff as well as necessary equipment purchase/maintenance, plus the legal aspects of health related facilities will be studied.

HPR 305 MOTOR DEVELOPMENT

3, 3/0; offered based on staff availability

A study of the development basis of physical activity.

HPR 307 EXERCISE FITNESS AND NUTRITION

3, 3/0; offered based on staff availability

Prerequisite: HPR 302. This course will integrate basic concepts of relevant up-to-date scientific information related to the physiology of exercise. Exercise performance is related to one's capacity to generate energy, this capacity is related to food nutrients consumed in the diet and the metabolic and physiologic system of energy delivery and energy utilization.

HPR 311 GAMES FOR SCHOOL AND PLAYGROUND

3, 3/0; offered based on staff availability

Participation in, analysis and recording of, a variety and progression of games, skill activities and sports lead-ups suitable for "play" situation in the home, school, and community setting.

HPR 312 CREATIVE AND TRADITIONAL DANCE FOR CHILDREN

2, 2/0; offered based on staff availability

Prerequisite: Sophomore standing or HPR 250. Participation in the exploratory study of creative and traditional dance for children.

HPR 315 AQUATICS FOR THE EXCEPTIONAL CHILD

2, 2/0; offered based on staff availability

Prerequisite: Intermediate or higher swim level. Lecture and laboratory experience in adapting

the skill and teaching methods of swimming for the exceptional child. American Red Cross certification is possible.

HPR 316 DEVELOPMENTAL MOTOR ACTIVITIES FOR EARLY CHILDHOOD

3, 3/0; offered based on staff availability (E)

Prerequisite: PSY 101 or EDU 210. The exploratory study of developmental motor activities and materials for early childhood.

HPR 319/SOC 324 SOCIOLOGY OF SPORT

3, 3/0; Sp 92, 93 (E)

Prerequisite: SOC 100. The study of sport and related social phenomena of social statures, norms, goals, values, and organizational network.

HPR 325 PHYSICAL EDUCATION FOR CHILDREN

3, 4/0; offered based on staff availability

Prerequisite: Upperclass. Lecture and laboratory experiences stressing development of the child through physical education activities.

HPR 330 PHYSICAL EDUCATION AND RECREATION FOR THE EXCEPTIONAL CHILD

3, 3/0; offered based on staff availability

Prerequisite: EXE 300 or upperclass. Lecture and laboratory experiences in adapting the skills and teaching methods of physical education and recreation for the exceptional child.

HPR 335 PREVENTION AND CARE OF ATHLETIC INJURIES

3, 3/0; offered based on staff availability

Prerequisite: HPR 301 or permission of instructor. The study of the relationship between conditioning, performance and injury prevention. Includes techniques and programs of body conditioning for specific sports, as well as the possible treatment of athletic injuries. *Required to meet minimum state standards for the coaching requirement.

HPR 345 WELLNESS, FITNESS, AND AGING

3, 3/0; Sp 92, 93 (E)

Prerequisite: Junior. Designed to acquaint students of gerontology with the implications of exercise and physical fitness for the quality of life of older citizens. The course deals with the aging process and its relationship to physiological factors associated with exercise and fitness, differences in capacities for exercise, principles for guiding the selection, programming, and supervision of activities.

HPR 401 ASSESSMENT AND EVALUATION IN HEALTH WELLNESS

3, 3/0; offered based on staff availability

Prerequisite: HPR 301, HPR 302. This course is designed to introduce concepts surrounding various aspects of fitness, assessment, and evaluation. Topics covered will include cardiovascular fitness, flexibility, muscular strength, and endurance. The course will also incorporate assessment and evaluation techniques in muscular imbalance related to posture, proper nutritional guidelines, and identification and coping techniques for stress.

HPR 411 CRITICAL ISSUES IN HEALTH AND WELLNESS

3, 3/0; offered based on staff availability

Prerequisite: HPR 401 and senior standing. This course is a study of one's interaction with his/her many environments and the implications of this interaction for health behaviors. Emphasis is on current facts and attitudes important in confronting critical health issues.

HPR 412 HEALTH/WEALTH PROGRAMS

3, 3/0; offered based on staff availability

Prerequisite: HPR 401 and senior standing. This course will provide the student an opportunity to utilize health/wellness concepts. The course covers general principles used in the development of health promotion programs. The specific procedures involved in a fitness profile analysis are presented as a vital step in any wellness program. The course incorporates guidelines for implementing physical fitness and nutrition and weight control programs. Procedures for stress management and smoking cessation programs are also presented. The student will utilize the principles presented in class during practical health planning experiences.

HPR 488 INTERNSHIP

Credit hours vary; offered based on staff availability

Prerequisite: Junior or senior standing and permission of the faculty. Additional prerequisites are established in selected areas of health, physical education, recreation, and athletics. They are available in the HPER Department upon request. Designed to provide for the integration of theoretical knowledge with practical field experience in related areas of Health, Physical Education, Recreation, and Athletics.

HPR 495 PROJECT

HPR 499 INDEPENDENT STUDY

Health Sciences

Offered by the Health, Physical Education and Recreation Department
DR. DONALD E. BARR, Chairperson
Houston Gym 205

HSC 204 PERSONAL AND COMMUNITY HEALTH

3, 3/0; offered based on staff availability (S)

Develop a deeper understanding of the many problems and advances in medicine and public health as they affect the student's own personal health status and that of the individual, family, school, and community.

HSC 310 ADVANCED FIRST AID AND EMERGENCY CARE

3, 3/0; Sp 92, 93

Prerequisite: BIO 311 or permission of instructor. This course is designed to promote Advanced First Aid training and competencies in various areas of emergency medicine including bandaging, splinting, victim examination and emergency childbirth. American Red Cross certification in Advanced First Aid and Cardiopulmonary Resuscitation will be awarded upon successful completion of the course.

HSC 320 PSYCHOACTIVE DRUGS AND HEALTH

3, 3/0; 1991-93 (E)

Prerequisite: Sophomore standing. Emphasis is placed upon development of an understanding of the widespread effects of abusive use of drugs, their relationship to health and disease, and the implication and application for education and theory. *Students may challenge HSC 320 by applying to HPER Department by the announced date each semester and following the assigned reading and knowledge test procedure as scheduled.

HSC 425 ALCOHOL PROBLEMS

3, 3/0; offered based on staff availability

Prerequisite: Upperclass. A seminar designed for students as prospective citizens, teachers, supervisors, and voluntary governmental personnel concerned with individual and community health problems. Emphasis placed upon development of an understanding of the widespread effects of alcohol, its relationship to health and disease, and the implication for health and therapy.

HSC 495 PROJECT

HSC 499 INDEPENDENT STUDY

History

Offered by the History and Social Studies Education Department
DR. MONROE FORDHAM, Chairperson
Classroom Building C205

HIS 101 UNITED STATES IN THE TWENTIETH CENTURY

3, 3/0; 1991-93 (S)
Political reform and reaction; isolationism, interventionism, and internationalism in foreign relations; big government, industry, and labor; revolution in foreign policy, national security in the nuclear age; social and intellectual ferment in a pluralistic society. Students may take either HIS 101 or HIS 107 but not both. They will only receive credit for one of these courses.

HIS 106 HISTORY OF AMERICAN LIFE I

3, 3/0; 1991-93 (S)
Exploration and colonization; the meeting of cultures; Colonial America; prologue to independence; independence and the new nations; Jeffersonian Republicanism; nationalism and economic expansion; Jacksonian Democracy; religion and reform; expansion and sectional crisis; American life and culture in the mid-Nineteenth Century; a decade of crisis; the Civil War; aftermath of the war.

HIS 107 HISTORY OF AMERICAN LIFE II

3, 3/0; 1991-93 (S)
The New South; reunion and readjustment; the end of the old frontier; the economic revolution; the urban society; American politics in the gilded age; America's emergence as a world power; the progressive era; World War I and its aftermath; abandonment of isolation; World War II; the cold war; the Eisenhower years; America since 1960. Students may take either HIS 101 or HIS 107 but not both. They will only receive credit for one of these courses.

HIS 110 HISTORY AND IDEAS

3, 3/0
Topics and problems in history developed in an historical frame of reference with course attention devoted to methods and techniques of historical analysis articulating and writing critiques; class discussion and interaction.

HIS 115 FOUNDATIONS OF WESTERN CIVILIZATION

3, 3/0; 1991-93 (S)
Major contributions of the Greek, Roman, and Medieval civilizations to the creation of our western heritage in philosophy, art, literature, science, political structure, economy and law.

HIS 116 EUROPE SINCE 1500

3, 3/0; 1991-93 (S)
Growing concern of man and his relation to his world; development of nationalism, the concepts of freedom and democracy; increasing attention to the spirit of inquiry; scientific development and technology and their impact on society; the formulation of fascism, communism, socialism and the concern for political ideology.

HIS 117 TWENTIETH CENTURY EUROPE

3, 3/0; 1991-93 (S)
Political, social, cultural, and intellectual history of twentieth-century Europe; factors contributing to World War I; the Versailles Settlement, the Russian Revolution and the rise of communism; collapse of collective security and the rise of fascism and national socialism; the western democracies between the wars; the road to World War II; restoration of the Atlantic Community, and the challenge of the nuclear age.

HIS 121 INTRODUCTION TO JEWISH HISTORY AND HISTORIOGRAPHY

3, 3/0; (E)
The ancient Near East; the Bible as history; Moses and the prophets; daily life in Bible times; Jesus and the rise of Pauline Christianity; the fall of the Jewish state; Jews in exile.

HIS 155 WORLD WAR II

3, 3/0; Sp 92, 93 (E)
Delineates the factors which led to the outbreak of the war; the conduct of the war from its continental phase through its spread to global dimensions. Campaigns, theaters of operations as well as the process of decision-making by both Allied and Axis Powers constitute the substance of the course.

HIS 201 THE AGE OF DISCOVERY

3, 3/0; Sp 92, 93 (E)
Classical and Medieval background of the Age of Discovery; myth and reality of cosmography at the beginning of the Great Age of Discovery; early travellers; technological innovation; economic, social, and cultural forces supporting discovery and exploration; Portuguese, Spanish, French, and English voyages; impact of discovery on economic, literary, artistic, and cultural conditions; New World on the eve of period of colonization.

HIS 206 A HISTORY OF POLAND

3, 3/0; F 91, 92 (E)
An examination of major Polish historical and cultural achievements through the ages; the growth and development of the nation and state; scientific, cultural and religious forces in Polish life.

HIS 207 IMPERIAL SPAIN

3, 3/0
Ferdinand and Isabella unify Spain; rise of the Spanish empire; Columbus, Cortes and the conquest of Spanish America; Charles V and Spain's domination of Europe; the Spanish colonial system in America; the problems of Philip II; war with England; revolt in the Netherlands; decline of Spain under the later Hapsburgs; reform and revolution in the 18th century; Spanish America's wars for independence.

HIS 208 HISTORY OF ENGLAND SINCE 1485

3, 3/0; (E)
Rise and transition of representative, parliamentary government; commercial and industrial development; social, intellectual, and economic trends manifested through literature, art, the press, and other social agencies; transition from empire to commonwealth of nations; impact abroad of such concepts as mercantilism, laissez-faire, classical economics, and collectivism.

HIS 210 HISTORY OF MODERN ASIA

3, 3/0; 1991-93 (S)
China, Japan, and Southeast Asia in modern times; rise of nationalism, internal social and political conflict, response to western powers; impact of ideology and totalitarianism; industry and technology and the problems of international wars.

HIS 211 HISTORY OF MODERN AFRICA SINCE 1919

3, 3/0; F 91, 92 (S)
Partition of Africa by European nations; impact of colonial regimes; African resistance movements; drive toward independence; problems of economic and social change; cultural and intellectual currents in Modern Africa.

HIS 212 HISTORY OF THE JEWS IN EUROPE

3, 3/0; (E)
A history of European Jews from 70 A.D. to the end of the nineteenth century. Considers Jewish communities in Roman and Byzantine Empires, in Reconquest Spain and feudal Europe, and during the Renaissance, Enlightenment and post-Napoleonic periods. Analyzes patterns of religious intolerance in European history.

HIS 213 HISTORY OF CITIES

3, 3/0
Cities and their development, the making of cities in a historical context, the geo-political impetus to development of cities as well as the historical economic necessities in a developing society; case examples of city development include the developing politics, the social structure, the relationship to environment, the impact of structure and location on attitudes, problems unique and general in modern cities.

HIS 215 HISTORY OF CHRISTIAN THOUGHT

3, 3/0; F 92 (E)
An analysis of classic and current Catholic, Orthodox, Anglican and Protestant explanations of major Christian ideas. Such concepts as the nature of revelation; the nature of man; evil; authority; historicity and eschatology; and worship.

HIS 220 CLASSICAL GREECE AND ROME

3, 3/0; Sp 92 (E)
An examination of the development of Greece, the western Hellenistic world and the Roman Empire with emphasis on cities, economic development, technology, social change, and ideas.

HIS 222 THE AMERICAN REVOLUTION

3, 3/0; F 91, 92 (E)
Historiographical approaches to the American Revolution; ideological origins of revolutionary America; the British Empire and the growth of American discontent after 1760; a decade of crisis, 1765-1775; America's war for independence, 1775-1783; the revolution's impact on American society; revolutionary politics, 1775-1787.

HIS 260 THE TURBULENT SIXTIES

3, 3/0; F 91, 92 (E)
Overview from the end of World War II (1945-1960); incisive political, economic, social, cultural and diplomatic analysis of the years 1960-1974. Topics covered include: the Black Revolution, Martin Luther King, Malcolm X and others; John F. Kennedy, the New Frontier, the Cuban Crisis, Berlin Wall, assassination; the Vietnam War; the Johnson administration; student protests, university take-overs and the commune movement; the Nixon administration, Watergate, the President's resignation; the oil crisis and the recession of 1974.

HIS 301 COUNTER CULTURE/UTOPIAS

3, 3/0; Sp 92 (E)
The idea of utopian societies; the utopian communities; leaders and followers; relation of idealism to economic, social, political, and religious conditions; the phenomenon of modern commune development in the United States; young people and counterculture.

HIS 302 HISTORY OF WOMEN IN AMERICA

3, 3/0; F 91, 92 (E)
The impact of women on American development from colonial time to the present; effects of history on the roles and status of women; changes in women's role in the family, economic contributions, legal status, struggle for equal rights; women and demographic changes; developing perceptions of women about society; political growth and women; our society's regard for women in an historical context; and the differences and/or similarities between women from various ethnic, racial, religious and socio-economic groups.

ious ethnic, racial, religious and socio-economic groups.

HIS 303 THE CITY IN AMERICAN HISTORY

3, 3/0
Topics covered include: historical background; colonial period; formation of a new nation; towns in westward expansion; industrialization; political machines; municipal reform; the city in American thought; twentieth century developments; the contemporary scene.

HIS 304 EUROPE FROM NAPOLEON TO THE FIRST WORLD WAR

3, 3/0; F 91 (E)
Major influences in nineteenth-century Europe; nationalism, imperialism, Industrial Revolution, democracy, and socialism; causes of World War I.

HIS 305 SEX AND GENDER IN HISTORY

3, 3/0; (E)
Prerequisite: Junior or permission of instructor.
An examination of the background and sources of some of the major sex and gender issues of our own day. Topics to be analyzed include the influence of historical and cultural factors on attitudes, changing understanding of the nature of sexuality in the western world, influence of religion in moderating change, effect of disease in forming attitudes, and the development of the concepts of deviance, stigmatized behavior, and gender dysphoria.

HIS 306 HISTORY OF AFRICA TO 1919

3, 3/0; (E)
Prerequisite: HIS 115 or permission of instructor.
Indigenous developments and early empires of Africa; the impact of Islam; Western contact and the slave trade; the development of European colonialisms; the partition of Africa and colonial administrative policies of the European powers; the waning of European power as a result of World War I.

HIS 308 HISTORY OF CANADA

3, 3/0; Sp 92, 93 (E)
The establishment of France and England in Canada; the impact of national developments in the United States and the status of Canada; the social, ethnic, cultural, economic, and political growth of Canada; the significance of French Quebec in Canadian development; Canada's unique experience with democracy and nationalism under the influence of England, France, and the United States.

HIS 309 AMERICAN LEADERS

3, 3/0; Sp 92, 93
A study of selected leaders in critical periods or areas of American civilization, such as: Benjamin Franklin and revolutionary America;

John Marshall and federal power; Booker T. Washington and W. E. DuBois — contrasting Negro leaders; Lincoln Steffens and the muck-rakers; Henry Ford and mass production.

HIS 310 HISTORY OF THE FAR EAST: THE TRADITIONAL ERA

3, 3/0; F 91, 92 (E)
Prerequisite: Junior or senior.
China, Korea, and Japan before the coming of the West; traditional cultures, geography, political and religious institutions; impact of western ideas and colonialism.

HIS 311 AMERICAN IMMIGRATION AND EMIGRATION

3, 3/0; Offered based on staff availability
From colonial times to the present; American immigration policies; the people who came and who left the U.S.; the process of assimilation; problems of immigration and emigration.

HIS 312 HISTORY OF ITALY

3, 3/0
Italy after the barbarian invasions; the Empire and the Papacy; formation of Italian city states; Renaissance society and cultures; problems of Italian unification; Italian parliamentary democracy; the Fascist experiment; Republican Italy.

HIS 313/PSC 345 POLITICS AND HISTORY IN THE MIDDLE EAST

3, 3/0; offered based on staff availability (S)
Analysis of political culture and geographic settings; historical development since the French invasion of Egypt; the disintegration of the Ottoman Empire and the rise of Western colonialism; nationalist movements, independence, and turmoil; the post-World War II political evolution, diversity and problems; emphasis upon the region's key industries.

HIS 314 MODERN LATIN AMERICA

3, 3/0; F 91, 92 (S)
Prerequisite: HIS 207 or permission of instructor.
Movements for independence; early political apprenticeship; age of dictators; nationalism and national development; Hispanic-American interrelations; growth of inter-American system; Latin America in world politics; revolution of rising expectations, guerrilla movements, turmoil in Central America; contemporary problems.

HIS 317 HISTORY OF RUSSIA TO 1917

3, 3/0 (E)
Prerequisite: Junior or senior.
Social, political, and economic history of Russia from the Varangians state to the October 1917 Revolution; effects of geographic location; the Mongol conquest; retarded reorientation toward the West in the eighteenth and nineteenth centuries; partici-

pation in world politics, expansion in Europe and in the East, participation in World War I.

HIS 318 HISTORY OF THE SOVIET UNION

3, 3/0; F 91, 92 (E)

Economic and historical forces behind the Communist Revolution of 1917; the governmental system and its political, social, and economic theories; the evolving economic system; Soviet foreign policy, impact of the Revolution and World War II; the church, the educational system, and other cultural developments.

HIS 319 COLONIAL HISTORY OF THE AMERICAN PEOPLE

3, 3/0; Sp 92, 93 (E)

Prerequisite: Junior or senior. Establishment and development of English, Spanish, French, Dutch, and Swedish colonies in North America; American Revolutionary period, colonial influence on early culture and institutions of the United States; subsequent contributions to the American heritage.

HIS 320 MODERN HISTORY OF JAPAN AND KOREA

3, 3/0; F 91 (E)

History of Japan and Korea in the twentieth century; the rise of Japan as a modern nation; the rise and fall of the Japanese empire; Japan under new democracy; Korea under Japanese control; the liberation and division of Korea; the problem of reunification of Korea.

HIS 321 HISTORY OF MEDIEVAL EUROPE

3, 3/0; F 92, Sp 93 (E)

Prerequisite: HIS 115 or permission of instructor. Transition from Graeco-Roman to Medieval civilization. Islam, Charlemagne and Feudal Europe; Crusades; cultural, economic, and political revival of the twelfth-century Medieval Church and Papacy; Medieval intellectual syntheses; rise of monarchies, decline of Papacy; decline of Medieval civilization.

HIS 322 AFRO-AMERICAN HISTORY

3, 3/0; 1991-93 (S)

Heritage of Black Americans; Afro-Americans existence under slavery; their role in influencing historical events; activity in the Civil War period; the freed men during reconstruction; migration to the north and adjustment to urban life; Afro-American leaders, institutions, ideas and their impact on modern America.

HIS 324 AMERICAN PRESIDENTS

3, 3/0; Sp 92, 93

Prerequisite: HIS 106 or HIS 107. A biographical approach to the study of the presidency from Washington to the current era. An examination of the background to and evolution of that office, and the roles that the best and worst presidents played in shaping its powers.

HIS 325 U.S. BUSINESS HISTORY

3, 3/0; Sp 92, 93 (E)

The history of U.S. business and its societal and cultural contexts. Businessmen within mercantilism; merchants and craftsmen in the early republic; business and governmental action in the North and South; industrialization; rise of corporations and anti-trust; business, government, and science; managerial style; advertising; the multinational; Rust Belt and Sun Belt; high tech society.

HIS 330 U.S. ENVIRONMENTAL HISTORY

3, 3/0; F 91, 92 (E)

The impact of Americans on their natural environment, and the influence of this natural and a developing social environment on Americans in the past. Aborigines and the earliest settlers; establishment of patterns and institutions; preservationists vs. conservationists, 1860-1940; the modern environmental movement, 1940-present.

HIS 331 AMERICAN WESTWARD EXPANSION

3, 3/0

Prerequisite: HIS 106 or junior. An examination of the gradual westward migration of Americans; their patterns of migration and settlement; the natural environment and peoples they encountered; and the influence of the frontier on the development of American institutions, thought and the American personality.

HIS 332 TECHNOLOGY AND U.S. HISTORY

3, 3/0; Sp 92 (E)

Interaction of U.S. society with technology in the past, concentrating on the last 200 years. Background of western technology; the agricultural revolution; industrial technology; technology and culture, labor, the home, medicine, the government; post-industrial technology.

HIS 334 MODERN IRELAND SINCE 1800

3, 3/0; (E)

Prerequisite: Junior or permission of instructor. An examination of the major factors that shaped Irish history in the nineteenth and twentieth centuries. Topics to be analyzed are the impact of the Union with Britain; the struggle for Catholic emancipation; the Great Famine and its aftermath; revolutionary movements like Young Ireland, the Fenians and Sinn Fein; the cultural revival and religion in Victorian Ireland. Also the question of Home rule and independence; the growth of the Free State and the establishment of the northern Ireland state; Ireland in World War II and the emergence of contemporary Ireland in the context of the European Economic Community.

HIS 335 HISTORY OF MEXICO

3, 3/0

Prerequisite: Junior or senior. Pre-Columbian Indian cultures; Spanish conquest of Mexico;

Spanish colonial administration in the Viceroyalty of New Spain; the Enlightenment and Mexican independence; Early National Period; the Mexican Revolution of 1910; Mexico today.

HIS 340/GEG 340 GEOGRAPHY AND PLANNING HISTORICAL-URBAN ANALYSIS OF THE BUFFALO METROPOLITAN AREA

3, 3/0; offered based on availability of staff in coordination with Geography and Planning Department.

An introductory course on the nature of the city, its growth and dynamics of urban development, the enduring impact of its historical past in relation to its geographical presence; a case study of Buffalo.

HIS 341 AFRO-AMERICANS AND CIVIL RIGHTS

3, 3/0; Sp 92, 93 (E)

A history of the landmark court decisions, laws, and governmental policies in the area of the civil rights of Afro-Americans. The course will examine some of the historic relationship between race, racism, law, and public policy in America. The course will also focus on resistance, protest, and the quest for equality in America.

HIS 342 ENGLISH LEGAL HISTORY

3, 3/0; F 91 (E)

Prerequisite: HIS 116. Origins of English law to 1066; growth of medieval common law; common law and its rivals in sixteenth and seventeenth centuries; consolidation and reform of law and courts; relation of law and equity; criminal and civil jurisdiction and procedure; the legal profession; changing legal concepts and the modern state.

HIS 343 INTRODUCTION TO AMERICAN LEGAL HISTORY

3, 3/0; F 92 (E)

Prerequisite: HIS 342 or permission of instructor. Origins of ideas of law; English background of American law; colonial legal history — Puritanism, law and social goals, revolution; criminal and civil jurisdiction and procedure; 19th-century codification movements, legal profession, social changes and the law.

HIS 344 HISTORY OF AMERICAN CAPITALISM

3, 3/0; Sp 93 (E)

Conservative reaction to reconstruction, decline of the presidency, the triumph of capitalism and industry, populist protest, the end of westward movement, socialization of immigrants, progressive impulse and leadership, rural vs. urban conflict, the U.S. and the race for empire; and the role of America in World War I.

HIS 345 HISTORY OF THE UNITED STATES SINCE 1941

3, 3/0; F 91, 92 (E)

Prerequisite: HIS 101 or 107. Political, diplo-

matic, social, and cultural history of contemporary America; World War II and the advent of the Nuclear Age; the Cold War and the policy of Containment; the Korean War, McCarthyism and Domestic Reform; the New Frontier and the Great Society; Civil Rights, civil disobedience and the Greening America; War and Peace in Southeast Asia; Watergate and the Travail of Liberalism.

HIS 350 LEFT AND RIGHT IN EUROPEAN HISTORY

3, 3/0; F 91, 92 (E)

Prerequisite: Junior standing. The evolution of Marxist, anarchist, state socialist and right radical ideologies in European thought and politics.

HIS 351 MODERN FRANCE

3, 3/0; (E)

Selected problems in French political, social, economic and diplomatic history emphasizing historiography and interpretation of such periods as the restored monarch, the revolutions of 1848, the Second Empire, the Third Republic and its successors.

HIS 354 THE SPANISH CARIBBEAN

3, 3/0

Prerequisite: HIS 207 or permission of instructor. Spanish colonization of the Caribbean; pirates and the foreign threat; race relations and the development of colonial society; Cuba rebels against Spain; the Spanish-American War; Cuba and the United States; Castro's revolution; Puerto Rico under U.S. rule; rise of Puerto Rican nationalism; Puerto Rico today.

HIS 360 GERMANY AND HITLER

3, 3/0; 1991-93 (E)

Political, cultural and social developments since the Reformation; Prussian kings and German emperors; nationalism and unification; Hitler's Austria; World War I; the challenge of democracy; the Nazi dictatorship; World War II; Germany after Hitler.

HIS 365 AMERICAN LABOR HISTORY

3, 3/0; Sp 92, 93 (E)

Prerequisite: HIS 107. Readings and bibliography on the role of workers in American life; slaves; indentured servants, wage-earners and craftsmen. The rise of organized labor from colonial times; the history of the Knights of Labor, the American Federation of Labor, the Congress of Industrial Organizations and independent unions, with related issues of immigration, radicalism and political action, contemporary labor problems.

HIS 370 AMERICAN DIPLOMATIC HISTORY TO 1898

3, 3/0; F 91, 92 (E)

Prerequisite: HIS 106. Independence from Bri-

tain and alliance with France; the constitution and the formation of foreign policies; neutral rights and war with Britain; rise of manifest destiny, commercial and territorial expansion, diplomacy of slavery and the Civil War; diplomacy and isolationism in the post-Civil War period.

HIS 371 AMERICAN DIPLOMATIC HISTORY SINCE 1898

3, 3/0; Sp 92, 93 (E)

Prerequisite: HIS 101, 107 or permission of instructor. War with Spain and the rise to world power; Inter-American and Far Eastern relations; diplomacy of World War I; retreat to isolationism; road to World War II; global war and its aftermath; leadership in the United Nations and the Cold War; Inter-American and Far Eastern affairs.

HIS 372 AMERICAN FOREIGN POLICY IN THE FAR EAST

3, 3/0

Prerequisite: Sophomore, junior, or senior. Dawn of America's Asiatic interests; early relations with China; opening of Japan; missionary activity and influence; war with Spain; America becomes a Pacific power; World War I and the rise of Chinese nationalism; American gunboat diplomacy; inter-war naval conferences; Manchurian Incident; American-Japanese problems; road to war; Pearl Harbor and war in the Pacific; search for Pacific security; conflict in Korea; war and peace in Vietnam.

HIS 375 HISTORY OF THE BYZANTINE EMPIRE

3, 3/0; F 92

Prerequisite: HIS 115 or permission of instructor. The history of the Byzantine Empire, its influence on intellectual and cultural progress in Western Europe and among the Eastern and Balkan Slavs with special emphasis on internal, social, economic, political, and cultural developments.

HIS 380 INTRODUCTION TO THE MUSEUM

3, 3/0; F 91, 92; offered based on staff availability

Prerequisite: Permission of instructor. History, theory, and practices of the historical agency or museum; extensive reading, illustrated lectures, and exercises in museum and historical agency problems; a series of field trips to area museums and agencies.

HIS 381 THE ROLE OF THE HISTORY MUSEUM

3, 3/0; Sp 92, 93; offered based on staff availability

Prerequisite: HIS 380 or permission of instructor. Theory and practice of historical investigation and publication; uses and procedures of research in historical museums and agencies; evaluation of source materials; preparation of historical essays and exhibits.

HIS 389 HISTORICAL PERSPECTIVES (TOPICS)

3, 3/0

Examination of themes and unique developments in history that stand apart from the normal pattern; analytical and historiographical approach to such topics and phenomena as reform and reaction in American life; impact of ideology in European relations; clash of tradition and modernization in Asia; rise of nationalism in Latin America; emergence of a third world. Emphasis on class discussion of assigned materials and oral and written reactions to readings.

HIS 400* SENIOR SEMINAR IN HISTORY

3, 3/0; 1991-93

Prerequisite: Senior. Readings, discussion and research on selected problems in history — American, European, Third World. Subject and area to be covered will be noted in the schedule. *Fulfills seminar requirement for history majors, social science majors, and secondary social studies majors.

HIS 401 TWENTIETH CENTURY EUROPEAN DIPLOMACY

3, 3/0

Topics covered include: causes and diplomatic problems of World Wars I and II; the Paris Peace Conference and interwar diplomacy; peacemaking in the Cold War era; the European movement; Gaullism and its consequences.

HIS 404 SECTIONALISM AND THE CIVIL WAR

3, 3/0; Sp 92, 93

Prerequisite: Junior or senior. The structure of the American south, sectional development and states rights; slavery; the development of anti-slavery agitation and reform; the rise of Lincoln and the division of political parties; Civil War and the military; constitutional and diplomatic crises; economic and social impact of the war; reconstruction of the union.

HIS 405 THE RENAISSANCE AND REFORMATION

3, 3/0; Sp 92; offered based on staff availability

Prerequisite: Junior or senior. Impact of the Renaissance and Reformation on intellectual, artistic, economic, and political development of Europe; social and religious problems; humanism, secularism, classicism, individualism in Italy and Northern Europe; Protestant reform and reformers; Catholic Reformation.

HIS 406 THE FRENCH REVOLUTION AND NAPOLEON

3, 3/0

Prerequisite: Junior or senior. Sources of major economic, and intellectual fabric of the Old Regime; the Revolution; dictatorship of Napoleon and spread of revolutionary ideas; rise of modern nationalism.

**HIS 408
AMERICAN INTELLECTUAL HISTORY**

3, 3/0; Sp 92

Prerequisite: Junior or senior. Sources of major bodies of thought and ideas in American history; their impact upon American culture; the role ideas have played in producing a distinctive culture.

**HIS 415
HISTORY AND GOVERNMENT OF
NEW YORK STATE**

3, 3/0; offered based on staff availability

Prerequisite: Junior or senior. Aboriginal background, development of the colony; establishment of the state; rise of political parties; past and present structure and problems of New York State government; economic and social growth in the present time.

**HIS 419
CURATORSHIP**

3, 3/0; offered based on staff availability

Prerequisite: Junior or senior, HIS 380, or permission of instructor. An examination in detail of principles and techniques of collection and care of museum collection, the library, collections, audiovisual materials, archives, iconography, and historic sites; development of professional expertise in curatorship.

**HIS 420
ADMINISTRATION OF THE HISTORICAL
AGENCY OR ART MUSEUM**

3, 3/0; offered based on staff availability

Prerequisite: Junior or senior, HIS 380, or permission of instructor. Principles and practice of administration of museums; problems of organization, collection, exhibition, public services, finance, public relations, and trustee relations; special experience in the area of interpretation.

**HIS 422
TUDOR AND STUART ENGLAND**

3, 3/0

Prerequisite: Junior or senior. Henry VII and the new dynasty; religion and politics under the early Tudors; the age of Elizabeth I; the Stuarts and the Puritan revolt; restoration and revolution; limiting the monarchy and establishing the empire.

**HIS 430
UNITED STATES — THE NEW NATION**

3, 3/0; Sp 92

Prerequisite: Junior or senior. The United States following the American Revolution through Andrew Jackson's administrations. Federal authority, political parties, industrial and sectional economic development during a period of territorial, social, and diplomatic transformation. The formative and foundational structure of American society during the periods of Washington, Jefferson, and Jackson will be examined.

**HIS 450
MUSEUM INTERNSHIP**

6, 15/0; offered based on staff availability

Prerequisite: Junior or senior and permission of instructor. An intern program for students interested in gaining practical experience in museum work. Assignments to a particular museum will be made on the basis of the student's major related disciplines; students in areas such as history, anthropology, art history, education, and the natural sciences are eligible to participate.

**HIS 468
READINGS IN
AFRO-AMERICAN HISTORY**

3, 3/0

Prerequisite: Junior or senior. An examination of the major historical writings on selected periods and topics in Afro-American history. The class activities will include readings, discussion, and writing book reviews and bibliographical essays.

**HIS 469
BLACK PROTEST AND LEADERSHIP IN
THE U.S. IN THE TWENTIETH CENTURY**

3, 3/0; F 91, 92; offered based on staff availability

Prerequisite: Junior or senior. An examination of the black protest movements and leaders in 20th-century America.

**HIS 495
PROJECT**

See chairperson or pertinent staff.

**HIS 498
HONORS RESEARCH**

3, 3/0; see chairperson or pertinent staff

Prerequisite: Students must have completed 12 credits in the history honors program. An advanced research course for students in the history honors sequence.

**HIS 499
INDEPENDENT STUDY**

See chairperson or pertinent staff.

Library

Offered by the professional staff of
Butler Library
Butler Library 210

**LIB 100
LIBRARY RESEARCH METHODS AND
BIBLIOGRAPHY**

1, 1/0; 1991-93

Provides students with a basic understanding of the library so that materials and time may be used efficiently and effectively when doing library research. Students choose a research topic and, through a series of exercises demon-

strating search strategy design and execution, prepare a bibliography. Research tools covered are the library catalog, encyclopedias and dictionaries, periodical indexes, abstracting services, audiovisual and microform resources, and computer searching of CD-ROM databases. Open to all students. Recommended for freshmen and sophomores.

Mathematics

Offered by the Mathematics Department
JAMES E. WESTROPE, Chairperson
Bishop Hall 309

The mathematics department suggests the following guidelines in selecting mathematics courses: Students with three and a half to four years of high school mathematics who plan to major in a mathematics-related area should enroll in MAT 161. A student with credit for only three years of high school mathematics may want to enroll in MAT 124 before electing MAT 161. A student who intends to major in mathematics should complete at least the required three-semester calculus sequence by the end of the sophomore year in order to fulfill the degree requirements within four years.

1. A declared mathematics major may not receive credit toward major requirements for any mathematics course numbered below 141.

2. A student may receive general elective credit only, for a course numbered below 141, provided the course was taken before the student declared mathematics as a major.

**MAT 099
BASIC MATHEMATICS I**

0, 3/0; 1991-93

Prerequisite: Must have failed Part 1 of Competency Test. A basic course in mathematics for students inadequately prepared for college mathematics.

**MAT 100
BASIC MATHEMATICS II**

3, 3/0; 1991-93

Prerequisite: Must have failed Part 2 of Competency Test. A course which provides the necessary mathematics background needed to pass the algebra section of the College Proficiency Examination in mathematics; covers polynomials, rational expressions, exponents and roots, solving equations and inequalities.

**MAT 103
INTRODUCTION TO CONTEMPORARY
MATHEMATICS**

3, 3/0; 1991-93 (M)

Mathematics appreciation developed through such topics as: the nature and philosophy of mathematics, historical problems and personalities; mathematical systems; computers, statistics.

**MAT 107
CASINO GAMBLING**

3, 3/0; Sp 92, 93 (M)

An intensive encounter with the phenomenon of chance and the theory of probability which governs it, through a critical examination of various casino gambling games including roulette, craps and blackjack.

**MAT 110
INTERMEDIATE COLLEGE ALGEBRA
AND TRIGONOMETRY**

3, 3/0; 1991-93 (M)

Prerequisite: Satisfaction of basic mathematics requirement. A course which provides concepts and skills in intermediate algebra and right triangle trigonometry.

**MAT 111
ELEMENTARY PROBABILITY AND
STATISTICS**

3, 3/0; 1991-93 (M)

Prerequisite: MAT 110 or three years of high school math. Credit may not be earned for both MAT 111 and MAT 381 or equivalents. Empirical frequency distributions; measures of central tendency and dispersion; theory of probability of a finite sample space; application of statistical distributions.

**MAT 119
FINITE MATHEMATICS**

3, 3/0; F 91, 92 (M)

Prerequisite: MAT 110 or three years of high school math. Logic, sets, partitions, probability, vectors, matrices; linear programming.

**MAT 121
MATHEMATICS FOR ELEMENTARY
TEACHERS I**

3, 3/0; 1991-93 (E)

Prerequisite: MAT 110 or three years of high school math. Natural numbers; logic, nature of deductive proof; elementary set theory; numeration systems; non-metric geometry; integers.

**MAT 122
MATHEMATICS FOR ELEMENTARY
TEACHERS II**

3, 3/0; Sp 92, 03 (E)

Prerequisite: MAT 121. Number theory, divisibility, division algorithm, Euclidean algorithm, fundamental theorem; rational numbers, real numbers; metric geometry, measure, finite mathematical systems.

**MAT 124
PRE-CALCULUS MATHEMATICS**

3, 3/0; 1991-93 (E)

Prerequisite: MAT 110 or three years of high school math. Numbers, inequalities, functions graphing, polynomials, rational functions, circular functions, trigonometric identities, induction, sequences. A pre-calculus course in algebra and trigonometry designed primarily for those who have had eleventh-year high school mathematics. No credit given to students who have completed a college calculus course.

**MAT 126
CALCULUS**

3, 3/0; 1991-93 (M)

Prerequisite: MAT 110 or three years of high school math. Functions; limits; continuity; techniques for differentiations; applications; summations; anti-derivatives; definite integrals; fundamental theorem of calculus; techniques of integration applications. Credit may not be earned for both MAT 126 and MAT 161 or equivalents.

**MAT 127
CALCULUS OF SEVERAL VARIABLES**

3, 3/0; 1991-93 (M)

Prerequisite: MAT 126. A study of the calculus of several variables with emphasis on applications to the physical and social sciences. The level of the course is like that of MAT 126. Vectors; conic sections, surface in 3-space, functions of several variables and their graphs; partial derivatives; lines and planes in 3-space; tangent planes and normal lines and their applications; the differential and its applications; the directional derivative and its applications; introduction to differential equations and application.

**MAT 304
GAMES AND LINEAR PROGRAMMING**

3, 3/0; Sp 92, 93 (M)

Prerequisite: MAT 110 or three years of high school math. Elementary techniques for finding optimal choices among games strategies and in linear programming problems using the fundamental minimax theorem and the simplex method. Applications in such areas as business, industry, economics, social sciences, and behavioral sciences. Not open to mathematics majors.

**MAT 306
PROBLEM-SOLVING IN BASIC**

3, 3/0; 1991-93 (M)

Prerequisite: MAT 110 and three years of high school math. An introduction to the mathematical uses of computers in today's society. Background; typical uses; writing programs in BASIC; solution of problems in number theory, geometry, finance and algebra; mathematical games; sorting.

**MAT 320
MATHEMATICS FOR THE SOCIAL
SCIENCES**

3, 3/0

Prerequisite: MAT 110 or three years of high school math. Consideration of applications of finite mathematics for non-math majors; linear algebra; graph theory; game theory; methods which are relevant to computer techniques; emphasis on the interests of commerce and behavioral sciences. Not open to mathematics majors.

Courses for mathematics majors, electives for all qualified students:

**MAT 141
COMPUTER MATHEMATICS I**

3, 3/0; 1991-93

Prerequisite: MAT 124 or four years of high school math, and CIS 101 or equivalent. Fundamental concepts of problem solving by computer as applied to mathematics. Computer organization, operations and functions; algorithm development; programming techniques. Numerical methods as used in calculus, linear algebra, differential equations, etc. Course will use a computer language to apply to this and other mathematics classes. Required of all mathematics majors.

**MAT 161
CALCULUS I**

3, 3/0; 1991-93 (M)

Prerequisite: MAT 124 or four years of high school math. Functions, limits continuity, differentiation of algebraic functions, applications of the derivative, and differentiation.

**MAT 162
CALCULUS II**

3, 3/0; 1991-93 (M)

Prerequisite: MAT 161. The definite integral, the techniques of integration, logarithmic and exponential functions. Applications studied through algorithmic techniques and/or computer usage.

**MAT 183
PROBLEM SOLVING IN MATHEMATICS**

3, 3/0; (E)

Prerequisite: MAT 124 or four years of high school math. An introduction to the basic techniques of problem solving, creative problem solving, the methods of Polya, Wickelgren, and others, and applications to the areas of algebra, geometry, analysis, and recreational mathematics. The emphasis is on process rather than on content.

**MAT 202
INTRODUCTION TO LINEAR ALGEBRA**

3, 3/0; 1991-93 (E)

Prerequisite: One course in calculus. Vector and vector spaces; linear dependence, basis and dimension; matrices and determinants; linear systems; linear transformations; eigenvectors; and invariant subspaces.

**MAT 263
CALCULUS III**

3, 3/0; 1991-93 (E)

Prerequisite: MAT 162. Vectors, partial differentiation, multiple integrals, and infinite series. Applications studied through algorithmic techniques and/or computer usage.

**MAT 270
DISCRETE MATHEMATICS**

3, 3/0; 1991-93

Prerequisite: One semester of calculus. Enumer-

ation and graph theory. A wide variety of applications involving graphs and digraphs, trees, circuits, permutations and combinations, inclusion-exclusion principle, and recurrence relations.

MAT 301 FUNDAMENTALS OF ABSTRACT ALGEBRA

3, 3/0; Sp 92, 93 (E)
Prerequisite: MAT 202 or MAT 270. An introduction to the fundamental concepts of abstract algebra, sets, mappings, binary operations, relations, and to algebraic structures of groups, rings, fields and applications.

MAT 302 ALGEBRA II

3, 3/0; F 91, 92
Prerequisite: MAT 301. Quotient fields of integral domains, polynomials rings, Euclidean domains, ideals, and factorization. Finite fields, extension fields, splitting fields, applications to geometric constructions and solvability, applications chosen from contemporary areas of coding theory, block designs, etc.

MAT 315 DIFFERENTIAL EQUATIONS

3, 3/0; Sp 92, 93 (E)
Prerequisite: MAT 263 or permission of instructor. Preliminary ideas on order, degree, and solutions; formation of differential equations; differential equations of first order linear equations with constant coefficients; special high order equations; simultaneous equations; linear equations of the second order, series solutions.

MAT 316 INTERMEDIATE DIFFERENTIAL EQUATIONS

3, 3/0; F 91, 92 (E)
Prerequisite: MAT 315. Laplace transform; inverse Laplace transform and applications; partial differentiation equations; Fourier series; boundary value problems; transform methods application.

MAT 322 MODERN GEOMETRY

3, 3/0; F 91, 92 (E)
Prerequisite: MAT 202 or MAT 270. Euclidean constructions; theorems of Menelaus and Ceva; cross ratio; harmonic points; orthogonal circles; isometries and similarities in the plane; introduction of projective geometry.

MAT 351 ELEMENTARY THEORY OF NUMBERS

3, 3/0; F 91, 92 (E)
Prerequisite: MAT 124 or four years of high school math. Divisibility, Euclid's algorithm; numbers; prime factorization theorem; Euler's phi-function; Diophantine analysis; congruence; theorems of Fermat, Euler, and Wilson.

MAT 366 COMPUTER MATHEMATICS II

3, 3/0; Sp 92, 93
Prerequisite: MAT 141 and MAT 270. Structured programming, verification of program validity, data structures, combinatorial problems, flow network algorithms, random number generators, simulation of random and non-random processes.

MAT 370 APPLIED NETWORKS

3, 3/0; Sp 92, 93
Prerequisite: MAT 202 and MAT 270. Introduction to network and graph theoretic concepts. Considers properties with application in computational mathematics, social science decision making and physical science.

MAT 381 PROBABILITY

3, 3/0; F 91, 92 (E)
Prerequisite: MAT 270, MAT 127, or MAT 162. Probability models, discrete and continuous random variables, sampling distributions, estimation, tests of hypotheses and simple linear regression.

MAT 382 TOPICS IN MATHEMATICAL STATISTICS

3, 3/0; Sp 92, 93
Prerequisite: MAT 381 and MAT 263. Sampling distributions; the central limit theorem; point and interval estimation; tests of hypotheses.

MAT 401 INTRODUCTION TO TURING MACHINES AND ABSTRACT COMPUTABILITY

3, 3/0
Prerequisite: MAT 301. An introduction to topics in finite automata and Turing machines; universal Turing machines; topics in abstract computability theory, and general unsolvability theory.

MAT 404 APPLICATIONS OF LINEAR ALGEBRA

3, 3/0; F 91, 92
Prerequisite: MAT 141 or permission of instructor, and MAT 202. Eigenvalue problems, diagonalizing matrices, Jordan Canonical form, Linear Programming, simplex method, game theory, applications in areas such as business, industry, economics, social sciences, and behavioral sciences.

MAT 411 COMPLEX VARIABLES

3, 3/0; Sp 93
Prerequisite: MAT 263. Topics selected from the theory of functions of a real and/or complex variable: axioms of real numbers, geometry of complex numbers, point set topology differentiation, analytic functions, Cauchy-Riemann equations, power series, integration, special functions, and the calculus of residues.

MAT 417 INTRODUCTION TO REAL ANALYSIS I

3, 3/0; F 91, 92
Prerequisite: MAT 263. A rigorous treatment of elementary real analysis including: topology and Cartesian spaces, Heine-Borel theorem, sequences of numbers, sequences of functions, continuous functions, limits of functions, differentiation, mean-value theorem, Weierstrass approximation theorem.

MAT 418 INTRODUCTION TO REAL ANALYSIS II

3, 3/0; Sp 92
Prerequisite: MAT 417 or equivalent. A continuation of MAT 417 with topics to be chosen from: Riemann-Stieltjes integration, improper integrals, infinite series, series of functions, partial differentiation, Jacobians, implicit function, multiple integrals, and Fubini's Theorem.

MAT 461 NUMERICAL ANALYSIS

3, 3/0; Sp 92, 93
Prerequisite: MAT 141, MAT 202, and MAT 263. Fundamentals; finite differences; difference tables; tabulation of polynomials; difference operators; linear interpolation; classical polynomial formulas; inverse interpolation; Lagrange's formula; numerical integration; Gauss' formula; difference equations.

MAT 471 INTRODUCTION TO TOPOLOGY

3, 3/0
Prerequisite: MAT 301 and MAT 417. Sets and functions; metric spaces; topological spaces, connectedness; compactness; separation.

MAT 490 SEMINAR

3, 3/0; Sp 92, 93
Prerequisite: Senior mathematics major or permission of instructor. Investigation of some topics of current interest to mathematicians, such as group theory, game theory, differential geometry, measure theory, sampling theory, etc., emphasis is on oral presentations by the students and discussion.

MAT 495 PROJECT

MAT 499 INDEPENDENT STUDY

MED/SED 307 USES OF TECHNICAL AIDS IN THE TEACHING OF MATHEMATICS

3, 3/0; Sp 92, 93
Prerequisite: CIS 101 or MAT 141, or equivalent computer experience. This course includes an introduction to the equipment and software available, ways in which it can be used effectively, a process for developing classroom lessons, and preparation for adoption of future developments in technology for teaching

mathematics. Students will produce and evaluate projects for use in the mathematics classroom.

MED/SED 308 METHODS IN THE TEACHING OF SECONDARY SCHOOL MATHEMATICS

3, 3/0; 1991-93
Prerequisite: Admission to the Secondary Education Bachelor of Science in Mathematics degree program; MAT 141, 161, 162, 202 or 301, 263, and 270 with a GPA of 2.5 in all math courses; at least three from SST/SED 200, EDF/SED 303, EDF/SED 403, MED 383 or two from the above group and one from MED/SED 307, EDF 321, EDF 346, EDF 353, EDF 410, EDF 412 with a GPA of 2.5; at least 75 hours. An introduction to the theory and practice of classroom teaching for the prospective secondary mathematics teacher. Actual field experience in classroom discipline, planning for instructor, curricular issues, evaluation and testing, and special learning techniques. Includes lectures, field observation, peer presentation, construction and critique of lesson plans, use of media, and research of teaching strategies.

MED 383 LEARNING AND TEACHING PROBLEM SOLVING

3, 3/0; 1991-93
Prerequisite: Two semesters of calculus and MAT 270. An introduction to the basic techniques of problem solving, creative problem solving, the methods of Polya, Schoenfeld, and others, with applications to the areas of algebra, geometry, analysis, and recreational mathematics. The course also considers strategies of teaching problem solving, as well as research in this area.

MED/SED 407 STUDENT TEACHING OF MATHEMATICS IN JUNIOR HIGH/MIDDLE SCHOOL

6, 30/0; 1991-93
Prerequisite: Completion of MED/SED 308 with a grade of "C" or better; MAT 322, 381, and 6 hours of upper division mathematics; GPA of 2.5 in all math courses; senior status. Early secondary-school classroom laboratory experiences; goal of early secondary math. educ.; psychological influences; teaching models; testing and evaluation techniques; total involvement in early secondary school activities-practicum.

MED/SED 408 STUDENT TEACHING OF MATHEMATICS IN SENIOR HIGH SCHOOL

6, 30/0; 1991-93
Prerequisite: Completion of MED/SED 308 with a grade of "C" or better; MAT 322, 381, and 6 hours of upper division mathematics; GPA of 2.5 in all math courses; senior status. Secondary-school classroom laboratory experiences; goals of secondary mathematics education; psychological influences; teaching models; testing and evaluation techniques of instruction; total involvement in secondary school activities-practicum.

Music

Offered by the Performing Arts Department
MYRON H. NADEL, Chairperson
Rockwell Hall 203

MUS 112 APPLIED MUSIC

1, 0/1/2; 1991-93 (E)
Private lesson fee
Prerequisite: Previous performance with the instrument; audition required.

MUS 130 COMPREHENSIVE MUSICIANSHIP I

4, 3/3; F 91, 92
Introduction to sound, rhythm, melody, texture, and form through experiences in listening to music from a variety of cultures and historical periods, drilling on sight-singing and dictation, and composing and performing original music. Required for music majors, elective for others.

MUS 131 COMPREHENSIVE MUSICIANSHIP II

4, 3/3; Sp 92, 93
Prerequisite: MUS 130. Composing; listening and scholarship; vocal performing skills (e.g., sight-reading and dictation) based on concepts applicable to music of any time and place in the Western cultural tradition, emphasizing harmony as a structural principle in form.

MUS 140 ETHNOMUSICOLOGY

3, 3/0; Sp 92, 93
Lectures, reading, and recordings introducing the student to some principal music traditions in non-Western cultures, such as African, Indian, and Sinitic; also some consideration of the Afro-American tradition including jazz and rock.

MUS 161-164 APPLIED MUSIC II

1, 0/1; 1991-93 (E)
Fee possible
Prerequisite: Audition. Courses must be taken in sequence. Class instruction in instrument or voice, I-IV.

MUS 165 KEYBOARD HARMONY I

1, 1/0; Sp 92, 93 (E)
Prerequisite: Permission of instructor. Applied music; keyboard harmony. Class instruction in piano, emphasizing playing chords for songs used in elementary schools. Not for beginning pianists.

MUS 171-172, 173-174, 271-272, 273-274, 371-372, 373-374 APPLIED MUSIC

1-2, 0/1/2-1; 1991-93 (E)
Fee possible

Individual lessons for students of voice or instrument. *Required for music majors; audition required.

MUS 201 SYMPHONIC MUSIC

3, 0/3; 1991-93 (A)
The understanding and enjoyment of the masterpieces written for symphony orchestra by Classic, Romantic, and Contemporary composers; attendance at selected concerts.

MUS 202 VOCAL MUSIC

3, 3/0; Sp 92
Class instruction and listening experience in the principal literature of choral and art song of the 17th to 20th centuries.

MUS 203 CHAMBER MUSIC

3, 3/0; F 92 (A)
Class instruction and listening experience in the principal literature of small instrumental combinations by Baroque, Classic, Romantic, and Contemporary composers. Attendance at selected concerts.

MUS 204 DRAMATIC MUSIC

3, 3/0; Sp 93 (A)
Class instruction and listening experience in the principal literature of opera.

MUS 205 AMERICAN POPULAR MUSIC IN THE 20TH CENTURY

3, 3/0; 1991-93 (A)
Starts with colonial period but emphasis is on the 20th century. Class instruction and listening experience in the principal literature of American popular music.

MUS 206 JAZZ AND ROCK FOUNDATIONS

3, 3/0; 1991-93 (A)
A study of the roots of blues, jazz, and rock music in America, and a survey of the historical developments that helped formulate today's jazz and rock movements from 1920 into the 1990s.

MUS 208 SURVEY OF WORLD MUSIC CULTURES

3, 3/0; 1991-93 (A)
Comparative study through lectures and listening assignments of the major art music cultures of Asia, the Middle East, Indonesia, and the West.

MUS 210 MUSIC THEORY FOR NON-MAJORS

3, 3/0; 1991-93 (A)
Music notation, aural and written; rudimentary sight reading; elementary harmony.

**MUS 211
INTRODUCTION TO CONDUCTING**

1, 1/0; Sp 92, 93

Prerequisite: Permission of instructor. A course in group conducting such as might be helpful to the classroom teacher.

**MUS 217
EXPERIENCE IN MUSIC FOR
BEGINNERS**

3, 3/0; 1991-93 (A)

For students, other than education majors, who would like to experiment with making music, learn to play some simple instruments, receive guidance in listening to art music, begin to learn to read and understand music. Workshop approach.

**MUS 230
COMPREHENSIVE MUSICIANSHIP III**

4, 3/3; F 91, 92

Prerequisite: MUS 130, 131. Composing, listening and scholarship, and keyboard performing skills (e.g., improvisation, four-part harmony progressions) based on concepts applicable to music of the 17th and 18th centuries in Europe.

**MUS 231
COMPREHENSIVE MUSICIANSHIP IV**

4, 3/3; Sp 92, 93

Prerequisite: MUS 230. Composing, listening and scholarship, and keyboard performing skills (e.g., accompanying and transposition) based on concepts applicable to music in the 19th century in Europe.

**MUS 301
INTRODUCTION TO MUSIC**

3, 3/0; 1991-93 (A)

Prerequisite: Junior or senior status. Introduction to music from antiquity to present; musical forms and styles; composers and performers, cultural and social backgrounds, parallel developments in other arts.

**MUS 302
MUSIC HISTORY, ANTIQUITY
THROUGH BAROQUE**

3, 3/0; (E)

Prerequisite: A 200-level course in western Classical music or ability to read music. Emphasis on Medieval, Renaissance, and Baroque styles.

**MUS 303
MUSIC HISTORY, CLASSIC AND
ROMANTIC**

3, 3/0; (E)

Prerequisite: MUS 301 or permission of instructor. The 18th- and 19th-century opera, oratorio, solo song, chamber music, symphony, and other forms.

**MUS 304
MUSIC HISTORY, 20TH CENTURY**

3, 3/0; (E)

Prerequisite: MUS 301 or permission of instructor. Sources and development of the idioms,

style, and new sound media of music in the present century.

**MUS 305
MODERN JAZZ**

3, 3/0; 1991-93 (E)

Prerequisite: MUS 206 or 205. A study of the history and development of modern jazz from 1941 to the present.

**MUS 306
URBAN BLUES AND ROCK**

3, 3/0; Sp 92, 93 (E)

Prerequisite: MUS 206 or 205. Sources and development of the idioms, style, and sound media of this music.

**MUS 313
ENSEMBLE I**

1, 0/2; 1991-93 (E)

Prerequisite: permission of instructor; repeatable. Training and supervised performance in the literature for small music ensembles related to a student's musical interest. Percussion, guitar, saxophone, and various chamber instrumental or vocal ensembles are offered. Audition required.

**MUS 314
CONCERT BAND**

1, 0/2; 1991-93 (E)

Prerequisite: Permission of instructor; repeatable. Regular rehearsals and performances with the Buffalo State Concert Band. Audition required.

**MUS 317
MUSIC FOR CHILDREN**

3, 3/0; 1991-93

Prerequisite: Junior or senior standing. Music experiences and activities for the elementary grades. *Required for 24-hour concentration.

**MUS 318
SIGHT-SINGING AND EAR-TRAINING**

3, 3/0; 1991-93 (E)

Prerequisite: Music major or permission of instructor. Sight-singing, musical dictation; scale patterns; interval, note and rest values; cadences and progressions; rhythms and meter.

**MUS 319
AMERICAN FOLK MUSIC**

3, 3/0; (E)

Prerequisite: MUS 206, or 205. Lectures, reading and listening experience in the various idioms of American folk music.

**MUS 321
ARRANGING VOCAL, INSTRUMENTAL,
POPULAR, AND JAZZ**

3, 3/0

Prerequisite: Permission of instructor. Class instruction and supervised training in arranging music for dance, stage, and popular song, with study of representative examples of the literature. Traditional arranging methods are stressed.

**MUS 322
CONDUCTING**

3, 3/0

Prerequisite: MUS 331, upper-level music major or equivalent, or permission of instructor. Use of baton; reading and observation; attendance at selected concerts.

**MUS 326
JAZZ ENSEMBLE**

1, 0/2; 1991-93 (E)

Prerequisite: Permission of instructor; repeatable. Training and supervised performance in jazz and dance band combinations. Audition required.

**MUS/ENG 328
WORDS AND MUSIC**

3, 3/0; 1991-93 (E)

Broadway musicals, songs, operas, and other works of art which combine words and music, analyzed in terms of the relations between musical structure and linguistic structure.

**MUS 330
COMPREHENSIVE MUSICIANSHIP V**

3, 2/2; F 91, 92

Prerequisite: MUS 231. Composing and listening and scholarship based on concepts applicable to music of the Middle Ages, the Renaissance, and the Baroque, with emphasis on counterpoint.

**MUS 331
COMPREHENSIVE MUSICIANSHIP VI**

3, 2/2; Sp 92, 93

Prerequisite: MUS 330. Composing, listening and scholarship based on concepts applicable to the music of the 20th century.

**MUS 335
BUFFALO STATE COLLEGE SINGERS**

1, 0/2; 1991-93 (E)

Prerequisite: Permission of instructor; repeatable. Performance and rehearsal of choral arrangements of topical music, which includes jazz, pop, rhythm and blues, spirituals, and gospel music. Audition required.

**MUS 150-450
DIRECTED STUDY SEMINAR**

3, 3/0; 1991-93 (E through MUS 350)

Prerequisite: Permission of instructor and department. Supervised projects in an area of music study not addressed by current offerings, such as, but not restricted to, composition and theory, sound recording, computer music and computer music editing, with all students reporting to a common seminar. (MUS 450 is an all-college elective.)

**MUS 155-455
DIRECTED STUDY SEMINAR, THEORY**

3, 3/0; 1991-93

Prerequisite: Performance ability on musical instrument, knowledge of major scales. Supervised projects in the area of musical theory not

addressed by current offerings, with all students reporting to a common seminar.

**MUS 495
PROJECT****MUS 499
INDEPENDENT STUDY**

Nutrition and Food Science

Offered by the Nutrition and Food Science Department
DR. DENNIS K. PONTON, Chairperson
Caudell Hall 106

Note: Courses required by department majors are indicated by the following symbols:

- D = Generalist dietetics major
F = Food systems management major
C = Coordinated program major

**NFS 101
INTRODUCTORY FOOD**

3, 2/2; 1991-93 (T)

Laboratory coat/apron required.

An introduction to the study of food with emphasis on the scientific principles that are involved in the identification and conservation of nutrients. *Required of majors (D,F,C).

**NFS 105
FOOD AND PEOPLE: INTERACTIONS
AND ISSUES**

3, 3/0; F 91, 92 (T)

An examination of the relationship people have with food including but not limited to consideration of basis for eating behavior and patterns, eating disorders and faddism, potential hazards associated with foods, dietary goals and guidelines for countries of world, and issues relating to world nutrition problems, especially hunger.

**NFS 200
FOOD SERVICE SANITATION**

2, 2/0; F 91, 92

Prerequisite: NFS 101. A presentation of the causes and conditions leading to foodborne illness. Students will learn how to evaluate food service operations for potential hazards and to implement measures to control them. At the completion of the course, students will take the sanitation certificate examination offered by the Educational Foundation of the National Restaurant Association.

**NFS 279
FOOD MANAGEMENT EXPERIENCE**

4, 1/9; F 91, 92

Prerequisite: NFS 101. Introduction to the various positions and operational activities which

exist in a food system; combines work experience in food management with theoretical principles in current literature and examines career paths. *Required of majors (F).

**NFS 305
ADVANCED FOOD**

3, 2/2; F 92 (E)

Laboratory coat/apron required.

Prerequisite: NFS 101. Application of the principles of nutrition and quality food preparation as well as the principles of management and consumer economics to family food purchase, preparation, and service. *Required of majors (D).

**NFS 306
FOOD DEMONSTRATION TECHNIQUES**

3, 2/2

Laboratory coat/apron required.

Prerequisite: Six hours NFS courses and junior standing. Uses and values of the lecture/demonstration method for the presentation of foods. Theory and practice.

**NFS 334
CONTEMPORARY NUTRITION**

3, 3/0; 1991-93 (T)

An explanation of nutrition which covers the functions, requirements, food sources, and results of deficiency and excess for each nutrient, as well as a variety of topics of current interest, such as weight control. Food fads and government nutrition policies will also be evaluated. *Required of majors (F).

**NFS 335
NUTRITIONAL NEEDS AND CONCERNS
DURING THE LIFE SPAN**

3, 3/0; F 91, 92 (E)

Prerequisite: NFS 334. A study of special nutritional needs and concerns during the life cycle, factors influencing them, and means of meeting them through proper food choices and nutrition education.

**NFS 337
HUMAN NUTRITION**

3, 3/0; Sp 92, 93

Prerequisite: BIO 311, CHE 321. A study of the nutrients required by humans for normal physiological function, with emphasis on nutrient requirements, sources, digestion, absorption, metabolism, storage, and function. *Required of majors (D,C).

**NFS 338
NUTRITION AND THE LIFE CYCLE**

3, 3/0; F 91, 92

Prerequisite: NFS 337. The study of nutritional needs and concerns in the various physiological ages of mankind. Application of the principles of nutrition to pregnancy, lactation, infancy, the pre-school and school-age years, adolescence, adulthood, and later maturity, with appropriate discussion of nutrition services and programs available to the different age groups. *Required for majors (D,C).

**NFS 361
PRINCIPLES OF MANAGEMENT IN
FOOD SERVICE**

3, 3/0; Sp 92, 93

The application of management principles in food service systems. *Required of majors (D,F,C).

**NFS 363
QUANTITY FOOD PRODUCTION**

3, 1/4; Sp 92, 93

Prerequisite: NFS 101. Application of food preparation principles to quantity production, menu planning, use and care of institutional equipment, standardized recipes, costs and service to the public. *Required of majors (D,F).

**NFS 364
DINING ROOM SERVICE**

3, 2/2; F 91, 92

Laboratory coat/apron required.

Prerequisite: NFS 361 and NFS 363. A study of the techniques used in dining room activities; students will plan, prepare, and coordinate selected dining functions and will evaluate these events during the course. *Required of majors (F).

**NFS 365
MENU PLANNING**

3, 3/0; Sp 93

Prerequisite: NFS 364. An in-depth study of the principles underlying the menu planning process; role of menu in the relationship to a food operation's success.

**NFS 366
PURCHASING AND COST CONTROL IN
FOOD SYSTEMS**

1, 1/0; Sp 92, 93

Prerequisite: NFS 361. An understanding of the technical operations involved in the procurement, receiving, and storage of food and how these relate to the principles of cost control in a food service operation. Required of majors (D).

**NFS 367
PURCHASING AND FOOD COST
ACCOUNTING**

3, 3/0; 1991-93

Prerequisite: NFS 364 and satisfaction of the college mathematics competency requirement. Standards for selection of food and equipment in food service operations and procedures for storage, receiving, and issuing of products with emphasis on purchasing and cost control. *Required of majors (F).

**NFS 400
FOOD SCIENCE**

4, 3/2; Sp 92, 93

Laboratory coat required.

Prerequisite: CHE 321; NFS 101. A study of the characterization, analysis, and identification of the components of food, the effect of processing on food and the inter-relationship of various aspects of food science to nutrition. *Required of majors (D,C).

NFS 410 FUNDAMENTALS OF NUTRITION EDUCATION

3, 3/0; Sp 93

Prerequisite: NFS 335 or NFS 338. Students will learn about methods and issues relating to the development of nutrition education programs. Particular emphasis will be placed on instructional strategies. Each student will gain experience by preparing a nutrition project aimed at a population group of his or her choice.

NFS 439 NUTRITIONAL BIOCHEMICAL ANALYSIS

1, 0/2

Prerequisite: CHE 322, NFS 337. An introduction to some basic techniques used in the analysis of food, excreta, and blood in nutrition experiments. Experiments will be performed to determine the roles of nutrients such as protein, glucose, cholesterol, or ascorbic acid in human and animal metabolism.

NFS 440 APPLIED NUTRITION, PART I

3, 3/2; F 91, 92

Prerequisite: NFS 337, CHE 322; **co-requisites:** NFS 445, NFS 338. First of three-course sequence examining the interrelationships of physiology, biochemistry, and nutrition as it relates to nutritional practice. Consideration of the role of nutrients at the cellular level with emphasis on intermediary metabolism of carbohydrate, protein, and lipid. Laboratory sessions are given on nutritional assessment including anthropometric, clinical, biochemical and dietary with application to nutritional practice. Role of nutrition in selected conditions or disorders/diseases with emphasis on rationale of nutritional emphasized. For Coordinated Dietetic majors.

NFS 441 DIETARY MODIFICATIONS IN DISEASE

4, 4/0; F 91, 92

Prerequisite: CHE 322, NFS 337. Physiological basis for diet modification, with special emphasis on normal metabolism of nutrients and deviations from normal metabolism in disease. *Required of majors (D).

NFS 442 APPLIED NUTRITION, PART II

4, 3/2; Sp 92, 93

Prerequisite: NFS 440; **corequisite:** NFS 446. Second of a three-course sequence examining the interrelationship of physiology, biochemistry, and nutrition as it relates to nutritional practice. Emphasis will be given to the role of nutrition in treating and preventing diseases/disorders: diabetes mellitus, hypoglycemia, cardiovascular, gastrointestinal, biliary, pancreatic, and musculo-skeletal. For Coordinated Dietetic majors.

NFS 443 APPLIED NUTRITION, PART III

4, 3/2; F 91, 92

Prerequisite: NFS 442; **corequisite:** NFS 447. Third part of a three-course sequence examining the interrelationship of physiology, biochemistry, and nutrition as it relates to nutritional practice. Emphasis will be given to the role of nutrition in treating and preventing diseases/disorders: malnutrition, stress states, nutritional support, renal, cancer, liver, chronic obstructive pulmonary disease, and AIDS. For Coordinated Dietetic majors.

NFS 444 COMMUNITY NUTRITION

3, 2/2

Nutrition as a component of health care is viewed and discussed through the various nutrition services provided for individuals and groups throughout life cycle within a community.

NFS 445 NUTRITIONAL CARE A

3, 0/9; F 91, 92

Clinical dress required.
Prerequisite: NFS 337, 338. This course is the first of a series of nutritional care courses promoting professional development of the student for dietetic practice. The emphasis of study is on basic skills for a professional role and application of normal nutrition knowledge. Development of basic interviewing skills, utilization of dietary tools and techniques, planning and teaching of nutrition education classes and applying normal nutrition knowledge is fostered through observation and practice. Clinical experiences with well individuals throughout the life span provide opportunities for students to learn and evaluate their knowledge and skills. For Coordinated Dietetic majors.

NFS 446 NUTRITIONAL CARE B

4, 0/12; Sp 92, 93

Clinical dress required.
Prerequisite: NFS 445; **corequisite:** NFS 442. The student is assigned patients in an acute care setting to correlate with Applied Nutrition II theory. The student assesses the nutritional status, defines nutritional needs, plans for nutritional care, and implements care on a beginning level after establishing criteria for evaluation of care on selected patients. For Coordinated Dietetic majors.

NFS 447 NUTRITIONAL CARE C

5, 0/15; F 91, 92

Clinical dress required.
Prerequisite: NFS 446; **corequisite:** NFS 443. Opportunities for the student to learn, refine, apply knowledge and skills in providing nutritional care for individuals (adults and children) with acute and chronic nutritional problems or diseases. For Coordinated Dietetic majors.

NFS 448 NUTRITIONAL CARE D

5, 0/15; Sp 92, 93

Prerequisite: NFS 447. The emphasis is placed on the student's ability to provide nutritional care to groups of patients. On an assigned hospital patient unit, the student learns to establish priorities among activities that must be accomplished to provide that care. The student integrates pertinent information regarding an individual patient with theoretical knowledge to develop an appropriate nutritional care plan. The student integrates pertinent information regarding an individual patient with theoretical knowledge to develop an appropriate nutritional care plan. The student makes appropriate use of available resources. By the completion of this course the student is able to provide the appropriate level of nutritional care to patients independently, and in concert with the existing nutrition care system. For Coordinated Dietetic majors.

NFS 449 NUTRITIONAL CARE E (Nutritional Care of Long-Term Patients)

2, 0/6; Sp 92, 93

Clinical dress required.
Prerequisite: NFS 447. Provides a basic understanding of long-term care as a health delivery system. Students participate in providing nutritional care to chronically ill patients in a long-term care facility. For Coordinated Dietetic majors.

NFS 450 SENIOR PRACTICUM IN DIETETICS

4, 0/12; Sp 92, 93

Prerequisite: NFS 447 and approval of clinical faculty. The student, under guidance, plans, implements and evaluates professional practice goals in a selected area of dietetic practice such as an acute-care specialty practice, long-term care, nutrition education, and community service programs. Ability to function under minimal supervision is required. For Coordinated Dietetic majors.

NFS 451 SPECIALTY PRACTICE

1, 0/3; Sp 92, 93

Prerequisite: NFS 447, 443. The student participates in dietetic practice for a selected area. For Coordinated Dietetic majors.

NFS 463 MANAGEMENT SYSTEMS FOR DIETETICS

3, 3/0; Sp 92, 93

Prerequisite: NFS 363, 366. Concepts of quantitative methods of management science applied to decision making concerning policies, design, and procedures for control and evaluation of food service operations. Emphasis on management of human resources and systems concept. *Required of majors (D).

NFS 466 FOOD MANAGER AND PERSONNEL PERSPECTIVE

3, 3/0; Sp 92, 93

Prerequisite: NFS 364. An exploration of forces exerted on the food service manager; methods to create a more effective work environment in the food service industry via manager development and interactions with personnel. *Required of majors (F).

NFS 468 MANAGEMENT OF FOOD SERVICE OPERATIONS

3, 3/0; F 91, 92

Prerequisite: NFS 361. Focuses on food service systems and related subsystems including an in-depth analysis of the procurement process, menu development, food production and delivery, quality standards and financial management. For Coordinated Dietetic majors.

NFS 469 INSTITUTIONAL FOOD SERVICE SYSTEMS

3, 3/0; F 91, 92

Prerequisite: NFS 364. A study of food service organizational systems with emphasis on the institutional area. *Required of majors (F).

NFS 470 LEGAL ASPECTS OF FOOD SYSTEMS MANAGEMENT

3, 3/0; Sp 92, 93

Prerequisite: NFS 364. An analysis and appraisal of the laws which affect a food systems operation. *Required of majors (F).

NFS 471 EXPERIENCES IN HEALTH CARE FOOD SERVICE SYSTEMS

3, 0/9; Su 92, 93

Prerequisite: NFS 468, 361. The student applies knowledge and principles of food systems management in a health care facility. Emphasis is on functions of food service system, human resource management, quality assurance program and cost analysis activities. For Coordinated Dietetic majors.

NFS 485 SEMINAR IN DIETETICS

1, 0/2

Prerequisite: NFS 400; **seniors only.** A consideration of contemporary topics of interest in dietetics via seminar format. Each student will be required to give a formal, oral presentation after reviewing current literature on a specific topic in the field. *Majors only.

NFS 486 FOOD SYSTEMS MANAGEMENT SEMINAR

1, 1/0; 1991-93

Prerequisite: NFS 466, 469, and 470 and senior standing and completion of college writing competency requirement. **Corequisite:** NFS 479. An

investigation of contemporary topics of interest in food systems management hospitality field. Students will be responsible for a seminar presentation. *Required of majors (F).

NFS 495 PROJECT

Variable credit; 1991-93

Prerequisite: Registration with permission of instructor and chairman, using department forms available in Caudell 106A. *Required of majors (C).

NFS 499 INDEPENDENT STUDY

Variable credit; 1991-93

Prerequisite: Registration with permission of instructor and chairman, using department forms available in Caudell 106A.

Performing Arts

Offered by the Performing Arts Department
MYRON H. NADEL, Chairperson
Rockwell Hall 203

PAR 100 THE LIVELY ARTS

3, 3/0; 1991-93 (A)

Through lectures, reading, and live and recorded performances, the student is introduced to the world of the performing arts. Extensive concert attendance required.

PAR 200 PERFORMANCE LABORATORY

1, 0/3; 1991-93 (A)

A laboratory experience in the performing arts chosen through faculty consultation dependent upon the interests and previous experiences (if any) of the student.

PAR 325 THE BUSINESS OF PERFORMING ARTS

3, 3/0; Sp 92, 93 (E)

A comprehensive overview of the numerous aspects of business relating to the performing arts of drama, dance, and music.

PAR/PHI 327 AESTHETICS AND THE ARTS

3, 3/0; 1991-93 (E)

Some major concepts and theories selected from the philosophy of art applied to some major works of art selected each semester from some but not all of the following fields: architecture, dance, drama, film, music, painting, and sculpture.

PAR 350 THE AMERICAN MUSICAL

3, 3/0; 1991-93 (E)

An historical study of the American musical focusing on the inter-relationship between the disciplines of music, theater, and dance.

PAR 495 PROJECT

3, 3/0; 1991-93

PAR 499 INDEPENDENT STUDY

Philosophy and Religious Studies

Offered by the Philosophy and
Religious Studies Department
DR. GEORGE T. HOLE, Chairperson
Bishop Hall 217

PHI 101 INTRODUCTION TO PHILOSOPHY

3, 3/0; 1991-93 (H)

An introduction to the literature and problems of philosophy.

PHI 102 INTRODUCTION TO MORAL AND SOCIAL PHILOSOPHY

3, 3/0; 1991-93 (H)

An examination of various views about how we ought to live and how society should be organized. These views will be considered in the context of discussions about the good life and the good society. Sample questions are: Does virtue lead to happiness? Under what conditions can punishment be justified?

PHI 103 INTRODUCTION TO LOGIC

3, 3/0; 1991-93 (H)

An introduction to practical reasoning and argument relevant to everyday life. Among the subjects covered are uses of language, informal fallacies, elementary deductive arguments, and the nature of scientific thinking.

PHI 104 INTRODUCTION TO THE STUDY OF RELIGION

3, 3/0; 1991-93 (H)

An introduction to the rational study of religion. Religious practices and philosophies will be studied as well as concepts basic to religious experience.

**PHI 105
INTRODUCTION TO CHRISTIAN
THOUGHT**

3, 3/0; 1991-93 (E)

A study of Christianity, the historical Jesus, his teachings, life, and action; primary sources such as the gospels, epistles, as well as excerpts from the Christian Fathers, the Monastics, Mystics, and Reformists will be used to trace the development of this thought to present society.

**PHI 121
INTRODUCTION TO JEWISH THOUGHT**

3, 3/0; F 91, 92 (E)

Basic Judaism; major divisions in Jewish thought and practice; Torah and the problems of practice; the epistemological basis of Jewish sectarianism; God and the problem of knowledge; God and revelation; the good life; Israel and the Nations; Jewish law, practices, and institutions; the world to come; Judaism and Christianity; Judaism and Islam.

**PHI 201
PHILOSOPHIES OF CAPITALISM,
SOCIALISM AND DEMOCRACY**

3, 3/0; F 91, 92 (H)

An examination of various philosophical theories and moral justifications of democracy. Also, a moral evaluation of the values of capitalism and socialism centering upon their implications for democracy.

**PHI 204
PHILOSOPHY OF RELIGION**

3, 3/0; Sp 92, 93 (H)

A critical analysis of the philosophical assumptions that support religious belief. The course will focus on some of the problems arising from philosophical assumptions such as God's existence, omnipotence, omniscience, foreknowledge, and the existence of evil.

**PHI 205
INTRODUCTION TO THE OLD
TESTAMENT**

3, 3/0; F 91 (E)

An introduction to the Old Testament which investigates the backgrounds and the cultures out of which it grew, the philosophies in it, and the kinds of literature it contains.

**PHI 206
INTRODUCTION TO THE NEW
TESTAMENT**

3, 3/0; F 91, 92 (E)

An introduction to the study of the New Testament with emphasis on the literary content, the societies from which it emerged, the structures and varieties of the literatures contemporaneous with it, and the tools necessary for understanding it.

**PHI 207
PHILOSOPHY IN LITERATURE**

3, 3/0; F 91, 92 (H)

An examination of the relation of philosophy to literature through a consideration of the nature

of language, the methods of language analysis, the relation of knowledge to fiction, and the function of myth and metaphor in presenting philosophical ideas. Each semester a number of works of literature are read and analyzed for philosophical content.

**PHI 208
WOMEN AND RELIGION**

3, 3/0; Sp 92, 93 (E)

An introduction to the study of women and religion with special attention to their contributions to religious thought and practice. Barriers and advantages to women introduced by religion in various societies will be discussed.

**PHI 210
EXISTENTIALISM**

3, 3/0; Sp 92, 93 (E)

A consideration of the problem of the meaning and value of life in a context of various philosophical and literary works of religious and nonreligious existentialists, including Kierkegaard, Nietzsche, Heidegger, and Sartre.

**PHI 300
PROBLEMS OF PHILOSOPHY**

3, 3/0; (E)

An analysis of selected problems in epistemology, metaphysics, ethics, and certain movements in contemporary philosophy.

**PHI 301
POLITICAL PHILOSOPHY**

3, 3/0; Sp 92, 93 (E)

Prerequisite: Junior or senior or one course in philosophy. A study of the great modern political philosophers: Hobbes, Locke, Rousseau, Hume, Marx, and Mill. It deals with their answers to the two questions: "Why have government at all?" and "What are the proper forms and limits of government?" The course involves close textual analysis as well as discussion of the important issues of consent, ownership, justice, freedom, and equality.

**PHI 302
PHILOSOPHY OF ART AND BEAUTY**

3, 3/0; 1991-93 (H)

Prerequisite: Junior or senior or one course in philosophy. An analysis of the basic concepts presupposed in any critical examination of the arts, including painting, literature, and music.

**PHI 304
PHILOSOPHY OF LAW**

3, 3/0; 1991-93 (E)

Prerequisite: Junior or senior or one course in philosophy. A general inquiry into the nature and justification of legal institutions, with special emphasis on the problem of legal punishment and on the legal enforcement of morality.

**PHI 305
ANALYTIC PHILOSOPHY I:
PHILOSOPHY OF LANGUAGE**

3, 3/0; Sp 92, 93 (E)

Prerequisite: Junior or senior or one course in

philosophy. An examination of recent works by analytical philosophers in the foundations of language. Such topics as meaning, reference, and necessity will be covered.

**PHI 306
WRITINGS OF JOHN**

3, 3/0; Sp 92, 93 (E)

Prerequisite: Junior or senior or one course in philosophy. The historical and literary backgrounds of St. John's Gospel, the letters of John, and the Book of Revelation will be studied. Emphasis will be placed on the content of the Gospel itself, its major theological themes, and its distinctive contributions to Christian thought.

**PHI 307
BEGINNING SYMBOLIC LOGIC**

3, 3/0; 1991-93 (H)

Prerequisite: Junior or senior or one course in philosophy. First order logic as a system for understanding argumentation in ordinary language; the structure and use of truth-functional logic and quantification theory, including identity, will be covered.

**PHI 308
PHILOSOPHY OF LOVE AND SEX**

3, 3/0; 1991-93 (E)

Prerequisite: Junior or senior or one course in philosophy. An examination of classic and contemporary philosophic theories of the nature, value, and purpose of human love and sexuality, including such thinkers as Plato, Aquinas, Ortega, Sartre, and Kierkegaard. The course will also focus on the nature and validity of the value judgments implicit in the concepts of "perversion," "good sex," and "true love," as well as on the problems encountered in finding clear definitions for such terms. Certain moral arguments found in such areas as abortion and premarital intercourse will be considered.

**PHI 309
KNOWLEDGE AND TRUTH**

3, 3/0; Sp 92 (E)

Prerequisite: Junior or senior or one course in philosophy. Functional analysis of the central concepts of the general logic of scientific activity as the study of the foundations and limits of knowledge and truth are examined. The problem of knowledge, belief, appearances, sense data, and traditional theories of perception will be studied through the literature of philosophy of science and theories of knowledge.

**PHI 310
THE HISTORY OF ETHICS**

3, 3/0; 1991-93 (H)

Prerequisite: Junior or senior or one course in philosophy. An historical study of the great western writers on ethics as they examine questions about self-interest, freedom, duty, and happiness in regard to the moral life. Writings will be selected from the texts of Plato, Aristotle, Kant, Mill, Hume, and others.

**PHI 312
ANALYTIC PHILOSOPHY II:
PHILOSOPHY OF MIND**

3, 3/0; Sp 92

Prerequisite: Junior or senior or one course in philosophy. Investigation of recent work by analytic philosophers in the philosophy of mind. Among questions to be considered: What validates an inference from bodily states to mental ones, or vice versa? What are the criteria for personal identity? Are we machines that think?

**PHI 314
CONTEMPORARY ETHICAL THEORY**

3, 3/0; 1991-93 (E)

Prerequisite: Junior or senior or one course in philosophy. An historical and analytical study of important developments in twentieth century ethical theory; to include Naturalism, Non-cognitivism, Prescriptivism, Rationalism, and the ideas of Rawls, Nozick, Gauthier, and Gewirth.

**PHI 315
EARLY MODERN PHILOSOPHY**

3, 3/0; F 92 (E)

Prerequisite: Junior or senior or one course in philosophy. A study of the philosophic systems of the 14th, 15th, and 16th centuries and their influence on the emergence of twentieth century technology and science. The shift from metaphysical perspectives of a qualitative world to a natural science based on quantitative analysis of the world as physical process. The emergence of the twentieth century challenged to deal anew with the qualitative perspectives of the human world, transformed by technology through quantitative analytical method and the industrialization which emerged in the early modern period.

**PHI 317
THE HISTORY OF PHILOSOPHY I:
THE GREEKS**

3, 3/0; F 91, 92 (H)

Prerequisite: Junior or senior or one course in philosophy. Readings in selected original texts of the leading philosophers of ancient Greece, specifically Heraclitus, Parmenides, Plato, Socrates, and Aristotle. The course will concentrate on developing the original visionary contributions of each thinker to the intellectual development of western thought.

**PHI 318
THE HISTORY OF PHILOSOPHY II:
THE 17th and 18th CENTURIES**

3, 3/0; Sp 92, 93 (E)

Prerequisite: Junior or senior or one course in philosophy. Readings in selected original texts from Hobbes, Locke, Berkeley, Hume, Descartes, and Kant. The course will concentrate on elucidating the original visionary contribution of each thinker to the intellectual development of western thought. Learning how to read a philosophical work will be a key part of what is required.

**PHI 319
MIEVEAL PHILOSOPHY**

3, 3/0; F 91 (E)

Prerequisite: Junior or senior or one course in philosophy. An examination of some central philosophical ideas developed by medieval philosophers and the relationships of those ideas to their use and development by modern and contemporary philosophers. Emphasis will be placed upon the original writings of such philosophers as Augustine, Boethius, Damian, Anselm, Bonaventure, and Aquinas.

**PHI 321
WORLD RELIGIONS**

3, 3/0; 1991-93 (H)

Prerequisite: Junior or senior or one course in philosophy. A study of various religions such as Hinduism, Buddhism, Taoism, Shinto, Confucianism, Judaism, Christianity, and Islam, together with Native American, African, Samoan, and Aboriginal Australian religion.

**PHI 323
MORAL ISSUES**

3, 3/0; 1991-93 (H)

Prerequisite: Junior or senior or one course in philosophy. An examination of contemporary moral issues. Several moral theories will be analyzed in order to provide a foundation for examining specific moral problems. Moral issues related to genetic engineering, war and peace, discrimination, censorship, etc., will be examined.

**PHI 324
ZEN BUDDHISM**

3, 3/0; Sp 92 (E)

Prerequisite: Junior or senior or one course in philosophy. An examination of Zen as a paradoxical method by means of which a person's suffering of existence is transformed into everyday enlightenment. Contemporary practices of Zen will be studied as well as its historical origins in Buddha's "complete and unexcelled" enlightenment and in Lao Tzu's living in harmony with the Tao.

**PHI 325
PHILOSOPHY OF FUTURE MAN**

3, 3/0; 1991-93 (E)

Prerequisite: Junior or senior or one course in philosophy. This course will attempt to help students anticipate change by developing future-oriented attitudes. The course will explore ideas, images, and models of the human future and allow students to integrate their studies from other departments.

**PHI 327
AESTHETICS AND THE ARTS**

3, 3/0; Sp 92, 93 (E)

Prerequisite: Junior or senior or one course in philosophy. Some major concepts and theories selected from the philosophy of art applied to some major works of art selected each semester from some but not all of the following fields: architecture, dance, drama, film, music, painting, and sculpture.

**PHI 328
BUSINESS AND ETHICS**

3, 3/0; Sp 92, 93 (E)

Prerequisite: Junior or senior or one course in philosophy. An examination of moral problems many businessmen face in their working experience. Several moral theories will be analyzed in order to provide a theoretical foundation for examining specific moral problems. Moral problems related to advertising, ecology and pollution, the pricing of goods and services, bribery, etc., will be examined.

**PHI 329
CONTEMPORARY CHRISTIAN
THOUGHT**

3, 3/0; Sp 92, 93 (E)

Prerequisite: Junior or senior or one course in philosophy. An examination of worship, ministry, and theology of various Christian traditions in the context in which they developed from the 16th to the 20th centuries. The course will also consider some contemporary challenges to Christianity.

**PHI 331
RELIGION AND MEDIA**

3, 3/0; Sp 92, 93 (E)

Prerequisite: Junior or senior or one course in philosophy. Religious issues and events will be discussed from the viewpoint of print journalism and broadcast media. Sectarian newswriting and media presentations as well as techniques and sources for interviews will be analyzed.

**PHI 332
MYSTICISM**

3, 3/0; Sp 92 (E)

Prerequisite: Junior or senior or one course in philosophy. An introduction to some of the major mystical disciplines of the world and their underlying philosophies, such as Zen, Christian, Jewish, Sufi, European, Far Eastern, African, and Native American mysticism.

**PHI 350
HOLOCAUST**

3, 3/0; Sp 92 (E)

Prerequisite: Junior or senior or one course in philosophy. This course will examine the facts of the Holocaust (Europe 1933-45) against the background of Jewish religious thought and religious thought in general, with special attention to how the Holocaust has affected present religious and philosophical thinking.

**PHI 401
PROBLEM IN PHILOSOPHY SEMINAR**

3, 3/0

Prerequisite: Junior or senior or one course in philosophy. Intensive analysis of selected topics in philosophy.

**PHI 402
SEMINAR IN HISTORY OF PHILOSOPHY**

3, 3/0; 1991-93

Prerequisite: Junior or senior or one course in philosophy. Intensive study of figures and peri-

ods in the history of western and eastern philosophy.

PHI 488 INTERNSHIP

1-3; Sp 92

Prerequisite: Junior or senior standing, 2.5 GPA or higher, with at least one-third of the philosophy major or religious studies minor completed. Internship programs provide students with supervised field experiences (experiential learning). An internship shall consist of supervised on-site activities for qualified students and an academic component consisting of training sessions, seminars, and reports.

PHI 495 PROJECT

PHI 499 INDEPENDENT STUDY

Physics

Offered by the Physics Department
DR. JAMES WELLS, Chairperson
Science Building 271B

The Physics Department offers courses of general interest such as PHY 100, PHY 103 and PHY 200, as well as technical courses for students who plan to major in all sciences.

PHY 100 PHYSICS FOR NON-SCIENCE MAJORS

3, 3/0; 1991-93 (M)

A one-semester, non-mathematical consideration of historical world views in physics and their relevance to society. May not be substituted for PHY 101, 102, 111, 112. *Not open to majors.

PHY 101 GENERAL PHYSICS

3, 2/2; 1991-93 (M)

Algebra based study of mechanics, heat, wave motion, and sound; selection of laboratory experiences based on lecture material. *Not open to majors.

PHY 102 GENERAL PHYSICS

3, 2/2; 1991-93 (M)

Prerequisite: PHY 101. Algebra based study of light, electricity, and magnetism, circuits and optics; selection of laboratory experiences based on lecture material. *Not open to majors.

PHY 103 UNDERSTANDING SOUND

3, 3/0; 1991-93 (M)

A one-semester, non-mathematical consideration of sound and noise. Discussion of musical sounds, noise pollution, fidelity of sound repro-

duction, and other topics related to the quality of the audible environment. *Designed for non-science majors. May not be substituted for PHY 101, 102, 111, 112. *Not open to majors.

PHY 107 APPLIED PHYSICS

3, 2/2; F 91, 92 (E)

An introduction to selected principles and laboratory measurements basic to technology. Topics include mechanics, fluid properties, thermodynamics, electric and magnetic fields, circuits, and optics. *Not open to physics majors, and may not be substituted for PHY 101, 102, 111, 112.

PHY 111 UNIVERSITY PHYSICS I

4, 3/2; 1991-93 (M)

A calculus-based treatment for science majors of particle mechanics, dynamics, rotational motion and equilibrium concepts, with an introduction to gravitation and oscillations. Includes laboratory. *Required for majors.

PHY 112 UNIVERSITY PHYSICS II

4, 3/2; 1991-93 (M)

Prerequisite: PHY 111 or equivalent. A continuation of PHY 111; a calculus-based introduction to heat, electricity, magnetism, and optics. Includes laboratory. *Required for majors.

PHY 200 CREATORS OF THE ATOMIC AGE

3, 3/0; Sp 91, 92 (E)

Conceptual analysis of ideas and contributions of the physicists related to the development of nuclear energy and weapons. The what, how, and why of both military and civilian applications. Designed for non-science majors and includes multimedia presentations.

PHY 213 UNIVERSITY PHYSICS III

3, 3/0; F 91, 92, 93 (E)

Prerequisite: PHY 112 or equivalent. A continuation of PHY 111 and 112; a calculus-based introduction to physical optics, kinetic theory, classical wave motion, and interference phenomena; introduction to special relativity. *Required for B.S. program.

PHY 303 HEAT AND THERMODYNAMICS

3, 3/0; F 92, 93

Prerequisite: PHY 111-112 or equivalent, and calculus. First, Second Laws, entropy, chemical potential, enthalpy, free energy, Gibbs function, Maxwell relations, phase transitions and statistical mechanics of classical and quantum distributions. *Required for B.S. program.

PHY 305 MODERN ATOMIC PHYSICS

4, 3/0; Sp 91, 92, 93

Prerequisite: PHY 111-112 or equivalent, and calculus. Wave particle duality and atomic spec-

tra and structure. Introductory concepts of quantum theory; selected topics in nuclear, atomic, and solid state physics. *Required for all majors.

PHY 308 OPTICS

3, 3/0; F 91, 92

Prerequisite: PHY 111-112 or equivalent, and calculus. Fundamentals of geometrical and physical optics, the nature and propagation of light; Fraunhofer and Fresnel diffraction, polarization; and single, double slit and grating diffraction, lasers and holography.

PHY 310 INTERMEDIATE LABORATORY

2, 0/4; F 91, 92

Prerequisite: PHY 111-112. **Corequisite:** PHY 213. Theory of data presentation in laboratory, including error propagation, statistics, and graphing techniques applied to intermediate mechanics, thermodynamics, optics, and electricity and magnetism experiments.

PHY 320 INTRODUCTION TO THEORETICAL PHYSICS

4, 4/0; Sp 91, 92

Prerequisite: PHY 111-112 plus MAT 261. Introduction to advanced mathematical applications; partial differential equations, complex numbers, special functions, boundary value problems, orthogonal functions and expansions, matrices, and integral transform techniques. *Required of all B.S. majors.

PHY 325 ELECTRONICS

3, 0/6; F 91, 92

Prerequisite: PHY 320, and junior standing. Principles of filters and resonant circuits, semiconductor devices and integrated circuit chips. Analog and digital lab work included. *Required for B.S. program.

PHY 403 X-RAYS

3, 3/0; Sp 91, 92

Prerequisite: PHY 111-112 or equivalent. Production and measurement of X-rays; absorption and wave properties; Bragg's Law and crystal lattices; emission and absorption spectra; scattering.

PHY 406 INTRODUCTION TO QUANTUM PHYSICS

3, 3/0; Sp 91, 92

Prerequisite: PHY 305, PHY 320, or equivalent. Postulates of quantum mechanics with selected examples includes uncertainty principle, operator formalisms, Heisenberg and Schrodinger representations, angular momentum, and spin. *Required for B.S. program.

PHY 408 NUCLEAR PHYSICS

3, 3/0; Sp 92

Prerequisite: PHY 305, PHY 320 or equivalent. The basic properties of nucleons and nuclei, radioactivity, detectors, the interaction of nuclear radiation with matter, nuclear reactions, nuclear models and gamma emission, and an introduction to high-energy physics.

PHY 410 ADVANCED PHYSICS LABORATORY

2, 0/4; 1991-93

Prerequisite: PHY 305 or equivalent. Selected experiments chosen from the area of mechanics, heat, sound, light, electricity and magnetism, and modern physics. *Required of B.S. majors.

PHY 411 INTRODUCTION TO SOLID STATE PHYSICS

3, 3/0; Sp 91

Prerequisite: PHY 320 or equivalent. Theory of the structure of solids; unit cell, lattice dynamics and phonons, specific heats, band theory, superconductivity, electron dynamics and statistics.

PHY 412 PHYSICS SEMINAR

1, 1/0; Sp 91, 92

Prerequisite: 15 semester hours credit in Physics and MAT 162 or the equivalent. Readings, reports and discussion of current job opportunities and/or problems and research in Physics. *This course may be taken three times.

PHY 425 CLASSICAL MECHANICS

4, 4/0; F 91, 92

Prerequisite: PHY 320 or equivalent. Vectorial particle mechanics in one, two, and three dimensions; rigid body motions in three dimensions; motion in central force fields; moving reference frames, forced harmonic oscillators and introduction to mechanics in Lagrangian and Hamiltonian formulation. *Required for all majors.

PHY 430 ELECTRICITY AND MAGNETISM I

3, 3/0; F 91, 92

Prerequisite: PHY 320, MAT 263 or equivalent. Coulomb forces, electric fields and potentials. LaPlace Equation, boundary value problems and dielectrics. Multipole distributions and magnetic induction, with an introduction to Maxwell's equations. *Required of B.S. majors.

PHY 431

3, 3/0; Sp 91, 92

Prerequisite: PHY 430. This course is a continuation of PHY 430; vector potentials, Faraday's Law, magnetism, electromagnetic wave propagation and radiation.

PHY 450 SUPERVISED PHYSICS LABORATORY TEACHING

1-2, 0/2-4; 1991-93

Prerequisite: Junior or senior standing in Physics, 3.25 GPA in major, 3.0 GPA overall. **Approval of Physics faculty based on academic performance, maturity, and potential.** A supervised in classroom introduction to college laboratory teaching techniques and procedures for selected, qualified upper division physics majors.

PHY 495 PROJECT

1-3, 0/2-6; 1991-93

Prerequisite: Approval of a faculty sponsor must be secured prior to registration. Physics and physics-related areas.

PHY 499 INDEPENDENT STUDY

3-6, 0/6-12; 1991-93

Prerequisite: Approval of a faculty sponsor must be secured prior to registration. Physics and physics-related areas.

Planning

Offered by the Geography and Planning
Department
ELBRIDGE A. RENNING JR., Chairperson
Classroom Building A213

PLN 315 INTRODUCTION TO COMMUNITY PLANNING

3, 3/0; 1991-93 (E)

Introduction to various aspects of community planning, historical survey, origin and growth of city planning movement; role of the various levels of government in community planning; and factors currently involved in community planning theory and practice. *Required of urban-regional analysis and planning majors.

PLN 380 NEIGHBORHOOD REVITALIZATION

3, 3/0; Sp 92

Prerequisite: PLN 315 or permission of instructor. A study of neighborhood housing conditions, population displacements, gentrification, and historic preservation. Past, present and potential housing programs from various government agencies will be analyzed.

PLN 412 COMMUNITY PLANNING AGENCIES & ISSUES

3, 3/0; F 91, 92

Prerequisite: PLN 315. The role of the professional planner in a range of government and private agencies; introduction to the tools

needed by the professional planner; discussion of planning techniques and issues. Emphasis is on professional ethics and the functions of staff in a variety of planning agencies. *Required of urban-regional analysis and planning majors.

PLN 415 SEMINAR IN PLANNING

3, 3/0; Sp 93

Prerequisite: Permission of instructor. Investigation, discussion and research on topics of current interest in planning or economic development. Techniques and methods of analysis used in the planning process. Topics will vary from semester to semester.

PLN 488 INTERNSHIP

Hours vary with credit.

Prerequisite: Junior or senior and PLN 315. Internships provide students with guided and supervised field experience which complement the academic program. Students must have at least a 2.5 GPA and a background of courses or experiences within the area of interest. Approval of the placement must be obtained from the student's adviser and the department chair.

PLN 495 PROJECT

PLN 499 INDEPENDENT STUDY

Political Science

Offered by the Political Science Department
DR. ABDUL J. RAOOF, Chairperson
Classroom Building 218

PSC 101 INTRODUCTION TO GOVERNMENT AND POLITICS

3, 3/0; 1991-93 (S)

Survey of the nature and the scope of political science; ideological foundations of politics; comparative study of the governments of constitutional, totalitarian and developing systems; the dynamics of politics and functions of political institutions.

PSC 102 INTRODUCTION TO AMERICAN GOVERNMENT

3, 3/0; 1991-93 (S)

The Constitution and its principles; functions and roles of the federal executive, legislative and judicial branches; citizen participation; problems of individual liberty and governmental authority; problems of national security, economic regulation and social welfare. *PSC 102 required of Secondary Social Studies majors.

**PSC 103
GREAT POLITICAL ISSUES**

3, 3/0; 1991-93 (S)
Examination of some of the great political issues such as ideology, freedom, equality, political obligation, civil disobedience, law, and morality.

**PSC 210
THE AMERICAN PRESIDENCY**

3, 3/0; F 91, 92 (E)
Examination of the contemporary presidency; constitutional roles; political powers and the factor of personality; the executive and other political and social institutions; problems and prospects for the Presidency in the last decade of the 20th century.

**PSC 215
URBAN GOVERNMENT**

3, 3/0; Sp 92, 93 (S)
An introduction to the political economy of urban areas in U.S. Focus on explanation of current urban public policies through study of such topics as public vs. private political power; bureaucracy; citizen organization.

**PSC 218
AFRICAN-AMERICAN POLITICAL CULTURE**

3, 3/0; F 91, 92 (S)
An urgent evaluation and critical reevaluation of political beliefs, attitudes, and practices that pertain to African-American politics in the cultural context; focus on the causality and linkage inherent on the reciprocal relationship between African-Americans and the American political system.

**PSC 220
THE DEVELOPMENT OF AMERICAN CONSTITUTIONAL LAW**

3, 3/0; Sp 92, 93 (E)
Foundations of American constitutionalism; judicial review and its use through history; the Supreme Court in interaction with Congress, president and states; evolving concepts of federalism; development of civil rights and liberties policies.

**PSC 225
WOMEN AND AMERICAN POLITICS**

3, 3/0; F 91, 92 (S)
Defines influences on female participation in the American political system; analyzes the political behavior of American women; and examines the implications of these influences and behaviors.

**PSC 230
INTERNATIONAL RELATIONS**

3, 3/0; F 91, 92 (S)
Elements of national power, religion and global balance of power and collective security systems, instruments of international politics-diplomacy, propaganda and war, forces of nationalism.

**PSC 240
EUROPEAN POLITICAL SYSTEMS**

3, 3/0; Sp 92, 93 (S)
Examination of the structure and dynamics of politics in the major European countries with emphasis on political behavior and political processes of decision making.

**PSC 300
POLITICAL ANALYSIS**

3, 3/0; 1991-93
Systematic study of the design, execution, and interpretation of research in the several fields of political science; emergence and development of the discipline; common assumptions and controversies. *Required of all political science majors.

**PSC 306
POLITICS OF ENERGY**

3, 3/0; offered based on staff availability (E)
Study of the energy situation in both the U.S. and the international community from political viewpoints; analyze the U.S. energy policy and process and strategies within their economic, physical, and political settings; and examine the issues of conflict and cooperation among nations over the rational utilization of energy resources.

**PSC 307
POLITICAL ALIENATION**

3, 3/0; offered based on staff availability
Deals with political disillusionment and alienation as the combination of several distinct factors; distrust of government and politicians, a sense of the meaninglessness of electoral politics and political choices or personal powerlessness to influence the course of politics. The students are encouraged to sort out these feelings, to comprehend their extent and to locate the sources and probable effects.

**PSC 309
POLITICS OF INTERNATIONAL BUSINESS**

3, 3/0; Sp 92, 93 (E)
A study of international economy of business. Viewed from international relations, the course focuses on trade, monetary, and technology policies of countries; transfer of capital and human resources; international organizations of economic policies.

**PSC 310
AMERICAN POLITICS AND POLITICAL PARTIES**

3, 3/0; F 91, 92 (E)
The American two-party system; suffrage rules and the electoral process; shifting patterns of organization, nomination, and finance; the role of party in government; and parties in the future of American politics.

**PSC 311
PRESSURE POLITICS**

3, 3/0; F 92 (E)
Introduction to the political process as practiced

in democratic systems; the methods and operations of various interest groups; and the roles played by citizens groups involved.

**PSC 312
LEGISLATIVE PROCESS**

3, 3/0; Sp 92, 93 (E)
An examination of the state and national legislatures with emphasis on the determinants of legislative decision-making, the committee system, and the policy outputs of the legislative branch.

**PSC 315
STATE AND LOCAL GOVERNMENT POLITICS**

3, 3/0; 1991-93 (E)
Functions of state and local governments; constitutional and governmental structures; inter-governmental relations; decision-making; effects of metropolitanization; contemporary issues and problems; future trends and prospects.

**PSC 316
URBAN ETHNIC POLITICS**

3, 3/0; F 91, 92 (E)
Study of the political life of ethnic groups in urban areas of the United States. Includes consideration of a number of both white immigrant and "third world" groups including Irish, Italian, Polish, Black, and Native American. Emphasis on contemporary patterns of organization, leadership, strategy and participation, and on relations among ethnic groups, and between ethnic groups and both local and national government.

**PSC 320/CRJ 317
U.S. CONSTITUTION AND CIVIL LIBERTIES**

3, 3/0; F 91, 92 (E)
In-depth study of the legal principles influencing the origin and development of our criminal laws and the way these principles have evolved by court interpretation to accommodate social change and attitudes over the years. The Bill of Rights and "due process" clause of the United States Constitution will be the focal point of this course. *Alternate course selection to PSC 420, Contemporary Issues in American Constitutional Law.

**PSC 325
POLITICS OF WELFARE**

3, 3/0; Sp 92, 93 (E)
To provide the student with knowledge and insight into America's mixed system of capitalism and socialism; to introduce the student to many of our major welfare programs including social security, veterans benefits, tax expenditures, food stamps, subsidized education, military retired pay, etc.; to analyze the costs and benefits of America's welfare system.

**PSC 326
POLITICS AND MEDIA**

3, 3/0; 1991-93 (E)
Examines the relationship between the mass

media and contemporary American politics. It analyzes the impact of the media on voting behavior and focuses on the role of the media in the presidential and congressional elections.

**PSC 327
PRACTICAL POLITICS**

3, 3/0; offered based on staff availability
A non-classroom structured activity which allows students to receive college credit while participating in a meaningful way in politics. Activities include participation in quasi-political organizing as well as in campaigns and elections. Students who register for this course should first get the permission of the instructor.

**PSC 330
AMERICAN FOREIGN POLICY**

3, 3/0; Sp 92, 93 (E)
Analysis of basic ideas that shape American foreign policy; isolationism, overinvolvement and neo-isolationism; domestic and international pressures; cold war, peaceful coexistence and detente; major area problems.

**PSC 335
INTERNATIONAL RELATIONS OF THE MIDDLE EAST**

3, 3/0; F 91, 92 (E)
Study of the patterns of interaction within the Middle East and with other states; problems of security and peace in the region; ideology, nationalism, and economic interests as factors influencing the behavior of the states.

**PSC 340
POLITICS OF DEVELOPING COUNTRIES**

3, 3/0; F 91, 92 (SS)
Comparative analysis of the major problems of the developing countries; political process and its relation to societal transformation; patterns of political process; the role of the army and bureaucracy in political development; problems of nation-building and democracy in developing countries.

**PSC 345/HIS 313
POLITICS AND HISTORY OF THE MIDDLE EAST**

3, 3/0; Sp 92, 93 (S)
Analysis of the geographic, cultural, and political settings; historical development since the 19th century; the disintegration of the Ottoman Empire and western colonialism; nationalism, independence and turmoil, Arab-Israeli question, oil, its impact and problems; great power and inter-area politics.

**PSC 348
GOVERNMENT AND POLITICS OF THE FAR EAST**

3, 3/0; offered based on staff availability (S)
An introductory survey of the governmental institutions and political processes of contemporary China and Japan. Major emphasis is placed on Japanese democratic reform since World War II and Chinese communist revolution, as well as the governmental structures,

party systems, and foreign policies of the countries concerned.

**PSC 350
INTRODUCTION TO LEGAL THOUGHT**

3, 3/0; 1991-93 (E)
An examination of the main concepts, theories, and issues that constitute the framework of legal thought (such as the nature of law, the nature of legal reasoning, the limits of law, and the justification of punishment).

**PSC 351
HISTORY OF POLITICAL THEORY I**

3, 3/0; Sp 93 (E)
An exposition and critical analysis of the main problems of political theory by an examination of the writings of major political thinkers from Plato to Aquinas.

**PSC 352
HISTORY OF POLITICAL THEORY II**

3, 3/0; Sp 92 (E)
An exposition and critical analysis of the main problems of political theory by an examination of the writings of major political thinkers from Machiavelli to Marx.

**PSC 355
AMERICAN POLITICAL THOUGHT**

3, 3/0; Sp 92, 93 (E)
This is a survey of American political thought from colonial to contemporary time. The main emphasis will be on: the development of political values and beliefs that have persisted; how interpretations and applications of these values and beliefs have changed through different periods; and the roots of contemporary American political culture and ideology.

**PSC 360
PUBLIC ADMINISTRATION**

3, 3/0; F 91, 92 (E)
Introduction to the study of public administration; analysis of the relations of government administration to its social, economic, and political settings; the role of public administration in formulating public policy; organization and management in public service; personnel and financial management.

**PSC 364
AMERICAN PUBLIC POLICY**

3, 3/0; Sp 92, 93 (E)
An examination of governmental policy with emphasis on the sources of policy, the policy-making process in national-level political institutions, and the social impact of policy choices.

**PSC 368
COMPARATIVE PUBLIC ADMINISTRATION**

3, 3/0; Sp 92, 93 (S)
An introduction to the cross-cultural, cross-national or cross-institutional study of public administration institutions and practices. Particular emphasis is given to the administrative systems of European countries and to the pro-

cesses of administrative change in developing countries. The evolution of bureaucracy is also explored.

**PSC 389
TOPICS IN POLITICAL SCIENCE**

3, 3/0; offered based on staff availability
In-depth study of current issues of substantial political significance. Several sections may be offered each semester. Topics will vary from semester to semester. Recent examples: public personnel administration, defense policy, computers and political science. Student should consult current course listings for specific offering.

**PSC 410/SOC 406
POLITICAL BEHAVIOR AND PUBLIC OPINION**

3, 3/0; F 91, 92
Conditions of democratic political behavior; opinion formulation in democratic systems; voting behavior and party affiliation in the United States; political behavior in governmental institutions; political behavior in selected western European societies.

**PSC 420
CONTEMPORARY ISSUES IN AMERICAN CONSTITUTIONAL LAW**

3, 3/0; Sp 92
Examination of recent developments in American constitutional law; comparison of the Warren, Burger, and Rehnquist Courts; focus upon First Amendment liberties and rights; the rights of the accused and criminal due process; equal protection and black Americans; reapportionment and representation; the president and national security.

**PSC 450
CONTEMPORARY POLITICAL THOUGHT**

3, 3/0; S 92, 93
An exposition and critical analysis of the central problems of political philosophy (such as equality, freedom, justice, and political obligation) as discussed by contemporary philosophers.

**PSC 470
HONORS SEMINAR IN POLITICAL SCIENCE**

3, 3/0; offered based on staff availability
Prerequisite: Junior or senior with 3.00 average. Selected topics in political science will be examined and analyzed in depth.

**PSC 495
PROJECT****PSC 497
WASHINGTON SEMESTER**

(Daily) 16, 16/0; 1991-93
Each semester two students from this college are chosen to participate in the State University of New York's Washington Semester Program. The program involves a full-time internship in Washington, D.C. Selection is based on college-wide competition. Interested students should

contact the department chairman for information and appropriate application forms.

PSC 499 **INDEPENDENT STUDY**

Psychology

Offered by the Psychology Department
DR. JERRY F. CATALDO, Chairperson
Classroom Building C312

The Psychology Department offers B.A. and B.S. degrees. Psychology 101 is a prerequisite for all other psychology courses.

PSY 101 **INTRODUCTION TO PSYCHOLOGY**

3, 3/0; 1991-93 (S)

The objective of this course is to introduce students to the scientific study of psychology. Topics covered include: research methodology, genetic and environmental influences on the development of behavior, perception, learning, motivation and emotion, personality, social processes, and psychopathology.

PSY 205 **INDEPENDENT READING**

1, 1/0; 1991-93

Prerequisite: PSY 101 and permission of the instructor. Supervised readings project on a specific topic in psychology to be chosen by mutual agreement of student and faculty supervisor at the time of registration.

PSY 304 **PSYCHOLOGY OF LEARNING**

3, 2/2; 1991-93 (S)

Prerequisite: PSY 101. Major emphasis in this course will be on the scientific analysis of learning rather than on the application of learning principles. Topics covered include: psychological correlates of learning and memory, empirical laws of learning derived from research on humans and animals, and theoretical explanations of the learning process.

PSY 306 **STATISTICS IN PSYCHOLOGICAL RESEARCH**

3, 2/2; 1991-93 (E)

Prerequisite: PSY 101 and completion of the Basic Mathematics Requirement. Intensive study of the major descriptive and inferential statistics used in psychological research. Practice in the use of statistical tests of significance. Topics covered include: graphic and tabular presentation of data, measures of central tendency and dispersion, probability theory, t-tests, analysis of variance, chi-square, correlation techniques, and experimental design. *Required for psychology majors.

PSY 308 **BASIC CONCEPTS OF PERCEPTION**

3, 3/0; 1991-93 (S)

Prerequisite: PSY 101. This course covers the major facets of perceptual functioning from sensory processes to complex perceptual integrative processes. Emphasis on basic concepts such as physiological correlates of perception, empirical laws and principles, theoretical explanations of perceptual processes and their determinants.

PSY 310 **BEHAVIOR MODIFICATION I**

3, 3/0; Sp 92, 93 (E)

Prerequisite: PSY 101. This course covers major learning principles as applied in behavior-modification techniques. The premises, ethics, and assessment of behavioral methods of behavior control are studied. Topics covered include: reinforcement, extinction, punishment, modeling, and cognitive change as methods of changing human behavior.

PSY 311 **PERSONALITY: THEORY AND RESEARCH**

3, 3/0; 1991-93 (S)

Prerequisite: PSY 101. This course will examine and evaluate major theories and related research on personality development and functioning. The focus is on normal personality. Topics covered include: problems of theory development and evaluation, major theoretical approaches, and personality determinants. Empirical research will be discussed.

PSY 321 **COMPARATIVE ANIMAL BEHAVIOR**

3, 3/0; Sp 92, 93 (E)

Prerequisite: PSY 101. The study of animal behavior as viewed from a psychological perspective. Emphasis is placed on current theoretical models of animal behavior. Topics covered include: the evolution and adaptive functions of sexuality, predator-prey interactions, evolution of social organization, territoriality, dominance, aggression, learning, and instinct.

PSY 325 **SOCIAL BEHAVIOR**

3, 3/0; 1991-93 (S)

Prerequisite: PSY 101. A theoretical and empirical examination of the role of social factors in the individual's behavior. Topics covered include: theory and research on attitude formation and change, affiliation, attribution process, interpersonal attraction, small group dynamics, aggression, conformity, leadership, and competition.

PSY 327 **ADULT DEVELOPMENT AND AGING I**

3, 3/0; 1991-93 (E)

Prerequisite: PSY 101. An introduction to how humans develop and change throughout early, middle, and late adulthood. Current psychological theory and empirical evidence concerning patterns of aging, problems of aging, and bene-

fits of aging will be considered. Topics covered include: social, psychological, and biological determinants of adult development, cognitive change, personality change, family relations, life satisfaction, and the stigma of old age.

PSY 340 **COGNITIVE PSYCHOLOGY**

3, 3/0; F 91, 92 (S)

Prerequisite: PSY 101. A basic introduction and survey of the research and theoretical issues in cognitive psychology. Topics covered include: history of memory and thought, acquisition of information, attention, short-term and long-term memory, pattern recognition, speech perception, space perception, and higher-order mental processes.

PSY 355 **LIFE-SPAN DEVELOPMENTAL PSYCHOLOGY**

3, 3/0; 1991-93 (S)

Prerequisite: PSY 101. Examines the psychological, biological and social factors that affect psychological development throughout the life-span from the prenatal infant to the elderly adult. Topics covered include: cognitive development, language acquisition, formation of sex roles, development of personality, emotion, morality, and the stages of the life-span.

PSY 365 **INDUSTRIAL PSYCHOLOGY**

3, 3/0; 1991-93 (E)

Prerequisite: PSY 101. A study of the theoretical and social functions of industrial psychology emphasizing personnel selection, classification, placement, training, merit review, and development. Work motivation, job satisfaction, factors which influence productivity, leadership, and organizational theory are also considered.

PSY 367 **BEHAVIOR IN ORGANIZATIONS**

3, 3/0; 1991-93 (S)

Prerequisite: PSY 101. The course examines organizational behavior from a psychological perspective. Emphasis is placed on theories and methods in organizational behavior and relevant research. Topics covered include: issues related to behavioral research in the organizational setting, motivation, leadership, group dynamics, communication, and organization analysis and development.

PSY 370 **ENVIRONMENTAL PSYCHOLOGY I**

3, 3/0; 1991-93 (E)

Prerequisite: PSY 101. An introduction to the study of environmental psychology. The course examines major features of the role of physical environment on behavior. Topics covered include: theories of physical environment-behavior relations, research methods, territoriality, privacy, crowding, environmental perception and attitudes, pollution and behavior, buildings and behavior.

PSY 382 **PSYCHOLOGY OF THE CONSUMER**

3, 3/0; F 92 (E)

Prerequisite: PSY 101 plus 42 additional college credits. An introduction to the field of consumer behavior from a psychological point of view. This course will emphasize psychological theory and measurement techniques as tools for understanding consumer behavior. Relevant material from learning, perception, attitude formation, personality, and motivation as they describe consumer decision-making will be presented.

PSY 383 **THE PSYCHOLOGY OF HUMAN SEXUAL BEHAVIOR**

3, 3/0; 1991-93 (E)

Prerequisite: PSY 101 plus 42 additional college credits. This course will focus on the psychosexual aspects of human sexuality, sex research, physiology of sex, gender identity and role, puberty, early learning of sexuality, heterosexuality, homosexuality and bisexuality, ways of sex, sexual minorities, social and legal issues of sex, portrayal and handling of sex in the media, sexual difficulties, eroticism, social psychological attitudes toward sex, and future trends of sexuality.

PSY 385 **PSYCHOLOGY OF PERSONAL ADJUSTMENT**

3, 3/0; Sp 93 (E)

Prerequisite: PSY 101. This course examines personal growth and adjustment. Topics covered include: theories of adjustment, characteristics of the healthy personality, interpersonal relations and adjustment, role of work in adjustment, and strategies for adjustment.

PSY 386 **PSYCHOLOGY OF STRESS, COPING AND HEALTH**

3, 3/0; 1991-93 (E)

Prerequisite: PSY 101 plus 42 additional college credits. This course will introduce theory and empirical research in the psychology of stress, coping, and health. Topics covered include: introduction to health psychology, major physiological systems, components of stress, relationship of stress to health, physical and psychological consequences of stress, social support systems, coping with life crises, relaxation techniques, psychological intervention and treatment, and the holistic health model.

PSY 387 **PSYCHOLOGY OF WOMEN**

3, 3/0; F 92 (E)

Prerequisite: PSY 101 plus 42 additional college credits. This course focuses on the empirical and theoretical issues related to the psychology of women. Topics covered include: the biological bases of sex differences, the effects of body states on the psyche, gender identity, women's adult development, female personality, women and interpersonal power and self-esteem.

PSY 388 **PSYCHOLOGY OF DEATH AND DYING**

3, 3/0; Sp 92, 93 (E)

Prerequisite: PSY 101 plus 42 additional college credits. This course will provide students with an objective coverage of the relevant issues pertaining to death and dying. Topics covered include: the stages of dying, counseling the dying person, attitudes of and reactions to death, psychological needs served by funeral and burial rituals, suicide, euthanasia, the right to die, grief and bereavement.

PSY 411 **ABNORMAL PSYCHOLOGY**

3, 3/0; 1991-93

Prerequisite: PSY 311. This course will examine the dimensions, theories, and empirical findings in psychopathology. Topics covered include: the concept of abnormality, problems and schemes of classification, and theories of etiology, classification, and treatment for selected disorders.

PSY 412 **COMMUNITY PSYCHOLOGY**

3, 3/0; Sp 92

Prerequisite: PSY 101 plus six additional hours of psychology; PSY 411 is recommended. This course provides a systematic coverage of the theoretical and empirical literature regarding community mental health. Topics covered include: historical perspectives on the community mental health movement, assessment of psychological dysfunction, levels of evaluating institutional change, consultation, and program evaluation.

PSY 415 **COMPETENT INFANT**

3, 3/0; Sp 92, 93

Prerequisite: PSY 355. An examination of the psychological world of the normal human infant. Topics covered include: biological processes of development, prenatal development, birth, physical and psychological characteristics of the neonate, research methods with newborns, infant speech and language, cognition and learning in infancy, infant interactions and socialization, sex differences in behavior, and theoretical models of early development.

PSY 416 **ABNORMAL CHILD PSYCHOLOGY**

3, 3/0; F 92

Prerequisite: Nine hours of psychology, including PSY 355; PSY 411 recommended. This course will focus on the significant issues and problems related to child psychopathology. Topics covered include: the taxonomy of childhood behavior disorders, role of the family, assessment of psychopathology in children, mental retardation, aggressive behavior, poverty and psychopathology, learning disorders, neurosis in children, childhood psychosis, developmental disorders, and therapeutic approaches.

PSY 417 **THE ATYPICAL INFANT**

3, 3/0; F 91, 92

Prerequisite: PSY 355. An introduction to the psychological effects of developmental delay in infants. Screening, assessment and intervention of high-risk infants will be surveyed. Topics covered include: definition of at-risk and high-risk infants, biological traumas and defects, prenatal traumas, birth and perinatal traumas, psychological crises in infancy, psychological assessment of developmental delay in newborns and infants, psychoeducational treatment of high-risk infants and their families, psychological issues of parenting the high-risk infant. Students will be required to complete a two-week practicum in a community program serving high-risk infants.

PSY 421 **PHYSIOLOGICAL PSYCHOLOGY**

3, 2/2; F 91, 92

Prerequisite: PSY 101 plus 12 additional hours of psychology and/or biology. This course describes the brain, nervous system, and endocrine system and their relationship to animal and human behavior. Topics covered include: psychosurgery, and the physiological basis of language, intelligence, emotion, motivation, learning, sexuality, abnormal behavior, perception, and motor behavior.

PSY 427 **ADULT DEVELOPMENT AND AGING II**

3, 3/0; F 91, 92

Prerequisite: PSY 327; PSY 304 recommended. This course is a continuation of PSY 327 and will critically review and evaluate the methodology and theory in the psychology of adult development and aging. An in-depth analysis of the empirical literature pertaining to adult and elderly intelligence, learning, memory, personality and social functioning will be provided.

PSY 430 **PSYCHOLINGUISTICS: LANGUAGE STRUCTURES AND PROCESSES**

3, 3/0; Sp 93

Prerequisite: PSY 101 plus six additional hours of psychology; PSY 340 recommended. This course is a systematic coverage of the theoretical and empirical literature regarding human language processes. Topics covered include: animal versus human communication, language acquisition, grammar, sentence production and comprehension, and the relationship between language and cognition. This course will integrate language processes into the general framework of cognitive psychology.

PSY 432 **HUMAN MOTIVATION AND EMOTION**

3, 3/0; Sp 92

Prerequisite: Nine hours of psychology including PSY 304. This course examines the concept of motivation and considers the fundamental and empirical and logical basis for its postulation and its use in psychological explanations of animal and human behavior. Emphasis is placed

on what determines motives and how motivational processes interact with other psychological processes.

PSY 441
INTRODUCTION TO
NEUROPSYCHOLOGY

3, 3/0; F 91, 92

Prerequisite: PSY 101 plus six additional hours of psychology. Human neuropsychology concerns itself with the study of relationships between human brain function and behavior. Students will be introduced to the functional anatomy of the brain and to the experimental and clinical techniques employed by the neuropsychologist to uncover brain-behavior relationships. Students will be shown how observation of individuals with abnormal or injured brains provide understanding of normal human behavior.

PSY 445
HISTORY AND SYSTEMS OF
PSYCHOLOGY

3, 3/0; 1991-93

Prerequisite: Nine hours of psychology or six hours of psychology and PHI 309. This course provides a survey of the history of the emergence of modern psychology from pre-Socratic thought to the present day. An emphasis is placed upon a systematic examination of psychology's historical roots as expressed in contemporary theories and models.

PSY 450
EXPERIMENTAL PSYCHOLOGY I:
INTRODUCTION TO EXPERIMENTAL
PSYCHOLOGY

3, 2/2; 1991-93

Prerequisite: Nine hours of psychology including PSY 306. An introduction to laboratory investigation in the behavioral sciences. Topics covered include: higher order correlational and parametric statistics, various approaches to research, and the interpretation and communication of research findings. Laboratory experiences are included to illustrate course content. Students will be required to complete at least five laboratory exercises and reports. *Required for psychology majors.

PSY 453
EXPERIMENTAL PSYCHOLOGY II:
METHODS IN SOCIAL PSYCHOLOGY

3, 2/2; F 91

Prerequisite: PSY 450; PSY 325 recommended. This course is a continuation of PSY 450 and focuses on the research methods used in social psychology. Topics covered include: artifacts in social psychological research, the rights of subjects and the responsibilities of experimenters, and the problem of generalizing results to the "real" world. Students will be required to complete at least four research exercises and reports, including formulation of at least one original experimental design.

PSY 454
EXPERIMENTAL PSYCHOLOGY II:
METHODS IN PHYSIOLOGICAL AND
COMPARATIVE PSYCHOLOGY

3, 2/2; Sp 92

Prerequisite: PSY 450; PSY 321 or PSY 421 recommended. This course is a continuation of PSY 450 and focuses on the research methods used in comparative and physiological psychology. Topics covered include: principles of behavioral observations, quantification of behavior, methods employed in the investigation of the nervous system, surgical and histological techniques, and the application of the physiological methods in the understanding of behavior. Students will be required to complete at least four research exercises and reports, including the formulation of at least one original experimental design.

PSY 455
EXPERIMENTAL PSYCHOLOGY II:
METHODS IN COGNITION

3, 2/2; F 92

Prerequisite: PSY 450; PSY 340 recommended. This course is a continuation of PSY 450 and focuses on the research methods used in studying cognitive processes. Topics covered include: short- and long-term memory, language, concept formation, and attention and thinking. Students will be required to complete at least four research exercises and reports, including the formulation of at least one original experimental design.

PSY 456
EXPERIMENTAL PSYCHOLOGY II:
METHODS IN SENSATION AND
PERCEPTION

3, 2/2; Sp 93

Prerequisite: PSY 450; PSY 308 recommended. This course is a continuation of PSY 450 and focuses on the research methods used in sensation and perception. Topics covered include: classic psycho-physical methods as well as recent advances in methodology. Emphasis will be placed on the visual modality. Students will be required to complete at least four research exercises and reports, including the formulation of at least one original experimental design.

PSY 457
EXPERIMENTAL PSYCHOLOGY II:
METHODS IN CLINICAL PSYCHOLOGY

3, 2/2; F 92

Prerequisite: PSY 450; PSY 411 recommended. This course is a continuation of PSY 450 and focuses on methods and analyses of data used in clinical research. Topics covered include: history of clinical psychology, ethical issues, special problems in clinical measurement and research, statistical procedures, the use of tests, case study and group designs, analogues, social interaction measures, and genetics. Students will be required to complete at least four research exercises and reports, including the formulation of at least one original experimental design.

PSY 458
EXPERIMENTAL PSYCHOLOGY II:
METHODS IN DEVELOPMENTAL
PSYCHOLOGY

3, 2/2; Sp 93

Prerequisite: PSY 450; PSY 355 recommended. This course is a continuation of PSY 450 and focuses on the research methods used in studying developmental psychology. Topics covered include: methods used in studying life-span development in the areas of perception, learning, personality, cognition, and attention. Students will be required to complete at least four research exercises and reports, including the formulation of at least one original experimental design.

PSY 466
PERSONNEL PSYCHOLOGY

3, 3/0; F 91, 92

Prerequisite: PSY 365 or PSY 367 plus 42 additional college credits. This course will provide students with basic coverage of problems, tools, and strategies involved in applying psychological principles to personnel selection, placement, training and assessment in organizations. Topics covered include: the roles of personnel psychologists, job analysis, developing performance criteria for jobs, performance appraisal, interviewing, the uses of employment testing, predicting job success, training programs, and social and ethical issues in personnel psychology.

PSY 470
ENVIRONMENTAL PSYCHOLOGY II

3, 3/0; Sp 92

Prerequisite: PSY 370 and permission of instructor. This course is a continuation of PSY 370 but at a considerably advanced level. Topics covered include: theory building in the area of physical-environmental behavior relations, innovative and unobtrusive measures, individual human needs in the physical environment, and basic processes and their relationship to the physical environment.

PSY 472
SEMINAR ON PSYCHOLOGY

3, 3/0; 1991-93

Prerequisite: Experimental Psychology II or 15 hours of psychology and permission of the instructor. The specific area of psychology selected for study varies from one seminar course to another. Topical areas for each course are announced prior to student enrollment. Coursework involves the study of basic theoretical principles and empirical laws of different content areas. Students are expected to make individual presentations on relevant topics. *Required of psychology majors.

PSY 480
PSYCHOTHERAPY: THEORY,
RESEARCH AND PROCEDURES

3, 3/0; F 92

Prerequisite: Nine hours of psychology including PSY 311; PSY 411 recommended. This course will examine a variety of issues pertaining

to psychotherapy. Emphasis will be placed upon integrating theory, research, and clinical applications. Topics covered include: history of psychotherapy, relationship of psychotherapy to the scientist-professional model in clinical psychology, major parameters of the therapeutic enterprise, ethical considerations in psychotherapy, and systems of individual, group, family, and marital psychotherapy.

PSY 481
PSYCHOLOGICAL TESTS AND
MEASUREMENTS

3, 2/2; Sp 92, 93

Prerequisite: Nine hours of psychology including PSY 306. This course will discuss many of the issues and problems surrounding psychological testing. Topics covered include: test reliability, validity, construction, administration, norms, and interpretation. Students will examine the most commonly used intelligence, personality, and other psychological tests. Limited practicum experiences are also provided.

PSY 488
INTERNSHIP

Credit varies; 1991-93

Prerequisite: Approval of the faculty supervisor must be obtained prior to registration.

PSY 495
PROJECT

Credit varies; 1991-93

Prerequisite: Approval of the faculty supervisor must be obtained prior to registration.

PSY 496
HONORS THESIS I

3, 0/3; 1991-93

Prerequisite: PSY 450, 72 additional hours of college credit and permission of instructor prior to registration. The honors psychology student will initiate the research that will later be formally presented in thesis form. Students will complete extensive library research in their areas of interest, and will present a formal research proposal (oral and written) to their supervisor and honors thesis committee. Any necessary research will also be carried out. *Required of students in the department honors program.

PSY 498
HONORS THESIS II

3, 0/3; 1991-93

Prerequisite: PSY 496 with a minimum grade of B and permission of instructor prior to registration. The honors psychology student will carry out the research proposed in PSY 496 and submit a formal thesis in written form. The student will also orally defend his/her work before the faculty supervisor, thesis committee, and interested faculty members. *Required of students in the department honors program.

PSY 499
INDEPENDENT STUDY

Credit varies; 1991-93

Prerequisite: Approval of faculty supervisor must be obtained prior to registration.

Recreation

Offered by the Health, Physical Education and Recreation Department
DR. DONALD E. BARR, Chairperson
Houston Gym 205

Also see Health, Physical Education, and Recreation listings.

REC 204
PRINCIPLES AND PRACTICES OF
RECREATION LEADERSHIP

3, 3/0; offered based on staff availability
Problems and practices in organization and leadership of school and/or community recreation programs; history; principles; conducting specific activities; area and facilities; programming; modern trends.

REC 306
ORGANIZATION AND ADMINISTRATION OF INTRAMURAL SPORTS

3, 3/0; F 91, 92

Prerequisite: Sophomore. A critical analysis of organization and administration of intramural sports program.

REC 495
PROJECT

REC 499
INDEPENDENT STUDY

Science Education (formerly Interdisciplinary Sciences)

Offered by the Earth Sciences and Science Education Department
DR. ROBERT E. HORVAT, Chairperson
Science Building 271

These interdisciplinary science courses cut across and integrate scientific knowledge from a wide variety of disciplines. They are designed to improve the liberal education and scientific awareness of non-science majors and place emphasis on scientific literacy and scientific process as well as scientific understanding. Also included here are science courses for prospective science teachers, and courses in the environmental sciences minor.

SCI 100
CONTEMPORARY SCIENCE

3, 3/0; 1991-93 (M)

An introduction to the role of science in contemporary society. Emphasis on the process of science for solving problems and organizing

information to understand science and technology. Contemporary issues and case studies will be used to illustrate the methods of science.

SCI 105
PHYSICAL SCIENCE FOR NON-SCIENCE
STUDENTS

3, 3/0; (M)

An activity-centered approach to the physical sciences. Extensive use of materials designed for students not intent on careers in science but interested in a non-technical analysis of the procedure of science.

SED 200
FIELD EXPERIENCE IN SECONDARY
SCIENCE EDUCATION

3, 2/2; F 91, 92

Provides classroom and field experience designed to help students make a better-informed decision if they are contemplating a career in secondary science education. For students the course provides important background for their roles as both citizens and parents. *Required for all secondary science education majors.

SCI 231
POLLUTION, ENVIRONMENT AND
SOCIETY

3, 2/2 or 3/0; 1991-93

From ecology to eco-action, population to pesticides, a survey of the scientific and societal implications of present-day regional and global environmental problems. The causes, effects and possible solutions of environmental problems with implications from conservation, chemistry, health and sociology. *Option in env. sci. minor.

SCI 232
ENERGY, ENVIRONMENT AND
SOCIETY

3, 2/2 or 3/0; (M)

An examination of energy use and abuse in our regional and global society. Includes environmental, economic, individual and societal perspectives. Major energy choices facing our society will be discussed.

SED 307
TECHNIQUES FOR TEACHING
LABORATORY ACTIVITIES IN THE
SECONDARY SCIENCE CLASSROOM

3, 0/6; Sp 92

Prerequisite: Twenty-four credit hours in science. Science Education majors will learn selected laboratory techniques necessary to teach New York Regents or non-Regents secondary science classes. Topics for each content area include ordering and maintaining supplies/equipment, storage, safety, preparation of materials, lab set-up, and measurement techniques.

SED 308
METHODS AND TECHNIQUES IN
TEACHING SECONDARY SCIENCE

3, 2/2; 1991-93

Prerequisite: EDF 303, EDF 403, EDU 416.

SST/SED 200; (may be concurrent). Cumulative 2.0 or higher average; approval by Earth Sciences and Science Education chairperson. Components of the teaching-learning situation in a science classroom. Construction of components for an effective teaching-learning situation. Also, the interrelationships of secondary science programs. *Required in all secondary science (7-12) programs, and the elementary education extension in science program (7-9).

**SCI 311
PHYSICAL SCIENCE FOR ELEMENTARY SCHOOL TEACHERS**

3, 3/0; F 91, 92 (E)
Prerequisite: A college-level course in a science other than biology. An activity-oriented course for elementary preservice teachers. In addition to practical demonstrations of appropriate physical science concepts, student will "do" physical science activities of elementary school age children. *Option in el. ed., science concentration.

**SCI 312
LIFE SCIENCE FOR ELEMENTARY SCHOOL TEACHERS**

3, 3/0
Prerequisite: A college-level biology course. An activity-oriented course for elementary preservice teachers. Reviews science content from State Elementary Science Syllabus. Also includes curriculum and pedagogy as related to the life sciences. *Option el. ed., science concentration.

**SCI 313
EARTH SCIENCE FOR ELEMENTARY SCHOOL TEACHERS**

3, 3/0; F 93 (E)
Prerequisite: A college-level course in earth science. Activity-oriented course for students interested in elementary school teaching. Practical demonstrations of concepts in geology and meteorology. Students will "do" earth science activities of elementary school age children. *Option in el. ed., science concentration.

**SCI 323
SCIENCE AS INQUIRY**

3, 3/0; (E)
The procedure of science as a search for knowledge of natural phenomena; comparison with other methods of inquiry; implications for non-scientists. *Option in el. ed., science concentration.

**SCI 327
THE DEVELOPMENT AND IMPACT OF ATOMIC SCIENCE**

3, 3/0; 1991-93 (M)
Prerequisite: 3 hours of science. The development of atomic science in the twentieth century will reveal the dynamic interaction of the atom with humanistic activity.

**SCI 335
OUTDOOR SCIENCE EDUCATION**

2/2; (E)
Prerequisite: An introductory environmental science course. An interdisciplinary approach to outdoor science education. Basic concepts of natural history in classroom and field will be covered. Will include an extended field trip to the college camp. *Option in environmental science minor.

**GES 337/SCI 337
ASTRONOMY AND THE ASTRONOMERS TO 1750**

3, 3/0; F 91 (E)
Prerequisite: GES 131 or equivalent. The saga of man's developing understanding of his universe, beginning with pre-historic efforts to predict celestial events, continuing through Grecian speculation on the nature of things, and culminating in the heliocentric revolution sparked by Copernicus and supported by Galileo.

**GES 338/SCI 338
ASTRONOMY AND THE ASTRONOMERS FROM 1750 TO THE PRESENT**

3, 3/0; Sp 91, Sp 92, Sp 93 (E)
Prerequisite: GES 131 or equivalent. A study of the men and women, the ideas and the forces which brought us from the heliocentric mechanical universe of Copernicus and Newton to an immense expanding universe of galaxies, quasars, and black holes.

**SCI 340
SCIENTIFIC STUDIES IN ENVIRONMENTAL POLLUTION**

3, 2/2; F 91, F 92 (E)
Prerequisite: Nine hours of science, at least three hours in an environmental science course or permission of the instructor. A scientific, in depth, examination of selected environmental pollution. Each semester a variety of types of pollution will be explored. A field-based project will be used to illustrate data collection techniques. *Option in env. sci. minor.

**SED 408
STUDENT TEACHING OF SCIENCE IN THE SECONDARY SCHOOL**

12, 5/30; 1991-93
Prerequisite: SED 308 with 'C' or better; cumulative and previous semester average at least 2.0; in major field over 2.0 average; successful completion of English and mathematics basic skills competency; if referred, satisfactory completion, or exemption from EXE 100, Student Speech Clinic; successful completion of the General Knowledge and Communication skills sections of the Core Battery, National Teachers Exam; approval by Earth Science and Science Education Department Chairperson. Teaching under supervision at least five days a week for two eight-week periods (6 credits each); individual and group instruction; planning unit teaching; classroom management and routine procedure; audio-visual aids; evaluation procedures; participation in total school program. *Required for upperclassmen in all secondary science programs.

**ENS 410
SEMINAR IN ENVIRONMENTAL STUDIES**

3, 3/0; Sp 91, Sp 92, Sp 93
Prerequisite: Completion of all the courses for the environmental science minor (may be concurrent) or instructor consent. Within traditional seminar setting, the student will explore several works of classical environmental literature, update the status of selected state and federal environmental legislation, and research and report on an environmental issue of interest.

**SCI 410
SCIENCE IN THE ELEMENTARY SCHOOL CURRICULUM**

3, 3/0
Prerequisite: Junior. Purposes and scope of science in the elementary school; selection of teaching objectives, analysis of the objectives and presentation of teaching-learning activities that are favorable to achieving the objectives.

**SCI 495
PROJECT**

1-3, 0/2-6; 1991-93
Prerequisite: Approval of faculty sponsor must be secured prior to registration. Environmental, energy, science/society, and science education related areas.

**SCI 499
INDEPENDENT STUDY**

3-6, 0/6-12; 1991-93
Prerequisite: Approval of faculty sponsor must be secured prior to registration. Environmental, energy, science/society, and science education related areas.

Social Studies Education

Offered by the History and Social Studies Education Department
DR. MONROE FORDHAM, Chairperson
Classroom Building C205

**SST 102
PROBLEM-SOLVING IN THE SOCIAL STUDIES**

3, 3/0; 1991-93 (S)
The methods of interdisciplinary problem-solving and emphasis upon the application of the method to selected contemporary problems.

**SST 199/GEG 199/SOC 199
SOCIAL SCIENCE COMPUTER APPLICATIONS**

3, 3/0; offered based on staff availability
Prerequisite: CIS 101 or equivalent or permission of instructor. A hands-on introduction to the application of computers to applied social

research problems including a review of past practices, current uses, and future trends. Students will become involved in the computer analysis of data for the purpose of developing insights into the ways people can use computers to perform needed social improvements in society.

**SED 200
FIELD EXPERIENCE IN SECONDARY EDUCATION**

3, 3/0; 1991-93
Provides classroom and field experience designed to help the student make a better informed decision if he is contemplating a career in secondary social studies education. For the general student the course provides important background for his role as both a citizen and parent. *Required for social studies education majors.

**SED 307
TECHNIQUES FOR TEACHING SOCIAL STUDIES IN THE SECONDARY CLASSROOM**

3, 3/0; 1991-93
Prerequisite: Six (6) hours in professional education courses. Attention focuses on the problems of the teacher, techniques for teaching, analyzing classroom behavior, self-evaluation and peer evaluation of teaching practices. To be taken concurrently with SED 408, "Student Teaching of Social Studies in the Secondary Schools."

**SED 308
METHODS AND MATERIALS IN TEACHING SECONDARY SOCIAL STUDIES**

3, 3/0; 1991-93
Prerequisite: Junior; completion of EDF 303; cumulative average of 2.5 or higher. A study of the purposes, goals, curricular materials, methodologies and instructional techniques of social studies education. A major emphasis will be for the student to develop a competency in designing and practicing instructional strategies drawn from the methodologies and of the curricular materials of social studies education and the disciplines of history and the social sciences.

**SST 355
SOCIAL STUDIES SEMINAR IN CONFLICT RESOLUTION**

3, 3/0; offered based on staff availability.
There are now many more strategies for resolving conflicts than are generally used. These strategies will be reviewed with particular emphasis upon international and interpersonal problems. Coursework will be drawn from political science, law, sociology, and social psychology.

**SSE 404
SEMINAR IN ELEMENTARY SOCIAL STUDIES**

3, 3/0; offered based on staff availability
Prerequisite: EDU 210 and EDU 352. To help the student to utilize more efficiently his social science preparation for the purpose of early

secondary and elementary social studies instruction. The student will make decisions concerning his tentative positions, the purpose of social studies and the available alternatives to teachers in the areas of methodology and curriculum.

**SED 408
STUDENT TEACHING OF SOCIAL STUDIES IN THE SECONDARY SCHOOLS**

12, 30/0; 1991-93
Prerequisite: Minimum 2.5 cumulative GPA; minimum 2.5 GPA in major; grade of "C" or higher in SED 308; must have satisfied English and math competency requirements; if referred, satisfactory completion or exemption from EXE 100; successful completion of appropriate parts of NTE; all other coursework must be completed prior to student teaching. Teaching under supervision five days per week; individual and group instruction; daily and long-view planning; unit teaching; classroom management and routine procedures; audio-visual aids; community resources; record keeping, evaluation procedures; participation in total school program. *Required of juniors or seniors majoring in social studies.

**SST 450
INTERDISCIPLINARY FIELD RESEARCH SEMINAR IN SOCIAL STUDIES METHODS**

3, 3/0
Prerequisite: 6 credits in upper-division social science courses. A study of the nature of interdisciplinary research, the design, fielding, and analysis of social surveys. Particular attention is paid to school settings and the attitudes and relationships of the community to policy decisions regarding the format of secondary school social studies curriculum.

**SST 495
PROJECT**

See coordinator or pertinent staff.

**SST 499
INDEPENDENT STUDY**

See coordinator or pertinent staff.

Social Work

Offered by the Social Work Department
ELLEN T. KENNEDY, Chairperson
Classroom Building, C115

**SWK 105
INTERPERSONAL RELATIONS**

3, 3/0; 1991-93 (E)
This course examines the process by which individuals attempt to reconcile their needs with the needs and demands of significant others in various settings. *Required for all social work majors.

**SWK 220
INTRODUCTION TO SOCIAL WORK**

3, 3/0; 1991-93 (T)
A survey of the profession of social work and settings in which social workers work. This course is designed to provide students with a basis for reaching career decisions regarding interest in a social work career. The course is an introduction to the social work program, a professional social work education program preparing students for beginning professional social work practice. Volunteer work required. *Required for all social work majors.

**SWK 307
HUMAN BEHAVIOR AND THE SOCIAL ENVIRONMENT I**

3, 3/0; 1991-93
Prerequisite or Corequisite: BIO 100. A study of life span development in preparation for learning the skills of case assessment and case planning. The course establishes for the social work student the requisite knowledge of working with individuals as clients. *Required for all social work majors. Junior status required.

**SWK 308
HUMAN BEHAVIOR AND THE SOCIAL ENVIRONMENT II**

3, 3/0; 1991-93
Prerequisite: SWK 307. The requisite knowledge for social work students in preparation for learning the skills of case assessment and case planning is presented. The family, small group, organization and community as the potential social work client are the subjects of the course. *Required for all social work majors; junior status required.

**SWK 310
SEXUALITY IN HUMAN DEVELOPMENT**

3, 3/0; F 91, 92 (E)
A course for future human service professionals which examines and analyzes human sexuality as part of human development. *For juniors and seniors only.

**SWK 317
RESEARCH IN SOCIAL WORK**

3, 3/0; 1991-93
The application of research methodologies and evaluative techniques to the field of social work. *Required of social work majors. Upper Division status.

**SWK 319
SOCIAL DYNAMICS OF POVERTY**

3, 3/0; 1991-93 (T)
An analysis of the effects of poverty upon individual, family, and community development reflected in various cultural groupings including American Indian, Appalachian White, Blacks, Migrant Workers, and Puerto Ricans. This course is designed for students working or planning to work with people in poverty. *Required for social work majors. Juniors and senior standing.

**SWK 320
ORGANIZATION OF COMMUNITY
SERVICES**

3, 3/0; 1991-93

Prerequisite: SWK 220. A survey of the growing, changing, and complex network of community social service agencies established to help people solve their problems and reach personal goals. This course is designed primarily for social work, urban studies, criminal justice, and other students seeking an understanding of social service agencies, their mandates, purpose, structure, functions, and funding. *Required for social work majors.

**SWK 321
THE ELDERLY AND SOCIAL SERVICES**

3, 3/0; Sp 92

Prerequisite: SWK 307 or equivalent. This course is designed to introduce junior and senior students to the needs and services for the elderly. The course will include knowledge building about services and programs for the aging, policy issues regarding the aging such as health, housing and finances. The physical, emotional, social and economic needs of the elderly will be studied as well. Some intervention strategies for working with this population will be presented also.

**SWK 337
SOCIAL WORK WITH GROUPS**

3, 3/0; Sp 92

Prerequisite: SWK 105 or equivalent. A survey of group work in a variety of social work settings. The course will broaden the students' theoretical knowledge of group dynamics and group leadership. The focus is on the application of intervention strategies and skills necessary for leading groups. Students will be exposed to a variety of types of groups utilized by social workers including community action groups, work groups, activity groups, discussion groups, committees, work teams, educational groups, and therapy groups.

**SWK 345
CHILD WELFARE SERVICES**

3, 3/0; Sp 93

This course will present child welfare as a field of practice in social work. It will give the student a broad view of the field including an understanding of the historical and philosophical bases; an awareness of the impact of culture, ethnicity, and race on practice, and specific knowledge about the current delivery of services and the skills needed to practice in the field. Upper division status.

**SWK 346
CHILD ABUSE AND NEGLECT**

3, 3/0 (E)

A survey of the major issues in child abuse and neglect from a social work viewpoint. In addition to presenting the nature of abuse and neglect, the actual incidence, and the workings of the current child protection system, the course will address intervention and treatment issues, as well as the role of other disciplines and the larger society.

**SWK 419
SOCIAL WELFARE POLICY**

3, 3/0; 1991-93

Prerequisite: SWK 320, concurrent with field. Consideration of the institutional response of American social welfare to individual and societal issues, problems, through a study of current issues, policies, and programs viewed in their historic and philosophic context, with emphasis on analysis of alternative policy choices affecting individuals, families, and communities.

**SWK 422
INTERVENTIVE METHODS I**

3, 3/0; Sp 92, 93

Prerequisite: SWK 105, 220, 307. A course for students preparing for careers in community/social services, covering principles, concepts, and methods of generalist practice of social work and community mental health and their application in communities, agencies, and institutions. *Required for social work majors. Restricted to social work majors.

**SWK 423
INTERVENTIVE METHODS II**

3, 3/0; F 91, 92

Prerequisite: SWK 308, 422. A course designed for students to develop skills based on the theory and application of intervention methods utilized by social service and mental health professions. Emphasis will be placed on application of selected approaches with reference to specific problems and client systems, including individuals, groups and communities. *Restricted to social work majors.

**SWK 485
SENIOR SEMINAR**

3, 3/0; 1991-93

Intensive analysis of selected topics in SWK.

**SWK 493-494
FIELD INSTRUCTION**

12, 3/14; 1991-93

Prerequisite: SWK 422 for SWK 493; SWK 493 for SWK 494. Supervised field experience in social services and mental health agencies in Buffalo and environs which meet standards of preparation for professional practice. Courses taken two consecutive semesters. On campus integrative seminar. *Restricted to social work majors.

**SWK 495
PROJECT****SWK 499
INDEPENDENT STUDY****Sociology**

Offered by the Sociology Department
DR. ROSALYN A. LINDNER, Chairperson
Classroom Building B307

**SOC 100
INTRODUCTION TO SOCIOLOGY**

3, 3/0; 1991-1993 (S)

An introduction to the study of human society, its culture, institutions, processes, and change, including an examination of socialization, relationships between and among individuals and groups in society. *This course is equivalent to a prerequisite for all other undergraduate courses in sociology and is required of all sociology majors.

**SOC 199/SST 199
SOCIAL SCIENCE COMPUTER
APPLICATIONS**

3, 3/0; 1991-1993

A hands-on introduction to the application of computers to applied social research problems including a review of past practices, current uses, and future trends. Students will become involved in the computer analysis of data for the purpose of developing insights into the ways people can use computers to perform needed social improvements in society.

**SOC 210
INTRODUCTION TO WOMEN'S STUDIES**

3, 3/0; Sp 92, 93 (S)

An interdisciplinary analysis of women in society. Students will be exposed to women's issues in relation to the social sciences, biology, psychology, and the arts, and will be encouraged to examine critically the development of modern societies in light of the emergence of women's issues.

**SOC 240
ANALYZING SOCIAL PROBLEMS**

3, 3/0; F 91, 92 (S)

Prerequisite: SOC 100. The analysis of several major social problems will be selected according to faculty and student needs and interests. A variety of approaches, techniques, and theories will be used in an analysis of selected social problems.

**SOC 300
METHODS IN SOCIAL RESEARCH**

3, 3/0; 1991-93

Prerequisite: SOC 100 and six additional hours of sociology. The nature of scientific evidence; induction and deduction; the application of the scientific methods to sociological data; the use of statistics, and other means of data collection; case histories, narrative and descriptive methods; methods of writing for publication; use of the social materials from journals and books as illustrative material. *Required of all sociology and urban-regional analysis and planning majors.

**SOC 301
SOCIAL STATISTICS**

4, 4/0; 1991-93

Prerequisite: SOC 100 and SOC 300. Statistical methods and reasoning will be used to analyze and clarify sociological information. *Required for sociology majors (Mathematical Statistics may be substituted with prior departmental approval).

**SOC 310
SOCIOLOGY OF SEX ROLES**

3, 3/0; 1991-93 (S)

Prerequisite: SOC 100. A critical examination of the roles women and men play in various societies, with particular emphasis on changes in contemporary America. Social statuses of women and men will be analyzed historically, and biologically, with particular attention given to the sociological implications of sexual inequality in the economy and political systems, as well as in marriage and family relationships.

**SOC 320
SOCIOLOGY OF THE FAMILY**

3, 3/0; 1991-93 (S)

Prerequisite: SOC 100. Family as a social institution; its historical development, function, and structure; cross-cultural comparison; subcultural analysis of the contemporary American family system. Discussion of alternatives to living in families and of sex roles and sex role change.

**SOC 321/AAS 332
THE BLACK FAMILY IN AMERICA**

3, 3/0; 1991-93 (E)

Prerequisite: SOC 100. May be used for Sociology or Afro-American Studies at the choice of the student. An exploratory study of the effects of the American social institution upon Black American family life, with emphasis on inter-familial relations.

**SOC 322
SOCIOLOGY OF CHILDHOOD
AND YOUTH**

3, 3/0; F 91, 92 (E)

Prerequisite: SOC 100. An analysis of the socialization of children and adolescents as they emerge into adulthood. The impact of the family, the school, peer groups and mass media, subcultural differences are examined. Intergenerational conflict and other social problems of childhood and youth are analyzed.

**SOC 323
SOCIOLOGY OF EDUCATION**

3, 3/0; F 91, 92 (E)

Prerequisite: SOC 100. An examination of the social organization of education in the U.S. and elsewhere with emphasis on the role of education in preserving and changing our culture; the school as a social system; non-school factors that influence educational aspirations and achievement; the role of the teachers, student subcultures, and administrative behavior patterns on student performance in school; changing and alternative educational forms; and changing relationships in colleges and universities.

**SOC 324/HPR 319
SOCIOLOGY OF SPORT**

3, 3/0; F 91, 92 (E)

Prerequisite: SOC 100. The primary purpose of this course is to attempt a coherent and integrated application of the sociological perspective(s) to sport. Focus is on the social organization of sports-related activities and implies an interest in formal and informal organizational networks of social statuses, norms, goals, and values. Sport and related phenomena will be studied using theoretical frameworks and empirical tools of the social sciences.

**SOC 330
SOCIAL PSYCHOLOGY**

3, 3/0; 1991-93 (S)

Prerequisite: SOC 100. Motivation and nature of attitudes; attitude change and stability; interpersonal perception and behavior; role prescriptions and role conflict; prejudice; conflict resolution.

**SOC 331
SOCIOLOGY OF GROUP DYNAMICS**

3, 3/0; F 91, 92 (E)

Prerequisite: SOC 100. An examination of the social structure and social dynamics of social groups including such essential features as the division of labor, types of leadership, communication and authority structures, social conflict, and social control mechanisms. Special attention will be given to the relationship of the individual to the group, comparisons of different types of "natural" groups such as family, peers, work groups, and the use of "experimental" groups to investigate various aspects of group life.

**SOC 333
SOCIAL MOVEMENTS**

3, 3/0; F 91, 92 (E)

Prerequisite: SOC 100. The analysis of various social movements. Relationships between individual discontent and social movements. Functional and dysfunctional aspects of different types of social movements.

**SOC 340
SOCIOLOGY OF THE CITY**

3, 3/0; Sp 92, 93 (E)

Prerequisite: SOC 100. The social organization of urban life in the U.S. and elsewhere, with emphasis on the growth and development of cities and metropolitan areas; life styles in the city and suburbs; the relationship of power and social control to urban stratification and the distribution of wealth; racial and ethnic distribution and relationships in urban settings; such urban problems as poverty, blight, crime and violence, and urban planning and redevelopment.

**SOC 341
SOCIOLOGY OF HUMAN ECOLOGY**

3, 3/0; Sp 93

Prerequisite: SOC 100. The study of interaction of man and his environment and the effect of his interaction on the quality of living, especially upon such social problems as poverty, crime,

physical and mental illness, and various types of pollution.

**SOC 350
POWER, CLASS, AND INEQUALITY**

3, 3/0; F 91, 92 (E)

Prerequisite: SOC 100. Historical and contemporary social inequality in the U.S. Survey of research areas such as income distribution, social structure in consciousness, inequality and the state, and race and gender inequality. Contrasting theoretical interpretations of the origins and significance of social inequality. Analysis of current trends.

**SOC 351
SOCIOLOGY OF RACE AND ETHNICITY**

3, 3/0; Sp 92, 93 (E)

Prerequisite: SOC 100. The analysis of the status of racial and ethnic groups in American and other societies; forms, causes, and effects of prejudice, and ethnic conflicts and the changing relationships of these groups to the larger society.

**SOC 352
THE AGED IN URBAN SOCIETY**

3, 3/0; F 91, 92 (E)

Prerequisite: SOC 100. The changing status of the aged in urban society with emphasis on the U.S. Differing status roles of aged women and men. The aged in different cultures and subcultures. The problems of the aged including poverty, physical decline and socio-psychological difficulties. Prejudice and discrimination against the aged. Public and private services to the aged. Aging in different living environments including retirement communities and nursing homes.

**SOC 360
SOCIOLOGY OF WORK**

3, 3/0; 1991-93 (S)

Prerequisite: SOC 100. Developments in work and workers' movements in modern America. Changes in the labor process. Discussion of such contemporary problems as occupational health and safety, deskilling, the disappearance of occupational cultures, and the upheaval caused by capital flight and plant closings.

**SOC 361
INDUSTRIAL SOCIOLOGY**

3, 3/0; Sp 93 (E)

Prerequisite: SOC 100. The modern factory, with emphasis on the workers' point of view. The social relations of industrial work; co-workers, supervision, union, and management. The social and philosophical origins of modern industrial organization in the work of Taylor. Contemporary developments such as quality of work life programs, the "Japanese model," and the team concept.

**SOC 362
SOCIOLOGY OF ORGANIZATIONS**

3, 3/0; F 91, 92 (E)

Prerequisite: SOC 100. The primary purpose of this course is to analyze organizations. This analysis should contribute to our understanding

of the world around us, not only in regard to the operation of organizations and their members, but also in terms of the impact of organizations on their environments and the environment's impact on organizations.

SOC 370 THE SOCIOLOGY OF DEVIANT BEHAVIOR

3, 3/0; Sp 92, 93 (E)

Prerequisite: SOC 100. The study of deviant behavior in American society, its nature, theoretical perspectives, and societal reactions. Emphasis will be placed upon becoming deviant as both an interactive and political process, with special attention paid to the development of deviant identities. Attention will be given to such specific behavior as substance abuse, sexual deviance, crime and delinquency, mental illness and social protest.

SOC 380 SOCIOLOGY OF CRIME

3, 3/0; 1991-93 (S)

Prerequisite: SOC 100. Crime; controversies concerning its nature, variation, causation, and means of prevention, reeducation and the treatment of offenders. Covers theoretical perspectives in social and historical content. Some sections also present data regarding the extent of crime.

SOC 381 THE SOCIOLOGY OF VIOLENCE

3, 3/0; Sp 93 (E)

Prerequisite: SOC 100. An analysis of various manifestations of violence. Theories of violence will be presented, as well as investigation into such specific topics as child abuse, battered wives, rape, violence in schools, and collective violence. Some insights shall be provided as to various programs which deal with violence.

SOC 382 SOCIOLOGY OF LAW

3, 3/0; F 91, 92 (E)

Prerequisite: SOC 100. A study of the structure and function of law in the American culture, with particular reference to the legal profession and the situations in which the law arises and has an effect on the social system.

SOC 383 SOCIOLOGY OF PUNISHMENT AND CORRECTIONS

3, 3/0; Sp 92, 93 (E)

Prerequisite: SOC 100. An inventory and assessment of recent theories and research findings regarding correctional practice. Review of the nature and forms of treatment, obstacles to treatment, and offender typologies.

SOC 384 SOCIOLOGY OF MASS MURDER

3, 3/0; Sp 92, 93

Prerequisite: SOC 100. A summary and assessment of sociological findings and theory concerning mass murder (genocide, serial killing, and simultaneous killing). Included are sociologi-

cal profiles of mass murderers and discussion and analysis of social factors conducive to mass murders.

SOC 390 JUVENILE DELINQUENCY

3, 3/0; 1991-93 (E)

Prerequisite: SOC 100. The nature of delinquency; delinquency and normal behavior of youth; the search for causes and the state of sociological research in this area; the role of treatment agencies, the children's court, training schools; methods of prevention; use of case histories and field trips.

SOC 391 SOCIOLOGY OF ADDICTION

3, 3/0; 1991-93 (E)

Prerequisite: SOC 100. Narcotic addiction as a social problem and a sociological phenomenon. The nature of narcotic addiction, the situations in which this behavior occurs, the characteristics of addicts. Legal, medical, and other efforts made to influence addicts.

SOC 392 SOCIOLOGY OF SEXUAL BEHAVIOR

3, 3/0; 1991-93 (E)

Prerequisite: SOC 100. A summary and assessment of recent sociological findings concerning sexual behavior as a social process. Review of the nature of various sexual practices, such as homosexuality, sado-masochism, etc., in the light of sociological theory. Examination of the sociological literature concerning sexual behavior with special emphasis on the interactionist approach and the labeling process with reference to sexual conduct.

SOC 393 SOCIOLOGY OF MENTAL ILLNESS

3, 3/0; Sp 93 (E)

Prerequisite: SOC 100. An extensive examination of sociological perspectives on mental health and illness, including their social histories. Evaluation of social factors and processes involved in modern approaches to the causes and treatment of mental illness with special attention to problems of definition and diagnosis. Review of research findings in areas of epidemiology, institutional care and control of mentally ill, the career of mental patients, and social issues.

SOC 400 FOUNDATIONS OF SOCIOLOGICAL THOUGHT

3, 3/0; F 91, 92

Prerequisite: SOC 100 and six additional hours in sociology. A study of selected ideas developed over the past century by major sociologists such as: Thomas Malthus, Karl Marx, Herbert Spencer, Charles Cooley, Thorstein Veblen, Max Weber, Emile Durkheim.

SOC 408 CONTEMPORARY SOCIOLOGICAL THEORY

3, 3/0; Sp 92, 93

Prerequisite: SOC 100 and six additional hours of sociology. The significance and uses of sociological theory. The major current approaches to understanding society and social life, such as contemporary Marxism, conflict theory, functionalism, and other order theories, and the interpretive sociologies. The construction and testing of sociological theories.

SOC 415 POPULATION ANALYSIS

3, 3/0; 1991-93

Prerequisite: SOC 100. A course in applied formal, social, and economic demography. Includes treatment of birth, death, and migration; the social and economic structure of populations, especially in the United States; methods of population measurement and projection; and sources of demographic data. Students will receive hands-on experience in computer analysis of population data using general statistical packages and/or programs customized for use in population analysis.

SOC 420 SOCIOLOGY OF RELIGION

3, 3/0; Sp 93

Prerequisite: SOC 100. Theories in sociology of religion will be examined. Emphasis upon religion and social change; religion in society; church and sect; social class and religion; the role of the minister, priest and rabbi.

SOC 440/PSC 410 POLITICAL BEHAVIOR AND PUBLIC OPINION

3, 3/0; F 92

Prerequisite: SOC 100. Conditions of democratic political behavior; option formation in democratic systems; voting behavior and party affiliation in the United States; political behavior in selected Western European societies. *May be used for sociology or political science at the choice of the student..

SOC 460 SOCIOLOGY OF OCCUPATIONS AND PROFESSIONS

3, 3/0; F 92

Prerequisite: SOC 100. The social structure of American occupations and professions. Careers and career lines examined from the point of view of careerists. The effects of race, social class, and education on career chances. The career viewed as a life process involving changes in cultural values and personal orientation. Mental stress examined as an accompaniment of occupational mobility and shifting role requirements. Emphasis is placed on managerial and professional careers.

SOC 488 INTERNSHIP IN SOCIOLOGY

1-15; 1991-93

Prerequisite: Permission of faculty intern supervisor.

SOC 490 SEMINAR IN SOCIOLOGY

3, 3/0; Sp 92, 93

Prerequisite: SOC 100 and SOC 300. Research in selected area(s) of sociology. *Required for B.A. sociology majors with senior standing (2nd semester seniors will be given first preference).

SOC 491 TOPICAL SEMINAR IN SOCIOLOGY

3, 3/0

Prerequisite: SOC 100 and six hours of sociology in a related field. Consent of instructor. This course is intended to permit students and faculty to explore in some depth special problems in sociology. Students wishing such a course should contact a member of the sociology faculty. The faculty member will secure approval for the student to undertake the course from the Sociology Department. The course will then be listed in the Master Schedule with a subtitle indicating the area of special concentration.

SOC 495 PROJECT

SOC 499 INDEPENDENT STUDY

Speech Language Pathology and Audiology

Offered by the Speech Language and Audiology Department
DR. DOLORES E. BATTLE, Acting
Chairperson
Ketchum Hall 208

SLA 100 STUDENT SPEECH CLINIC

Offered based on need

Speech therapy for students with speech language or voice disorders. Open to all students. Hours by arrangement.

SLA 206 LANGUAGE DEVELOPMENT

3, 3/0; F 91, 92 (T)

Analysis of language, its development; understanding how children learn language, speech sounds, words, sentence structure, meaning; factors that influence language development. Not open to majors in speech language pathology and audiology except by advisement.

SLA 220 INTRODUCTION TO COMMUNICATION DISORDERS

3, 3/0; S 92, 93 (T)

Classification and cause of speech language and hearing disorders in children and adults. Methods of treatment for minor disorders as well as suggestions for prevention; basic information on normal and abnormal speech, language and hearing development; observation of individuals presenting various communication disorders. Not open to majors in speech language pathology and audiology except by advisement.

SLA 302 CLINICAL PHONETICS

3, 3/0; F 91, 92

Production, acoustic analysis, representation of English (American) speech sounds; application of phonetics to deviation in speech. *Required of speech language pathology and audiology majors.

SLA 303 LANGUAGE ACQUISITION

3, 3/0; Sp 92, 93

Prerequisite: SLA 302. Analysis of child's acquisition of phonology, morphology, syntax, semantics and pragmatics, identifying structure, function of language of normal children at different levels of development; theories of language acquisition compared and contrasted. Required of speech language pathology and audiology majors.

SLA 304 ANATOMY & PHYSIOLOGY OF SPEECH AND HEARING MECHANISMS

3, 3/0; F 91, 92

Anatomy, physiology of normal speech, hearing mechanisms, introduction to possible deviations; embryonal development, neurology, production and reception of oral language. Required of speech language pathology and audiology majors.

SLA 306 SPEECH PATHOLOGY I

3, 3/0; Sp 92, 93

Prerequisite: SLA 302. Introduction to disorders of speech; etiology, diagnosis and remedial procedures for treatment of articulation disorders. *Required of speech language pathology and audiology majors.

SLA 307 SPEECH PATHOLOGY II

3, 3/0; F 91, 92

Prerequisite: SLA 304, 306. Etiology, diagnosis and remediation of organic speech language problems. *Required of speech language pathology and audiology majors.

SLA 312 SPEECH ACOUSTICS AND PERCEPTION

3, 3/0; Sp 92, 93

Prerequisite: SLA 302. A study of the scientific

principles underlying the physiology, acoustics and perception of normal speech production as a basis for subsequent understanding of disordered speech. Topics include basic concepts of sound, motor and acoustic theories of speech production, speech perception, instrumentation used to measure speech processes and application to speech pathology. *Required of speech language pathology and audiology majors.

SLA 325 CLINICAL PRACTICUM IN COMMUNICATION DISORDERS

3, 1/4; 1991-93

Prerequisite: SLA 306, 307. Cumulative average 2.5 or higher in SLA courses. An introduction to the clinical procedures and techniques used in therapeutic intervention for communication disorders. Includes practicum assignment in the Speech-Language-Hearing Clinic supervised by program faculty, coordinated with discussion of the clinical relationship, techniques, selection of instructional aids and materials, and evaluation of clinical skills.

SLA 405 PRACTICUM IN SPEECH AND HEARING

6, 0/25 (1/2 semester); 1991-93

Prerequisite: Thirty hours in speech-language pathology. Cumulative average of 2.5 or higher in all college courses and in major sequence; grade of C or better in SLA 325. Clinical practice in schools under supervision of a teacher of the speech and hearing handicapped. *Required of all seniors in speech language pathology and audiology.

SLA 411 LANGUAGE DIAGNOSIS AND REMEDATION

3, 3/0; F 91, 92

Prerequisite: SLA 303. Introduction to diagnosis, therapy methods, and children who have language problems; formal, informal testing procedures reviewed, evaluated. Therapy programs analyzed, designed to fit needs of children. *Required of speech language pathology and audiology majors.

SLA 414 AUDIOLOGY

3, 3/0; F 91, 92

Prerequisite: SLA 304. Hearing and hearing disorders for speech-language pathologists. Anatomy and physiology of the ear and pathologies of the auditory mechanism, decibel notation, and pure tone audiometry and tympanometry. Clinical practicum hours required. *Required of speech language pathology and audiology majors.

SLA 415 AURAL REHABILITATION

3, 3/0; Sp 92, 93

Prerequisite: SLA 414. Aural rehabilitation for speech language pathologists. Identification, referral, habitation techniques for hearing-impaired. Emphasis on auditory training, speech

reading. Clinical practicum hours required.
*Required of speech language pathology and audiology majors.

SLA 416 STUTTERING

3, 3/0; F 92, 93
Prerequisite: SLA 306, 307. Therapeutic procedures for treatment of stuttering, tests for diagnosis and evaluation of individuals with fluency problems. Observations of stuttering clinic.
*Required of speech language pathology and audiology majors.

SLA 424 ORGANIZATION & ADMINISTRATION OF SCHOOL SPEECH AND LANGUAGE PROGRAMS

3, 3/0; 1991-93
Prerequisite: Thirty hours in communication disorders. Study of organization of school speech language programs, including laws and regulations, case selection, caseload, scheduling, records, facilities. *Required of speech language pathology and audiology majors.

SLA 425 DIAGNOSIS OF COMMUNICATION DISORDERS

3, 2/8 (½ semester); 1991-93
Prerequisite: SLA 325, 307, 411. The study and practice of diagnosis of communication disorders. Included is discussion of interviewing, report writing, methods and materials in performing diagnosis, and clinical practice of diagnostic skills. *Required of speech language pathology and audiology majors.

SLA 429 CLINICAL ACTIVITY

1, 0/3; 1991-93
Observation and participation in clinical activities. Appropriate section should be selected with advisement. May be repeated for a total of up to 6 credits.

SLA 495 PROJECT

SLA 499 INDEPENDENT STUDY

Technology

DR. CHARLES A. BEASLEY, Chairperson
Upton Hall 315

ENGINEERING TECHNOLOGY INDUSTRIAL TECHNOLOGY SAFETY STUDIES TECHNOLOGY EDUCATION VOCATIONAL TECHNICAL EDUCATION

ENGINEERING TECHNOLOGY

Offered by the Technology Department
DR. CHARLES A. BEASLEY, Chairperson
Upton Hall 315

DR. PETER S. PAWLIK, Coordinator
Upton Hall 315

ENT 300 ANALYTICAL METHODS FOR TECHNOLOGISTS

3, 3/0; 1991-93
Prerequisite: MAT 126. Application of calculus and analytic geometry to problems in technology. Introduction to the ordinary differential equations used to analyze mechanical and electrical quantities used in technology. *Required for engineering technology majors.

ENT 301 MECHANICS I

3, 3/2; 1991-93
Prerequisite: PHY 111. A study of the basic principles and applications of statics and strength of materials. Topics include equilibrium of rigid bodies, friction, centroids, properties of areas, trusses, frames, tension/compression stresses in bars, and beam bending stress. *Required of all engineering technology majors.

ENT 302 MECHANICS II

3, 3/2; 1991-93
Prerequisite: ENT 300, ENT 301. A study of the principles and applications of dynamics. Topics include principles of dynamics, translation, rotation, dynamic equilibrium, work-energy methods, and impulse-momentum methods. *Required of all engineering technology majors.

ENT 303 KINEMATICS

3, 3/2; Sp 92, 93
Prerequisite: ENT 302. A study of the relative motions of machine parts. Both graphical and analytical techniques are presented for position, velocity, and acceleration analysis of linkages, chains, rolling bodies, gears, and miscellaneous mechanisms. *Required of mechanical engineering technology majors.

ENT 311 THERMODYNAMICS

3, 3/2; F 91, 92
Prerequisite: ENT 300, PHY 111. An introduction to the principles of classical thermodynamics. Technical applications of heat-power systems, refrigeration systems, and fluid machinery. *Required of mechanical and electrical (power machines option) engineering technology majors.

ENT 312 FLUID MECHANICS

3, 3/2; Sp 92, 93
Prerequisite: ENT 311. Application of fluid mechanics to analysis of fluid circuits, channel

flows, and fluid machines. Analysis, design and operation of instrumentation for measuring pressure and flow. Theory of dimensionless groups for models and prototypes. Hydraulic flow controllers and pressure controllers. *Required of mechanical and electrical (power machines option) majors.

ENT 313 COMPUTER METHODS FOR TECHNOLOGISTS

3, 3/0; 1991-93
Prerequisite: ENT 300, ISM 111. The application of computers and numerical methods to problems in engineering technology. Numerical algorithms will be implemented in Fortran IV and then used to solve typical mechanical, electrical, and electro-mechanical design and analysis problems. Emphasis will be on actual student use of the computer. *Required of all engineering technology majors.

ENT 331 ELECTRICAL CIRCUITS AND DEVICES I

3, 3/2; 1991-93
Prerequisite: PHY 112. Study of the basic concepts of electrical circuits and systems both DC and AC. Includes loop and node analysis, superposition, maximum power transfer, alternating current analysis, phasors, inductors, capacitors, resonance, transformers. *Required of all engineering technology majors.

ENT 332 ELECTRICAL CIRCUITS AND DEVICES II

3, 3/2; 1991-93
Prerequisite: ENT 300, ENT 331. Study of magnetic fields and the magnetic circuit. The ideal transformer. Realistic power transformers. Direct current machinery-three phase generator. The rotating magnetic field and alternating current machinery. Single phase and polyphase motors. Synchronous motors and generators. *Required of all engineering technology majors.

ENT 341 ELECTRONICS

3, 3/2; F 92
Prerequisite: ENT 300, ENT 331. Introductory analysis of electronic circuits, with emphasis on semiconductor devices. *Required of electrical engineering technology majors.

ENT 342 NETWORKS

3, 3/0; 1991-93
Prerequisite: ENT 300, ENT 331. Network analysis methods, generalized waveform analysis, electrical circuit parameters, equivalent circuits, initial circuit conditions, steady state and transient solutions. Laplace transform methods and applications to network analysis, transform methods in linear system analysis, transfer function concepts and sinusoidal steady state analysis. *Required of electrical engineering technology majors.

ENT 351 ELECTRONIC CIRCUIT ANALYSIS AND DESIGN I

3, 3/2; 1991-93
Prerequisite: ENT 341, ENT 342. Analysis and design of electronic circuits, discrete and integrated, with emphasis on linear analog applications. *Required of electrical engineering technology majors (electronics option).

ENT 352 ELECTRONIC CIRCUIT ANALYSIS AND DESIGN II

3, 3/2; 1991-93
Prerequisite: ENT 351. Analysis and design of electronic circuits, discrete and integrated, with emphasis on non-linear analog applications. *Required of electrical engineering technology majors (electronics option).

ENT 371 ELECTROMECHANICAL MACHINES

3, 3/2; F 91
Prerequisite: ENT 332. DC machines, AC machinery and transformers, as an integral part of electric power systems. Study of three-phase synchronous machines and induction motors, fractional horsepower AC motors, electrical machines in control systems. *Required of electrical engineering technology (power/machines option) majors.

ENT 401 STRESS ANALYSIS

3, 3/2; F 91, 92
Prerequisite: ENT 301, ENT 313, ENT 331, ENT 311. An advanced course in strength of materials which focuses on the analytical, numerical, and experimental methods of stress analysis as applied to structures and machine elements. Topics covered included axial stresses and deformation, bending and torsion of beams and shafts, plane stress, plane strain, elastic stability, yield criteria, combined stresses, and energy methods. *Required of mechanical engineering technology majors.

ENT 402 SHOCK AND VIBRATION ANALYSIS

3, 3/2; Sp 92, 93
Prerequisite: ENT 302, ENT 401. A study of the theoretical, analytical, and experimental method used in the analysis of shock and vibration in machine elements and structures. Topics covered include free and forced vibration of one- and multi-degree of freedom systems with an introduction to lumped parameter systems with continuous systems. The laboratory will stress familiarization with the instrumentation and experimental techniques used in vibration analysis. *Required of mechanical engineering technology majors.

ENT 411 HEAT TRANSFER

3, 3/2; F 91, 92
Prerequisite: ENT 312. A study of the process of heat transfer and its applications to the fields of

processing technology, energy conversion, and machine design. Topics covered include conduction, convection, radiation, heat exchanger design, combined modes of heat transfer, and applications to machine design. *Required of mechanical engineering technology majors.

ENT 421 MACHINE DESIGN I

3, 3/2; F 91, 92
Prerequisite: ENT 303. A study of the techniques used to design and specify machine elements, i.e., shafts, springs, fasteners, belts, clutches, brakes, chains, bearings, gears, cams, etc. *Required of mechanical engineering technology majors.

ENT 422 MACHINE DESIGN II

3, 2/3; Sp 92, 93
Prerequisites: ENT 421, ENT 401. Advanced topics in machine design including numerical control. Each student will be required to complete a major design project which includes preliminary analyses, working drawings, fabrication and testing of a prototype. *Required of mechanical engineering technology majors.

ENT 431 DIGITAL SYSTEMS I

3, 3/2; F 91, 92
Prerequisite: ENT 341. This course is an introduction to digital systems and includes analysis, design, and laboratory work to gain familiarity with performance and configuration of digital components. The course includes Boolean algebra, combinational circuit analysis and design, gates, sequential circuits, flip-flops, counters, encoders/decoders, mux/demux, and memory devices. The experiments are designed to develop facility in analyzing, testing, troubleshooting and designing digital circuits. *Required of electrical engineering technology majors.

ENT 432 DIGITAL SYSTEMS II

3, 2/3; 1991-93
Prerequisite: ENT 431. Theory and application of microprocessors and microcomputers, composition, programming, interfacing, prototyping and troubleshooting. *Required of electrical engineering technology majors.

ENT 433 MICROPROCESSOR APPLICATIONS AND ROBOTICS

3, 3/2; F 91, 92
Prerequisite: ENT 432. This course provides a theoretical and practical background of the technology used in the application of microprocessors. The programming, hardware, interfacing, and application of microprocessors is covered. The "8086" microprocessor is used as the basis for laboratory study. Subsequently, the elements of robotics are presented with emphasis on the use of the microprocessor for control of

the robot. In addition, construction and programming of robots is covered.

ENT 441 ELECTROMAGNETIC FIELDS AND WAVES

3, 3/2; F 91, 92
Prerequisite: ENT 332, ENT 300. Description of traveling waves on transmission lines and waveguides. Introduction to RF and microwave technology for measurement of frequency, wavelength, power and impedance — Use of Smith Chart for circuit analysis. Characteristics of sources and amplifiers used in RF and microwave systems. *Required of electrical engineering technology (electronics option) majors.

ENT 442 MICROWAVE TECHNIQUES

3, 3/2; Sp 92, 93
Prerequisite: ENT 441. Continues the study of RF and microwave technology. Topics include receivers, noise, antennas, modulation and demodulation, and propagation. Systems and applications are emphasized. *Required of electrical engineering (electronics option) majors.

ENT 461 CONTROL TECHNOLOGY I

3, 3/2; F 91, 92
Prerequisite: ENT 342. Introduction to control systems and components, control system analysis, transient and steady-state evaluation, transfer functions, block diagram algebra, stability analysis, system classification, use of laboratory simulation techniques, experimental testing of type 0 and type 1 servo systems. *Required of electrical engineering technology majors.

ENT 462 CONTROL TECHNOLOGY II

3, 2/3; Sp 92, 93
Prerequisite: ENT 461. The analysis and design of feedback control systems, objectives and methods, frequency response plots, feedback control system performance based on frequency response analysis, stabilization techniques, control system design using Bode and Nichol's chart design method, digital control systems and digital interfacing techniques. Experimental investigation of d.c. servo stabilization using rate feedback of network compensation, experimental evaluation of a.c. servo systems. *Required of electrical engineering technology majors.

ENT 471 ELECTRICAL POWER SYSTEMS I

3, 3/2; F 91
Prerequisite: ENT 342. Operating strategies and control of single phase and polyphase electric power systems. Integration of electrical machinery including transformers, synchronous machines and induction motors in the power system. Both single phase and polyphase machines are considered. *Required of electrical engineering technology (power/machines option) majors.

**ENT 472
ELECTRICAL POWER SYSTEMS II**

3, 3/2; Sp 92

Prerequisite: ENT 471. A systems approach to electrical power systems analysis, control of power and frequency; control of voltage and reactive power, load flow analysis, fault analysis and unbalanced operation, over-voltage and insulation requirements. Underground cable transmission systems. *Required of electrical engineering technology (power/machines option) majors.

INDUSTRIAL TECHNOLOGY

Offered by the Technology Department
DR. CHARLES A. BEASLEY, Chairperson
Upton Hall 315

See Technology courses for description of courses listed in Industrial Technology major.

SAFETY STUDIES

Offered by the Technology Department
DR. CHARLES A. BEASLEY, Chairperson
Upton Hall 315

Industrial Technology Program
Upton Hall 314

The safety studies area provides an opportunity for students from the various specialized degree programs to also acquire a safety minor, teacher preparation in driver education, and a variety of elective courses of a general as well as specialized nature to satisfy personal interest or career goals.

**SAF 300
THE HIGHWAY TRANSPORTATION
SYSTEM**

3, 3/0; offered based on staff availability
Prerequisite: N.Y. State driver's license. An introduction to and an analysis of the highway transportation system, with emphasis placed on the vehicle operator task for the purpose of facilitating improved operator performance. The lab phase of the course conducted in automobiles.

**SAF 305
FUNDAMENTALS OF SAFETY**

3, 3/0; 1991-83 (T)
An analysis of the fundamentals of accident prevention as they apply to the numerous areas of living, with consideration given to the human and environmental factors, legal aspects and home and fire safety. *Required of safety minor. **Required to teach high school driver education.

**SAF 310
PERSONAL SAFETY AND FIRST AID**

3, 3/0; F 91, 92
Personal accident-prevention skills and techniques that can reduce potential threats to life, with emphasis on activities involving recreational, occupational, industrial, and daily life routines. Basic instruction in emergency medical care of the sick and injured. A standard first aid and personal safety certificate will be awarded upon successful completion of the course.

**SAF 320
PRODUCT SAFETY**

3, 3/0; Sp 92, 93 (E)

A study of product safety; agencies that control the manufacture and distribution of dangerous products; product safety laws and legal liability; product injury data; evaluative criteria; product testing; determining standards for safety.

**SAF 333
OCCUPATIONAL SAFETY**

3, 3/0; Sp 92, 93

An analysis of hazards in the work place, with emphasis on various accident-prevention methods and techniques that can be utilized by both the employee and management to reduce the accident toll. The Occupational Safety and Health Act of 1970 will be discussed in detail. *Required for safety minor.

**SAF 340
COMMUNITY SAFETY**

3, 3/0; F 91, 92 (E)

A study of human and environmental factors affecting community safety; accident prevention and control principles; agencies and organizations; safety laws and ordinances; standards and codes; legal liability and insurance; disaster and emergency medical care; safety in places of public assembly; recreational facilities; transportation systems. *Required for safety minors.

**SAF 360
INDUSTRIAL HYGIENE**

3, 3/0; F 91, 92

An introduction to the profession of industrial hygiene. Includes the detection, recognition, evaluation and control of those factors emanating from the working place which may impair health, cause discomfort, illness, disease and reduce efficiency among workers and the community as a whole.

**SAF 431
ORGANIZATION, ADMINISTRATION,
AND SUPERVISION OF INDUSTRIAL
ACCIDENT PREVENTION PROGRAMS**

3, 3/0; offered based on staff availability
Prerequisite: SAF 430. A study of the practical application of methods and techniques of efficient industrial accident prevention programs. Emphasis will be placed upon corporate responsibility, employee responsibility and the complex psychological relationships that affect the typical program.

**SAF 450
MOTOR FLEET SAFETY MANAGEMENT**

3, 3/0; offered based on staff availability
A study of the various fleet management techniques and their application. Includes the scope and function of the motor fleet safety supervisor; federal, state, and local laws and regulations; selection and maintenance of equipment; customs and public relations.

TECHNOLOGY COURSES

Offered by the Technology Department
DR. CHARLES A. BEASLEY, Chairperson
Upton Hall 315

**TEC 101
TECHNICAL DRAWING**

3, 2/3; 1991-93

Survey of projection theory; multiview projection; special relationships and visualization of point, lines, planes and solids; size and shape description through sketching and instrument drawing; industrial applications, standards and conventions; auxiliary views, revolutions, developments and intersections. *Required of TEC and TED majors.

**TEC 123
PRINCIPLES OF MANUFACTURING**

3, 3/0; 1991-93; offered based on staff availability (T)

A study of the operative principles common to the majority of manufacturing industries. In-depth classroom discussion including presentations by leading industrialists. Consideration will be given to research and development, manufacturing, organization and management, industrial relations, engineering, production, labor, financial control, marketing, quality control.

**TEC 150
THE SHAPE OF THINGS**

3, 3/0; 1991-93; offered based on staff availability (T)

A study of mechanics and design; concepts of strength of materials; the influence of shape, size, and choice of materials on the strength and rigidity of structures; presentation of the elements of mechanism.

**TEC 201
MATERIALS PROCESSING**

3, 2/3; 1991-93

Prerequisite: TEC 101. A study of the processes and problems associated with the conversion of materials into useful forms and goods. Practical experience is acquired through laboratory activities exemplifying the major processes studied. *Required of TEC and TED majors.

**TEC 202
PRODUCTION DRAWING**

3, 2/3; 1991-93; offered based on staff availability
Prerequisite: TEC 101. Idea development, sketching, design concepts, working drawings, reproductions, manufacturing processes and operations, illustrations, and drafting-room procedures.

**TEC 260
DEVELOPMENT OF TECHNOLOGY**

3, 3/0; 1991-93; offered based on staff availability (T)

A chronological study of the development of man's technology; emphasis on prevailing ideas, known physical materials and processes, and

pressures of the natural and social surroundings; consideration of man's technological future based on his historical development.

**TEC 301
MATERIALS PROCESSING II**

3, 2/3; 1991-93; offered based on staff availability
Prerequisite: TEC 101 and 201. A continuation of the conceptual patterns introduced in TEC 201. Emphasis is placed upon numerical controlled and computerized numerical controlled materials processing. Practical experience is acquired through laboratory activities to enhance understanding of the processes studied.

**TEC 303
PLASTICS**

3, 2/3; 1991-93; offered based on staff availability
Fundamentals of injection, compression, transfer, rubber, and blow modeling; heat sealing; vacuum forming; casting and spraying of form welding of plastics; properties of polymers and elastomers; mold construction.

**TEC 305
CREATIVE ARTS FOR INDIVIDUALS
WITH SPECIAL NEEDS**

3, 2/3; 1991-93; offered based on staff availability
Experiences in creative arts and crafts and elementary industrial arts for children who present exceptional problems of learning; techniques in preparing handicapped children for occupations through activities in Tech. Ed.; job analyses and occupational guidance related to the education of exceptional children. *Elective for EXE majors.

**TEC 311
MATERIALS SCIENCE AND TESTING**

3, 2/3; 1991-93

Prerequisite: Junior or senior standing. A study of the origin of composition of industrial materials including metals and their alloys, woods, fuels, lubricants, cutting fluids, solvents, protective compounds or coatings, inks, adhesives, plastics, and ceramics; application of testing procedures for identification and determination of physical and chemical properties suitable for specific industrial uses. *Required of TEC and TED majors.

**TEC 312
PRODUCTION PLANNING AND
CONTROL**

3, 2/3; 1991-93

Prerequisite: Junior or senior, and TEC 201. Provides working knowledge of the production planning and control functions in industry, basic coverage of the techniques and procedures of production planning, scheduling, dispatching and control. *Required of TEC and TED majors.

**TEC 313
STATISTICAL QUALITY CONTROL**

3, 3/0; 1991-93

Prerequisite: Junior or senior standing. Fundamentals of probability; sample space, events,

probability; probability distributions; binomial, poisson and normal. Application of probability in quality control; Shewhart Control Charts, process capability studies, acceptance sampling, standard tables for sampling plans. *Required of TEC majors.

**TEC 314
ELECTRO-MECHANICS**

3, 2/3; 1991-93

Fundamental laws of electric circuits, analysis of D.C. and A.C. circuits, application to electric power systems and electronics industry. Fundamentals of electrical machinery and introduction to three phase systems. Laboratory experiments on electrical circuit and devices. *Required of TEC and TED majors.

**TEC 318
METAL-FORMING**

3, 3/2; 1991-93; offered based on staff availability

Prerequisite: TEC 201. Advanced study of metal working processes exemplified by casting, shaping, welding, forging, and finishing techniques; emphasis on individual experience in contemporary metal working technology.

**TEC 319
TECHNOLOGY AND VALUES**

3, 3/0; 1991-93; offered based on staff availability (T)

Prerequisite: Junior standing. Investigation of the social and ethical impacts of technology to enable increased understanding of the often conflicting roles of the historical and current creators and users of technology, and to enable more informed future assessment and control. Examination of selected current technical-ethical issues of societal importance.

**TEC 325
DEVELOPMENT OF AMERICAN
INDUSTRIES**

3, 3/0; 1991-93; offered based on staff availability
Study of America's technological society. The relationship of people and machines in the increasingly complex world of work. Understanding industry as a basis of culture.

**TEC 326
OCCUPATION IN AMERICAN INDUSTRY**

3, 3/0; 1991-93; offered based on staff availability
Overview and analysis of the wide range of occupations in the major industries with emphasis on the role of federal, state, and local agencies, their services and available reference material.

**TEC 327
SURVEY OF INDUSTRIAL POLLUTION
CONTROL PROBLEMS**

3, 3/0; 1991-93; offered based on staff availability (T)

Overview and analysis of problems pertaining to pollution generation and abatement by industry during procurement, product development, production, distribution and utilization.

**TEC 350
GRAPHIC COMMUNICATIONS**

3, 2/3; 1991-93

Prerequisite: Junior or senior. An introduction to the major principles of technical graphic communications; a study of industrial information conveyance in a contemporary civilization; application of modern industrial reproduction processes to the solution of graphic problems. *Required of TEC and TED majors.

**TEC 351
ENERGY SYSTEMS**

3, 2/3; 1991-93

A study of energy and power from sources through conversion systems and mechanisms to the application of power for manufacturing. *Required of TEC and TED majors.

**TEC 352
FOREST PRODUCTS**

3, 2/2; 1991-93; offered based on staff availability
Study and experience in the use of solid and composition wood processes through activities of the production and construction. Special emphasis upon wood identification, utilization, and finishing.

**TEC 360
PRODUCTION DRAWING I**

3, 3/3; 1991-93; offered based on staff availability
Prerequisite: TEC 101. Application of the fundamental principles of orthographic projection and the further development of drawing skills required in the preparation of selected types of working drawings; increased emphasis on technical sketching skills and dimensioning practices; tolerancing standards; sectional views; basic design concepts; materials and processes in manufacturing surface finishing standards; fundamentals of threads and fasteners; preparation of welding, stamping and piping drawings.

**TEC 370
PRODUCTION DRAWING II**

3, 3/3; 1991-93; offered based on staff availability
Prerequisite: TEC 360. Graphic description as applied to the management of industrial production with concentration on working drawings and illustrations.

**TEC 400
MARKETING**

3, 3/0; 1991-93 (E)

Prerequisite: Junior or senior. The establishment of conceptual framework for marketing; the movement of goods and services through channels from source to consumer; consideration of product formulation, market research, prudent pricing, distribution channels, and promotion systems. *Required of TEC and TED majors.

**TEC 401
MANAGEMENT SCIENCE**

3, 3/0; 1991-93 (E)

Prerequisite: Junior or senior. An investigation of the conceptual framework of management

science leading to a detailed study of the major managerial functions of planning, organizing, actuating, and controlling. An introduction to the tools of modern management relating to forecasting, organizational concepts, motivation, quantitative decision making, measurement and evaluation of performance, and the several concepts of control; consideration of the economic environment; use of the case study method. *Required of TEC and TED majors.

TEC 402 ERGONOMICS

3, 3/0; 1991-93

The interaction of people and machines; development and use of human factors information including sensory, cognitive, and psychomotor processes as these influence the design of displays, controls, and work space; environment and safety consideration necessary to achieve desired machine outputs. *Required of TEC and TED majors.

TEC 403 SYSTEMS ANALYSIS

3, 3/0; 1991-93

Prerequisite: TEC 401. A study of fundamental concepts and analytical techniques of systems analysis; stress will be placed on the quantitative methods and their use in decision-making in practical situations involving industrial, managerial, and technological settings; trends will be treated as related to modeling, and computer technology, feedback and information systems. *Required of TEC majors.

TEC 405 MANUFACTURING TECHNOLOGY

3, 2/4; 1991-93

Prerequisite: TEC 312 and last semester senior standing. A senior project course that provides a hands-on experience in the total manufacturing cycle of a product from the ideal inception stage through planning, product design, processing studies, actual and simulation of large-scale production, and experience in setting time standards and taking time studies. *Required of TEC and TED majors.

TEC 406 INVESTIGATION OF FOREST MATERIALS AND PRODUCTS

3, 2/3; 1991-93; offered based on staff availability

Prerequisite: TEC 352. Study of wood structure and properties through laboratory investigation and testing. Experimentation with advanced processes and evaluation of forest products. Identification of the field of forest product technology and wood technology.

TEC 407 GRAPHIC REPRODUCTION PROCESSES

3, 2/3; 1991-93; offered based on staff availability

Prerequisite: TEC 350. The photomechanical processes as related to offset lithography, screen process printing and gravure printing.

TEC 408 ELECTRONICS COMMUNICATION

3, 2/3; 1991-93; offered based on staff availability

Prerequisite: TEC 314. Advanced study of general electricity with emphasis on alternating current theory; electronic test equipment; service repair and construction of complex A.C. devices and projects; service repair and construction of radio receivers and electronic equipment.

TEC 409 INTRODUCTION TO THE CERAMIC INDUSTRIES

3, 2/3; 1991-93; offered based on staff availability

Introduction to the major ceramic industries that utilize earthy, inorganic, nonmetallic materials which are usually heat treated at high temperatures. Laboratory experiences to achieve breadth understandings of major manufacturing industries; ceramic raw materials, stone refractories and kilns, gypsum, lime, Portland cement and concrete, clay (structural products and whitewares), glaze, porcelain enamels, glass, abrasives, carbon and graphite, and electronic ceramics.

TEC 411 ARCHITECTURAL DRAWING

3, 2/3; 1991-93; offered based on staff availability

Prerequisite: TEC 101 or permission of instructor. Locations, restrictions, building codes, facilities, floor plans, elevations, and specifications of structures; materials, equipment, and methods of construction.

TEC 417 DESCRIPTIVE GEOMETRY

3, 2/3; 1991-93; offered based on staff availability

Prerequisite: TEC 101. Solutions of space problems involving points, lines, and planes. Surface developments and intersections, conic section, vector geometry, and practical applications.

TEC 421 OCCUPATIONAL AND PRACTICAL ARTS EDUCATION FOR INDIVIDUALS WITH SPECIAL NEEDS

3, 2/3; 1991-93; offered based on staff availability

Primary emphasis placed on providing a wide range of guided exploratory experiences which relate to planning, delivering, coordinating and evaluating manipulative activity specifically designed for occupational and practical arts education programs, classrooms, laboratories, activity centers, sheltered workshops, nursing homes, hospitals, vocational rehabilitation centers, and summer camp activity programs; development of methods and techniques for teaching and assessing the activity potential of individuals with special needs. *Advanced technical credit.

TEC 428 MANUFACTURING TECHNICAL SEMESTER

3-6 cr. - days in industry by arrangement; offered based on staff availability

Prerequisite: Junior or senior status/permission

of instructor. Technical courses and/or in-plant participation in manufacturing; emphasis on production planning, technology of industry, and technology in industry; conceptual approach and practical experience in the organization, planning, production, and evaluation of the industrial manufacturing enterprise.

TEC 430 INTRODUCTION TO COMPUTER-AIDED DRAFTING (CAD)

3, 2/3; 1991-93

Prerequisite: TEC 101 or permission of instructor. An introduction to computer-aided drafting. A study of the principles and concepts of microcomputers as utilized in the preparation of working drawings. Utilize various devices for data entry; perform basic editing; storage and retrieval tasks; perform selected file management tasks; operate CAD output hardware.

TEC 465 SAFETY MANAGEMENT

3, 3/0; 1991-93

Development of the industrial safety movement; psychology in accident prevention; appraisal of accident cost factors, severity, and frequency; job safety analysis and corrective measures; plant inspection and preventive maintenance; storage and handling of materials; fire prevention; education and training of employees. *Required of TEC majors.

TECHNOLOGY EDUCATION

Offered by the Technology Department
DR. CHARLES A. BEASLEY, Chairperson
Upton Hall 315

DR. EUGENE C. STAFFORD, Coordinator
Upton Hall 128/314

OEC 301 PRINCIPLES OF OCCUPATIONAL EDUCATION

3, 3/0; 1991-93

Introduction to the teaching of occupational education courses in public schools; principles, philosophy, and objectives; historical development of occupational education and the development of current issues for an occupational education program. Required of TED, VOC-TEC, and BUS majors.

OEC 302 CURRICULUM AND EVALUATION IN OCCUPATIONAL EDUCATION

3, 3/0; 1991-93

Introduction to the teaching methods of occupational education courses in the public schools; introduction to test construction and evaluation techniques utilized in occupational education courses. Required of TED, VOC-TEC, and BUS majors.

OEC 303 METHODS AND MATERIALS IN OCCUPATIONAL EDUCATION

1, 1/0; 1991-93

Basic methods utilized in the teaching of occupa-

tional education courses in the public schools and the preparation of teaching materials to accomplish stated objectives. Utilization of teaching methods that take into consideration the role of race, gender, and culture, as well as the individual with special needs. Required of VOC-TEC and BUS majors. Elective for TED.

TEC 360* TECHNOLOGY EDUCATION METHODS AND EVALUATION

3, 2/2; 1991-93

Prerequisite: OEC 301, OEC 302, and EDF 303. Basic principles and methods of teaching technology education subjects; strategies utilized in planning for instruction; strategies utilized in evaluating students, course content, and overall program; teaching and evaluating students with special needs; and the preparation of instructional materials.

TEC 450* PROFESSIONAL SEMESTER

12, 5/0 (15 wks.); 1991-93

Prerequisite: EDF 303, OEC 301, OEC 302, and TEC 360; cumulative average 2.5 or higher. Full-time assignment in a junior and/or senior high school as a student-teaching intern working with a supervising teacher and a college supervisor; seminars on campus and in public schools to study teaching techniques, organization, management and other aspects of teaching Technology Education; guided full-time teaching experience including the use of videotape to analyze teaching; participation in school and professional activities. Students must be prepared to accept assignment at any center; have completed a minimum of 105 semester hours including all (33 semester hours) technology core courses of approved credit applicable for the Technology Education Certification Program; students may not enroll for any other college courses.

*Required of Technology Education majors.

See Technology (TEC) courses for description of courses listed in the Technology Education major.

VOCATIONAL TECHNICAL

Offered by the Technology Department
DR. CHARLES A. BEASLEY, Chairperson
Upton Hall 315

FRANK E. SHARKEY JR., Coordinator
Upton Hall 220, 312

VTE 100 COMPREHENSIVE THEORETICAL TRADE OR TECHNICAL SKILLS

15 cr.

VTE 200 COMPREHENSIVE TRADE OR TECHNICAL PERFORMANCE

15 cr.

These credits are awarded for satisfactorily completing the trade theory and performance

examinations. Admission to these examinations is based on verification of four years of work experience in a trade normally taught in vocational high school programs. Graduates of community college technical programs in appropriate trades are required to verify two years of work experience. The National Occupational Competency Testing Institute Examination is used to determine credit of 15 semester hours for each area. Earned examination credits will be recorded on student's transcript only after student has successfully completed the 33-credit VTE provisional certification program.

OEC 301 PRINCIPLES OF OCCUPATIONAL EDUCATION

3, 3/0; 1991-93

Introduction to the teaching of occupational education courses in public schools; principles, philosophy, and objectives; historical development of occupational education and the development of current issues for an occupational education program. Required of TED, VOC-TEC, and BUS majors.

OEC 302 CURRICULUM AND EVALUATION IN OCCUPATIONAL EDUCATION

3, 3/0; 1991-93

Introduction to the teaching methods of occupational education courses in the public schools; introduction to test construction and evaluation techniques utilized in occupational education courses. Required of TED, VOC-TEC, and BUS majors.

VTE 302 COURSE ORGANIZATION

3, 3/0; 1991-93

Techniques for analyzing a trade. Developing content for preparing students for employment. The organization of the New York state approved curriculum for occupational education. Developing course materials utilizing the New York state TOP Product.

VTE 306 LABORATORY MANAGEMENT

3, 3/0; 1991-93

Organizational factors that influence the success of the vocational teacher including facility planning, redesign, and all managerial phases of the vocational teacher's responsibilities.

VTE 404 METHODS OF TEACHING VOCATIONAL TECHNICAL SUBJECTS

3, 3/0; 1991-93

Basic principles and methods of teaching vocational technical subjects. Prepares the craftsman, technician, or engineer to effectively impart his/her knowledge to the learner.

VTE 413 PRACTICE TEACHING AND OBSERVATION

3, 6/0; 1991-93

Prerequisite: VTE 404 and NOCTI examination

or equivalent. Supervised teaching in vocational technical classes in selected vocational schools. Conferences and reports based upon teaching assignments will be required. Student should be prepared to accept an assignment at any school designated by the student teacher coordinator.

VTE 415 PROFESSIONAL DEVELOPMENT SEMINAR

3, 3/0; 1991-93

Opportunity to synthesize the pedagogical courses and practice-teaching experience and to analyze the problems which confront the teacher.

VTE 421 OCCUPATIONAL EDUCATION FOR INDIVIDUALS WITH SPECIAL NEEDS

3, 3/0; 1991-93

Primary emphasis on providing a wide range of experiences which relate to planning, delivering, coordinating, and evaluating occupational education programs for individuals with special needs found in secondary and postsecondary schools, rehabilitation centers, and correctional facilities; development of methods and techniques for teaching and assessing the work potential of individuals with special needs; development of self-help devices/adaptive equipment; and identifying instructional resources.

VTE 450 ORGANIZATION OF DIVERSIFIED COOPERATIVE WORK-STUDY PROGRAMS

3, 3/0; offered based on staff availability

Provides information for technology education or occupational education majors interested in establishing diversified cooperative programs. Included are procedures for promoting a new program, working with advisory boards, developing employment opportunities, arranging trainee outlines, planning instructional facilities, and securing regents accreditation.

VTE 455 OPERATION OF DIVERSIFIED COOPERATIVE WORK-STUDY PROGRAMS

3, 3/0; offered based on staff availability

A course for those interested in conducting effective instruction in diversified cooperative programs, including how to interview employers; supervise trainees; interpret legal aspects; prepare records and reports, and conduct classes in related theory.

Theater Arts

Offered by the Performing Arts Department
MYRON H. NADEL, Chairperson
Rockwell Hall 203

THA 100, 101, 102
PLAY READING

1 cr. ea. up to 3 cr., 1991-93 (E)
Reading and analysis of a variety of plays containing scenes appropriate for use in the various aspects of play production.

THA 106
INTRODUCTION TO THEATER ARTS

3, 3/0; 1991-93 (A)
An introduction to all aspects of theater. Includes discussion of professional, educational, and community theater.

THA 200
VOICE AND DICTION

3, 3/0; 1991-93 (A)
A comprehensive study of the speech mechanism and voice production.

THA 207
PLAY PRODUCTION

3, 1/4; F 91, 92 (A)
A hands-on introduction to all aspects of producing a play. Discussions include theater management, publicity, theatrical design, stage properties, and makeup. Participation on at least one preparation or run crew for performing arts productions is required.

THA 208
TECHNICAL THEATER

3, 1/4; offered by contract (E)
Prerequisite: THA 207 or consent of instructor. Continuation of THA 207 with emphasis on scenery and property construction. Studio projects include scene painting, objects duplication, and material simulation techniques. Participation on at least one preparation or run crew for performing arts productions is required.

THA 226
ACTING: THEORY AND PRACTICE

3, 1/4; F 91, 92 (E)
Prerequisite: THA 106 or consent of instructor. An examination of the actor's art, the relationship of theory to practice.

THA 260
BASIC MOVEMENT FOR ACTORS

3, 2/2; F 91, 92 (E)
Prerequisite: THA 106 or consent of instructor. Designed to give student actors a knowledge and awareness of their bodies so they can more fully incorporate the physical dimensions of acting into their character portrayals. (Appropriate for non-majors.)

THA 300
ADVANCED VOICE

3, 3/0; offered based on staff availability (E)
Prerequisite: THA 200. Further application and appreciation of vocal production methods with a special emphasis on individualized projects.

THA 310
ADVANCED TECHNICAL PROBLEMS

3, 2/2; offered by contract
Prerequisite: THA 208. Lecture on supervisory techniques and scene planning techniques. Examination of special problems; theories and the trends in technical theater; independent projects in technical theater.

THA 311
COSTUME FOR THE THEATER

3, 2/2; Sp 92, 93 (E)
Prerequisite: THA 207 or permission of instructor. A hands-on introduction to costume construction and design. Discussions include design theory, script analysis, fabric selection. Studio sessions on shop equipment. Costume construction for performing arts productions is required.

THA 312
LIGHTING TECHNIQUES

3, 2/2; offered based on staff availability (E)
Prerequisite: THA 207 or permission of instructor. An introduction to lighting design for theater, dance, studio, and industrial applications. Discussions include principles of optical systems, stage lighting equipment, color media, electricity, control systems, stage lighting, history, and the McCandless stage lighting system. Assigned practical experience required.

THA 315
PERIOD STYLES FOR THE THEATER

3, 3/0; offered based on staff availability (E)
A study of fashion and the decorative arts and how they relate to the period styles of theatrical productions.

THA 317
HISTORY OF THEATER:
ANCIENT TO RENAISSANCE

3, 3/0; F 91, 92 (A)
An examination of the origins and development of the physical theater; the consideration of dramatic literature in its theatrical context.

THA 318
HISTORY OF THEATER:
RENAISSANCE TO MODERN

3, 3/0; Sp 92, 93 (A)
The emergence of the modern theater, the consideration of dramatic literature in its theatrical context.

THA 319
PLAYWRITING

3, 3/0; offered based on staff availability (E)
Prerequisite: THA 106 or permission of instructor. Development of critical capacities in reference to the student's own work and that of his or her classmates; productive work in playwriting.

THA 326
SCENE STUDY

3, 3/0; Sp 92, 93
Prerequisite: THA 226 or equivalent. Scene analysis and role development with special

attention to the interaction of characters in a dramatic scene.

THA 360
ADVANCED MOVEMENT
FOR THE ACTOR

3, 1/4; Sp 92, 93
Prerequisite: THA 260. Continued exploration and development of the body as an organic tool for the actor. Concentration will be on the physical dynamics of the characterization and their integration into the total acting experience of voice, body, and mind.

THA 370
STAGE MAKEUP

3, 2/2; F 91, 92
Prerequisite: THA 207 and THA 226. Study of the principles and techniques of theatrical makeup application and design.

THA 407
ENSEMBLE THEATER

3-9, 0/6-18; 1991-93
Prerequisite: Audition. An examination of ensemble theatrical production through the preparation and performance of plays.

THA 411
ADVANCED COSTUME DESIGN
FOR THEATER

3, 3/0; offered based on staff availability
Prerequisite: THA 311 or permission of instructor. Advanced studies in costume design and rendering techniques. Drawing skills necessary; design and construction project for performing arts productions required.

THA 426
ADVANCED ACTING

3, 3/0; F 91, 92
Prerequisite: THA 326 and permission of instructor. Styles, periods, and methods of acting.

THA 450
DIRECTING

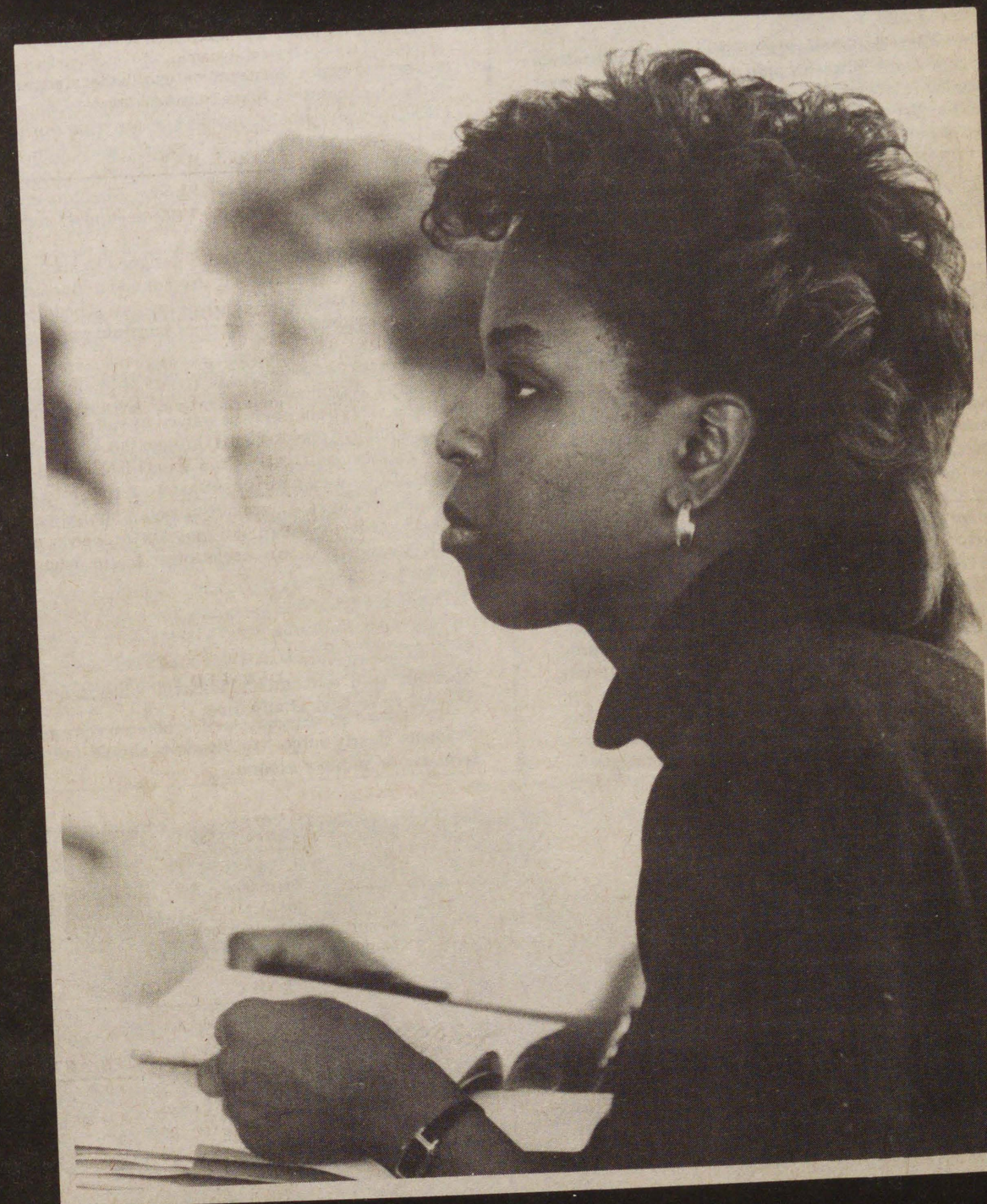
3, 3/0; Sp 92, 93
Prerequisite: THA 226 or permission of instructor. An examination of the responsibilities of the play director.

THA 495
PROJECT**THA 496**
SEMINAR IN THEATER ARTS

3, 3/0; Sp 92, 93
Prerequisite: 24 hours completed in theater arts. Examination of attitudes, sharpening of critical capacities; production of scholarly and creative works.

THA 499
INDEPENDENT STUDY

6

ACADEMIC
POLICIES

Academic Policies

The following college academic regulations apply to all students and all college sessions. Students are responsible for determining their academic programs and for meeting every degree requirement. Faculty members who act as advisers are obligated only to assist students in meeting this responsibility. Clarification of any requirements for the baccalaureate degree may be obtained from the faculty adviser, department chairperson or academic dean. Check with the Academic Standards and Certification Office, Twin Rise 130S, 878-5222, for clarification of other regulations or procedures.

Registration

The registrar has established the following registration procedures which all students must follow.

All currently registered students who will continue their studies during the next regular semester are required to register at advance registration.

Procedures for registering are published in the class schedule each semester. Class schedules are available for the fall semester in April, for spring in November, and for summer in March. Students are responsible for obtaining a schedule each semester according to the procedures established by the Records and Registration Office.

Students subject to possible dismissal under probation regulations should register, but they are not officially enrolled until their official status has been determined by the appropriate dean.

Academic advisement is mandatory for all matriculated students. Students who have declared a major must seek advisement by contacting the chairperson of the department responsible

for their major. Advisement for all other students is available in the Uncommitted Academic Advisement Center, Twin Rise 110S. This advisement can take place anytime during the semester prior to registration. The adviser must sign the student's advisement card. A student may remain "uncommitted" for three semesters or 45 semester hours. Students must declare a major prior to registering for work beyond 45 semester hours.

Schedule Adjustment Period is designed to accommodate students who find it necessary to drop or add a course after the start of classes. Dates and instructions for schedule adjustment period are published in the class schedule each semester.

The average course load for most undergraduates is 15-16 hours a semester. A student's class schedule may not exceed 19 hours a semester. This policy may be waived by submitting a petition to the Academic Appeals Board through the Academic Standards and Certification Office, Twin Rise 130S. It will take a minimum of two weeks for the board to respond to the petition. Students seeking a waiver of this policy should have an above average academic record. All requests for waiver of this policy must be submitted two weeks prior to the beginning of the semester.

Students with outstanding financial obligations will not be allowed to register at any time.

Students clearly subject to dismissal should not begin a new semester or summer session.



Academic Advisement: Role of Students and Faculty

Effective academic advisement is the interaction between a qualified adviser who is knowledgeable and sympathetic and a serious student who is motivated and receptive, as together they evaluate and plan the student's course of study.

The task of the adviser is to provide the guidance and information necessary for the student to make efficient progress in the pursuit of an academic goal. The adviser is responsible for being well-informed and ready to provide aid in the selection of specific areas and courses, and for helping the student fulfill academic regulations and interpret administrative policies. The task of the student is to seek advisement, to understand, and to be responsible for decisions. The student should be familiar with the sources of information on requirements, regulations, and policies. The college bears the responsibility for establishing procedures and providing a setting conducive to good advisement.

The student must be convinced that the adviser is interested, informed, and caring. The adviser must foster open two-way communication and be willing to share greater experience without attempting to impose value systems on the student. Therefore, advisement requires an environment of mutual respect, trust, and cooperation.

The adviser should maintain a view of the student's progress and be aware of any difficulties the student encounters. Personal, financial, health, study habits, and a host of other factors may directly affect the progress of a student's academic career. The good adviser should be willing to listen sympathetically to any problems arising from these factors and help the student to arrive at informed decisions. The adviser should be prepared to inform the student of options and campus sources available for the solutions of the problems that may affect academic performance. Since the academic adviser is often the only person on campus to whom the student can turn in times of indecision or stress, it is incumbent upon the adviser to ensure that the student's problems are treated with seriousness and concern.



Attendance

There is no uniform attendance policy set by the college. Attendance regulations are established by each instructor and will be distributed at the start of each semester.

Auditing Courses

Students may audit or take courses without earning credit provided they have the approval of the department chairperson and the instructor of the course. A person auditing a course will attend without formal recognition, not be on the official class list in the Records and Registration Office for such courses, not be required to meet the requirements of the course, and not be charged tuition or fees for the course.

Exception: Auditing is not permitted in any study-abroad program.

Special audit: Persons over 60 years old may audit courses if there is space available. Arrangements can be made through the Admissions Office, Cleveland Hall 206, 878-5511.

Dropping or Withdrawing from a Course

Dropping Courses

Students may completely cancel their registration in one or more courses during schedule adjustment period each term. Dropping a course at that time removes all record of the course from the student's transcript.

Withdrawal from Courses

Students who wish to leave a course after the schedule adjustment period and before the final withdrawal date (the end of the 10th week of the semester or fifth week of a summer session) may file withdrawal forms signed by the appropriate instructor with the Records and Registration Office, Cleveland Hall 204. Withdrawals remain on the transcript and are recorded as Ws, but do not count in credit hours or grade point average.

Instructors are required to apprise students of their academic standing not later than the end of the ninth week of the semester or the fourth week of a summer session. If a student does not officially withdraw from a course and stops attending, a grade of E will be recorded.

Students withdrawing from some course work may be eligible for a refund in accordance with the bursar's refund schedule. Beyond the end of the bursar's time limit full charges are assessed.

Declaring a Major

All students who have started as freshmen at the college must decide on an academic major before the completion of 45 semester hours. Transfer students who have completed more than 30 credits must declare a major at the time of application for admission. Before declaring a major, students should seek the advice of the chairperson of the department or division responsible for the major. A change of major form, available from the chairperson, must then be completed and sent to the Records and Registration Office.

Some academic programs have special requirements which the student must meet before being admitted as a major. For example, fine arts candidates must submit a portfolio of representative work. The department chairperson or program coordinator can provide information on specific requirements.

Changing a Major

Students who have completed at least one semester at Buffalo State may change their major by going to the department office of the new major and filling out a change of major form. It is recommended that they seek the advice of the department chairperson before deciding to change a major. If the change is approved by the chairperson, the form will be forwarded to the Records and Registration Office for recording. Such changes should be made at least four weeks before registration for the next semester so that students are not restricted from registering for any course in their new major.

A student on probation will not be permitted to transfer to a new major without the approval of the faculty responsible for the new major.

Dual Major, Single Degree

A student may fulfill the requirements for two majors and receive a designation on the official transcript indicating the completion of a baccalaureate degree with a major and the fulfillment of requirements of a second major. The student must identify a primary major in which the degree will be awarded. In fulfilling the requirements of a second major, the student will make careful use of electives. The student files for a degree in the Records and Registration Office indicating on the degree form the degree major and the second major. Upon receipt of the degree, the student's transcript will contain two entries: (1) the major degree and (2) a second notation that "this student has also completed all requirements for a second major in the appropriate area."

Regular advisement of the student is done by the primary major adviser. Students opting for a dual major should contact the department involved, request a review of their progress and academic advice concerning the second major, and complete a declaration of second major form. Only one baccalaureate degree may be awarded for a four-year, 123 credit hour program.

Dual Baccalaureate Degrees

The awarding of two degrees at the baccalaureate level may occur under given circumstances. Course work in fulfillment of requirements for two baccalaureate degrees (B.S. or B.A. or both) may be undertaken simultaneously or concurrently, but requires significant additional course work (at least 32 hours—usually one additional year) in distinctly different fields. Exceptions to this requirement are the bachelor of fine arts and bachelor of technology, in which instances two degrees may be awarded upon the fulfillment of requirements of each degree. Students must earn a minimum of 155 credit hours to qualify for two baccalaureate degrees. Advisement should be sought from the Academic Standards Office, Twin Rise 130S.

Leave of Absence/Withdrawal from College

Leave of Absence

Matriculated students who wish to leave the college for personal or financial reasons may be granted leaves of absence of up to one full year as long as they are in good standing with at least a 2.00 cumulative average. They may take up to two full semesters beyond the one which they are completing when applying for a

leave. A leave will not be granted to study at another college or university.

Students wishing to begin a leave during a semester already in progress must make application before the end of the first 10 weeks of the semester. These approved leaves will begin at the date of the request, and the student will be included in the one full year allowed for the leave. Notification to resume studies must be made by the student to the Records and Registration Office.

Emergency medical leaves of absence of varying lengths of time are granted for documented serious injury or illness.

An application for leave of absence form is used to apply for a leave. It can be obtained in the Academic Advisement Office, Twin Rise 110S, 878-5223, or in the appropriate dean's office. Begin the application by conferring with the department chairperson.

Withdrawal

To maintain good standing and eligibility for readmission to the college, students finding it necessary to withdraw must do so officially. Refunds of tuition will be made on a prorated basis up to the fourth week of classes of the semester.

To officially withdraw, a student must:

1. Consult the department chairperson and obtain an Application for Withdrawal From College form from the appropriate dean's office.
2. File the form with the Records and Registration Office, Cleveland Hall 204, and complete the withdrawal procedure as outlined by that office.

Failure to file for withdrawal will result in the recording of an E grade in each course in which the student is registered. Where it is impossible to withdraw in person, it must be done by a letter from the student or parent to the dean. Students withdrawing officially with no outstanding obligations or commitments to the college are considered to be in good standing.

Graduation/Commencement

All students expecting to qualify for a degree must fulfill certain requirements. They are:

1. File application with Records and Registration Office, Cleveland Hall 204, by the specified date. Failure to make application before the date may eliminate the student from the commencement program and unduly delay the granting of the degree.
2. Students must meet all financial obligations to the college and return all college property.
3. Students must meet all curricular requirements. They must have completed the prescribed curriculum for their major. If requirements have changed since they were admitted to a program, they may choose to graduate under the old or new requirements.
 - a. Students must maintain a 2.00 cumulative average for all course work taken at the college. The cumulative average for the courses taken in the major field must also be at least 2.00. All students must satisfy the English composition and basic mathematics requirements.
 - b. Students must have taken 60 hours in the general education area.
 - c. All candidates must have completed a minimum of 45 hours of upper-division course work, courses generally considered advanced and numbered 300-499.

d. A minimum of 32 hours, including the last 16, must be completed at the college.

e. Foreign language requirement, where appropriate, must be fulfilled.

f. All students must take two one-credit HPR 100-level physical education activity courses or a two-credit course HPR 200 Fitness for Living.

g. A minimum of 121 academic credit hours must be completed for graduation. This, in addition to the two credits of physical education activity courses, makes 123 credits, the minimum needed for graduation.

4. Elementary education majors must fulfill a drug education requirement (described elsewhere in this section) and must file an application for a certificate in teacher education. This application can be picked up at and returned to the Certification Office, Twin Rise 130S.

5. No student will be cleared for graduation until all symbols of I, N, or X have been replaced with an appropriate grade.

Commencement

Commencement is held each year at the end of the spring semester. All degree requirements must have been completed before students may participate in commencement exercises.

Grading

The college uses letters to indicate the status of a student at the completion of a course. All grades are awarded at the sole discretion of the faculty member in charge of the course. A grade must be submitted for every student on the course roster at the end of the semester. Students will be apprised of evaluation policies in each class at the beginning of every semester. Instructors will inform students of their standing in each course by the end of the ninth week of the semester, the fourth week of a summer session, or the second week of a summer module. Questions regarding grading policies or an individual grade received in a particular course should be addressed to the instructor or to the instructor's department chairperson.

Grades awarded by the college are:

- A — Superior work
- B — Above average
- C — Average
- D — Below average, but passing
- E — Failure or unofficial withdrawal from a course
- S — Satisfactory
- U — Unsatisfactory
- P — Pass
- F — Fail

The following letters are used to indicate status:

- I — Incomplete
- N — Grade delayed
- X — Grade not submitted
- W — Withdrawn

Explanation of Grades

Satisfactory and unsatisfactory grades are reserved for student teaching or other field experience which is not readily evaluated by the normal letter grades and basic skills courses. **P (Pass)** and **F (Fail)** grades are given for courses taken on a pass-fail basis (see description below). They may be submitted only under

proper authorization. A "W" may be submitted only when a student has formally withdrawn from a course. An "I" may be submitted only when the department chairperson or program coordinator has been properly notified. An "N" may be given when course work normally carries over from one semester to another and when it is necessary to delay grading to a subsequent semester. This is intended for graduate theses/projects and internships. The "N" may be submitted only with the permission of the department chairperson or program coordinator.

Incompletes: An instructor may grant an incomplete only when circumstances leading to a student's failure to complete course requirements are known to be beyond the student's control, for example, serious illness or unavailability of material. An Incomplete Course Contract form must be completed and signed by both the student and the instructor granting the I grade.

Incompletes must be converted to a letter grade by the tenth week of the following spring or fall semester. Anyone not completing the course requirements within this time will automatically have an E recorded. In the event the instructor who granted the incomplete is not able to evaluate the student's fulfillment of course requirements during the stipulated time period, the chairperson or program coordinator will take responsibility for changing the grade.

Pass-Fail System

The pass-fail option permits any matriculated student with at least sophomore standing and a 2.20 cumulative average to take a course for credit without receiving a letter grade of A, B, C, D, or E. Students may enroll in one course each semester or summer session on a pass-fail basis. A pass **P** provides credit but no quality points and is not counted in total hours used to determine cumulative average. A fail **F** is treated as a failure although the hours are not used in computing the cumulative average. A pass-fail cannot be used as an E-repeat. No more than 18 hours of pass-fail credit may be applied toward a degree. Courses required for the student's major and minor cannot be taken on a pass-fail basis.

Any course, except English composition 100-level courses or Math 100 or any course required for completion of a major or a minor, may be taken on a pass-fail basis. Students must declare their intention to do so by the end of the seventh week of classes in any semester or by the end of the first half of classes in the summer. After receiving the approval signature of the student's adviser, a declaration of intent must be filed with the Records and Registration Office, Cleveland Hall 204. An instructor may choose to substitute a letter grade for the pass if he receives written consent from the student.

NOTE: Students are cautioned that the amount of pass-fail work permitted may jeopardize their chances for admission to graduate or professional school or for career placement.

Quality Point System

The quality point system is used for determining all cumulative averages. A student receives four quality points for each hour of A earned; three points for each hour of B; two points for each hour of C; one point for each hour of D; and zero points for each hour of E or F. No other letters carry quality point value. A student's cumulative average is computed by dividing the total number of quality points awarded by the total number of semester hours attempted in which a grade of A, B, C, D or E is earned.

An example may be useful. A student has the following courses and grades at the end of a semester:

Course	Grade	Credit	Quality Point Value	Quality Points
MAT 161	B	4	(x3)	= 12
SOC 101	A	3	(x4)	= 12
ENG 250	E	3	(x0)	= 0
HPR 101	C	1	(x2)	= 2
PHI 220	D	3	(x1)	= 3
		14		29

The student has attempted 14 credits, successfully completed 11 and earned 29 quality points. The cumulative average is $29 \div 14$ or 2.07.

If the student had taken an additional three-credit course, DES 371, and received a **P**, the cumulative average would not change. If the student received an **F** in DES 371, using the pass-fail option, the cumulative average would not change.

Change of Grade

Grades submitted at the end of the semester are considered final and may be changed only under these special circumstances:

1. In the event of a clerical error resulting in an incorrect grade, the instructor must submit a written request to the office of the appropriate faculty dean requesting a grade change. Requests will be accepted only during the period before April 1 for fall and summer courses and Nov. 15 for spring courses. The appropriate dean must approve all grade changes.
2. Any other request for a grade change will be considered by the appropriate dean only if accompanied by a full written justification from the instructor.

Repeating Courses

A student may repeat a course for which an **E** grade was earned. If the student subsequently passes, only a passing grade and those semester hours completed will be used in determining the cumulative average. If a course is failed more than once and subsequently passed, then the passing grade will replace only one failing grade in the determination of the cumulative average. All grades remain on the permanent record. The student must file the appropriate form in the Records and Registration Office, Cleveland Hall 204, by the end of the fifth week of classes in the semester in which the course is repeated or by the end of the second week of classes in the summer. Students may not use pass-fail to E-repeat a course. A passing grade will not replace an **F** or **U** grade. Courses with grades **A**, **B**, **C**, or **D** cannot be repeated.

Honors

Dean's List

Students earning a one-semester grade point average of 3.50 or higher for a minimum of 12 credit hours will be named to the Dean's Honors List for that semester. Grades of **S** and **P** will not be counted. Students are ineligible for honors if they are student teaching or have incomplete course work **I**, **N**, **X** or a grade of **U** in a course for that semester.

An honors citation is given graduating students who have maintained a 3.50 or higher average for all work completed here.

Students with an average of 3.80 to 4.00 will be designated summa cum laude; 3.65 to 3.79 magna cum laude; and 3.50 to 3.64, cum laude. To be considered for an honors citation, a student must complete at least 60 credits at the college. No students with outstanding grades of **I**, **U**, **X**, or **N** may be considered for honors. (See section explaining grades.)

All-College Honors Program

The All-College Honors Program is designed to address the needs of academically gifted students within the framework of the 60-hour general education requirement. The All-College Honors Program requires 30 hours of honors credits earned across disciplines in the arts, humanities, social sciences, math/science, and applied science and technology. Students must maintain a 3.50 cumulative grade point average overall and a 3.25 average in honors courses to remain in the All-College Honors Program.

Students interested in this program should contact the Admissions Office or the coordinator of the All-College Honors Program.

Honors in Majors

Many departments have programs leading to baccalaureate degrees with honors. Generally these departments require special criteria for admission to the departmental major and six credits of predetermined honors work to earn the distinction.

Students interested in Departmental Honors Programs should contact the department of their choice to determine if there is a Departmental Honors Program in the major. Currently, the following majors can be pursued as baccalaureate degrees with honors: Anthropology, Biology, Criminal Justice, Design, Economics, Geography, Geology, Geosciences, History, Journalism, Broadcasting, Performing Arts, Philosophy, Physics, Psychology, and Urban Regional Analysis and Planning.

Honors Convocation

This recognition of academic excellence is held every spring semester. Students with a cumulative grade point average of 3.50 or higher after 45 credit hours are invited to attend the Honors Convocation with family members and a faculty guest. (Transfer students are eligible after completion of 30 credit hours.)

Academic Probation/Dismissal

Good Academic Standing

The term "in good standing" means that a student is eligible or has been allowed to register for and undertake academic course work at the college for the term in question. In some instances a student may be defined as being "on academic probation." The mechanism of academic probation, including any accompanying constraints upon a student's activities, is intended merely as an educational device designed to encourage greater effort on the part of a student who appears to be having difficulty in meeting certain academic standards. Placement on academic probation may precede denial of the right to register for academic course work if certain conditions are not met, but a student on academic probation is considered to be in good academic standing. Any questions concerning whether or not an individual student is in good academic standing will be determined by the campus committee on academic standards.

Probation

A student whose cumulative average falls below a 2.00 is automatically classified as on academic probation. The cumulative average is determined at the end of each semester and is included on the term grade report. A student on probation has until the completion of the next regular semester to raise the cumulative average to 2.00. Failure to do so by that time may result in dismissal from the college.

A student facing dismissal because of a low cumulative average may appeal that status by seeking a hearing before the appropriate Probations Appeal Board. An appointment may be made in the dean's office of the faculty responsible for the student's major program. Uncommitted students (who have not enrolled in major programs) can make such an appointment in the Academic Advisement Office, Twin Rise 110S. The dean or director of Academic Standards may extend the period of probation according to the merits of the individual student's case.

Each student on probation must report grades to the appropriate office cited above at the end of the semester. The student grade and average report form is available for this purpose.

Academic Dismissal

A student may be dismissed from the college for:

1. Failing any course for the third time.
2. Failing one-half or more of a semester's work.
3. Failure to satisfy the probation regulations.
4. Failure to complete basic skills requirements by the end of the sophomore year.

A student who has been academically dismissed must wait one full year from the time of dismissal before being considered for readmission. If readmitted, all course work taken previously will be considered in computing the cumulative average.

Readmission forms are available in the Admissions Office, Cleveland Hall 206.

Academic Misconduct

All students at the college are expected to display honesty and integrity in completing course requirements and college academic regulations. "Academic misconduct" refers to plagiarism or cheating on examinations or assignments, and is inconsistent with the aims and goals of Buffalo State College. Specifically, students may neither use the work of another individual without proper acknowledgement nor perform work for another individual. Other examples of inappropriate academic conduct include prior acquisition or possession of an examination or submission of false data. As a result of a sustained allegation of academic misconduct, a low or failing grade for part or all of the course work may be given to the student, at the discretion of the instructor. No penalty for an alleged instance of academic misconduct may be imposed unless the student has been apprised of the allegation, the penalty, and the procedures of due process that are available.

A statement outlining formal college policies and procedures to be followed in cases of alleged academic misconduct will be on file in each dean's office, in the Academic Standards Office, and in the Student Life Office.

Cases of severe infractions of acceptable standards may be brought before the Academic Misconduct Board, chaired by the director of Academic Standards, and may result in academic dismissal.

Academic Eligibility for Financial Aid

Financial aid guidelines require that to continue to receive financial aid a student must show evidence of making satisfactory academic progress toward a degree.

The state (TAP) and federal Title IV (Pell, NDSL, SEOG, CWSP, and Stafford Student Loan/NYSHESC) regulations for eligibility are basically concerned with **program pursuit** for each semester and **satisfactory academic progress**, which is a cumulative item. These regulations affect all students regardless of the date of their first award. (Note Title IV chart on following page.)

Good Academic Standing — is defined as the eligibility charts below suggest. To be in good academic standing a student must have completed the minimum number of credit hours for the appropriate semester of enrollment AND have maintained at least the cumulative grade point average listed for that semester.

Reasonable Progress Toward a Degree — In addition to good academic standing requirements, it is necessary for recipients to be full-time students and to pursue an academic program at a minimum rate of progress.

The charts below indicate the minimum criteria for pursuit of a program and satisfactory academic progress. TAP allows a one-time waiver for students who may be temporarily below the standards of good academic standing. Title IV regulations allow a student to continue receiving aid when mitigating circumstances prevent the student from remaining in good academic standing.

Undeclared Students — To be eligible for TAP or Title IV funds, an undeclared student **must** declare a major no later than the beginning of the junior year or after the accumulation of 57 credits.

Critical questions may be directed to the Academic Standards and Certification Office, Twin Rise 130S, 878-5222.

Level Codes (Academic)

Students are given class designations according to the number of credit hours they have earned. Undergraduate levels are:

Freshmen — 0 to 28 hours
 Sophomores — 29 to 56 hours
 Juniors — 57 to 88 hours
 Seniors — 89 hours and over

TAP Academic Eligibility Chart

		Award Terms									
		Semester	1st	2nd	3rd	4th	5th	6th	7th	8th	9th 10th
EACH SEMESTER	Pursuit of Program										
	1. No. of credit hours enrolled		12	12	12	12	12	12	12	12	12
CUMULATIVE	2. No. of credit hours completed in the previous semester with a passing or failing grade		0	6	6	9	9	12	12	12	12
	Satisfactory Academic Progress										
CUMULATIVE	3. No. of credit hours through end of previous semester		0	3	9	21	33	45	60	75	90 105
	4. Cumulative grade point average through end of previous semester		0	1.00	1.20	1.30	1.40	1.50	1.60	1.70	1.80 1.90

Title IV Academic Eligibility Chart

		Award Terms									
		Semester	1st	2nd	3rd	4th	5th	6th	7th	8th	9th 10th
EACH SEMESTER	Program Pursuit										
	1. No. of credit hours enrolled		12	12	12	12	12	12	12	12	12
CUMULATIVE	2. No. of credit hours completed in the previous semester with a passing or failing grade		0	6	6	9	9	12	12	12	12
	Satisfactory Academic Progress										
CUMULATIVE	3. No. of credit hours accrued through end of previous semester		0	3	9	21	33	45	60	75	90 108
	4. Cumulative grade point average through end of previous semester		0	1.50	1.80	1.80	1.90	1.90	2.00	2.00	2.00 2.00

Alternate Methods of Earning College Credit

Advanced Placement Examinations

Credit may be granted for acceptable scores in approved advanced placement examinations, provided the subjects meet the curricular requirements of the specialized units of the college. Approved examinations include: New York State College Proficiency Examinations (CPEP), College Entrance Examination Board Advanced Placement Examinations (AP), College Entrance Examination Board College Level Examinations (CLEP).

Students receiving the lowest passing grade may be admitted to an advanced course but will receive no credit for the beginning course that was exempted. All other passing grades carry college credit. Before taking such an examination for credit, students already enrolled at the college must receive advance approval from the appropriate department chairperson. When the examination subject is the same as or overlaps a college course already credited, no new credit will be granted.

Course Challenge

Each department determines which courses may be challenged by examination. Matriculated undergraduate students may

earn college credit by challenging the specially designated courses. The following rules apply:

1. Total challenge credit may not exceed 30 credit hours.
2. A course in which a student is currently enrolled may not be challenged.
3. A course may not be challenged more than once.
4. Credit earned will be recorded as credit (CR) only rather than by grade.
5. No credit will be awarded when the challenged area duplicates an area for which credit already has been awarded.
6. A student *must* be a matriculated student to register for a course challenge.

Contract

Taking a course by contract is one form of independent study open to students who have reached sophomore level and are in good academic standing. Students are provided with a course outline, bibliography, statement of responsibilities, and dates by which responsibilities are to be met. Students may then pursue the course independently under the guidance of a faculty member. The number of conferences, type of evaluation, and culminating activity will be decided by the faculty member and the student before registration for the course. These requirements must be filed with the department chairperson.

Freshmen are also eligible to take courses by contract under special circumstances. They may do so if:

1. They are in their second semester of a one-year course and have a grade of **A** or **B** in the first semester part of the course.
2. They have successfully challenged the preceding course in the sequence.
3. They have entered the college with excellent high school school records or have done honors work in pertinent fields in high school.

Application forms are available in the academic department and the Records and Registration Office, Cleveland Hall 204, and must be filed with that office by the deadline date published in the class schedule each semester. Applications must be signed by both the instructor and department chairperson.

Credit for Experiential Learning (CAEL)

Credit for college-level experiential learning is available at the college through a program affiliated with the Council for the Advancement of Experiential Knowledge (CAEL). Students who consider their previous learning experience as college-level creditable may enroll in AEL 100, Educational Assessment and Portfolio Development, a three-credit course. Enrollment in AEL 100 will be granted only with permission of the Lifelong Learning Office. Permission is contingent upon the interested individual attending an information session which is conducted each semester by the Lifelong Learning Office and the Admissions Office. This information session is designed to familiarize individuals with the portfolio development process. In AEL 100, students will conduct a self-appraisal and inventory of all potentially creditable prior learning. The portfolio will be treated as an application to appropriate departments for the award of college credit.

Within the guidelines noted below, credit for experiential learning follows essentially the same principle as transfer credit — students may receive credit for knowledge gained elsewhere that conforms to existing college courses. Students may receive a maximum of 30 credit hours. Credit will be awarded on the basis of its correspondence to existing Buffalo State College

courses. Credit earned will be recorded as credit (CR) only, rather than by grade.

For information, contact the Lifelong Learning Office, Twin Rise 100, 878-5906.

Cross Registration

Students who have reached the sophomore level may take courses at any public or private college in Western New York with which Buffalo State has a cross-registration relationship for degree credit as long as they maintain a 12-hour credit load at Buffalo State. They may enroll for no more than one course elsewhere in any semester. Students who fall below the 12-hour load at the college will forfeit any credits earned at another institution that semester under the cross-registration procedure.

Students wishing to take a course on another campus that will apply toward a major must receive permission from the department chairperson. Cross-registration approval forms are available at the Records Registration Office, Cleveland Hall 204, and must be signed by the department chairperson and returned to the Registration Office for signature. Students must then take the signed cross-registration approval to the appropriate campus where they must register according to the registration procedure of that campus.

Off-Campus Study

Courses may be taken at other institutions locally or elsewhere for transfer credit as long as approval from the department chairperson is obtained and the proper forms from the Records and Registration Office, Cleveland Hall 204, are filled out and returned to that office.

Students are urged to have transcripts of all course work completed elsewhere forwarded to the Records and Registration Office as soon as possible. Any credits taken at a two-year institution after a student has achieved upper-division status cannot be applied to degree requirements. Course work undertaken elsewhere, other than by cross registration, will be recorded as credit on the college transcript.

Independent Study (499)

Independent study provides students with the opportunity to pursue a topic that may be covered only briefly or not at all in regular course offerings. Students may choose a faculty sponsor who is an expert in the selected topic, and together they work out all aspects of the study, including the method of evaluation. The description of the study must be approved by the chairperson of the department sponsoring the study.

Students electing to do independent study should have a degree of knowledge in the area they have chosen in addition to a strong motivation to work alone much of the time. Independent study is never a substitute for a course already being offered that term.

Specific requirements for independent study are:

1. Sophomores, juniors, and seniors who have satisfactorily completed basic courses or their equivalent in the area of study chosen are eligible to participate. They need a minimum cumulative average of 2.00 and an average of at least 2.00 the previous semester plus a better than 2.00 average in work completed in the selected area. Freshmen who have successful advanced preparation in the selected area may also be allowed this option.
2. The study must be relevant to the student's total program, and it must be such that the student will derive special benefit from supervision by the college staff. The study must meet

standards established for such programs by the department or program.

3. No independent study may be undertaken for fewer than three credit hours. A maximum of 30 credit hours in all areas may be taken independently by a student. No more than two independent studies may be taken in one semester.

Further information is available from the department chairpersons and program coordinators. Application forms are available in the academic department and the Records and Registration Office, Cleveland Hall 204, and must be filed with that office by the deadline date published in the class schedule each semester.

Project (495)

Upperclassmen may undertake a project related to a required course for up to three credit hours per project. No more than six semester hours of academic project work is allowed. Application forms are available in the academic department and the Records and Registration Office, Cleveland Hall 204, and must be filed with that office by the deadline date published in the class schedule each semester.

Internship (488)

Internship programs provide students with guided and supervised field experiences (experiential learning) as part of their degree programs. Students who wish to participate in the program MUST have at least a 2.00 GPA and a background of courses or experience within the area of interest. Approval for experiential learning situations must be obtained from either the student's adviser or the chairperson of the department within which the student is a major, the supervising faculty member, and a chairperson of the department within which credit will be granted. An individual student will be permitted to apply a maximum of 15 credit hours toward the baccalaureate degree.

Topics Courses (189 and 389)

The topics format provides the opportunity for in-depth study and examination of rapidly and significantly changing disciplinary issues, topics, or practices and may also be used to accommodate requests of external agencies or the specialized resources of visiting faculty members. An individual student may accumulate a maximum of nine credit hours in one discipline.

Military Service Educational Experience

College credit may be awarded for education received through military service, specialty schools, technical training schools, and basic training programs. Request for such credit should be made to the Admissions Office, Cleveland Hall 206. Documents showing completion of such courses should accompany all requests.

The maximum credit allowed from such sources is 15 hours. Evaluation of this experience is based on its relation to college degree requirements and recommendations suggested by the American Council on Education Credit Manual.

Credit by Evaluation

Up to 45 credit hours may be accepted from the following sources:

Source	Maximum Credit Hours
1. Published examinations	30
No more than 18 may be in general examinations	
2. Course challenge	30
3. Military service courses	15
4. Non-collegiate institutions	15
5. Proprietary institutions	15

Published Examinations: Included in this category are nationally given subject and general examinations sponsored by the College Level Examination Program (CLEP), Advanced Placement Program (APP), and College Proficiency Examinations (CPE). Passing grades are required for credit.

Course Challenge: Requirements are outlined above.

Military Service Courses: Requirements are outlined above.

Courses from Non-Collegiate Organizations: For credit to be granted, the institution must be approved by the State Education Department and listed in its "A Guide to Educational Programs in Non-Collegiate Organizations." Non-collegiate organizations are those whose primary function is not education, such as the American Institute of Banking. Such credit applies primarily to the major and is determined by the appropriate department.

Courses from Proprietary Institutions: The institution must be approved by the State Education Department and listed in its official publication of approved institutions. Proprietary institutions are privately owned and profit-making such as Bryant & Stratton Business Institute. Such credit is applied primarily to the major and is determined by the appropriate department.

Transcript of Record

Official transcripts of records are not issued directly to students but will be forwarded upon request to authorities whom the student may designate.

A student copy may be ordered for personal use. A \$5 fee must be paid for each transcript requested. Proper identification and 24-hour notice is required when picking up the student copy. Transcript request forms are available in the Records and Registration Office, Cleveland Hall 204.

Transcripts will not be furnished for students who have incurred a financial obligation to the college.

Transcript requests sent by mail include the student's name, current address, student (Social Security) number, dates of attendance, graduation date (if applicable), name and address of the party to whom the transcript is to be sent, the student's signature authorizing release of the transcript, and a \$5 check or money order payable to State University College at Buffalo. All checks or money orders must include student (Social Security) number.

Transcript requests by telephone cannot be honored.

All requests are acted upon in the order in which they are received. Sufficient time is necessary for processing. Requests for transcripts should be made well in advance of the date on which the transcript is needed.



Teacher Education

Important Notice: At the time this catalog went to press a number of significant changes were being considered in teacher education programs. Students should check with the appropriate department for the most current information.

New York Certification

All students who successfully complete an approved program in teacher education will be recommended to the New York State Education Department for a certificate of qualification. Applications for certification can be obtained by attending the All College Student Teaching Seminar or at Twin Rise 130S.

The New York State Education Department regulations require an examination. A satisfactory performance on this exam is necessary before a certificate can be issued.

National Teacher Exam

Successful completion of the National Teacher Exam is required for certification in New York state. Generally, the Communication Skills and General Knowledge tests should be taken about the time a student has completed 64 hours of study, thus allowing time for remediation should it be necessary. All teacher education students are required to complete the General Knowledge and Communication Skills portion of the NTE with at least the minimum acceptable New York state scores prior to placement in a student-teaching experience. Students are responsible for ensuring that NTE scores are officially released to departments in time to meet placement deadlines for student teaching or other course requirements. Students should consult with advisers to ascertain requirements of individual departments.

Dual Certification

Certification in two teaching areas — such as high school Eng-

lish and social studies or elementary education and special education — gives students wider career possibilities. Like a dual major, dual certification may require a student to complete more credits than the 123 required for graduation. A list of possible dual certification combinations is available in these offices: Academic Standards and Certification, the deans, and the Secondary Education Interdisciplinary Unit.

Interstate Certification

As a participant in the Interstate Certification Project, Buffalo State has reciprocity agreements with a number of other states allowing its graduates to be certified there. These include reciprocity with 32 states for classroom teachers, with 10 states for vocational teachers, and with 14 states for administrative personnel. These lists are posted near Twin Rise 130S. More details may be obtained from the director of Academic Standards and Certification.

Drug Education

All persons certified to teach in the public elementary schools of this state are required by state law to have had sufficient background in the area of drug education so they are prepared to give adequate instruction which will discourage the misuse and abuse of alcohol, tobacco, and other drugs and promote attitudes and behavior that enhance health, well being, and human dignity. Students should check with their advisers about ways of fulfilling this requirement.

Secondary Education Professional Core

All secondary education programs include a 24-credit hour professional core. The core is intended to fulfill the requirements of Buffalo State's registered programs in secondary education, State Education Commissioner's Regulations, and National Council for Accreditation of Teacher Education (NCATE). Therefore, the following courses represent the pro-

fessional core of the certification requirements in all secondary education programs.

SST 200/SED 200	Field Experience: Secondary Education and Related Careers
EDU 303/SED 303	Educational Psychology for Adolescents
EDU 403/SED 403	Forces Influencing Secondary Education
EDU 416/SED 416	Teaching Reading in the Secondary Schools*
XXX XXX/XXX XXX	Methods in the Content Area
XXX XXX/XXX XXX	Student Teaching and Professional Seminar in Content Area

*Mathematics majors substitute MAT 181-182

(Teacher education programs offered by Buffalo State College are accredited by the National Council for Accreditation of Teacher Education.)

For more information regarding certification procedures, contact the director of Academic Standards and Certification, Twin Rise 310S.

Certification for B.S./B.A. Degree Holders

Holders of a B.S. or B.A. degree may complete certification requirements in secondary education programs. It is advised that they commit to the appropriate major. Otherwise, there is no guarantee that required course work will be available. The following requirements apply.

1. The secondary education professional core, as described above, must be completed.
2. A department may require subject matter courses in the major area to remove deficiencies.
3. All requirements listed in the professional core and all subject matter courses must be completed before the student teaching semester.
4. A full semester of student teaching (12-15 credit hours) must be successfully completed. Student-teaching placements will be based on availability of faculty resources after the program majors are assigned.

Holders of a B.S. or B.A. degree interested in certification for elementary or exceptional education are advised to commit to the appropriate major. Otherwise, there is no guarantee that required course work will be available.

Student Teaching

Student-teaching experiences are coordinated through the departments. Attendance at an orientation meeting conducted by the director of academic standards and certification (Twin Rise 130S) is mandatory. Each student must fulfill the requirements in the Student Teaching Handbook, which is distributed prior to student teaching. Evidence of successful completion of the General Knowledge and Communication Skills portions of the NTE must be presented to the department by June 1 for a fall semester placement or by October 1 for a spring semester placement.

Transportation to Off-Campus Instructional Sites

Students have the responsibility for providing their own transportation to off-campus sites for required courses, including student teaching and participation.

Unit of Credit

The semester hour is the unit of course credit. It represents completion of one 50-minute class period per week for one semester. A course having the three class periods a week will earn three semester hours of credit. Studio, laboratory, and shop classes usually earn one credit for each two hours of attendance unless otherwise indicated. The college expects student preparation of two hours for each hour in class.

Waiver of Academic Regulations

Students are expected to adhere to all regulations of the college. However, unusual and extenuating circumstances may warrant a modification of certain regulations.

Students should not request a waiver of any regulation without very strong evidence to justify the waiver. No retroactive requests will be honored.

The director of Academic Standards and Certification makes decisions on requests for waivers which do not relate to a student's major after consulting with the Academic Appeals Committee. The director's decision is final. A minimum of one month is necessary to process academic appeals.

Decisions on requests for a waiver related to a student's major are made by the appropriate department chairperson in accordance with procedures established by the department or area faculty.

Transfer Students

Credits previously earned will be evaluated for all transfer students upon receipt of official transcripts, and all transfers will receive a copy of this evaluation. A maximum of 91 semester hours may be transferred from other accredited institutions, no more than 65 hours of which may be transferred from two-year colleges.

No credits will be accepted from a two-year institution after a student has earned an associate's degree or its equivalent (57) from a four-year institution.

All passing grades will be evaluated on the same basis as grades earned by students at this college.

Most credits from another institution will be accepted, although the college cannot guarantee how credits earned at a two-year institution will relate to bachelor's degree requirements. The most common cases in which transfer credits are not accepted are:

1. Secretarial science courses (except for transfers in the business education or office administration majors).
2. Developmental courses in mathematics, English and learning skills.
3. Courses in theology or religion with sectarian emphasis.

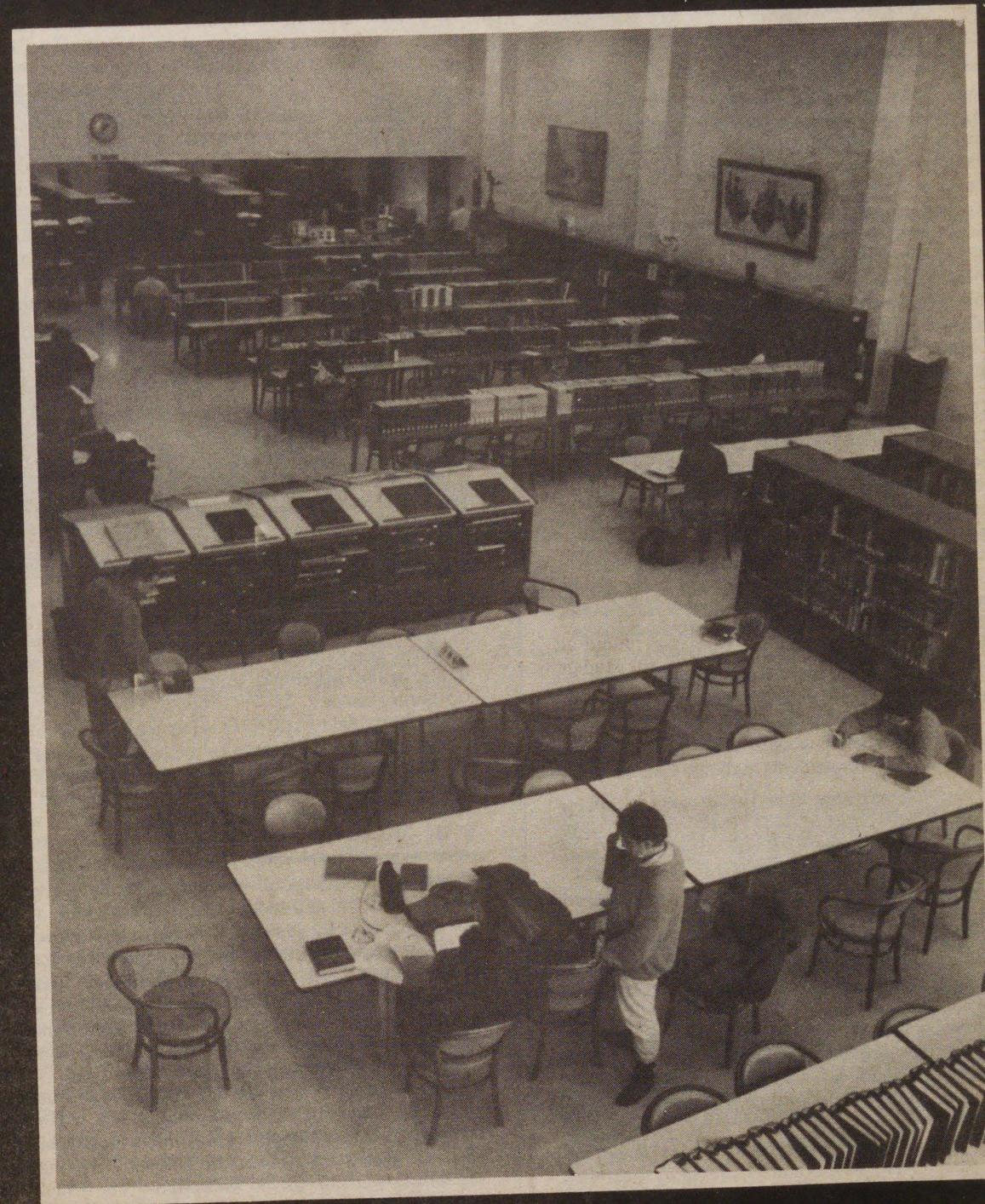
Only credit is transferable. Grades, quality points, and cumulative averages do not transfer.

The evaluation of transfer credits is recorded on an audit sheet. Each department has such a form arranged to reflect all of the major and general college requirements which have already been fulfilled and those which remain.

Departments reserve the right to refuse to accept transfer credits in fulfillment of their own major requirements. Whether or not a course fulfills a major requirement may be open to discussion with the department chairperson or academic adviser, and it is useful to have a copy of the catalog from the previous institution available.

7

SPECIAL ACADEMIC PROGRAMS AND FACILITIES



Special Academic Programs and Facilities

Academic Skills Center

The Academic Skills Center offers students professional support by developmental education specialists to facilitate educational and academic growth. The center is designed to provide remedial, developmental, and enrichment assistance to students who are referred for or seek services. Created to meet the needs of the diverse college population, the center works with student services and academic departments to help students acquire and strengthen college-level academic and study skills. The center is responsible for services to disabled students required by Section 504 of the Rehabilitation Act. The specific services of the Academic Skills Center include:

1. Improvement and development of academic skills, especially reading, math, and writing, through course work and tutoring.
2. Development and implementation of support programs for probationary students and students identified as at risk.
3. Instruction, reinforcement, and enhancement activities to maximize academic potential.
4. Diagnosis of academic skills deficiencies with basic skills testing and appropriate placement.
5. Supplemental instruction activities to promote success in selected courses.
6. Computer-assisted instruction in reading, writing, math, selected courses, and preparation for the math competence, NTE, and GRE exams.
7. Non-credit instruction in word processing.
8. Individual and group instruction in English as a second language.
9. Support services for students with disabilities.
10. Intensive advisement for students in the special consideration program.

Burchfield Art Center

Highlighting Western New York's cultural scene is the college's Burchfield Art Center, a museum and regional art center devoted principally to art produced in Western New York and the largest public repository for the works of Charles E. Burchfield, one of America's outstanding watercolorists and long-time resident of the Buffalo area.

The center is devoted to building a distinguished and comprehensive collection of the work of Charles E. Burchfield which is available for study with significant works of art by other Western New York artists. Each year the center attracts about 50,000 visitors.

The center serves the college community as a teaching museum. An Exhibition Techniques course, taught by the staff, enables students to participate in planning, developing, and installing specific exhibitions. Students gain experience in research and in creating descriptive catalogs or brochures to accompany the exhibitions. The center's education program trains students as docents who can knowledgeably teach others



about the collection. Forums on the arts are sponsored regularly for the enjoyment of children, young people, and adults. Poetry readings, concerts, lectures, and workshops complete the center's programming efforts, touching on both historical and contemporary issues.

The Burchfield Art Center is located in Rockwell Hall at the Elmwood Avenue entrance to the campus. The center is open from 10 a.m. to 5 p.m. Tuesday through Saturday and from 1 to 5 p.m. on Sundays.

E. H. Butler Library

Located in the center of the campus, Butler Library provides seating for 1,200 and houses a diverse collection of more than 500,000 books. In addition, 600,000 microforms, more than 10,000 audiovisual items, and subscriptions to 2,100 journals are maintained. The library is an up-to-date research facility with Sherlock, the online catalog, accessible from any terminal on the campus network, by dial-up, or from terminals in the library. Information Services provides skilled reference librarians to assist students using the catalog, CD-ROM indexes, traditional indexes, and the many other specialized reference tools. Learning Systems provides multimedia, self-instructional facilities, including computers for student use. Archives/Special Collections contains information about the college, student organizations, and special collections. The Curriculum Lab houses elementary- and secondary-level books, including current textbooks, and children's literature. There is also a Creative Studies collection. Informational handouts detailing library services, hours, maps, and other important data are available upon request in the Information Services Department.

College Learning Laboratory

The College Learning Laboratory/Campus West is a research, development, and demonstration school operated by Buffalo State College. The school also has an agreement with the Buffalo Public Schools to serve as a magnet school. The school's mission is to be a human resource laboratory for the college's academic and professional disciplines having need to utilize it to meet program objectives. The school provides a sound, comprehensive educational program for the racially integrated and special needs population served.

The primary manner in which the College Learning Laboratory/Campus West performs its mission is to establish a variety of learning environments appropriate to the learning styles of children. This approach enables the CLL/CW to provide for individual differences, implementation and demonstration of innovative programs, curriculum development, research, and exemplary practices. This occurs through interaction with the college community and the community at large to foster the advancement of knowledge about children, teaching, and learning.

Within its racially balanced population, the CLL/CW has a component of special needs children from preschool through grade eight. The CLL/CW demonstrates the concept of placing children in the least restrictive environment. Mainstreaming of a significant number of the identified children is an integral component of its demonstration practices.

The CLL/CW is committed to the intellectual, social, physical, and emotional development of children. Meeting these needs is best accomplished through a variety of learning environments. This commitment recognizes the uniqueness and diversity of the population while fostering the belief that every child is inherently worthy of respect and has the right to develop as an individual. Consequently, the school's mission is accomplished by enabling children and college students to realize their potential and to develop an awareness of their responsibility as citizens in a changing, democratic society.

Computing Services

Computing Services provides computing hardware and software support for instructional and research activities on campus. The computer hardware includes over 200 ports on large mainframe computers: locally Digital (DEC) VAXes and an IBM 3090 and 4381 at the State University of New York at Binghamton. Terminals located across the campus, which number over 200, access these computers over a local area network. Access to computers at over 1,500 colleges and universities is provided by BITNET and Decnet network connections. Students and faculty members can obtain a user code through classes and departments. There are more than 300 microcomputers for student and staff use, including Zenith (IBM compatible) PC/XT/AT, Apple II, and Macintosh. Administrative computing support is being converted from a Unisys A-10 mainframe to the Digital (DEC) VAX environment.

Available software consists of all major programming languages, such as APL, BASIC, C, COBOL, FORTRAN 77, Lisp, Pascal, and IBM Assembler and JCL under MVS; a variety of sophisticated software packages, such as SPSSX, SAS including ETS and SAS/GRAPH, Oracle, RDB, Minitab, IMSL, Ansys, and DI-3000 and Tellgraf for Graphics; and Wordstar, WordPerfect, and WPS for word processing. Lotus and dBASE are also available in the PC student lab.

The Instruction and Research section of Computing Services offers seminars and workshops to introduce students and faculty to new and existing computing facilities. Help with resolving software and system problems is also available. The Remote and Central Operations section conducts tours of the computer facilities.

A faculty workroom in Twin Rise 112 has six DEC VT330 terminals, a Macintosh and Zenith microcomputer, and peripheral equipment connected to the VAX through our local area network. This facility is available for use 24 hours a day, seven days a week.

Administrative Information Systems that support student records, financial, personnel, alumni, and other miscellaneous campuswide operational systems are processed on the UNISYS A-10 mainframe computer.

Educational Opportunity Program

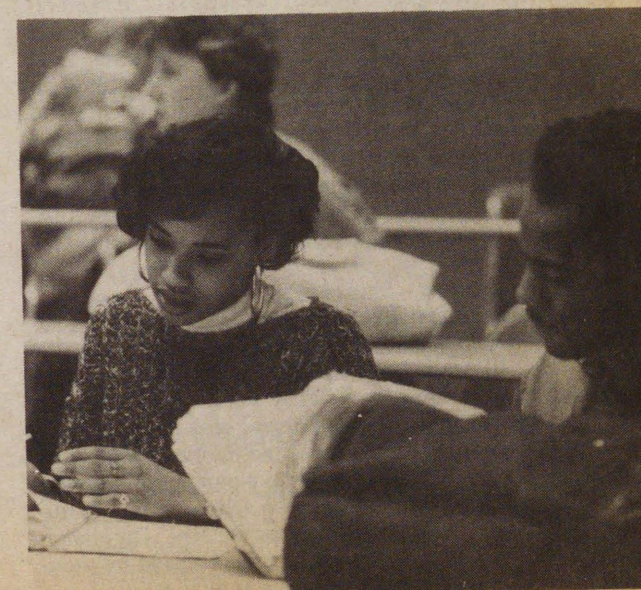
The Educational Opportunity Program is an academic and student support service program designed to assist students who have been both traditionally underrepresented in higher education and in need of financial assistance.

Initiated in 1967, it is the largest special program in the SUNY system and has become a model for other colleges and universities.

The primary goals of the Educational Opportunity Program are:

1. To provide an opportunity for underrepresented (e.g., African-American, Native American, Hispanic, and Asian-American) and disadvantaged students to gain admission to Buffalo State College.
2. To provide sufficient support services necessary to enhance the ability of students to successfully complete a baccalaureate degree.
3. To develop a positive relationship between Buffalo State College and the Buffalo community and to better communicate our goals, objectives, and service to the community.

By virtue of enrollment in the Educational Opportunity Program, every student is entitled to all the rights and privileges accorded to all Buffalo State College students in addition to special services designed to enhance their success. Each student



is assigned a counselor who not only helps the student learn more about himself and the academic environment, but also serves as a communication link between the Educational Opportunity Program and college administration. Counselors are skilled at providing academic and financial aid advisement, personal and social counseling, and career planning and advisement.

To assist students in overcoming specific academic problems, the college offers developmental courses in English, reading, and mathematics. All such courses below the 100 level are non-degree courses and may not be counted toward fulfilling degree requirements. In addition, Educational Opportunity Program students encountering difficulty in a particular course may take advantage of the Tutorial Center, where qualified tutors and instructional staff work on a one-to-one basis or with small groups.

The Educational Opportunity Program provides a six-week summer program and fall and spring orientation programs for new students.

There are a variety of social, cultural and educational activities planned by the college to add a further dimension to the college experience. Annually, the Educational Opportunity Program sponsors an honors convocation to recognize achievement and academic excellence in the classroom.

The Educational Opportunity Program counseling, tutorial, and administrative offices are located in Twin Rise South on the 5th, 6th, and 7th floors. The Educational Opportunity Program Admissions Office is located in Cleveland Hall 207. Admissions information can be obtained by calling 878-4415/878-4429. General information regarding EOP eligibility and application can be found in the SUNY Application Guidebook.

Center for Environmental Research and Education

Implemented in the fall of 1989, the Center for Environmental Research and Education is charged with increasing the college's role in environmental Great Lakes research while focusing its efforts on more effective protection and development of Western New York resources. The center's four units are: the Division of Environmental Toxicology and Chemistry, which continues the work of the highly respected Great Lakes Laboratory; the Division of Aquatic Biology; the Division of Water Resource Management; and the Division of Environmental Education. The center's divisions maintain several modern laboratories on the campus devoted to biological and chemical research. A field station located at the confluence of Lake Erie and the Niagara River is a part of the Aquatic Biology Division, which maintains several research vessels. An extensive library of publications is available on the Great Lakes, water pollution, pesticides, toxic chemicals, and aquatic organisms.

Whitworth Ferguson Planetarium

Students taking astronomy courses have the opportunity to use the planetarium as a laboratory. They assist in maintaining, improving, and operating the equipment and in developing presentations about the planets, stars, and the constellations in our universe. The planetarium schedules a number of different public shows and programs during each school year. All students may attend these presentations free of charge. The planetarium also arranges educational programs attended by thousands of area school children and adults annually.

Health Professions: Preparation and Advisement

The health professions require a strong undergraduate preparation in science. Buffalo State College offers all the necessary and appropriate courses needed for admission to the health professions schools. A vigorous advisement system is offered for students interested in such professions as medicine, dentistry, optometry, osteopathic medicine, podiatry, veterinary medicine, chiropractic medicine, and allied health professions. Students also have successfully transferred into upper-level programs in nursing, physical therapy, pharmacy, and medical illustration. Guidance is offered in helping students prepare for national aptitude exams and in assembling applications for health professions schools.

There is no specific degree required by the health professions schools. Students may major in any degree program that is of interest, but most health professions candidates are biology, chemistry, or psychology majors. It is recommended that students interested in health careers begin chemistry early in their program at the college.

Highly recommended are the following areas of study and courses:

Area of Study	Courses
Biology (8 credits)	BIO 115, 116, 124
Inorganic Chemistry (8 credits)	CHE 111, 112
Organic Chemistry (8 credits)	CHE 201, 202
General Physics (6-8 credits)	PHY 111, 112
Math-Calculus (3-6 credits)	MAT 126, 127
English (6 credits)	ENG 101, 102

Students planning a career in the health professions should contact the pre-health adviser or secretary for advisement information. Most medical, dental, and other professional schools require pre-health professions committee evaluation as part of a student's application.

For further information, contact the pre-health adviser, Science Building 363, 878-5418, or the pre-health committee secretary, Biology and Chemistry Departments, Science Building 314, 878-5203/5204.

Instructional Resources Center

The Instructional Resources Center provides media support for classroom instruction, scholarly activities, and research. The center assists faculty, administration, and staff through a one-stop production facility, from scripting to the finished production.

The IRC produces professional slide shows, photography, graphics, transparencies, and audio and television productions. It provides the audiovisual equipment to support the use of instructional materials. In addition, it provides a full range of satellite programming, e.g., educational programs and teleconferences via three campus satellite receivers. Programming is transmitted via the college's 12-channel cable TV system to 310 locations throughout the campus.

The IRC Film/Video Library provides 16mm films and videotapes to faculty, student teachers, schools, and community organizations. Lectures and special events may be audio or videotaped and made available for future use. Another service provided by the IRC is the repair of all college-owned AV, TV, and computer equipment. The center's professional staff is

available to assist in recommending equipment for departmental purchases.

The facilities are located in Communication Center, 878-4104.

Interdisciplinary Units

The college has a number of interdisciplinary units designed to give expanded attention to areas of particular importance. The **African and African-American Studies** Unit coordinates academic programs related to the study of the history and culture of African and African-American peoples. The **Future Studies** Academy develops and coordinates programs to deal with future concepts and goals. The **General Studies** Unit coordinates a program directed, primarily, at working adults. The **Secondary Education** Unit encourages excellence in secondary teacher education while serving as a line of communication linking the many secondary education programs on campus. The **Women's Studies** Unit coordinates and initiates activities with other academic and community groups involved with women's issues.

Performing Arts Center

The Buffalo State College Performing Arts Center coordinates the use, by both on- and off-campus groups, of the college's three auditoriums — Upton Hall auditorium, the College Learning Laboratory auditorium, and Rockwell Hall auditorium. In addition to its administrative function, the center brings a wide variety of programs and events — many with an international flavor — to Rockwell Hall's beautifully refurbished and acoustically acclaimed auditorium. Tickets to Performing Arts Center events at all three campus venues are available at the Rockwell Hall box office, 878-3005.

Prelaw Advisement

To assist students who eventually plan to attend law school, the college provides a prelaw advisement service. Faculty members familiar with the legal profession are available for consultation on such matters as recommended undergraduate courses, LSATs, law school admission practices and related areas. An undergraduate moot court program, one of the few of its kind in the country, is available during the spring semester. It is strongly recommended that students interested in law take advantage of this service by contacting the chairperson of the advisement committee, Classroom Building B215, 878-6205.

Special Study Options

International Education

Buffalo State College is strongly committed to providing all students the opportunity to develop a better understanding of different cultures. Students have a rich opportunity to expand their educational experience through study abroad. They can apply for any one of about 150 SUNY-sponsored programs. Of these, Buffalo State sponsors six: two in Australia and one each in England, Italy, Japan, and Spain. The program in Salamanca, Spain, is jointly sponsored with SUNY at Buffalo. The development of additional programs is in progress.

Credits earned while abroad are placed on the student's official transcript and all grades are included in computing the

GPA. Specific information regarding overseas programs, costs, application procedures, and other information can be obtained in the International Education Office, Cleveland Hall 416.

Students planning to go overseas are encouraged to make preparations early. Foreign language knowledge is frequently very beneficial, even if it is not required for many of the programs abroad. Programs are subject to change without notice.

Buffalo State College-sponsored overseas academic programs are as follows:

Australia

The University of South Australia-Adelaide, South Australia
Fall semester only. Program runs from mid-July through late November.

Courses available in a variety of academic fields such as education, business, technology, arts, liberal arts, science, and culture.

The University of Newcastle, Waratah, New South Wales
Fall, spring, or academic year. Fall: mid-July through late November; spring: late February through early June; academic year: late February through late November.
Courses available in a wide variety of academic fields such as education, humanities, technology, business, visual and performing arts, social welfare, English, and culture.

England

Manchester Polytechnic
Fall semester only. Program runs from mid-September through late December.
Courses available in a wide variety of academic fields such as education, social work, technology, humanities, science, psychology, management, and business.

Italy

Siena Program associated with the University of Siena
One semester of college-level Italian required. Fall or spring semester. Fall semester runs from early September through late December; spring semester runs from mid-January through early May.
Courses available: Italian Language, Contemporary Italian Civilization, History of Italy, Sculpture in Siena, Painting in Siena, Early Renaissance Art in Italy, Art and Architecture in Siena, Design in Clay, Pottery. (Courses offered based on enrollment.)

Japan

Kansai University of Foreign Studies, Osaka
Academic year only. Program runs from late August through late May. Asian Studies program. No language required. Courses available: Japanese Language, History, Culture, Management, Marketing, Economic Development, Japanese Literature, Japanese Art, Japanese Theater, Religion, Ceramics, and others.

Spain

University of Salamanca (Jointly sponsored by SUNY at Buffalo)
Summer only. Program runs from late June through late July. One year of college-level Spanish required. Five-week program with first week in Madrid. Language competency test administered by the University of Salamanca. Courses available: Language, Culture.

National Student Exchange

A program designed to expand the scope and variety of academic, social, and cultural experiences available to students, the National Student Exchange enables qualified students to spend a semester or a year at one of 89 colleges and universities in 42 states and U.S. territories. To be eligible, a student must be in good standing and have a minimum GPA of 2.50.

The program, organized through the National Student Exchange Consortium, provides an inexpensive means of studying in another state by paying tuition at Buffalo State College or at the host school at the resident rate.

For further details, visit or call the Special Programs Office, Cleveland Hall 416, 878-4328.

Visiting Student Program

Buffalo State College participates in a statewide Visiting Student Program which allows students to attend, on a short-term basis, other participating colleges or universities in New York state for a semester or a year. Interested students should consult with their adviser or dean about which institution may best meet their educational goals. Application forms are available in the Special Programs Office, Cleveland Hall 416, 878-4328. Deadlines are March 1 for the fall semester and Nov. 1 for the spring semester. There is no visiting student status for summer sessions.

Special internship opportunities are also available through a Visiting Student Program in Albany, N.Y., and Washington, D.C.

Cooperative Education

Cooperative Education is a collegewide program which gives students the opportunity to gain career experience while pursuing classroom studies. Periods of classroom study are alternated with periods of employment on a job or internship which is related to academic and career objectives.

This is a voluntary program available to all undergraduate students who have completed a minimum of one year on campus and are in good academic standing. College credit may be earned for each cooperative experience. Cooperating organizations and institutions cover a broad spectrum of disciplines and careers including government agencies, profitmaking organizations and not-for-profit organizations. Further information can be obtained from the appropriate dean's office for students seeking credit.

Creative Studies

The Center for Studies in Creativity offers a variety of services and programs to promote and improve the understanding of creativity and its applications to problems and challenges in personal and professional settings. The center's goal is to provide instruction, to conduct research, and to offer a range of opportunities that facilitate the development of creative individuals, groups, and organizations.

The center offers a variety of academic classes that assist students in maximizing their creative potential. The focus of course work in creative studies is on increasing students' awareness and understanding of the nature/nurture of creativity and on learning about creative problem-solving methods and techniques.

In addition to individual course options, the center offers an undergraduate minor for students who are interested in pursuing in-depth study. The minor provides students with experience in a variety of creative problem-solving approaches and leadership situations. An undergraduate club, the Association for Studies in Creativity, provides opportunities for center and

campus involvement. Graduate work leading to certification or a master of science degree in creative studies is also available.

In conjunction with Butler Library the center provides one of the most comprehensive compilations of print and non-print material on creative thinking and creative problem solving in the United States. In addition, the center maintains a Computer-Based Innovation Resources (CBIR) database of annotated periodical literature relating to the study of creativity and innovation.

Institute of Jewish Studies

Special credit and non-credit courses are available to Buffalo State students through the Institute of Jewish Studies at the Jewish Center of Greater Buffalo's Amherst Building, 2640 N. Forest Rd., Amherst, N.Y. 14228. The institute is operated by the Buffalo Bureau of Jewish Education. There is a nominal materials fee.

All courses are subject to minimum registration. Credit-bearing courses are PHI 121, 205, and 350 in the Philosophy and Religious Studies Department. Further information can be obtained by consulting the course descriptions of the department or by calling the institute at 689-8844.

Paul G. Bulger Lifelong Learning Center

The Lifelong Learning Center coordinates and facilitates services for the college's evening and adult students. These services include information sessions, short courses, and open houses presented in cooperation with other college offices. The center publishes an evening bulletin each semester and administers the credit process for experiential learning. The Lifelong Learning Center's Evening Student Assistance Center is open until 9 p.m. Monday through Thursday and until 4:30 p.m. Friday when classes are in session throughout the academic year. Students are encouraged to visit the center anytime they require information, college forms, or whenever they encounter difficulties. The Evening Student Assistance Center is responsible for providing evening students with academic and student services similar to those provided for the college's daytime students. The general studies degree program is handled through the Lifelong Learning Center.

The Lifelong Learning Center is located in Twin Rise 100, (716) 878-5906.

ROTC

Students may enroll in Army ROTC at neighboring Canisius College by cross-registering for the appropriate courses.

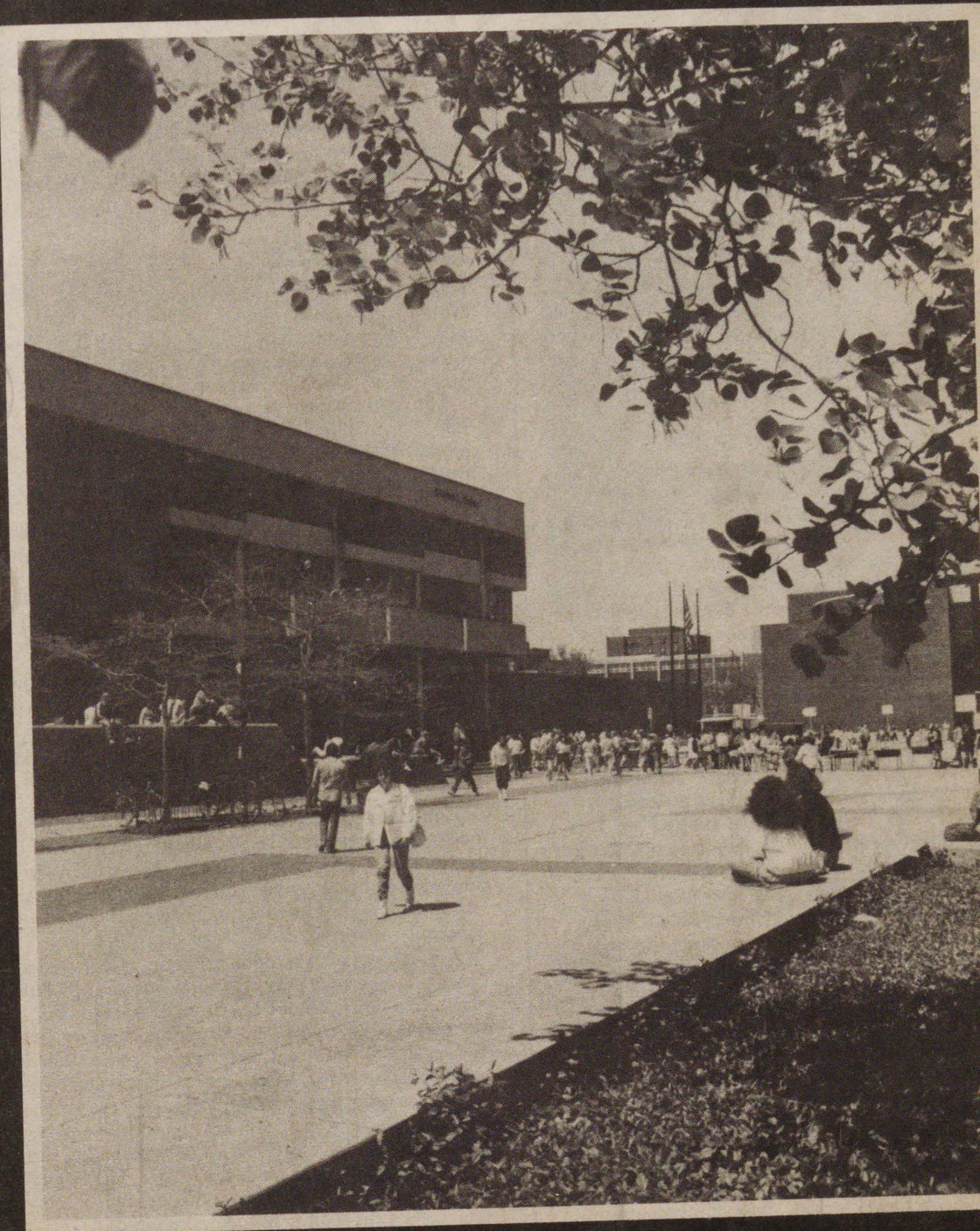
Uncommitted Academic Advisement Center

The Uncommitted Academic Advisement Center in Twin Rise 110S, (878-5223) is responsible for providing academic advisement for all uncommitted (0900) students. The center also offers general academic counseling, helps to interpret academic policies, and provides students with assistance in solving academic problems. The center is staffed with faculty who are especially interested in helping students.

Each semester, uncommitted students will receive letters reminding them that academic advisement is required for all Buffalo State students prior to course registration. Students are requested to schedule individual appointments for advisement. Students are also welcome to walk in or call the center for assistance at any time.

8

STUDENT SERVICES



Student Services

Career Development Center

The Career Development Center (CDC) helps students determine what the best majors, occupations, and careers are for them. It also helps students find jobs in their chosen fields.

Students read handouts to keep informed of the center's varied activities, its workshop schedule and services, and to read about timely career-related information.

Located in Cleveland Hall 306, the CDC is open year-round, including some evening hours. Freshmen, sophomores, juniors, seniors, and graduates all turn to the CDC for help in making decisions about majors and careers and for assistance in finding jobs.

Making Decisions About Majors and Careers

Students use the CDC to learn what their options might be in the world of work. They can learn how their own unique qualities translate into careers and occupations. They also can find out about careers and occupations that relate to each Buffalo State major. A series of "Careers In..." handouts gives specific information regarding various fields. Finally, the CDC makes sure students learn methods for making good decisions about careers and majors. The services offered by the CDC that help students explore careers and make decisions are:

Career Counseling — Students may meet individually with a career counselor to discuss career decisions.

Career Assessment Inventories — Students may be given inventories for help in assessing their interests and personality traits as they relate to careers.

Choosing a Career or Major Workshops — Small groups of students work with a counselor to examine their own skills, values, and interests, relate these to majors and occupations, and learn to apply decision-making skills in the process.

Computer-Assisted Career Guidance (DISCOVER) — This system helps each student see where he or she would fit into the world of work by displaying the majors, occupations, and careers most relevant to the student's own special qualities.

Career Information Library — This is an up-to-date reference library used by students to find detailed information about careers they are considering. Information is available regarding entry occupations and careers for every Buffalo State major.

Career Fairs — Representatives of career fields come on campus to offer students a personal firsthand look into a variety of career options.

Finding Employment

The center teaches students how to go about finding jobs and assists in uncovering professional opportunities available to them. Workshops, current literature, and free handouts on such topics as resume and cover letter writing, interview preparation and job searching, a resume critique service, and a mock interview videotape program are among services offered.

The on-campus recruitment program, the resume referral service, and a job listing service are some of the ways the Career Development Center brings Buffalo State job candidates to the

attention of national and local employers. In addition, large recruitment events, such as Teacher Recruitment Days and the Summer Camp and Job Fair, are held annually. A references file service is available for use in job and graduate school applications. Resources, including advisement concerning graduate school programs, completes the center's services for postgraduate planning.

Child Care Center

Chartered as a not-for-profit organization, the Child Care Center in Caudell Hall is open to the children of undergraduate and graduate students, faculty, and staff of Buffalo State College. Children between the ages of two months and five years will be accepted on a first-come, first-served basis.

The center is open year-round Monday through Friday from 7:30 a.m. to 5 p.m. It provides nutritious meals and snacks prepared under the supervision of a qualified dietitian or nutritionist. Meals include a morning snack, a hot lunch, and an afternoon snack.

A weekly charge is established for each family based on daily usage of the center. Check with the center for a current sliding fee schedule. Phone 878-5335.

Commuter Services

Whether the question has to do with off-campus housing, transportation, dealing with campus bureaucracy, or knowing how to take advantage of the many opportunities Buffalo State provides, commuting students can get the help they need from the Commuter Services Office, located in Student Union 311, 878-5533.

Commuters make up more than 80 percent of the student body at Buffalo State. The Commuter Services Office strives to provide for the day-to-day needs of these students in addition to solving long-range problems. Transportation, off-campus housing, and communication among commuting students are three especially important concerns of this office.

A computerized carpool program offers students help in arranging a carpool that fits their needs and schedule. Whether you need a ride to school, can drive, or want to share the driving, the carpool is for you. The carpool parking lot (located in lot G-1) is available to cars with three or more students. All cars must be registered with Commuter Services and be issued a hang tag before using a carpool lot. Registered carpools with three or more people in their cars are guaranteed a parking space in the lot if they arrive before 11 a.m. Carpooling can relieve the parking problem, save money, and give riders a chance to meet new people. For more information or to register for the carpool lot, contact the Commuter Services Office.

As a service to students desiring to live off campus in nearby apartments, Commuter Services takes listings from neighborhood landlords and makes this information available to students. These listings are maintained as a service for the students' convenience. College employees do not inspect, approve, or

supervise the premises described, and the college does not become a part of private landlord-tenant matters. Brochures on off-campus living, including sample leases, rental agreements, and copies of landlord-tenant regulations forms are also available. The Commuter Services Office also works closely with the Community Relations Advisory Council to establish congenial student-community relations.

Because many students use public transportation to get to and from campus, Commuter Services is constantly working to encourage better service from Metro Bus/Rail. Currently, four Metro Bus stops are located on or adjacent to campus. Two lines take passengers directly to a Metro Rail station, from where connections can be made to other city and suburban lines, the airport, and the Amtrak station. Copies of bus schedules are available at the Union Information Center. Bus tokens and monthly passes are sold at a reduced rate through the Ticket/Travel Center.

The Volunteer Center is located within the Commuter Services Office. This program offers the opportunity for student involvement through community service. The Volunteer Center can also help students meet volunteer course requirements. Students are matched with local agencies based on their interests, schedule, and academic background. Placements can be long or short term.

To facilitate and encourage communication among commuters, Commuter Services operates an electronic message board which maintains a listing of upcoming events.

Other specific services include:

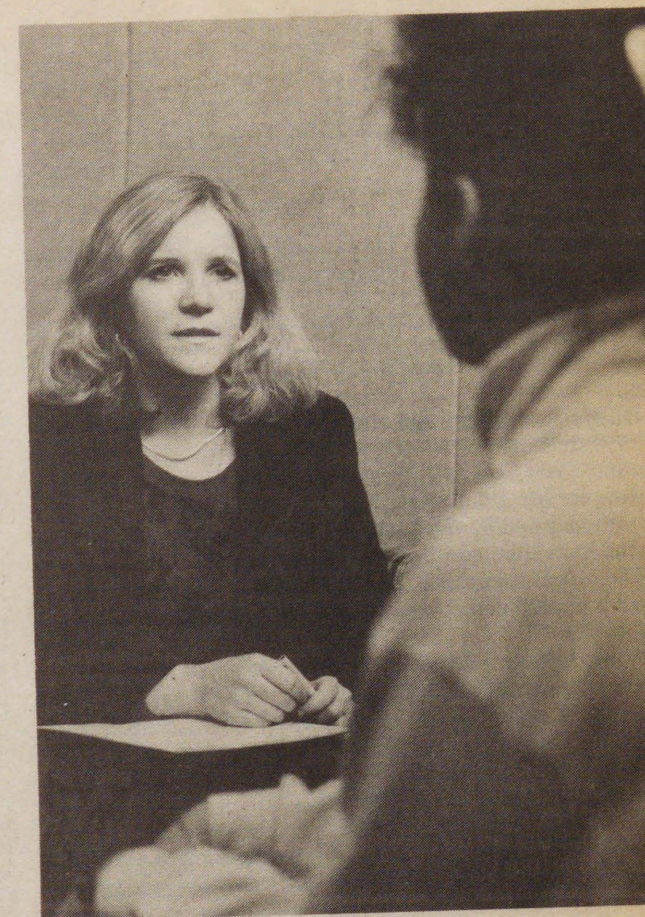
1. Providing typewriters for student use free of charge.
2. Supervising the Commuter Locker Room which has free full-sized lockers on the first floor of the Student Union.
3. Distributing information on social services, food stamps, and public services.

To make sure the college understands the needs of its commuters, there are commuter representatives on every major campus organization including the College Senate, Community Relations Advisory Council, Faculty-Student Association, Parking Committee, Substance Abuse Committee, and Child Care Center. This representation is coordinated by the Commuter Services Advisory Council. To become a member of this council, see the coordinator of Commuter Services.

The Commuter Council, funded by the activity fee, represents the 8,000 commuters on campus and sponsors a variety of social and service activities throughout the year. These include free hot beverages daily in the Commuter Council Office off the Fireside Lounge, midday coffeehouses, spaghetti dinners, Monday night football, theater ticket discounts, and Commuter Daze, 12 hours of festivities at the close of each semester. Students interested in working on the council should sign up in the Commuter Services Office.

Counseling

The Counseling Center provides professional psychological services to students experiencing developmental or situational difficulties which may interfere with their ability to take advantage of the educational opportunities offered by the college. The staff includes licensed psychologists, counselors, social workers, and professionals in training. The center offers a variety of services: individual and group counseling, intervention in crisis situations, skill development workshops, limited psychiatric consultation, psychological testing, and help with academic, personal, and vocational problems. Developmental programming is also



offered in the areas of wellness, retention, substance abuse, stress management, and cultural diversity.

Information shared in counseling is confidential and is protected to the full extent of the law.

Our services are limited to short-term counseling, and referral is provided to students to link them with appropriate community helping resources for more long-term assistance.

The Counseling Center is open from 8:45 a.m. to 4:45 p.m. and appointments may be made by phoning 878-4436 or stopping by the office (Porter Hall basement). After-hours emergency service is provided in collaboration with Crisis Services (834-3131), a 24-hour community hot-line service.

Dean of Students

The primary mission of the dean of students is to maintain the quality of the learning environment at Buffalo State College. To accomplish this the dean fulfills numerous roles.

Ombudsman — The dean is the "red tape cutter" for students. When normal channels aren't working or in special situations, the ombudsman will assist a student with any difficulty encountered on campus.

Student Life — The dean works closely with the Student Life Office to maintain and improve the living/learning climate on campus. The myriad of issues that face a college community are addressed by the dean of students through committee work and action task forces. AIDS, crisis intervention, bias-related issues, rape and sexual assault, and minority student concerns are examples of these issues.

College Judicial System — The code of Rights and Responsibilities is administered through the Dean of Students Office. Copies of the Code are published annually in the college newspaper or are available in the office.

Student Recognition — Selection of the recipient for the President's Medal, which is awarded to an outstanding graduating senior, is coordinated each spring semester by the dean of students.

In addition, the dean works closely with community elected officials and law enforcement personnel in an effort to enhance student life.

The Dean of Students Office is located in Student Union 306, 878-4618.

Disabled Student Services

Buffalo State College strives to provide an integrated campus experience for disabled persons. In order to achieve this goal, the college provides services and makes accommodations based on the individual needs of the student.

The office responsible for coordinating services for the disabled is located in the Academic Skills Center, Twin Rise 210S, 878-4041.

When inquiring about services available in areas such as Butler Library, residence life, orientation, and parking, disabled persons are encouraged to contact those departments directly.

Faculty-Student Association

The Faculty-Student Association is comprised of three divisions: Dining and Vending Service, College Store, and General Services Division.

The Faculty-Student Association is governed by a 15-member board of directors comprised of elected faculty, students, and professionals, and by representatives of administration appointed by the college president. The FSA office is located in Campus House (878-5211) and is open Monday-Friday, 8:15 a.m.-4:30 p.m. throughout the year. Inquiries about student employment in the areas listed below can be directed to this office.

Campus Dining

Dining and vending service is available every day of the week, and students have a choice of many campus restaurants. The **Plaza Complex**, open five days a week in the Student Union, houses a cafeteria, **Bengal Burger, Deli, and Bakery. The Cookery** (pizza and calzones), **Fitness Food Center, The Ice Cream Place, Just Drinks, and The Park** are located in the Student Union, and are open seven days a week. **The Restaurant** is open Monday through Friday in Moot Hall. **The Bite**, located in Moore Complex, is a take-out snack bar (tacos, chicken wings) open Monday through Sunday. **The Weekender** in Moore Complex serves a la carte brunch and dinner, Saturday and Sunday. Vending machines are located throughout the campus. Catering services are available by calling 878-4433.

A schedule of restaurant hours can be obtained by calling the FSA office at 878-5211. Call FOOD (3663) on any campus telephone for daily menu offerings.

College Store

The College Store is located in the basement of the Student Union (878-5509). The store carries books and educational

materials for course-related use and other merchandise to meet the casual needs of the college community. Included in the wide range of merchandise are: new and used textbooks, general paperbacks, bargain books, art, school, and office supplies, emblematic merchandise, greeting cards, gifts, sundries, and computer software and supplies. Some additional services offered are: cassette tape copying, book special orders, film processing, gift wrapping, money orders, fax service, and refrigerator, typewriter, and VCR rentals.

The store accepts cash, personal checks, MasterCard and Visa. Personal charge accounts are not available. Hours of operation are: Monday-Thursday, 8 a.m.-5:30 p.m.; Friday, 8 a.m.-3:30 p.m.; Saturday, 11 a.m.-2:30 p.m. Extended hours are offered at the beginning of each semester. Summer hours are: Monday-Friday, 8 a.m.-4 p.m.

Campus Pharmacy

The Campus Pharmacy is a separate unit of the College Store and is located on the second floor of the Weigel Health Center. The pharmacy offers prescription services and non-prescription products. The hours of operation are: Monday-Friday, 9:30 a.m.-5 p.m. The pharmacy is open limited hours in summer.

General Services

The General Services Division operates the pool room and coin-operated amusement games in the Student Union, in addition to overseeing washers and dryers in the residence halls and copiers in Butler Library.

The pool room is open seven days a week during the academic year.

The manager of General Services has an office in the Student Union (878-4029).



Health Center

The Weigel Health Center provides health services for all registered students, including commuters.

In addition to diagnosis and treatment of illnesses and injuries, the professional staff stresses health education and preventive medicine. No appointment is necessary, and there is no charge for most services, with the exception of special services such as allergy injections, for which there is a nominal fee. Students are also encouraged to discuss personal problems with the professional staff with the assurance of complete confidentiality.

The health center is open 9 a.m. to 5 p.m., Monday through Friday, 878-6711.

Weigel Health Sexuality Center provides complete gynecological services, including pelvic and breast examinations, contraceptive information and methods, pregnancy testing and referrals, STD testing and treatment for males and females, and sexuality counseling. Located on the second floor of Weigel Health Center, the Sexuality Center is open from 10 a.m. to 4 p.m. Monday through Friday, and by appointment, 878-6715. There is a fee for services.

The Student Health Insurance Plan is designed specifically to meet the needs of college students. It covers laboratory fees, X-rays, and prescription drugs, in addition to providing hospital, surgical, and other benefits. Major medical benefits also are included. The premium for 12-month protection is substantially lower than for comparable policies, and all registered students should enroll in this plan unless they can show evidence of comparable insurance. The Student Insurance Service Office is located in Weigel Health Center 204, 878-5121. Trained representatives are available to explain policy provisions and to help students submit claims.

The Weigel Health Center also provides these special facilities:

Campus Pharmacy. A professional pharmacy offers prescription services to all registered students. Students enrolled in the Student Health Insurance Plan may fill their prescriptions at no charge. The pharmacy is located on the second floor at Weigel Health Center, 878-5824.

Laboratory Service. A private lab provides services at the health center by appointment. Fees for laboratory services are covered by the Student Health Insurance Plan. Students not enrolled in the plan are directly responsible to the lab for payment.

Additional services funded by the United Students Government activity fee are:

Dental Clinic. All activity fee-paying students are eligible to have their teeth cleaned and X-rayed, emergencies dealt with, dental needs diagnosed, and preventive instruction supplied. Presentation of ID card is required. Phone 878-6716.

Intercollegiate Athletics

Intercollegiate Athletics and United Students Government sponsor varsity competition in eight sports for men (basketball, cross country, football, indoor track, soccer, swimming and diving, tennis, and track and field) and nine sports for women (basketball, cross country, indoor track, soccer, softball, swimming and diving, tennis, track and field, and volleyball). Club teams in such sports as ice hockey, judo, bowling, and rugby are also funded through USG.

International Student Affairs

A variety of assistance is available to international students through the International Student Affairs Office, Student Union 400, which offers academic advisement and personal counseling in addition to aid regarding visas, work permits, and relevant regulations of the Immigration and Naturalization Service. A special orientation program is provided for incoming international students and tests are administered for English language competency and placement.

This office also coordinates the American Host Family Program, which pairs international students with American families, and the International Friendship Program, which pairs incoming international students with American students. It also coordinates an International Student Helper Program. A semi-annual newsletter, a special booklet entitled "Information for New Students From Abroad," and a "Directory of Faculty and Staff With International Qualifications" are published. Various cultural events are planned throughout the year to add an international flavor to campus life.

Minority Student Services

This office provides an atmosphere where students are encouraged to discover and strengthen their talents. The office supports these programs:

Mentor Program — Pairs freshmen students of color with upperclassmen, faculty, staff, or Buffalo State graduates who act as role models and advisers.

CHAMPS — A freshmen-year leadership and academic-skills development experience for students of color.

Well-Made Student Study Hall — Through this program, at the end of each semester students can get tutorial assistance, nutritious snacks, and a supportive environment designed to relieve exam stress.

Students of Color Leadership Coalition (SCLC) — This is an upperclassmen leadership-development experience for CHAMPS graduates and current student leaders which promotes involvement with the broader Buffalo community.

The Minority Student Services Office also acts as a referral center for other campus services and assists students in cutting administrative red tape. The office serves African-American, Latino, and Native American students and provides linkages with faculty, staff, and other students. Additional information may be obtained in Student Union 400 or by calling 878-4631.

Orientation

Entering freshmen and transfer students are introduced to many aspects of campus life during orientation sessions, conducted during the summer and early September for students beginning in the fall, and in January for midyear students.

The New Student Programs and Orientation Office plans and conducts sessions designed to meet the needs and special interests of new students. Programs include academic advisement, course scheduling assistance, registration, information sessions on academic and student-related services, small group meetings, academic survival workshops, competency testing, and campus tours.

During this period there are also opportunities for meeting faculty, staff, and upperclassmen. A series of evening activities ranging from films, music festivals, and informal parties to

barbecues, live theater, and open recreation are planned to give students a taste of the social climate of the college.

Family workshops held during orientation introduce families to administrators and staff who can provide information on such topics as public safety, student health, help resources, residence facilities, and academic services. Attendance at orientation is optional, and a program fee is required for participation. All entering students receive program registration material in the admissions process.

In addition, throughout the first year, the office continues to provide assistance and referrals to new students. These services include the coordination of the Freshman Seminar Program, a freshman newsletter, and other specific programs targeted toward new students.

The New Student Programs and Orientation Office is located in Twin Rise South, 878-5336.

Public Safety

An independent law-enforcement agency charged with the responsibility of providing a safe environment for the college community, the Public Safety Department is involved in the areas of crime prevention and control, criminal investigations, traffic and parking supervision, physical-plant security, emergency first-aid treatment, disaster coordination, and the maintenance of public order.

Special services provided by the department include:

1. The loan of jumper cables, flashlights, hand tools, or shovels, at no charge.
2. Provision of Operation Identification marking pens and registration of student I.D. numbers for property identification purposes in a statewide computer system.
3. Rape prevention lectures.
4. Bicycle-safety lectures.
5. Assisting motorists with minor vehicle problems or calling for service for them if necessary.
6. Door openings in emergency situations.
7. Escort service.
8. Notification in emergency situations.
9. Found Property Department.
10. Provision of literature on crime prevention, including home safety, personal safety, and basic tips on how to avoid becoming a victim of a crime.

The department is located in Chase Hall 110. For all emergencies or for information, call 878-6333. To make arrangements for lectures or special programs, call 878-6332 or 878-6921 between 8 a.m. and 4 p.m.

Parking Rules and Regulations

The rules governing motor vehicles on campus are intended to assure maximum pedestrian and vehicular safety and to establish the most convenient arrangements possible for students, staff, and visitors. Violations will result in parking summonses.

Parking: Motor vehicles may park in any of the designated areas shown on the campus map. Maps and parking permits are available in the Public Safety Office. Parking is PROHIBITED:

1. On all roadways.
2. In all fire lanes.
3. On lawns, grass, or grounds.
4. On or over painted lines in parking areas or crosswalks.
5. In such a way as to interfere with free and proper use of a roadway or pedestrian crossing.

The department may authorize the towing away of any vehi-

cle found to be in violation of the college's rules and regulations.

ONLY handicapped persons may use campus parking spaces reserved for the handicapped. Handicapped motorists must obtain a college parking permit and a municipal handicapped parking permit from the municipality in which they live. New York state vehicle registration plates issued to handicapped persons are also valid in campus handicapped parking spaces. Handicapped parking rules are strictly enforced, and violators' vehicles may be tagged and towed away.

Parking tickets may be paid at Chase Hall 110. For more information, call the Traffic Office at 878-3041.

Residence Life (Housing)

Students who choose to live on campus will find the primary mission of the college residence life program and its staff is to provide "an outstanding program which enhances the quality of student life and fosters an atmosphere conducive to student development for the benefit of the students and the campus community as a whole."

Each residence hall is staffed with selected students, both graduate and undergraduate, who are directly responsible to professionals in their area and to the director of residence life. Staff members are available to advise and assist residents, to promote student health and safety, and to help students initiate educational, social, and recreational programs.

Most residence hall rooms accommodate two students. If no roommate preference is expressed, students are assigned a roommate based on available information. Roommate preferences are honored on a space-available basis. Preferences will be considered only if both students request each other. Each student is provided with a bed, desk, chair, closet space, and a chest of drawers. Students are reminded to bring with them such items as sheets, pillow, blankets, bedspread, towels, and a desk lamp. Both room and board fees must be paid in full before room assignment is finalized.

The residence hall program has many alternatives to offer students. There are three basic living arrangements available. The corridor-style structure is the traditional hall setting with rooms next to each other extending down a long hallway. Corridor-style halls on campus include Neumann Hall, Perry Hall, and Porter Hall. The second type of hall is a suite arrangement in which three or four student rooms connect with a communal living room. Twin Rise North and Towers I through IV are designed in the suite setting. The third type, known as a modified suite, is found in Moore Complex. The suite area in this hall is a separate room which is available only to the residents of the adjacent four bedrooms.

All residence halls are coeducational, which means that they have both females and males residing in the same hall — not the same room. All bathroom areas are single sex. Specialized areas, such as 24-hour quiet floors, all female floors, or all male floors are available. In addition, every effort is made to accommodate a request for a non-smoking roommate. However, any such request is contingent upon space available.

Additional information may be obtained from the Residence Life Office, Porter Hall, 878-6806.

Speech-Language-Hearing Clinic

The Speech-Language-Hearing Clinic located in Ketchum Hall 213 provides individual speech-language-hearing services to the

college community and to residents of Western New York at no charge. Services are provided by undergraduate and graduate students in the Speech Language Pathology and Audiology Department under the direct supervision of faculty who hold Certificates of Clinical Competence in Speech Language Pathology and/or Audiology and the New York state license in speech language pathology and/or audiology. Services include hearing testing and diagnosis and individual and group therapy for those who stutter, are hearing impaired, or have voice, articulation, or language disorders.

For additional information or an individual appointment, call 878-5502.

Student Government

United Students Government (USG) strives to represent the interests of all students and encourages active participation in college life. USG sponsors a well-rounded program of educational, recreational, cultural, and social activities. It also provides a variety of service operations such as the Dental Clinic and Student Legal Services. All of these programs are funded by the mandatory activity fee. The USG office is in Student Union 402, 878-6701.

The executive branch consists of the president, executive vice president, treasurer, assistant treasurer, and four administrative vice presidents. This body is responsible for establishing long-term goals for student government.

The Senate, USG's legislative branch, consists of four chief officers and 25 senators. This body develops and coordinates activities, passes legislation for the general welfare of all students, and makes determinations as to which student groups are granted recognition and funding. A budget committee makes recommendations to the Senate regarding distribution and control of student activity fee monies. The Senate, in turn, makes recommendations to the president of the college.

All activity-fee-paying students are automatically members of USG. All are eligible to run for office, provided they meet grade point average and credit hour requirements. Campuswide elections are held late in the spring semester.

The Judicial Council determines the constitutionality of questions brought before it by individuals and organizations.

The USG Business Office includes a business manager and bookkeeper who are directly responsible for the distribution of USG monies. The office is located in Student Union 416, 878-6732.

Student Life Office

The Student Life Office encourages student involvement in a variety of out-of-classroom experiences. Participation in campus activities, clubs, organizations, and committees enhances academic work and helps students develop their skills, attitudes, and talents.

The Student Life area includes Student Activities, Commuter Services, Greek Affairs, Minority Student Services, and Student Union Operations. The office coordinates programs such as leadership/organizational development workshops, recreation tournaments, Homecoming, Community Days, and Who's Who Among Students in American Universities and Colleges.

Whether you are a commuter or resident and no matter what your age, there is something happening on campus for you. For more information on student organizations, activities, and campus committees, stop by the office, Student Union 400.



Student Union

One of the most important buildings on campus is the Student Union, located in the center of campus. It's used by commuters and resident students alike, and it's a great place to meet old friends and make new ones.

The first floor, usually a beehive of activity, houses, among other things, the campus Information Center, the Plaza Complex, Fitness Food Center, The Ice Cream Place, The Cookery, The Park, Just Drinks, the Side Pocket Billiards and Game Room, the FSA Laundromat, automatic banking facilities, the Elms yearbook office, and the campus FM radio station, WBNY. The College Store downstairs supplies educational materials for course-related use as well as general merchandise. On the second floor are the Fireside Lounge, the Campbell Social Hall, and the Assembly Hall, all used for a variety of activities. The offices of Commuter Services and the Dean of Students are also located on the second floor.

The third floor has eight meeting rooms as well as the offices of United Students Government, International Student Affairs, and Student Life. Included in the Student Life Office are Greek Affairs, Minority Student Services, Native American Student Services, Student Activities, Student Union Operations, and the College Judicial System. Student Union hours are Monday through Thursday, 7 a.m.-11 p.m.; Friday, 7 a.m.-midnight; Saturday, 10 a.m.-midnight; Sunday, 10 a.m.-11 p.m.

The Ticket/Travel Office sells Greyhound bus tickets, U.S. Air airline tickets, student discounted Metro Bus passes and tokens, and tickets for the chartered bus to New York City during school vacation periods. A number of student organizations including Casting Hall, Wilderness Adventures, and Student Union Board use the services of this office. Ticket/Travel Office hours are Monday through Friday, 9:30 a.m.-3:30 p.m.

Veterans Certification

The Veterans Certification Office, located in Cleveland Hall 209, 878-5045, provides advisement to current and prospective students who are veterans, servicepersons, or dependents or survivors of veterans, regarding Veterans Administration educational benefits. Information on advance payment, tuition deferments, tutorial assistance, and dependency allowance is also provided.

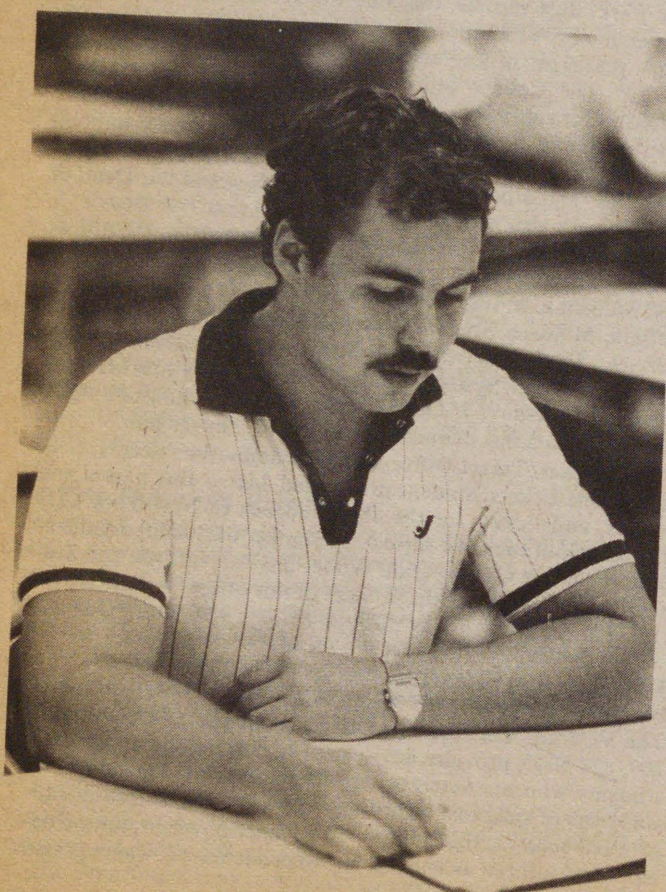
Public Notice Designating Directory Information

State University College at Buffalo hereby designates the following categories of student information as public or directory information. Such information may be disclosed by the institution for any purpose, at its discretion.

1. Name, address, telephone number, dates of attendance, class.
2. Previous institution(s) attended, major field of study, awards, honors (includes dean's list), degree(s) conferred (including dates).
3. Past and present participation in officially recognized sports and activities, physical factors (height, weight of athletes), date and place of birth.

Currently enrolled students may withhold disclosure of any category of information under the Family Educational Rights and Privacy Act of 1974. To withhold disclosure, written notification must be received in the Records and Registration Office, Cleveland Hall 204, State University College at Buffalo, 1300 Elmwood Ave., Buffalo, NY 14222-1095, by Oct. 1. Non-disclosure of information will commence immediately thereafter and be effective until Sept. 30 of the following year. Written notification to withhold disclosure must be made each academic year.

State University College at Buffalo assumes that failure on the part of any student to specifically request the withholding of categories of directory information by the deadline date indicates individual approval for disclosure.



Important: Students Unable Because of Religious Belief to Attend Classes on Certain Days

1. No person shall be expelled from or be refused admission as a student to an institution of higher education for the reason that he or she is unable, because of his or her religious beliefs, to attend classes or to participate in any examination, study, or work requirements on a particular day or days.
2. Any student in an institution of higher education who is unable, because of his or her religious beliefs, to attend classes on a particular day or days, shall, because of such absence on the particular day or days, be excused from any examination or any study, or work requirements.
3. It shall be the responsibility of the faculty and of the administrative officials of each institution of higher education to make available to each student who is absent from school, because of his or her religious beliefs, an equivalent opportunity to make up any examination, study, or work requirements which he or she may have missed because of such absence on any particular day or days. No fees of any kind shall be charged by the institution for making available to the said student such equivalent opportunity.
4. If classes, examinations, study, or work requirements are held on Friday after four o'clock post meridian or on Saturday, similar or makeup classes, examinations, study, or work requirements shall be made available on other days, where it is possible and practicable to do so. No special fees shall be charged to the student for these classes, examinations, study, or work requirements held on other days.
5. In effectuating the provisions of this section, it shall be the duty of the faculty and of the administrative officials of each institution of higher education to exercise the fullest measure of good faith. No adverse or prejudicial effects shall result to any student for availing himself or herself of the provisions of this section.
6. Any student, who is aggrieved by the alleged failure of any faculty or administrative official to comply in good faith with the provisions of this section, shall be entitled to maintain an action or proceeding in the supreme court of the county in which such institution of higher education is located for the enforcement of his or her rights under this section.
7. As used in this section, the term "institution of higher education" shall mean schools under the control of the board of trustees of the State University of New York or of the board of higher education of the City of New York or any community college.

State University of New York

State University of New York

State University's 64 geographically dispersed campuses bring educational opportunity within commuting distance of virtually all New York citizens and comprise the nation's largest, centrally managed system of public higher education.

When founded in 1948, the University consolidated 29 State-operated, but unaffiliated, institutions. In response to need, the University has grown to a point where its impact is felt educationally, culturally, and economically the length and breadth of the state.

More than 400,000 students are pursuing traditional study in classrooms or are working at home, at their own pace, through such innovative institutions as Empire State College, whose students follow individualized and often non-traditional paths to a degree. Of the total enrollment, approximately 36 percent of the students are 25 years or older, reflecting State University's services to specific constituencies, such as refresher courses for the professional community, continuing educational opportunities for returning service personnel, and personal enrichment for the more mature persons.

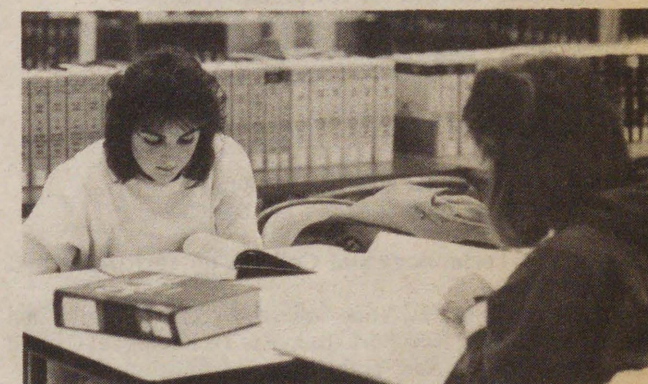
State University's research contributions are helping to solve some of modern society's most urgent problems. It was a State University scientist who first warned the world of potentially harmful mercury deposits in canned fish, and another who made the connection between automobile and industrial exhaust combining to cause changes in weather patterns. Other University researchers continue important studies in such wide-ranging areas as immunology, marine biology, sickle-cell anemia, and organ transplantation.

More than 1,000 public service activities are currently being pursued on State University campuses. Examples of these efforts include special training courses for local government personnel, state civil service personnel, and the unemployed; participation by campus personnel in joint community planning or project work, and campus-community arrangements for community use of campus facilities.

A distinguished faculty includes nationally and internationally recognized figures in all the major disciplines. Their efforts are recognized each year in the form of such prestigious awards as Fulbright-Hays, Guggenheim, and Danforth fellowships.

The University offers a wide diversity of what are considered the more conventional career fields, such as business, engineering, medicine, teaching, literature, dairy farming, medical technology, accounting, social work, forestry, and automotive technology. Additionally, its responsiveness to progress in all areas of learning and to tomorrow's developing societal needs has resulted in concentrations which include the environment, urban studies, computer science, immunology, preservation of national resources, and microbiology.

SUNY programs for the educationally and economically disadvantaged have become models for delivering better learning opportunities to a once-forgotten segment of society. Educational Opportunity Centers offer high school equivalency and college preparatory courses to provide young people and adults



with the opportunity to begin college or to learn marketable skills. In addition, campus Educational Opportunity Programs provide counseling, developmental education, and financial aid to disadvantaged students in traditional degree programs.

Overall, at its EOCs, two-year colleges, four-year campuses, and university and medical centers, the University offers more than 4,000 academic programs. Degree opportunities range from two-year associate programs to doctoral studies offered at 12 senior campuses.

The 30 two-year community colleges operating under the program of State University play a unique role in the expansion of educational opportunity. They provide local industry with trained technicians in a wide variety of occupational curriculums, and offer transfer options to students who wish to go on and earn advanced degrees.

The University passed a major milestone in 1985 when it graduated its one-millionth alumnus. The majority of SUNY graduates pursue careers in communities across the state.

State University is governed by a board of trustees, appointed by the governor, which directly determines the policies to be followed by the 34 state-supported campuses. Community colleges have their own local boards of trustees whose relationship to the SUNY board is defined by law. The state contributes one-third to 40 percent of their operating costs and one-half of their capital costs.

The State University motto is: "To Learn — To Search — To Serve."

University Centers

State University of New York at Albany
State University of New York at Binghamton
State University of New York at Buffalo
State University of New York at Stony Brook

Colleges of Arts and Science

State University College at Brockport
State University College at Buffalo
State University College at Cortland
State University of New York Empire State College
State University College at Fredonia
State University College at Geneseo

State University College at New Paltz
 State University College at Old Westbury
 State University College at Oneonta
 State University College at Oswego
 State University College at Plattsburgh
 State University College at Potsdam
 State University College at Purchase

Colleges and Centers for the Health Sciences

State University of New York Health Science Center at Brooklyn
 State University of New York Health Science Center at Syracuse
 State University of New York College of Optometry at New York City
 (Health Science Center at SUNY at Buffalo)*
 (Health Science Center at SUNY at Stony Brook)*

Colleges of Technology and Colleges of Agriculture and Technology

State University of New York College of Technology at Alfred
 State University of New York College of Technology at Canton
 State University of New York College of Agriculture and Technology at Cobleskill
 State University of New York College of Technology at Delhi
 State University of New York College of Technology at Farmingdale
 State University of New York College of Agriculture and Technology at Morrisville
 State University Institute of Technology at Utica/Rome**
 (Upper-division and master's program)
 (Fashion Institute of Technology at New York City)***

Specialized Colleges

State University of New York College of Environmental Science and Forestry
 State University of New York Maritime College at Fort Schuyler

Statutory Colleges****

New York State College of Agriculture and Life Sciences at Cornell University
 New York State College of Ceramics at Alfred University
 New York State College of Human Ecology at Cornell University
 New York State School of Industrial and Labor Relations at Cornell University
 New York State College of Veterinary Medicine at Cornell University

Community Colleges

(Locally sponsored, two-year colleges under the program of State University)
 Adirondack Community College at Glens Falls
 Broome Community College at Binghamton
 Cayuga County Community College at Auburn
 Clinton Community College at Plattsburgh
 Columbia-Greene Community College at Hudson
 Community College of the Finger Lakes at Canandaigua
 Corning Community College at Corning
 Dutchess Community College at Poughkeepsie
 Erie Community College at Williamsville, Buffalo, and Orchard Park
 Fashion Institute of Technology at New York City***
 Fulton-Montgomery Community College at Johnstown
 Genesee Community College at Batavia

Herkimer County Community College at Herkimer
 Hudson Valley Community College at Troy
 Jamestown Community College at Jamestown
 Jefferson Community College at Watertown
 Mohawk Valley Community College at Utica
 Monroe Community College at Rochester
 Nassau Community College at Garden City
 Niagara County Community College at Sanborn
 North Country Community College at Saranac Lake
 Onondaga Community College at Syracuse
 Orange County Community College at Middletown
 Rockland Community College at Suffern
 Schenectady County Community College at Schenectady
 Suffolk County Community College at Selden, Riverhead, and Brentwood
 Sullivan County Community College at Loch Sheldrake
 Tompkins Cortland Community College at Dryden
 Ulster County Community College at Stone Ridge
 Westchester Community College at Valhalla

*The Health Sciences Centers at Buffalo and Stony Brook are operated under the administration of their respective University Centers.

**This is an upper-division institution authorized to offer baccalaureate and master's degree programs.

***While authorized to offer such baccalaureate and master's degree programs as may be approved pursuant to the provisions of the Master Plan, in addition to the associate degree, the Fashion Institute of Technology is financed and administered in the manner provided for community colleges.

****These operate as "contract colleges" on the campuses of independent universities.

State University of New York

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 (One vacancy)

Chancellor

D. Bruce Johnstone, B.A., M.A.T., Ph.D.

Provost and Vice Chancellor for Academic Programs

Joseph C. Burke, B.A., M.A., Ph.D.

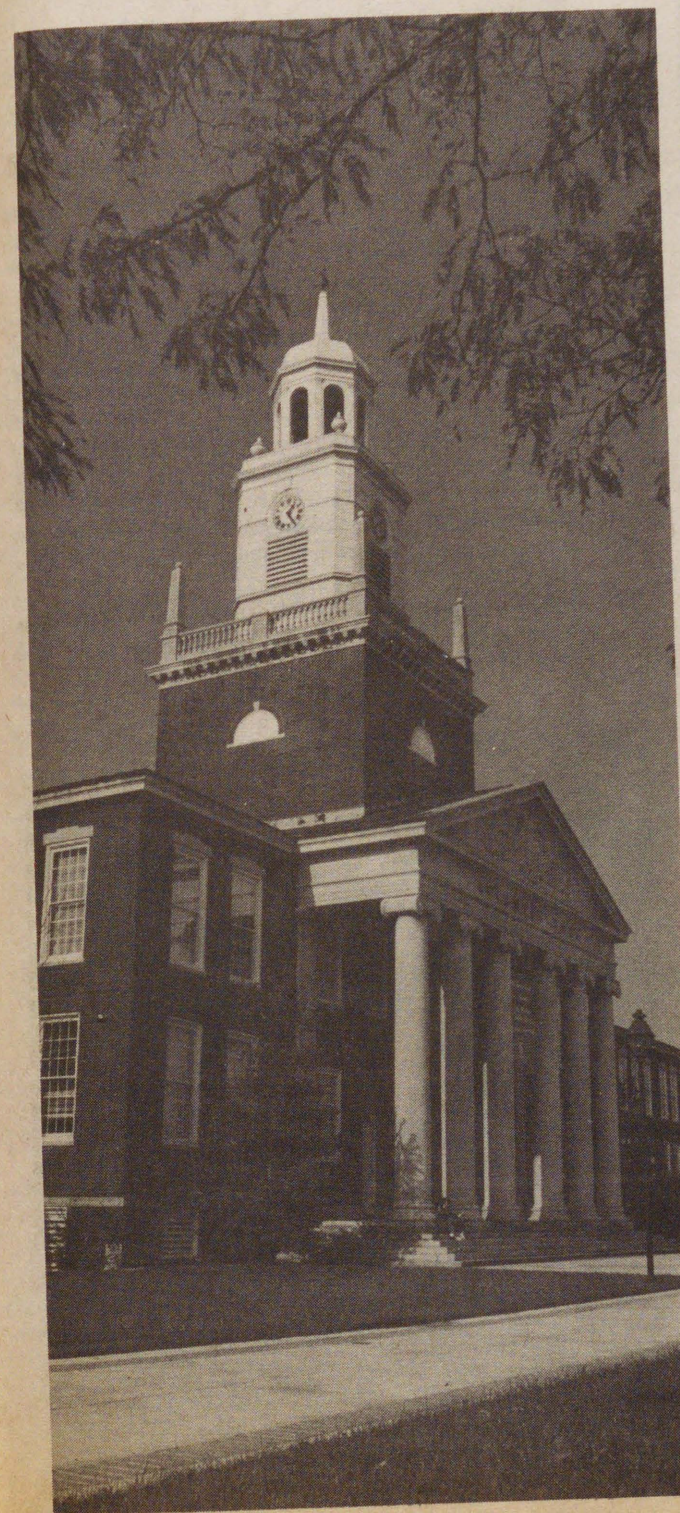
Secretary of the University

Martha J. Downey, B.S., M.A.

Senior Vice Chancellor

Harry K. Spindler, B.A., M.P.A.

Buffalo State College: Important Facts



State University College at Buffalo

College Council

	Terms Expires
Ross B. Kenzie, <i>Chairman</i>	1990
Walter B. Holland Jr., D.D.S.	1994
Edward T. Hunt Jr.	1992
Randolph A. Marks	1994
Walter E. Moxham Jr.	1995
Donald P. Quinlan	1996
Olivia Smith-Blackwell, M.D.	1991
Paul A. Tokasz	1997
Timothy J. Toohey	1997
Plus a student member	

Accreditations

Accrediting Board for Engineering and Technology
 American Chemical Society
 American Dietetic Association
 American Speech-Language-Hearing Association
 Board of Regents, University of the State of New York
 Council on Social Work Education
 International Association of Counseling Services
 Middle States Association of Colleges and Schools
 National Association of Industrial Technology
 National Council for Accreditation of Teacher Education

Significant Dates in the History of the College

- 1867 Legislature created the Normal School at Buffalo
- 1871 Henry B. Buckham appointed principal; school opened with three departments: Normal, Collegiate, Scientific
- 1873 First graduating class—23 graduates
- 1886 James M. Cassety appointed principal
- 1895 Three-year Primary and Kindergarten Course initiated
- 1906 Manual Arts Department established
- 1909 Daniel Upton appointed principal
- 1910 Household Arts Department established
- 1915 Edward H. Butler Jr. succeeded Edward H. Butler as president of Local Board
- 1919 Harry W. Rockwell appointed principal
- 1919 Home Economics Program became four-year course leading to bachelor of science in home economics
- 1920 Manual Arts Department changed to Industrial Arts Department
- 1925 Normal course became four-year program leading to bachelor of science in education
- 1928 Name changed to New York State College for Teachers; principal changed to president; accredited by American Association of Teachers Colleges
- 1930 Art Education Department established
- 1931 Moved to present campus

- 1939 Accredited by American Association of University Women
- 1944 Exceptional Children Education Division established
- 1945 Master of science in education degree authorized
- 1948 State University of New York established; college accredited by Middle States Association of Colleges and Secondary Schools
- 1951 President Harry W. Rockwell retired; Dean Ralph Horn became acting president; Harvey M. Rice appointed president
- 1958 President Harvey M. Rice resigned; Dean Ralph Horn became acting president; approval of secondary teacher education curricula in mathematics and science
- 1959 Mrs. Bruce E. Wallis (formerly Kate Butler Righter) appointed chairperson of Local Council
- 1959 Dean Ralph Horn, acting president, retired; Paul G. Bulger appointed president
- 1959 Name changed to State University College of Education at Buffalo
- 1961 Name changed to State University College at Buffalo
- 1962 Approval of secondary teacher education curriculum in social studies; college accredited by National Council for Accreditation of Teacher Education
- 1963 Approval of liberal arts degree program
- 1963 Mrs. Bruce E. Wallis (formerly Kate Butler Righter) reappointed chairperson of Local Council
- 1964 Approval of secondary teacher education curriculum in foreign language and vocational technical baccalaureate curriculum
- 1966 Approval of bachelor of science curriculum with major in home economics
- 1967 President Paul G. Bulger resigned; Dr. Houston T. Robison, vice president for academic affairs, became acting president; E.K. Fretwell Jr. appointed president; master of arts degree authorized with major in English and mathematics; SEEK/Educational Opportunity Program established
- 1968 Master of arts degree with major in history authorized; approval of bachelor of science curriculum with major in industrial technology; Chemistry Department accredited by American Chemical Society
- 1969 Master of arts degree with major in chemistry, biology, and philosophy authorized
- 1970 Bachelor of technology and master of science in student personnel administration degrees authorized
- 1971 Bachelor of fine arts degree authorized; centennial year
- 1972 Accreditation renewed by Middle States Association of Colleges and Secondary Schools; accreditation of teacher education programs renewed by National Council for Accreditation of Teacher Education
- 1975 Master of science in creative studies authorized
- 1977 Master of science in criminal justice and clinical dietetics authorized

- 1978 Bachelor of science in special studies authorized; President E.K. Fretwell Jr. resigned; master of arts and master of science in multidisciplinary studies authorized
- 1979 Dr. Barbara R. Frey, vice president for academic affairs, became acting president; Dr. D. Bruce Johnstone appointed president
- 1980 Bachelor of science in business studies authorized; bachelor of science in business education authorized; bachelor of arts in special studies authorized; bachelor of science in general studies authorized
- 1981 Accreditation of teacher education programs renewed by National Council for Accreditation of Teacher Education
- 1982 Accreditation renewed by Middle States Association of Colleges and Secondary Schools; Ross B. Kenzie appointed chairperson of College Council
- 1983 Engineering technology programs accredited by Accrediting Board for Engineering and Technology; acquisition of master's level Art Conservation Program from State University College at Oneonta
- 1984 Master of science degree in bilingual exceptional children education approved
- 1988 President D. Bruce Johnstone resigned; Dr. Richard A. Wiesen, vice president for academic affairs, became acting president
- 1989 Dr. F. C. Richardson appointed president



College Administration

F. C. RICHARDSON, Ph.D.	President
RICHARD A. WIESEN, Ed.D.	Provost and Vice President for Academic Affairs
JAMES M. CAPUTI, B.B.A.	Vice President for Finance and Management
RICHARD B. DRESSNER, Ph.D.	Vice President for Institutional Advancement
HAL D. PAYNE, J.D.	Acting Vice President for Student Affairs

PRESIDENT

OF THE COLLEGE	F. C. Richardson, Ph.D.
Sec. Asst. to the President	Anna Tiberia
Exec. Asst. to the President	Modesto A. Argenio, M.A.
Dir., Public Affairs	Joyce E. Fink, Ed.M.
Assoc. Dir., Public Affairs	Patricia E. Smith, B.S.
Editor/Writer	James G. Koelmel, B.A.
Affirmative Action Officer	Sheila J. Nickson

PROVOST AND VICE PRESIDENT

ACADEMIC AFFAIRS	Richard A. Wiesen, Ed.D.
Asst. to the Vice President	Nancy J. Lund, Ph.D.
Special Asst. to the Vice President	C. Lavonne Moton, Ph.D.
Assoc. Vice President & Dean, Undergraduate Studies	Neil H. Rudin, Ph.D.
Asst. Dean, Undergraduate Studies	Kathryn A. Moran, M.S.
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Dir., Academic Advisement	Leon Smith, Ph.D.
Dir., Academic Skills Center	Russell Macaluso, Ed.D.
Dir., Academic Standards & Certification	Fred E. Chapman, Ed.D.
Dir., International Programs	Emil H. Hoch, Ed.D.
Dir., New Student Programs & Orientation	Susan O. Zirin, M.Ed.
Dir., Special Programs	Wendel B. Wickland, M.S.
Assoc. Vice President & Dean, Graduate Studies and Research	Gerald F. Accurso, Ed.D.
Dir., Center for Assistance to Business & Industry	(Appt. Pending)
Acting Dir., Center for Studies in Creativity	Roger L. Firestien, Ph.D.
Dir., Research Services & Administration	Kenneth A. Cross, Ed.D.
Assoc. Vice President, Planning & Academic Support Services	Dewayne A. Beery, Ph.D.
Dir., Butler Library	George C. Newman, Ph.D.
Dir., Instructional Resources	Barry A. Herb, M.A.
Asst. Vice President	Jeffrey J. Wallace, Ph.D.
Dir., Educational Opportunity Program	Michael Stevens, M.A.T.
Assoc. Dir.	Cynthia Green-Eggleston, M.S.Ed.
Asst. Dir., Statistical Services	Lily M. Bink, M.S.
Asst. Dir., Student Services	Ottile Woodruff, B.S.Ed.
Coord., EOP Admissions	Fajri Ansari, M.S.
Coord., EOP Computer Lab	Abdollah Hajikandi, M.S., M.A.
Coord., EOP Academic Services	Anthony Chase, M.A.
Asst. Dir., Counseling	Audrey Garrett, M.S.

EOP Counselors	Roslyn Berkovitz, Ph.D.; Alicia Grant, M.S.; Emma McFayden, M.S.; Michael Pirowski, M.S.; Evelyn Rosario, M.A.; Jean Tassy, B.S.
Acting Dir., Upward Bound & Talent Search	Dorothy Sawyer, M.Ed.
Dir., STEP/C-STEP	Sonja Simmes, M.S.

Dean, Faculty of Applied Science

& Education	Barbara Sirvis, Ed.D.
Assoc. Dean	Ann L. Egan, Ph.D.
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Dir., Center for Development of Human Services	David P. Wegenast, D.S.W.
Dir., College Learning Laboratory	Crayton L. Buck, Ed.D.
Chp., Business Dept.	Benjamin D. Sackmary, Ph.D.
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Humanities	Patricia W. Cummins, Ph.D.
Assoc. Dean	Lee Ann Grace, Ph.D.
Chp., Art Conservation Dept.	F. Christopher Tahk, Ph.D.
Chp., Art Education Dept.	Michael E. Parks, Ed.D.
Chp., Communication Dept.	W. Richard (Rik) Whitaker, Ph.D.
Chp., Design Dept.	Richard A. Butz, M.F.A.
Chp., English Dept.	Theresa F. Platek, Ed.D.
Chp., Fine Arts Dept.	Frank C. Eckmair, M.F.A.
Chp., Foreign Language Dept.	Michael Johnson, Ph.D.
Chp., Performing Arts Dept.	Myron H. Nadel, M.A.
Chp., Philosophy & Religious Studies Dept.	George T. Hole, Ph.D.

Dean, Faculty of Natural & Social Sciences

Social Sciences	Marilyn B. Hoskin, Ph.D.
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Dir., Center for Environmental Research & Education	Charles A. Beasley, Ph.D.
Chp., Anthropology Dept.	Jill Nash, Ph.D.
Chp., Biology Dept.	Bonnie M. Sampsell, Ph.D.
Chp., Chemistry Dept.	Edward M. Schulman, Ph.D.
Chp., Earth Sciences & Science Education Dept.	Robert E. Horvat, Ph.D.
Chp., Economics & Finance Dept.	Alex J. Ratkowski, Ph.D.
Chp., Geography & Planning Dept.	Elbridge A. Renning Jr., M.A.

Chp., Health, Physical Education & Recreation Dept.	Donald E. Barr, Ph.D.
Chp., History & Social Studies Education Dept.	Monroe Fordham, Ph.D.
Chp., Mathematics Dept.	James E. Westrope, M.A.
Chp., Physics Dept.	James W. Wells, Ph.D.
Chp., Political Science Dept.	Abdul H. Raoof, Ph.D.
Chp., Psychology Dept.	Jerry F. Cataldo, Ph.D.
Chp., Sociology Dept.	Rosalyn A. Lindner, Ph.D.

VICE PRESIDENT

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Facilities	John J. Byrne, B.S.
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Resource Management	Dorcas L. Colvin, M.A.
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Asst. Dir., Admissions	Fajri Ansari, M.S.
Senior Admissions Advisers	Lawrence E. Bynum, B.S.; Charles E. Dimidio, M.S.; Gwendolyn Wooten, M.A.; Deborah Jones, B.S.Ed.

Dir., Budget & Information

Services	Stan F. Medinac, M.B.A.
Asst. Dir., Budget	Rebecca J. Schenk, M.B.A.
PDS Coordinator	Barbara A. Meyer, B.A.
Research Systems Analyst	Judith B. Basinski, M.B.A.
Dir., Computing Services	Raymond A. Chamberlain, B.S.
Assoc. Dir. (Systems)	Ronald N. Brown Jr., B.A.
Coord., Instruction & Research Support	Mary Ann Meyer, B.S.
Coord., Systems & Data Communications	Joel P. Swisher, B.A.
Coord., Administrative Information Systems	Albert B. Santini, B.S.
Asst. Dir. (Operations)	David L. Cummings, B.S.
Coord., Operations	Ann Dennis, A.A.S.
Coord., Remote Operations	Jennifer D. McMahon
Coord., Production Services	Marcy A. Zulawski
Dir., Public Safety	Vern B. Anderson, M.S.Ed.
Assoc. Dir., Public Safety	Louis A. Ward
Asst. Dir., Public Safety	James E. Stenger, B.S.

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Dir., College Store	Louis J. Kaminski, B.P.S.
Dir., Human Resources	Karen L. Wayman, M.S.
Controller	Susan M. Hoadley, B.S.

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Dir., Alumni Affairs	Anthony L. Bannon, M.A.
Dir., Burchfield Art Center	(Appt. Pending)
Dir., Annual Giving	Stephen A. Scott-Martin, B.S.
Dir., Performing Arts Center	Glenn R. Nellis, Ph.D.
Dir., Planned Giving & Major Gifts	

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Assoc. Vice President

& Dean of Students	Phillip Santa Maria, Ph.D.
Dir., Student Life	Kate A. Ward, M.S.Ed.
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Coord., Student Union	Donald W. Blundell, M.S.Ed.
Coord., Student Activities & Greek Affairs	Marsha D. Jackson, M.S.Ed.
Coord., Minority Student Services	Gail Wells, B.S.
Dir., Counseling	Edward A. Hattauer, Ph.D.
Asst. Dir., Counseling	Joan McCool, Ph.D.
Counseling Staff	Myra Gordon, Ph.D.; James Donnelly, Ph.D.; Susan Davis, Ph.D.
Psychiatric Consultant	Anthony Foti, M.D.
Dir., Residence Life	Alice Grider, M.A.
Assoc. Dir.	Ronald George, M.S.
Asst. Dir.	Cynthia A. Gilson-Siegel, M.S.
Asst. Dir.	Cravane Givens, B.S.
Dir., Student Health Center	Curtis Brickhouse, M.S.
Asst. to Dir.	Winifred G. Mernan, M.D.
Asst. to Dir., Administration	Mary T. Sullivan, M.S.
Physicians, Part Time	Joseph A. Luzio, B.A.
	Lester S. Sielski, M.D.; Susan T. Eluard, M.D.; Joseph D. Gentile, M.D.; Bohdan Kawinski, M.D.
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Dir., Career Development

Center	Stephanie Zuckerman-Aviles, M.Ed.
Asst. Dir.	Diane Westbrook, M.S.
Counselors	Carlos Tejada, M.S.; Lisa Rauenzahn, M.E.
Dir., College Judicial System	Marsha D. Jackson, M.S.Ed.
Dir., International Student Affairs	Jean-Francois Gounard, Ph.D.
Dir., Intercollegiate Athletics	Fred J. Hartrick, M.S.
Assoc. Dir.	Gail F. Maloney, M.S.
Asst. to Dir.	Richard J. Bihl, M.B.A., M.S.
Business Mgr.	Camille Spyra, B.S.
Coaches	Manny Koginos, Ph.D.; James Ramos, B.S.; Anthony C. Sartori, M.S.; Jerry Boyes, M.A.; Keith Bullion, M.S.; Sid Goodrich, B.S.; Sandra Hollander, B.S.; Paul Wheeler, M.S.; Ed Harris, B.A.; Pam Vogel, B.S.; Holly Workman, B.S.; Joseph Sutton, M.S.; Jeff Lewis, B.S.; Judith Thunhorst, M.Ed.
Sports Information	Keith Bullion, M.S.

Faculty and Professional Staff

Faculty 1991-93 according to information available January 1991. The date in parentheses following the name is that of first appointment to a position on the faculty or staff of this college.

DISTINGUISHED

Vern L. Bullough (1980) Professor, History, and Distinguished Professor, Ph.D., University of Chicago
Joseph A. Fekete (1960) Professor, Geography, and Distinguished Service Professor, Ph.D., University of Illinois
Irene M. Hulicka (1967) Professor, Psychology, and Distinguished Professor, Ph.D., University of Nebraska
Horace Mann (1955) Professor, Exceptional Education, and Distinguished Service Professor, Ph.D., Pennsylvania State University

Gerald F. Accurso (1965) Associate Professor, Interdisciplinary Sciences and Associate Vice President for Academic Affairs: Graduate Studies and Research, Ed.D., State University of New York at Buffalo

Charles Adair (1984) Associate Professor, Communication, A.M., University of Missouri
Elzbieta Adamczyk (1989) Lecturer, Foreign Language, M.A., Silesian University
SoloChidi oL. Ahiarah (1990) Assistant Professor, Business, Ph.D., University of Pittsburgh
John R. Aiken (1964) Professor, History, Ph.D., University of Rochester

John L. Allen (1964) Professor, Technology, Ed.M., State University of New York at Buffalo
Joan Amrozowicz (1966) Associate Professor, Elementary Education and Reading, Ed.D., State University of New York at Buffalo

Laverne B. Anderson (1970) Director, Public Safety, M.S.Ed., State University College at Buffalo

Sarah Anderson (1974) Associate Professor, Education, Ph.D., State University of New York at Buffalo

Stephen N. Andre (1979) Associate Professor, Engineering Technology, Ph.D., Syracuse University

Bruce K. Andrew (1965) Associate Librarian, and State University Chancellor's Award for Excellence in Librarianship, 1990, M.A., State University of New York at Buffalo

Paul A. Andruczyk (1970) Associate for Instructional Resources, M.S.Ed., State University College at Buffalo

Lucy Andrus (1982) Assistant Professor, Art Education, M.S.Ed., State University College at Buffalo

Fajri Ansari (1981) Assistant Director, Admissions, M.S., State University College at Brockport

Bernard D. Ansel (1964) Associate Professor, History, Ph.D., University of Kansas

Catherine G. Ansuini (1988) Assistant Professor, Health, Physical Education and Recreation, Ed.D., State University of New York at Buffalo
Charles Aquino (1968) Professor, Journalism, Ph.D., Syracuse University
Arthur D. Arent (1970) Staff Associate, Instructional Resources, M.S. Ed., State University College at Buffalo

Modesto A. Argenio (1989) Executive Assistant to the President, M.A., Stanford University

Vincent C. Arnone (1963) Professor, Art Education, Ed.D., State University of New York at Buffalo

Lebanon L. Arrington (1969) Senior Counselor, Counseling Center, M.S.W., University of Kansas

Dorothy Askew-Sawyer (1986) Acting Director, Upward Bound, M.S., Canisius College

Maria L. Assad (1984) Assistant Professor, Foreign Language, Ph.D., State University of New York at Buffalo

James Astrella (1983) Assistant Professor, Design, B.F.A., Syracuse University

Richard T. Augustine (1976) Director of Student Accounts, M.S., State University College at Buffalo

Herbert A. Aurbach (1970) Professor, Sociology, Ph.D., University of Kentucky

Christopher B. Aviles (1987) Visiting Assistant Professor, Social Work, M.S.W., State University of New York at Stony Brook

Charles Bachman (1965) Professor, English, Ph.D., Indiana University

Carl B. Backman (1985) Assistant Professor, Sociology, Ph.D., Cornell University

Robert C. Baeumler (1964) Professor, Fine Arts, M.F.A., Yale University

William T. Bailey (1964) Professor, Mathematics, Ed.D., State University of New York at Buffalo

Cathleen A. Baker (1983) Associate Professor, Art Conservation, M.A., University of Michigan

E. Marie C. Baker (1973) Associate Professor, Social Work, Ph.D., University of Pittsburgh

Sylvia D. Bakos (1990) Assistant Professor, Fine Arts, Ph.D., Rutgers University

Joseph W. Ball (1976) Assistant to the Director, Physical Plant, B.S., State University College at Buffalo

Eileen E. Ballard (1968) Assistant Professor, Elementary Education and Reading, M.S.Ed., State University College at Buffalo

Victor H. Balowitz (1964) Professor, Philosophy, Ph.D., Columbia University

Proves R. Banks Jr. (1988) Lecturer, Technology, B.S.E.E., Wayne State University

Joseph P. Barback (1969) Professor, Mathematics, Ph.D., Rutgers University

Geraldine E. Bard (1971) Associate Professor, English, Ph.D., State University of New York at Buffalo

Paul J. Bardak (1986) Programmer/Analyst, B.S., State University College at Buffalo
Patrick J. Barnes (1984) Instructor, Design, B.S. Arch., Washington University

Sheila M. Barnes (1986) Assistant Professor, Design, M.Arch., State University of New York at Buffalo

William J. Barnett (1950) Professor, Elementary Education and Reading, Ed.D., State University of New York at Buffalo

Donald E. Barr (1972) Associate Professor, Health, Physical Education, and Recreation, and Department Chairperson, Ph.D., State University of New York at Buffalo

Jack Barr (1960) Associate Professor, Mathematics, M.S., State University of Iowa

William R. Bartoo (1979) Associate Professor, Design, M.S.T., Rochester Institute of Technology

Judith B. Basinski (1981) Programmer/Analyst, M.B.A., State University of New York at Buffalo

Richard J. Batt (1989) Assistant Professor, Earth Sciences and Science Education, Ph.D., University of Colorado

Dolores Battle (1970) Associate Professor, Speech Language Pathology and Audiology, Ph.D., State University of New York at Buffalo

Denise Bauer (1966) Instructional Support Technician, Earth Sciences and Science Education and Anthropology

R. Bruce Baum (1972) Associate Professor, Exceptional Education, Ph.D., University of Indiana

Mark T. Bausili (1985) Registrar, B.A., University of Virginia

Patricia P. Bazulka (1967) Associate Professor, Education, M.S., State University College at Buffalo

John B. Beach (1978) Associate Professor, Engineering Technology, M.S., University of Michigan

Charles A. Beasley (1985) Professor, Technology and Department Chairperson, Ph.D., University of Minnesota

Paul R. Beaudet (1961) Professor, Geography, Ph.D., Clark University

John F. Beaver (1988) Assistant Professor, Elementary Education and Reading, Ph.D., Michigan State University

Harold D. Becker (1980) Assistant Professor, Engineering Technology, M.S.E.E., State University of New York at Buffalo

Dewayne Beery (1963) Associate Professor, Physics, and Associate Vice President for Academic Affairs: Planning and Support Services, Ph.D., State University of New York at Buffalo

Nancy B. Belfer (1960) Professor, Design, and State University Chancellor's Award for Excellence in Teaching, 1982, M.F.A., School for American Craftsmen

Shirley Bennett-Fenty (1972) Associate Professor, Education, B.A., State University of New York at Buffalo

William B. Bennett (1969) Professor, Economics and Finance, Ph.D., University of Rochester

Paul J. Bentkowski (1982) Systems Programmer, B.S., State University College at Buffalo

Marion H. Benz (1972) Associate Professor, Elementary Education and Reading, Ed.D., University of Rochester
Roslyn Berkovitz (1969) Chief Counselor, Educational Opportunity Program, Ph.D., Cornell University
Richard J. Bihl (1979) Assistant Athletics Director, Men's Varsity Basketball Coach, M.B.A., Canisius College
Lily M. Bink (1975) Assistant to Director, Research, Educational Opportunity Program, M.S.Ed., State University of New York at Buffalo
Paul T. Bink (1978) Assistant Director, Admissions, M.S., State University College at Buffalo
Donald L. Birdd (1985) Associate Professor, Earth Sciences and Science Education, Ed.D., University of Northern Colorado
Christopher J. Blodgett (1985) Assistant Professor, Psychology, Ph.D., University of Manitoba
Donald W. Blundell (1970) Coordinator, Student Union, M.S.Ed., State University College at Buffalo
Catherine Boehm (1974) Associate Professor, Education, M.S., State University of New York at Buffalo
Kenwyn Boldt (1966) Professor, Music, D.M., Indiana University
Judith Bondurant-Utz (1977) Associate Professor, Learning and Behavioral Disorders, Ed.D., University of Cincinnati
Barbara T. Bontempo (1988) Associate Professor, English, Ed.D., Indiana University
Frederick W. Bosch (1981) Associate Professor, Technology, M.S., State University of New York at Buffalo
Jerry Boyes (1986) Men's Varsity Football Coach and Assistant Athletics Director, M.S., Ithaca College
Donald J. Brennan (1968) Associate for Instructional Resources, M.S.Ed., State University College at Buffalo
Curtis L. Brickhouse (1989) Assistant Director, Residence Life, M.A., Indiana University of Pennsylvania
Robert W. Brock (1962) Professor, Fine Arts, M.F.A., Ohio University
Michael R. Broderick (1981) Assistant for University Financial Analysis, B.S., State University of New York at Buffalo
Helen M. Brooks (1980) Nurse, Weigel Health Center, R.N., Bayonne University
Ronald N. Brown Jr. (1969) Associate Director, Computing Services, B.A., State University of New York at Buffalo
John J. Bruno (1966) Professor, Elementary Education and Reading, Ed.D., State University of New York at Buffalo
Bruce G. Bryski (1983) Associate Professor, Communication, Ph.D., Pennsylvania State University
Crayton L. Buck (1985) Director, College Learning Laboratory/Campus West, Ed.D., Pennsylvania State University
Norbert R. Buczak (1960) Corporation Accountant, F.S.A.
Vern L. Bullough (1980) Professor, History, and Distinguished Professor, Ph.D., University of Chicago
Robert C. Burkhardt (1965) Professor, Art Education, Ed.D., The Pennsylvania State University
William E. Burns (1966) Professor, Industrial Arts Education, Ed.D., University of Maryland
Richard A. Butz (1985) Associate Professor, Design, and Department Chairperson, M.F.A., State University of New York at Alfred

Lawrence E. Bynum (1969) Senior Admissions Adviser, Women's Varsity Softball Coach, B.A., State University of New York at Buffalo
Theodore F. Byrley (1984) Associate Professor, Economics and Finance, Ph.D., University of Cincinnati
John J. Byrne (1982) Associate Vice President for Facilities, B.S., State University of New York at Buffalo
Betty J. Cappella (1985) Associate Professor, Educational Foundations, Ph.D., State University of New York at Buffalo
James M. Caputi (1960) Vice President for Finance and Management, B.B.A., Canisius College
John C. Carbonara (1964) Associate Professor, Philosophy, and State University Chancellor's Award for Excellence in Teaching, 1974, Ph.D., State University of New York at Buffalo
Joaquin J. Cardoso (1968) Professor, History, Ph.D., University of Wisconsin
David A. Carson (1983) Associate Professor, History and Social Studies Education, Ph.D., Texas Christian University
Donald E. Carter (1964) Associate Professor, Educational Foundations, Ed.D., State University of New York at Buffalo
Jerry F. Cataldo (1969) Professor, Psychology, and Department Chairperson, Ph.D., State University of New York at Buffalo
Linda Chalker-Scott (1989) Assistant Professor, Biology, Ph.D., Oregon State University
Raymond A. Chamberlain (1970) Director, Computing Services, B.S., State University of New York at Buffalo
William J. Champion (1960) Professor, Music, M.M., University of Michigan
Barbara A. Chapman (1968) Nurse, Weigel Health Center, R.N., Sisters of Charity Hospital and Canisius College
Fred E. Chapman (1964) Associate Professor, Industrial Arts Education and Director of Academic Standards and Certification, Ed.D., State University of New York at Buffalo
Julie C.T. Ch'en (1969) Professor, Mathematics, Ph.D., University of Rochester
Simeon W. Chilungu (1970) Associate Professor, Anthropology, Ph.D., State University of New York at Buffalo
Michael Christman (1984) Assistant Professor, Education, M.Ed., State University of New York at Buffalo
Lori Christmastree (1981) Associate Professor, Design, M.F.A., Wayne State University
Robert A. Clark (1989) Assistant Professor, Computer Information Systems, M.S., State University of New York at Buffalo
Sidney Cohen (1966) Professor, Chemistry, Ph.D., University of Colorado
Louis Colca (1977) Associate Professor, Social Work, M.S.W., State University of New York at Buffalo
Ann C. Colley (1985) Associate Professor, English, Ph.D., University of Chicago
Paul T. Collyer (1971) Associate Director of Admissions, M.Ed., State University of New York at Buffalo
Dorcas L. Colvin (1988) Associate Vice President for Human Resource Management, M.A., University of Iowa
John A. Conley (1990) Professor and Department Chairperson, Criminal Justice, Ph.D., Michigan State University
David T. Converse (1964) Associate Professor, Educational Foundations, Ph.D., University of Nebraska

Bryna R. Cooperman (1969) Associate Professor, Elementary Education and Reading, Ed.D., Ball State University
Pat A. Cordaro (1968) Instructional Support Technician, Biology, B.A., State University College at Buffalo
Sharon F. Cramer (1985) Assistant Professor, Exceptional Education, Ph.D., New York University
Sylvia Crespo (1988) Instructor, English, Ed.M., State University of New York at Buffalo
Kenneth A. Cross (1969) Director, Research Services and Administration, Ed.D., State University of New York at Buffalo
Paul M. Culkowski (1978) Professor, Engineering Technology, Ph.D., State University of New York at Buffalo
David L. Cummings (1970) Assistant Director, Computing Services, B.S., State University College at Buffalo
Patricia W. Cummins (1989) Dean, Arts and Humanities, Ph.D., University of North Carolina
Archie L. Cureton (1984) Associate Director, Financial Aid, M.S., Canisius College
Keith L. Curry (1970) Professor, Exceptional Education, Ph.D., University of Iowa
Sarita S. Curry (1981) Associate Professor, Exceptional Education, Ph.D., State University of New York at Buffalo
Daniel P. Dacey Jr. (1960) Associate Professor, Foreign Language, M.A., Boston University
Michael D. Daley (1989) Manager, Employment and Classification Systems, M.B.A., University of New Haven
Donna J. Davidoff (1987) Senior Assistant Librarian, M.L.S., State University of New York at Buffalo
Mary A. Davis (1977) Associate Professor, Business, Ed.D., State University of New York at Buffalo
Susan M. Davis (1985) Assistant Professor, Economics and Finance, Ph.D., New School for Social Research
Susan R. Davis (1988) Psychologist, Counseling Center, Ph.D., Southern Illinois University at Carbondale
Robert J. Davitt (1965) Professor, Earth Sciences and Science Education, and State University Chancellor's Award for Excellence in Teaching, 1977, Ed.D., State University of New York at Buffalo
Mary Ann DeKatz (1969) Coordinator, Employee Compensation
Mary K. Delmont (1972) Associate Librarian, M.A., State University of New York at Buffalo
Michael J. DeMarco (1981) Associate Professor, Earth Sciences and Science Education, Ph.D., University of Cincinnati
Elaine C. DeMarchi (1985) Lead Programmer Analyst, B.S., State University College at Buffalo
John L. DeNisco (1982) Associate Professor, Business, M.B.A., Canisius College
Ann Dennis (1977) Coordinator, Central Computing Operations, A.A.S., Erie Community College
Suzann Denny (1974) Professor, Design, M.S., Syracuse University
Diane Depken (1988) Assistant Professor, Health, Physical Education and Recreation, Ed.D., Temple University
Joseph DeRose (1966) Associate Professor, Speech Language Pathology and Audiology, M.Ed., Pennsylvania State University
Ram Desai (1963) Professor, Political Science, Ph.D., Michigan State University

Marian Deutschman (1985) Assistant Professor, Communication, Ph.D., State University of New York at Buffalo
Mohan S. Devgun (1990) Associate Professor, Technology, Ph.D., University of Birmingham, England
Paul J. DeWald (1967) Assistant Professor, Broadcasting, M.S., State University of New York at Buffalo
Ellen M. DeWind (1984) Instructor, Nutrition and Food Science, M.S.Ed., State University College at Buffalo
J. Patrick Dexter (1977) Associate Professor, Social Work, M.S.W., State University of New York at Buffalo
Stanley Dickson (1956) Professor, Exceptional Education, Ed.D., State University of New York at Buffalo
Charles E. Dimidio (1972) Senior Admissions Adviser, M.S.Ed., State University College at Brockport
Frank P. Diulus (1973) Associate Professor, Educational Foundations, Ph.D., University of Pittsburgh
James P. Donnelly Jr. (1988) Senior Psychologist, Counseling Center, Ph.D., State University of New York at Buffalo
Thomas A. Donovan (1968) Professor, Chemistry, Ph.D., University of Illinois
Henry S. Dowski (1967) Associate Professor, Elementary Education and Reading, Ed.D., State University of New York at Buffalo
Nuala M. Drescher (1965) Professor, History, Ph.D., University of Delaware
Richard B. Dressner (1991) Vice President for Institutional Advancement and Executive Director, Buffalo State College Foundation Inc., Ph.D., Cornell University
Robert C. Dubois (1962) Associate Professor, Physics, M.S., Wayne State University
John F. Dumont (1990) Assistant Professor, Sociology, Ph.D., Cornell University
John Dwyer (1970) Associate Professor, Social Research, Ph.D., State University of New York at Buffalo
John J. Earshen (1980) Assistant Professor, Technology, M.B.A., State University of New York at Buffalo
Susan J. Earshen (1973) Assistant Director, Personnel, M.B.A., State University of New York at Buffalo
Douglas P. Easton (1977) Associate Professor, Biology, Ph.D., University of Iowa
Gregory W. Ebert (1985) Assistant Professor, Chemistry, Ph.D., University of Nebraska
Frank C. Eckmair (1963) Professor, Fine Arts, and Department Chairperson, M.F.A., Ohio University
Ann L. Egan (1971) Professor, Educational Foundations, and Associate Dean, Faculty of Applied Science and Education, and State University Chancellor's Award for Excellence in Teaching, 1981, Ph.D., State University of New York at Buffalo
Mohamed El-Behairy (1963) Professor, Political Science, Ph.D., Ohio State University
Christine L. Ellington (1979) Assistant Professor, Education, M.S., State University College at Fredonia
Deborah C. Rindfuss-Ellis (1987) Assistant Professor, Technology, M.B.A., State University of New York at Buffalo
Gail M. Ellmann (1972) Associate Librarian, M.L.S., State University of New York at Buffalo
Robert J. Elmes (1971) Professor, Communication, Ed.D., Indiana University

Susan T. Eluard (1977) College Physician, P.T., Weigel Health Center, M.D., University of Sherbrooke
William E. Engelbrecht (1973) Professor, Anthropology, and State University Chancellor's Award for Excellence in Teaching, 1990, Ph.D., University of Michigan
Warren Enters (1968) Professor, Theater, B.A., University of Wisconsin
David J. Ettestad (1986) Assistant Professor, Physics, Ph.D., Cornell University
Heidi E. Faletti (1984) Associate Professor, Foreign Language, Ph.D., University of California
Gerhard Falk (1957) Professor, Sociology, and State University Chancellor's Award for Excellence in Teaching, 1980, Ed.D., State University of New York at Buffalo
Gisele Feal (1973) Associate Professor, Foreign Language, Ph.D., University of Michigan
Joseph A. Fekete (1960) Professor, Geography, and Distinguished Service Professor, Ph.D., University of Illinois
Alma Ferro (1985) Career Counselor, M.S., State University College at Buffalo
Abel K. Fink (1956) Professor, Educational Foundations, Ed.D., Teachers College, Columbia University
Joyce E. Fink (1965) Director, Public Affairs, and the State University Chancellor's Award for Excellence in Professional Service, 1979, Ed.M., University of Buffalo
Daphne Finnegan (1978) Associate Professor, Dance, M.A., University of Utah
Mary E. Fiore (1963) Professor, Music, Ph.D., Indiana University
Roger L. Firestien (1984) Assistant Professor, Center for Studies in Creativity, Ph.D., State University of New York at Buffalo
Mildred J. Fischle (1965) Professor, Elementary Education and Reading, Ed.D., Ball State University
Lydia Fish (1967) Professor, Anthropology, Ph.D., Indiana University
Joseph V. Flanagan (1988) Director, Alumni Affairs, M.S., State University College at Oneonta
Marillyn M. Flavin (1967) Associate Professor, Elementary Education and Reading, Ed.D., State University of New York at Buffalo
Lawrence G. Flood (1977) Professor, Political Science, Ph.D., University of North Carolina at Chapel Hill
Frederick G. Floss (1984) Associate Professor, Economics and Finance, Ph.D., State University of New York at Buffalo
Kevin E. Foley (1977) Systems Programmer, M.S., State University College at Buffalo
Monroe Fordham (1970) Professor, History, and Department Chairperson, Ph.D., State University of New York at Buffalo
Margaret A. Forrester (1980) Assistant Professor, Education, and Principal/Associate Director, College Learning Laboratory, M.S.Ed., State University College at Buffalo
Richard J. Foster (1965) Professor, Earth Sciences and Science Education, M.S., Western Reserve University
Anthony M. Foti (1982) Psychiatrist (P.T.), Weigel Health Center, Diplomate, American Board of Psychology and Neurology
James G. Fox (1981) Professor, Criminal Justice, Ph.D., State University of New York at Albany
Bernhard Frank (1965) Professor, English, Ph.D., University of Pittsburgh
Robert C. Frascatore (1967) Associate Professor, Mathematics, M.A., University of Maine

Richard F. Frazita (1969) Associate Professor, Elementary Education and Reading, Ed.D., State University of New York at Buffalo
John Frederick (1977) Coordinator, Commuter Services, Ed.D., State University of New York at Buffalo
Colleen H. Frey (1980) Instructor, Nutrition and Food Science, Ph.D., State University of New York at Buffalo
Maryangela Gadikian (1979) Assistant Professor, Computer Information Systems, M.B.A., State University of New York at Buffalo
Randolph L. Gadikian (1981) Associate Librarian, M.L.S., State University of New York at Buffalo
Dennis L. Gaffin (1989) Assistant Professor, Anthropology, Ph.D., State University of New York at Buffalo
William T. Ganley (1972) Professor, Economics and Finance, Ph.D., University of California at Berkeley
Audrey W. Garrett (1984) Assistant Director, Educational Opportunity Program, M.S., Canisius College
Marie S. Geise (1973) Professor, Anthropology, Ph.D., State University of New York at Buffalo
Monica M. Gensbittel (1952) Associate Librarian, M.L.S., State University College at Geneseo
Joseph D. Gentile (1977) Physician, P.T., Weigel Health Center, M.D., State University of New York at Buffalo
Ronald A. George (1986) Assistant Director, Residence Life, M.S.Ed., Niagara University
Philip G. Gerace (1968) Staff Associate, Instructional Resources, B.S.Ed., State University College at Buffalo
Joseph E. Germano (1976) Associate Professor, Foreign Language, Ph.D., Rutgers University
Jeannie Gex (1974) Librarian, College Learning Laboratory, M.L.S., State University of New York at Buffalo
Thomas M. Giambone (1990) Associate Professor, Mathematics, Ed.D., State University of New York at Buffalo
Larry E. Gibson (1985) Assistant Professor, Engineering Technology, M.S., Canisius College
Arthur W. Gielow (1970) Instructional Support Technician, Earth Sciences and Science Education, B.S., State University College at Buffalo
James Gillham (1977) Associate Professor, Criminal Justice, Ph.D., University of Illinois at Urbana
Steven Gittler (1955) Professor, Elementary Education and Reading, and Business, Attorney, Ed.D., State University of New York at Buffalo
Cravane M. Givens (1984) Assistant Director, Residence Life-Facilities, B.S., North Carolina A & T University
Edward S. Gleason (1973) Instructional Support Technician, Earth Sciences and Science Education
Linda K. Gleckel (1971) Assistant Professor, Exceptional Education, M.S.Ed., State University College at Buffalo
Warren L. Gleckel (1975) Associate Professor, Exceptional Education, Ph.D., Syracuse University
Maryruth Glogowski (1975) Librarian, M.L.S., State University of New York at Buffalo
James A. Gold (1977) Associate Professor, Educational Foundations, D.Ed., Pennsylvania State University
Stephanie R. Goldberg (1988) Assistant Professor, Technology, B.S., State University of New York at Buffalo

Bonnie Gordon (1970) Assistant Professor, Design, M.F.A., Rochester Institute of Technology
Gloria Gordon (1990) Coordinator, Native American Student Services, M.S., St. Lawrence University
Myra E. Gordon (1984) Senior Psychologist, Counseling Center, Ph.D., State University of New York at Buffalo
Patricia A. Gordon (1968) Director, Purchasing
Jean-Francois Gounard (1978) Director, International Student Affairs, Doctorat d'Universite, University of Bordeaux
Virginia E. Grabiner (1975) Associate Professor, Sociology, Ph.D., (Criminology), University of California
Lee A. Grace (1973) Assistant Professor, Foreign Language, and Associate Dean, Faculty of Arts and Humanities, Ph.D., State University of New York at Buffalo
Albert Grande (1970) Professor, Educational Foundations, Ph.D., University of Pittsburgh; J.D., State University of New York at Buffalo
Alicia Grant (1987) Counselor, Educational Opportunity Program, M.S., Long Island University
Leonard Grazioplene (1968) Associate Professor, Business, Ph.D., State University of New York at Buffalo
Alwin C. Green (1972) Professor, Mathematics, Ph.D., Syracuse University
Fred H. Greenberg (1964) Professor, Chemistry, Ph.D., University of Chicago
Cynthia Green-Eggleston (1979) Associate Director, Educational Opportunity Program, M.S.Ed., State University College at Buffalo
Phyllis K. Gresham (1983) School Nurse, College Learning Laboratory, M.S., State University of New York at Buffalo
Alice C. Grider (1990) Director, Residence Life, M.A., Indiana University
James O. Grunebaum (1971) Professor, Philosophy, Ph.D., University of Chicago
Richard Gubernick (1969) Professor, Fine Arts, M.F.A., University of Massachusetts
Joseph R. Guetta (1972) Instructional Support Technician, Technology, A.A.S., American Television Institute
Gordon E. Guffner (1969) Professor, Industrial Technology, M.S., State University of New York at Buffalo
Andrea Guiati (1985) Instructor, Foreign Language, M.A., State University of New York at Binghamton
James Guyker (1970), Professor, Mathematics, Ph.D., Lehigh University
Irene N. Hagner (1979) Staff Assistant, Agency and Foundation Accounting
Paul V. Hale (1963) Professor, English, Ph.D., New York University
Richard N. Hall (1964) Associate Professor, Industrial Arts, and Associate Dean, Faculty of Applied Science and Education, M.Ed., Washington State College
James F. Hamm (1986) Assistant Professor, Art Conservation, M.A., State University College at Oneonta
Terry M. Harding (1977) Coordinator, Campus Services, B.A., State University College at Buffalo
Rebecca P. Harlin (1988) Assistant Professor, Elementary Education and Reading, Ph.D., University of Florida
Marcell L. Harrington (1986) Programmer/Analyst, B.S., State University College at Buffalo
Carole S. Harris (1966) Associate Registrar

Katherine Hartman (1980) Assistant Professor, Art Education, M.A., State University of New York at Buffalo
Fred J. Hartrick (1960) Director of Athletics, M.S., Pennsylvania State University
Edward A. Hattauer (1987) Director, Counseling Center, Ph.D., Teachers College, Columbia University
Donna M. Hayes (1982) Assistant Professor, Nutrition and Food Science, M.S., Ohio State University
James D. Haynes (1967) Professor, Biology, Ph.D., Iowa State University
Gary Heiman (1976) Associate Professor, Psychology, Ph.D., Bowling Green State University
Richard D. Heller (1965) Professor, Health, Physical Education and Recreation, M.A., Wayne State University
Keith M. Henderson (1969) Professor, Political Science, D.P.A., University of Southern California
Frank G. Hengerer Jr. (1965) TV Producer-Director, M.F.A., Yale University
Mark Henning (1981) Instructional Support Technician, Instructional Resources
Barry A. Herb (1985) Director, Instructional Resources, M.A., Ohio State University
June Hesch (1980) Assistant Professor, English, Ph.D., State University of New York at Buffalo
Donald R. Hetzner (1970) Professor, Social Studies Education, Ed.D., State University of New York at Buffalo
Levin Hill (1987) Assistant Librarian, M.L.S., State University of New York at Buffalo
Emil H. Hoch (1966) Professor, Industrial Arts Education, and Director, International Education, Ed.D., University of Maryland
Carol A. Hodges (1986) Associate Professor, Elementary Education and Reading, Ph.D., University of Illinois
Melvin J. Hoffman (1968) Professor, English, Ph.D., State University of New York at Buffalo
Warren J. Hoffman (1977) Financial Aid Counselor, Ed.M., State University of New York at Buffalo
George T. Hole (1965) Professor, Philosophy, and Department Chairperson, Ph.D., University of Rochester
Sandra L. Hollander (1985) Athletic Trainer and Softball Coach, B.S., Indiana University
Paul R. Homer (1954) Professor, Music, M.A., Teachers College, Columbia University
Saul J. Horowitz (1960) Associate Professor, Art Education, M.F.A., Cranbrook Academy of Art
Robert E. Horvat (1973) Professor, Earth Sciences and Science Education, and Department Chairperson, Ph.D., University of Wisconsin-Madison
Marilyn B. Hoskin (1989) Professor, Political Science, and Dean, Natural and Social Sciences, Ph.D., University of California
Frederick C. Howe (1972) Associate Professor, Educational Foundations, Ph.D., Michigan State University
Constance Hsu (1966) Associate Librarian, M.S., Kansas State Teachers College
Barbara A. Huddleston-Mattai (1990) Visiting Associate Professor, Social Work, D.S.W., University of California
Irene M. Hulicka (1967) Professor, Psychology, and Distinguished Professor, Ph.D., University of Nebraska
John H. Hughley (1989) Assistant Professor, Art Education, Ed.D., University of Illinois
Janet W. Hunt (1970) Senior Financial Aid Adviser, M.S., State University College at Buffalo

Daniel R. Hunter Jr. (1964) Director, Financial Aid, and State University Chancellor's Award for Excellence in Professional Service, 1970
Ed.M., State University of New York at Buffalo
Glenn F. Hurst (1969) Associate Professor, Elementary Education and Reading, Ed.D., State University of New York at Buffalo
Carmen Iannaccone (1966) Associate Professor, Exceptional Education, Ed.D., State University of New York at Buffalo
Ivor Ilmet (1967) Associate Professor, Chemistry, Ph.D., New York University
Kimberley N. Irvine (1988) Assistant Professor, Geography and Planning, Ph.D., McMaster University
Scott G. Isaksen (1981) Associate Professor, Creative Studies, and Director, Center for Studies in Creativity, Ed.D., State University of New York at Buffalo
Hadar Isseroff (1968) Professor, Biology, Ph.D., Purdue University
Marsha D. Jackson (1984) Coordinator, Student Activities and Greek Affairs, and Director, Student Judicial System, M.S.Ed., State University College at Buffalo
Marc P. Jacobs (1987) Assistant Professor, College Learning Laboratory, Ed.D., Teachers College, Columbia University
R. Steven Janke (1973) Professor, Fine Arts, Ph.D., University of Michigan
Dale W. Janowsky (1981) Assistant Professor, Business, M.S., Canisius College
John Jauquet (1968) Professor, Design, M.F.A., University of Wisconsin
Florence Johnson (1968) Associate Professor, Education, M.S.Ed., State University College at Buffalo
Karen Johnson (1985) Assistant Director, Academic Skills Center, M.L.S., State University of New York at Buffalo
Luella H. Johnson (1990) Assistant Professor, Mathematics, Ph.D., State University of New York at Buffalo
Michael Johnson (1976) Assistant Professor, Foreign Language, and Department Chairperson, Ph.D., State University of New York at Buffalo
R. Timothy Johnson (1990) Lecturer, Communication, M.A., State University of New York at Buffalo
Kay Johnson-Gentile (1990) Assistant Professor, Elementary Education and Reading, Ph.D., State University of New York at Buffalo
Judith M. Jones (1963) Professor, Education, and Curriculum Coordinator, College Learning Laboratory, Ed.D., State University of New York at Buffalo
Layman Jones Jr. (1966) Professor, Art Education, D.Ed., Pennsylvania State University
Sister Martin J. Jones (1969) Librarian, M.S.L.S., Catholic University of America
Andrew J. Joniak (1974) Associate Professor, Business, Ph.D., University of New Mexico
Georgiana Jungels (1974) Associate Professor, Art Education, ATR, M.A., State University of New York at Buffalo
Narendra N. Kalia (1979) Associate Professor, Sociology, Ph.D., Syracuse University
Louis J. Kaminski (1973) Manager, College Store, B.P.S., Empire State College
Herta Kane (1979) Assistant Professor, Design, M.F.A., State University of New York at Buffalo
David L. Karnath (1979) Associate Professor, English, Ph.D., University of Minnesota
Jurgis Karuza (1978) Professor, Psychology, Ph.D., Wayne State University

Shirley Kassman (1958) Professor, Design, M.S.Ed., State University College at Buffalo
John J. Kawinski (1983) College Physician
P.T., Weigel Health Center, M.D., Medical Academy of Gdansk, Poland
James M. Keech Jr. (1965) Associate Professor, English, Ph.D., Louisiana State University
Susan Keller-Mathers (1990) Instructor, College Learning Laboratory, M.S., State University College at Buffalo
Joseph M. Kelly (1990) Assistant Professor, Business, J.D., Northern Illinois University
Ellen M. Kennedy (1981) Associate Professor, Social Work, and Department Chairperson, M.S.W., State University of New York at Buffalo
Steven E. Kennedy (1978) Instructional Support Technician, Technology
Gary H. Kent (1984) Acting Director, Physical Plant, M.B.A., Syracuse University
Richard J. Kieffer (1974) Professor, Economics and Finance, Ph.D., University of Missouri
Marilyn Kihl (1968) Associate Librarian, M.L.S., State University College at Geneseo
Yung-Mo Kim (1968) Professor, Economics and Finance, Ph.D., State University of New York at Buffalo
Thomas G. Kinsey (1979) Associate Professor, Earth Sciences and Science Education, Ph.D., University of Maryland
Carol B. Kirby (1985) Associate Professor, Foreign Language, Ph.D., University of Kentucky
E. Carol Brown Knuth (1973) Professor, English, Ph.D., State University of New York at Buffalo
James G. Koelme (1986) Editor/Writer, Public Affairs, B.A., St. Bonaventure University
Manny T. Koginos (1967) Associate Professor, History, and Men's Varsity Tennis Coach, Ph.D., American University
Deborah Kohl (1984) Associate Professor, Psychology, Ph.D., Johns Hopkins University
Robert H. Kohler (1966) Professor, Physics, Ph.D., Massachusetts Institute of Technology
Irene Kolber (1975) Nurse, Weigel Health Center, R.N., Meyer Memorial Hospital
Douglas C. Koritz (1986) Assistant Professor, Economics and Finance, Ph.D., University of Pittsburgh
Francis R. Kowsky (1970) Professor, Fine Arts, Ph.D., Johns Hopkins University
Helene H. Kramer (1989) Staff Assistant to the Vice President for Student Affairs, B.S., Kent State University
James M. Kreider (1969) Associate Professor, Exceptional Education, Ph.D., University of Michigan
Leslie R. Krims (1969) Professor, Fine Arts, M.F.A., Pratt Institute
Betty J. Krist (1987) Associate Professor, Mathematics, Ed.D., State University of New York at Buffalo
David J. Kukulka (1982) Associate Professor, Technology, Ph.D., State University of New York at Buffalo
Wenzel Kupka (1970) Instructional Support Technician, Design
Theodore W. Kury (1963) Professor, Geography, Ph.D., Louisiana State University
Dan Kushel (1983) Associate Professor, Art Conservation, M.A., Cooperstown
Donald Kutschall (1978) Associate Professor, Dance, B.A., Ohio University
Patti J. Lachance (1990) Assistant Professor, Design, M.F.A., Rochester Institute of Technology

Richard R. LaCroix (1973) Professor, Philosophy and Religious Studies, Ph.D., University of Minnesota
Marvin J. LaHood (1964) Professor, English, and State University Chancellor's Award for Excellence in Teaching, 1985, Ph.D., University of Notre Dame
Maureen E. Lambrix (1977) Staff Assistant, Instructional Resources, A.A.S., State University of New York at Alfred
David E. Lampe (1969) Professor, English, Ph.D., University of Nebraska
David W. Landrey (1965) Associate Professor, English, M.A., State University of New York at Buffalo
Henry J. Lang (1968) Professor, History, Ph.D., Indiana University
Richard J. Lee (1973) Associate Professor, Exceptional Education, Ed.D., State University of New York at Buffalo
Charles R. Lefcourt (1964) Associate Professor, English, Doct., University of Paris
Donald D. Leopard (1963) Professor, History, and State University Chancellor's Award for Excellence in Teaching, 1989, Ph.D., Ohio State University
Francis S. Lestingi (1973) Professor, Physics and Earth Sciences and Science Education, and State University Chancellor's Award for Excellence in Teaching, 1980, Ph.D., University of Wisconsin-Madison
Anthony J. Lewis (1970) Professor, English, Ph.D., University of Wisconsin
Myron E. Lewis Jr. (1962) Professor and Program Coordinator, Industrial Technology, Ed.D., State University of New York at Buffalo
Peter F. Liberti (1968) Director, Dining and Vending Services, F.S.A., B.S., Canisius College
William Licata (1959) Professor, Elementary Education and Reading, Ed.D., State University of New York at Buffalo
William Lin (1984) Lecturer, Computer Information Systems, M.B.A., Pace University
Roselyn Lindner (1974) Professor, Sociology, and Department Chairperson, Ph.D., University of Minnesota
Mark G. Littlefield (1981) Professor, Foreign Language, Ph.D., University of California
Michael J. Littman (1986) Assistant Professor, Business, Ph.D., Ohio State University
Clifford V. Lochhaas (1967) Professor, Learning and Behavioral Disorders, Ed.D., State University of New York at Buffalo
Donald R. Logan (1989) Professor, Exceptional Education, and Department Chairperson, D.Ed., University of Oregon
Sebastian LoGiudice (1985) Instructional Support Technician, Psychology, B.A., State University College at Buffalo
Rex T. Lohmann (1975) Associate Professor, Educational Foundations, Ph.D., University of Pittsburgh
Marjorie Lord (1969) Associate Librarian, M.L.S., State University of New York at Buffalo
Shirley A. Lord (1978) Associate Professor, Social Work, M.S.W., State University of New York at Buffalo
Jack C. Love (1962) Associate Professor, Industrial Arts Education, M.A., Kent State University
Bradley A. Lown (1970) Professor, Psychology, and State University Chancellor's Award for Excellence in Teaching, 1974, Ph.D., State University of New York at Buffalo
Nancy J. Lund (1973) Professor, Speech Language Pathology and Audiology, Ph.D., University of Maryland

Joseph A. Luzio (1979) Assistant to Director, Weigel Health Center, B.A., State University College at Buffalo
James F. Mabry III (1977) Professor, Music, Ph.D., Washington University
Barbara J. Macaluso (1984) Lead Programmer/Analyst, M.S., State University College at Buffalo
Russell Macaluso (1966) Associate Professor, Elementary Education and Reading, and Director, Academic Skills Center, Ed.D., State University of New York at Buffalo
Robert A. Macey (1976) Senior Financial Aid Adviser, M.A., State University of New York at Buffalo
John E. Mack Jr. (1973) Associate Professor, Earth Sciences and Science Education, and State University Chancellor's Award for Excellence in Teaching, 1979, Ph.D., The Catholic University of America
Ronnie E. Mahler (1977) Associate Professor, Social Work, M.S.W., State University of New York at Buffalo
Sam Maislin (1975) Associate Professor, Criminal Justice, J.D., Salmon P. Chase College of Law
Kathleen Mallea (1976) Associate Professor, Education, Ed.D., State University of New York at Buffalo
Gail F. Maloney (1978) Associate Athletics Director, Women's Varsity Basketball Coach, M.S., State University College at Buffalo
Charles Mancuso (1976) Associate Professor, Music, M.A., State University of New York at Buffalo
Stephen S. Mangione (1970) Senior Staff Assistant, Instructional Resources, B.F.A., Rochester Institute of Technology
Horace Mann (1955) Professor, Exceptional Education, and Distinguished Service Professor, Ph.D., Pennsylvania State University
Paul D. Martin (1961) Professor, Fine Arts, M.F.A., Southern Illinois University
Jaime E. Martinez-Tolentino (1990) Assistant Professor, Foreign Language, Ph.D., University of Madrid
David A. Massaro (1984) Senior Programmer/Analyst, B.S., State University College at Buffalo
James V. Masters (1988) Assistant Professor, Education, M.S., State University College at Buffalo
Dennis McCarthy (1977) Associate Professor, Theater, M.F.A., Carnegie Mellon
Donna Eskew McCarthy (1976) Associate Professor, Theater, M.A., University of Washington
Susan A. McCartney (1984) Director, Small Business Development Center, M.B.A., State University of New York at Buffalo
Joan L. McCool (1981) Assistant Director, Counseling Center, Ph.D., State University of New York at Buffalo
Thomas R. McCray (1980) Assistant Professor, Broadcasting, M.A., State University of New York at Buffalo
Terence R. McDonald (1972) Associate Professor, Theater, M.F.A., Southern Methodist University
James R. McDonnell (1964) Professor, History, Ph.D., University of Wisconsin
Lynne M. McElhaney (1970) Associate Professor, Design, M.S., State University College at Buffalo
Emma McFayden (1981) Counselor, Educational Opportunity Program, M.S., State University College at Fredonia

Elaine McKee (1985) Associate Professor, Foreign Language, Ph.D., Ohio State University
Jennifer D. McMahon (1976) Coordinator, Remote Computing Operations, Computing Services
Stan Medinac (1973) Director, Budget and Information Services, M.B.A., State University of New York at Buffalo
Daniel T. Meloon Jr. (1966) Professor, Chemistry, Ph.D., State University of New York at Buffalo
Sharon Mendola (1983) Associate Professor, Design, M.F.A., Syracuse University
Charles N. Merkel (1986) Instructional Support Specialist, Biology, M.A., State University College at Buffalo
Rafika Merini (1990) Instructor, Foreign Language, M.A., University of Utah
Winifred G. Mernan (1963) Director, Weigel Health Center, M.D., State University of New York at Buffalo
Kenneth Mernitz (1985) Associate Professor, History and Social Studies Education, Ph.D., University of Missouri
John M. Messinger (1986) Assistant Professor, Art Conservation, Ph.D., State University of New York at Buffalo
Barbara L. Metivier (1985) Senior Programmer/Analyst, B.A., Syracuse University
Barbara A. Meyer (1980) PDS Coordinator, B.A., State University College at Buffalo
Mary Ann Meyer (1979) Coordinator, Instruction and Research Support, B.S., State University of New York at Buffalo
Ronald Meyer (1968) Instructional Support Technician, Instructional Resources
Arlene M. Miles (1967) Associate Professor, Education, M.S.Ed., State University of New York at Buffalo
Christine Miller (1969) College Accountant, M.S., State University College at Buffalo
David N. Miller (1985) Coordinator, Environmental Health and Safety, A.A.S., Erie Community College
Judith A. Miller (1969) Associate Registrar, M.S., State University College at Buffalo
Rex Miller (1957) Professor, Industrial Technology, and State University Chancellor's Award for Excellence in Teaching, 1978, Ed.D., State University of New York at Buffalo
Benjamin H. Min (1964) Professor, History, Ph.D., University of Massachusetts
Donald D. Mitchell (1974) Associate Professor, Anthropology, Ph.D., Harvard University
Daniel F. Mocioilo (1987) Programmer/Analyst
Robert E. Moisand (1960) Professor, Biology, Ph.D., University of Kentucky
John Montague (1984) Professor, Design, Ph.D., University of Wisconsin
James J. Mooney (1963) Professor, Industrial Arts Education, Ed.D., University of Maryland
Joseph J. Moran (1973) Associate Professor, Educational Foundations, Ph.D., Emory University
Kathryn A. Moran (1981) Assistant Dean, Undergraduate Studies, M.S., State University of New York at Albany
Edward L. Morgan (1969) Professor, Criminal Justice, M.S., California State College at Los Angeles
John B. Morganti (1968) Professor, Psychology, and State University Chancellor's Award for Excellence in Teaching, 1975, Ph.D., State University of New York at Buffalo
James F. Morris (1985) Associate Professor, Design, M.F.A., University of Massachusetts

Thomas J. Morrissey (1967) Professor, Business, Ed.D., University of Missouri
C. Lavonne Moton (1988) Special Assistant to the Vice President for Academic Affairs, Ph.D., South Illinois University
Eleanor T. Munn (1986) Associate Librarian, M.S.L.S., Simmons College School of Library Science
Mary C. Murdock (1987) Assistant Professor, Creative Studies, Ed.D., University of Georgia
Robert M. Murphy (1985) Instructional Support Technician, Instructional Resources
Rosemary K. Murray (1980) Assistant Professor, Education, M.S., State University of New York at Buffalo
John Murtaugh (1973) Associate Professor, Earth Sciences and Science Education, Ph.D., Ohio State University
Myron Howard Nadel (1985) Professor, Performing Arts, and Department Chairperson, M.A., Columbia Teachers College
Carl H. Naeher (1980) Associate Professor, Computer Information Systems, M.S., State University of New York at Buffalo
Joseph V. Nardiello (1969) Associate Professor, Foreign Language, Ph.D., Johns Hopkins University
Jill Nash (1974) Professor, Anthropology, and Department Chairperson, Ph.D., Harvard University
Anthony T. Neal (1988) Assistant Professor, Political Science, Ph.D., Atlanta University
Glenn R. Nellis (1968) Director, Planned Giving and Major Gifts, Ph.D., State University of New York at Buffalo
Emile C. Netzhammer (1987) Assistant Professor, Communication, Ph.D., University of Utah
Paul R. Nevergold (1968) Instructional Support Specialist, Earth Sciences and Science Education, M.Ed., State University of New York at Buffalo
Edward J. Newberger (1970) Associate Professor, Mathematics, Ph.D., Indiana University
George Charles Newman (1982) Associate Librarian and Director, Butler Library, Ph.D., University of Michigan
Sheila J. Nickson (1966) Affirmative Action/Human Development Officer
Anthony J. Nowakowski (1986) Assistant Professor, Computer Information Systems, M.A., State University College at Buffalo
Donald E. O'Brien (1963) Associate Professor, Health, Physical Education and Recreation, M.S., Pennsylvania State University
Donald L. O'Brien (1969) Professor, Elementary Education and Reading, Ed.D., State University of New York at Buffalo
Michael J. O'Brien (1987) Assistant Professor, Education, M.S., Canisius College
Ki-Choul Ohm (1967) Professor, Mathematics, Ph.D., Syracuse University
Rita Karen O'Quin (1982) Associate Professor, Psychology, Ph.D., Michigan State University
James R. Örgen (1966) Professor, Earth Sciences and Science Education, and State University Chancellor's Award for Excellence in Teaching, 1977, Ed.D., State University of New York at Buffalo
Janet R. Overdorf (1990) Instructor, Nutrition and Food Science, M.S., State University College at Buffalo
Maria D. Pacheco (1985) Assistant Professor, Chemistry, Ph.D., University of Puerto Rico
Andrew Pacioni (1967) Associate Professor, Exceptional Education, M.A., Eastern Michigan University

James L. Palermo (1968) Professor, Educational Foundations, Ph.D., State University of New York at Buffalo
Howard H. Park (1969) Associate Professor, Political Science, Ph.D., University of Minnesota
Roswell Park IV (1981) Coordinator of Adult Services and Advisement, M.A., State University of New York at Buffalo
Michael E. Parks (1981) Associate Professor, Art Education, and Department Chairperson, Ed.D., Ball State University
Frank J. Pascarella (1970) Associate Professor, Health, Physical Education, and Recreation, and State University Chancellor's Award for Excellence in Teaching, 1989, Ed.D., State University of New York at Buffalo
Wendy Paterson (1987) Senior Staff Assistant, Academic Skills Center, M.S.Ed., State University College at Buffalo
Lena L. Patterson (1990) Assistant Professor, College Learning Laboratory, M.S., State University College at Buffalo
Peter S. Pawlik (1972) Professor and Program Coordinator, Engineering Technology, Ph.D., State University of New York at Buffalo
Constance L. Payne (1985) Assistant Professor, Fine Arts, M.F.A., University of Wisconsin
Hal D. Payne (1990) Acting Vice President for Student Affairs, J.D., Cleveland State University
Kenneth P. Payne (1990) Assistant Professor, Fine Arts, M.F.A., University of Wisconsin
Richard C. Pearce (1984) Assistant Professor, Business, Ed.D., State University of New York at Buffalo
Lois W. Pearson (1960) Professor, Elementary Education and Reading, Ed.D., University of Rochester
Thomas F. Pfeffer (1966) Space Management Officer, Ed.M., State University of New York at Buffalo
Javier Penalosa (1978) Associate Professor, Biology, Ph.D., Harvard University
Michael S. Pendleton (1979) Associate Professor, Political Science, D.A., Idaho State University
Bonita J. Percival (1980) Senior Staff Assistant, Instructional Resources
Gretchen S. Perez (1966) Associate Professor, Elementary Education and Reading, Ed.D., State University of New York at Buffalo
Gary W. Pettibone (1986) Assistant Professor, Biology, Ph.D., Bowling Green State University
Stephen Phelps (1978) Associate Professor, Elementary Education and Reading, Ph.D., Syracuse University
Gary Phillips (1974) Associate Vice President and Comptroller, C.P.A., Ed.M., Providence College
Joseph Piccillo (1967) Professor, Art Education, M.S.Ed., State University College at Buffalo
Michael Pirowskin (1964) Counselor, Educational Opportunity Program, M.S., State University of New York at Buffalo
Theresa F. Platek (1967) Associate Professor, English, and Department Chairperson, Ed.D., State University of New York at Buffalo
Allen H. Podet (1974) Professor, Philosophy and Religious Studies, D.H.L., Hebrew Union College, Ph.D., University of Washington
Lansing R. Pollock (1970) Professor, Philosophy, Ph.D., University of Chicago
David Pomerantz (1977) Associate Professor, Exceptional Education, Ph.D. University of Illinois

Phyllis B. Pomerantz (1977) Associate Professor, Social Work, M.S.W., University of Illinois at Urbana-Champaign
Dennis K. Ponton (1977) Associate Professor, Nutrition and Food Science, and Department Chairperson, Ph.D., West Virginia University
N. John Popovich (1974) Associate Professor, Vocational Technical Education, Ed.D., Wayne State University
Mark P. Poluszny (1985) Associate Professor, Exceptional Education, Ed.D., University of Kentucky
Shirley A. Posner (1966) Librarian, and State University Chancellor's Award for Excellence in Librarianship, 1989, M.L.S., State University College at Geneseo
Angeline M. Price (1983) Registered Nurse, Weigel Health Center, M.S., State University College at Buffalo
Frederick W. Price (1967) Professor, Biology, Ph.D., King's College, University of London, England
Gerard J. Puccio (1990) Assistant Professor, Creative Studies, M.S., State University College at Buffalo
Robert D. Pursley (1987) Professor, Criminal Justice, D.P.A., University of Georgia
Thomas J. Quatroche (1964) Professor, Educational Foundations, and Department Chairperson, D.Ed., Pennsylvania State University
Ronald L. Rabin (1976) Associate Professor, Speech Communication, Ph.D., Northwestern University
Ralph J. Raico (1967) Professor, History, Ph.D., University of Chicago
Janet E. Ramsey (1985) Associate Professor, Communication, Ph.D., State University of New York at Buffalo
Eric A. Randall (1973) Professor, Biology, Ph.D., Pennsylvania State University
Abdul H. Raof (1967) Professor, Political Science, and Department Chairperson, Ph.D., New York University
Alex J. Ratkowski (1976) Associate Professor, Economics and Finance, and Department Chairperson, Ph.D., University of Nebraska
Lisa A. Rauenzahn (1989) Career Counselor, Career Development Center, M.Ed., Youngstown State University
Martha J. Reddout (1970) Associate Professor, Nutrition and Food Science, Ed.D., Syracuse University
John E. Reedy (1965) Professor, English, D.Ed., Boston University
Howard M. Reid (1977) Associate Professor, Psychology, Ph.D., University of Maine at Orono
Thomas J. Reigstad (1981) Professor, English, Ph.D., State University of New York at Buffalo
Crystal Hearne Reinoso (1989) Assistant Professor, Music, D.M.A., University of Michigan
Elbridge A. Renning Jr. (1965) Associate Professor, Geography, and Department Chairperson, M.A., State University of New York at Buffalo
Deborah C. Renzi (1982) Director of Admissions, M.S.W., State University of New York at Stony Brook
Arthur P. Reynolds (1984) Technical Specialist, Computer Information Systems, B.S., State University College at Buffalo
Richard A. Reynolds (1970) Associate Professor, Design, M.A., San Francisco State College
Carol Richards (1974) Associate Librarian, M.L.S., State University of New York at Buffalo
Bernice Richardson (1990) Visiting Assistant Professor, Elementary Education and Reading, M.S., Indiana University

F. C. Richardson (1989) President and Professor of Biology, Ph.D., University of California at Santa Barbara
Daniel S. Ricigliano (1979) Assistant Professor, Business, M.B.A., State University of New York at Buffalo
Albert F. Riess (1979) Associate Librarian, M.L.S., State University of New York at Buffalo
Howard P. Riessen (1988) Assistant Professor, Biology, Ph.D., Yale University
Joan W. Roberts (1978) Associate Professor, English, Ph.D., University of Cincinnati
John E. Roberts (1968) Associate Professor, Vocational Technical Education, Ed.D., State University of New York at Buffalo
Scott W. Roberts (1986) Assistant Professor, Health, Physical Education and Recreation, Ed.D., Brigham Young University
Ronald E. Roblin (1969) Professor, Philosophy, Ph.D., University of North Carolina
Amy L. DiBartolo Rockwell (1987) Senior Assistant Librarian, M.L.S., State University of New York at Buffalo
Evelyn Santiago Rosario (1980) Counselor, Educational Opportunity Program, M.A., University of Puerto Rico, Piedras
David J. Ross (1977) TV Engineer, Instructional Resources
Joan D. Rosso (1976) Associate Professor, English, Ph.D., State University of New York at Buffalo
James D. Rotella (1968) Professor, Educational Foundations, Ed.D., State University of New York at Buffalo
Neil H. Rudin (1969) Associate Professor, Foreign Language, and Associate Vice President for Academic Affairs, and Dean for Undergraduate Studies, Ph.D., State University of New York at Buffalo
Nancy K. Russell (1983) Assistant Professor, Exceptional Education, Ph.D., State University of New York at Buffalo
Om P. Rustgi (1973) Professor, Physics, Ph.D., University of Southern California
Diane L. Ryndak (1987) Assistant Professor, Exceptional Education, Ph.D., University of Illinois
Benjamin D. Sackmary (1988) Associate Professor, Business, and Department Chairperson, Ph.D., University of Massachusetts
Richard L. Saddleson (1981) Materials Control Officer
Francis Salvamoser (1967) Associate Professor, Education, M.Ed., Pennsylvania State University
Bonnie M. Sampsell (1985) Associate Professor, Biology, and Department Chairperson, Ph.D., University of Iowa
Kerran L. Sanger (1988) Assistant Professor, Communication, M.A., Pennsylvania State University
Phillip Santa Maria (1979) Associate Vice President for Student Affairs and Dean of Students, Ph.D., Kent State University
Albert B. Santini (1964) Coordinator, Administrative Information Systems, B.S., Indiana Institute of Technology
Stephen F. Saracino (1981) Associate Professor, Design, M.F.A., Kent State University
Anthony C. Sartori (1973) Athletics Trainer, M.S., State University College at Buffalo
Lynne M. Scalia (1983) Assistant Professor, Business, M.B.A., Niagara University
Marilyn J. Schaefer (1988) Instructor, College Learning Laboratory, M.S.Ed., State University College at Buffalo

Arthur C. Schaeffer (1967) Television Producer-Director, M.A., California State University, San Diego
William L. Scheider (1976) Assistant Professor, Nutrition and Food Science, M.S., Cornell University
Rebecca J. Schenk (1976) Assistant for University Financial Analysis, M.B.A., State University of New York at Buffalo
Ned V. Schimizzi (1968) Associate Professor, Elementary Education and Reading, Ed.D., Indiana University
Ted P. Schmidt (1990) Instructor, Economics and Finance, M.A., University of California
Robert C.G. Schmoeyer (1967) Associate Professor, Mathematics, M.A., Villanova University
Eileen Schoaff (1987) Assistant Professor, Mathematics, Ph.D., State University of New York at Buffalo
Estella Schoenberg (1967) Professor, English, Ph.D., University of Tulsa
Edward M. Schulman (1977) Professor, Chemistry, and Department Chairperson, Ph.D., State University of New York at Stony Brook
William C. Schultz (1975) Professor, Computer Information Systems, and Department Chairperson, Ph.D., University of Wisconsin
Rand L. Schuster (1983) Associate Professor, Design, M.F.A., Rochester Institute of Technology
Stephen E. Schwartz (1974) Associate Professor, Health, Physical Education and Recreation, Ph.D., Ohio State University
Charles B. Scofield (1963) Associate Professor, Industrial Technology, M.Ed., Ball State Teachers College
Lawrence Scott (1977) Associate Professor, Computer Information Systems, M.S., University of Miami
Stephen A. Scott-Martin (1985) Director, Performing Arts Center, B.S., University of Tennessee
Richard P. Seibert (1964) Associate Professor, Sociology, Ph.D., State University of New York at Buffalo
Carl K. Seyfert (1967) Professor, Earth Sciences and Science Education, Ph.D., Stanford University
Steven E. Shaffer (1984) Assistant Coordinator, Facilities Planning, M.A., State University of New York at Buffalo
Frank E. Sharkey (1966) Professor, Industrial Arts and Vocational Education, M.A., Ball State Teachers College
James D. Shaw (1967) Associate Professor, Mathematics, M.S., Fairleigh Dickinson University
James M. Shea (1967) Associate Professor, Safety Studies, M.S.Ed., State University College at Buffalo
Brenda K. Shelton (1972) Associate Professor, History, Ph.D., State University of New York at Buffalo
Cynthia Gilson Siegel (1979) Assistant Director, Residence Life-Housing, M.S.Ed., State University College at Buffalo
Lester S. Sielski (1973) College Physician P.T., M.D., State University of New York at Buffalo
Harish C. Sikka (1982) Research Professor, Ph.D., Auburn University
Radha Simhadri (1988) Assistant Professor, Speech Language Pathology and Audiology, Ph.D., University of Texas
Jill K. Singer (1986) Assistant Professor, Earth Sciences and Science Education, Ph.D., Rice University

Surjit Singh (1967) Professor, Chemistry, Ph.D., St. Louis University
Barbara Sirvis (1986) Dean, Faculty of Applied Science and Education, and Professor, Exceptional Education, Ed.D., Teachers College, Columbia University
Julius P. Slavenas (1962) Professor, History, Ph.D., University of Chicago
Sarah Slavin (1981) Associate Professor, Political Science, Ph.D., George Washington University
Wanda M. Slawinska (1973) Senior Assistant Librarian, M.S.L.S., Syracuse University
John J. Slivka (1969) Professor, Mathematics, Ph.D., State University of New York at Buffalo
Phyllis A. Sloss (1970) Associate Professor, English, Ph.D., State University of New York at Buffalo
Charles G. Smith Jr. (1989) Assistant Professor, Business, M.S., University of Cincinnati
Edward O. Smith Jr. (1963) Professor, History, Ph.D., Lehigh University
Leon Smith (1969) Director, Academic Advisement, Ph.D., State University of New York at Buffalo
Patricia E. Smith (1990) Associate Director, Public Affairs, B.S., Medaille College
Paul J. Smith (1988) Instructional Support Technician, Instructional Resources, A.A.S., Erie Community College
Ronald D. Smith (1990) Assistant Professor, Communication, M.S., Syracuse University
Lee R. Snyder (1975) Associate Professor, Philosophy, Ph.D., State University of New York at Buffalo
Randal J. Snyder (1990) Assistant Professor, Biology, Ph.D., University of California
Ann Marie Sokol (1978) Instructional Support Associate, Chemistry, B.A., State University College at Buffalo
Adrian Solomon (1968) Professor, Social Work, Ph.D., Cornell University
John H. Song (1988) Assistant Professor, Criminal Justice, Ph.D., University of California at Irvine
Peter J. Sowiski (1974) Professor, Fine Arts, M.F.A., Ohio State University
Camille Spyra (1987) Athletics Business Manager, B.S., State University College at Buffalo
Eugene C. Stafford (1964) Professor, Industrial Arts Education, D.Ed., Pennsylvania State University
Edward A. Standora (1985) Assistant Professor, Biology, Ph.D., University of Georgia
Gregory P. Stein (1970) Associate Professor, Geography, Ph.D., University of Minnesota
Robert C. Stein (1965) Professor, Biology, Ph.D., Cornell University
Steven A. Steiner (1990) Assistant Professor, Chemistry, Ph.D., University of California
Richard A. Stempniak (1974) Lecturer, Technology, M.S., State University College at Buffalo
Robert J. Stephen (1970) Director of Lifelong Learning, M.Ed., Pennsylvania State University
Samuel T. Stern (1962) Professor, Mathematics, Ph.D., State University of New York at Buffalo
Hilary I. Sternberg (1990) Assistant Librarian, M.L.S., State University of New York at Buffalo
Michael Stevens (1989) Director, Educational Opportunity Program, M.A.T., Colgate University
James L. Stewart (1963) Associate Professor, Industrial Technology, M.S.Ed., Ball State Teachers College
Ronnie Stewart (1990) Assistant Professor, Sociology, Ph.D., Howard University

Susan Stievater (1966) Associate Librarian, M.L.S., State University College at Geneseo
Alice Sullivan (1987) Nurse and Assistant to Director, Weigel Health Center, M.S., State University College at Buffalo
Mary T. Sullivan (1963) Nurse and Assistant to Director, Weigel Health Center, M.S., Canisius College
Henry J. Sustakoski (1964) Professor, English, B.A., State University of New York at Buffalo
I. Joyce Swartney (1968) Professor, Earth Sciences and Science Education, and Associate Dean, Faculty of Natural and Social Sciences, Ph.D., University of Wisconsin
Joel P. Swisher (1973) Coordinator, Systems and Data Communications, B.A., State University College at Buffalo
David P. Sylves (1974) Associate Professor, Education, Ed.D., State University of New York at Buffalo
James L. Sylvia (1977) Associate Professor, Fine Arts, M.F.A., Visual Studies Workshop/State University of New York at Buffalo
F. Christopher Tahk (1983) Professor, Art Conservation, and Department Director, Ph.D., University of Rochester
Paul Tarantino (1964) Associate Professor, Design, M.F.A., Cranbrook Academy of Art
Jean Tassy (1983) Counselor, Educational Opportunity Program, B.S., Niagara University
Romney G. Taylor (1983) Senior Programmer/Analyst, B.S., State University College at Buffalo
Carlos E. Tejada (1987) Career Counselor, Career Development Center, M.A., Ohio State University
Josephine Terranova (1967) Nurse, Weigel Health Center, R.N., Meyer Memorial Hospital
Paul L. Thoms (1965) Assistant Professor, Exceptional Education, M.S.Ed., State University College at Buffalo
Jonathan Thornton (1983) Associate Professor, Art Conservation, M.A., Cooperstown
Hollis W. Tibbetts Jr. (1965) Associate Professor, Mathematics, M.S., Syracuse University
Lori L. Till (1985) Assistant Professor, Nutrition and Food Science, M.S., State University College at Buffalo
George V. Tomashevich (1968) Professor, Anthropology, Ph.D., University of Chicago
Richard Towne (1966) Professor, Exceptional Education, and State University Chancellor's Award for Excellence in Teaching, 1974, Ph.D., Michigan State University
Donald J. Treffinger (1979) Professor, Creative Studies, and Exceptional Education, Ph.D., Cornell University
Patrick A. Trinkley (1988) Instructional Support Technician, Instructional Resources
Raymond Tymas-Jones (1983) Associate Professor, Performing Arts, Ph.D., Washington University
Marianne Vallet-Sandre (1973) Associate Professor, Design, M.S.Ed., State University College at Buffalo
Russell C. Vannoy (1961) Associate Professor, Philosophy, Ph.D., University of Rochester
Barbara J. Vaughan (1982) Associate Librarian, M.L.S., State University of New York at Buffalo
Gary E. Vickers (1974) Executive Director, Faculty-Student Association, M.B.A., University of Rochester
Conrad C. Vogler (1964) Professor, Sociology, Ph.D., State University of New York at Buffalo
Samuel J. Wakshull (1963) Associate Professor, Exceptional Education, M.A., New York University

Norman G. Walker (1963) Associate Professor, Elementary Education and Reading, Ed.D., Ball State University
Jeffrey J. Wallace (1981) Assistant Vice President for Academic Affairs, Ph.D., State University of New York at Buffalo
Bonnie Walsh (1990) Assistant Professor, College Learning Laboratory, M.S., State University College at Cortland
Kathryn A. Ward (1979) Director, Student Life, M.S.Ed., State University College at Buffalo
Louis A. Ward (1979) Assistant Director, Public Safety
Raymond W. Waxmonsky (1968) Professor, Geography, Ph.D., University of Illinois
Phillip A. Weaver (1969) Associate Professor, Exceptional Education, Ph.D., University of Michigan
Jeanne M. Weeks (1986) Instructional Support Assistant, B.S., State University College at Buffalo
David P. Wegenast (1973) Professor, Social Work, D.S.W., City University of New York
Sarah D. Weidler (1987) Assistant Professor, Elementary Education and Reading, Ph.D., Pennsylvania State University
Thomas Weinberg (1969) Professor, Sociology, and State University Chancellor's Award for Excellence in Teaching, 1973, Ph.D., University of Connecticut
Barbara Weitzner-Lin (1985) Assistant Professor, Exceptional Education, Ph.D., State University of New York at Buffalo
Gail V. Wells (1985) Coordinator, Minority Student Services, B.A., State University of New York at Buffalo
James W. Wells (1968) Professor, Physics, and Department Chairperson, Ph.D., State University of New York at Buffalo
Walter Wells (1969) Associate Professor, Design, B.S., State University College at Buffalo
George J. Wenner (1990) Assistant Professor, Elementary Education and Reading, Ph.D., State University of New York at Buffalo
Franklin A. Wenske (1986) Associate Facilities Program Coordinator, B.S., State University of New York at Buffalo
Craig Werner (1984) Assistant Professor, English, Ph.D., Harvard University
Charles J. Wertz (1982) Associate Professor, Computer Information Systems, M.S., State University of New York at Buffalo
Diane Westbrook (1989) Assistant Director, Career Development Center, M.Ed., State University of New York at Buffalo
John H. Whelan (1970) Assistant Director, Business Affairs, M.B.A., State University of New York at Buffalo
W. Richard Whitaker (1984) Professor, Communication, and Department Chairperson, Ph.D., Ohio University
Wendel B. Wickland (1964) Assistant Professor, Biology, and Director, Special Programs, M.S., Eastern Michigan University
Richard A. Wiesen (1964) Professor, Mathematics, Provost, and Vice President for Academic Affairs, Ed.D., State University of New York at Buffalo
Robert E. Wild (1965) Senior Staff Assistant, Instructional Resources, B.F.A., Rochester Institute of Technology
Penny Williams-Cardinale (1987) Lecturer, Computer Information Systems, B.A., California State University
Idajean Windell (1973) Associate Professor, Exceptional Education, Ed.D., Indiana University

Theresa A. Winkelman (1977) School Nurse, College Learning Lab, M.S., State University of New York at Buffalo
Roland Wise (1955) Professor, Fine Arts, M.A., New York University
Robert L. Wood (1987) Assistant Professor, Design, M.F.A., Indiana State University
Ottillie Woodruff (1983) Counselor, Educational Opportunity Program, B.S.Ed., State University College at Cortland
Gwendolyn Wooten (1975) Senior Admissions Adviser, B.A., Utica College
Michael R. Wright (1970) Associate Professor, Music, Ph.D., University of California at Los Angeles
M. Virginia Wyly (1972) Professor, Psychology, and State University Chancellor's Award for Excellence in Teaching, 1976, Ph.D., University of Connecticut

James J. Yager (1974) Coordinator, Facilities Planning, M.B.A., State University of New York at Buffalo
Jenny Y. P. Yau (1989) Assistant Professor, Educational Foundations, M.S.Ed., University of Rochester
Barry R. Yavener (1985) Assistant Professor, Design, M.F.A., Rochester Institute of Technology
Tejaswini Yayathi (1976) Associate Professor, Nutrition and Food Science, Ph.D., Pennsylvania State University
Diane K. Youn (1990) Assistant Professor; Educational Foundations, Ph.D., The Catholic University of America
Darrell Young (1960) Professor, Earth Sciences and Science Education, Ed.D., State University of New York at Buffalo
Paul Zadner (1972) Associate Librarian, M.L.S., State University College at Geneseo

Chester J. Zelasko (1990) Assistant Professor, Health, Physical Education and Recreation, Ph.D., Michigan State University
Sidney Zelson (1972) Professor, Foreign Language, Ph.D., Ohio State University
Susan O. Zirin (1981) Director, New Student Programs and Orientation, M.Ed., State University of New York at Buffalo
Tori-Lynn Zobel (1985) Assistant Professor, Education, M.A., State University of New York at Buffalo
Stephanie B. Zuckerman-Aviles (1982) Director, Career Development Center, M.Ed., State University of New York at Buffalo
Robert J. Zuercher (1980) Associate Professor, Industrial Technology, M.B.A., State University of New York at Buffalo
Marcy Ann Zulawski (1966) Coordinator, Production Services, Computing Services
Ginger Zych (1975) Staff Assistant, Physical Plant Administration, B.S., Rider College



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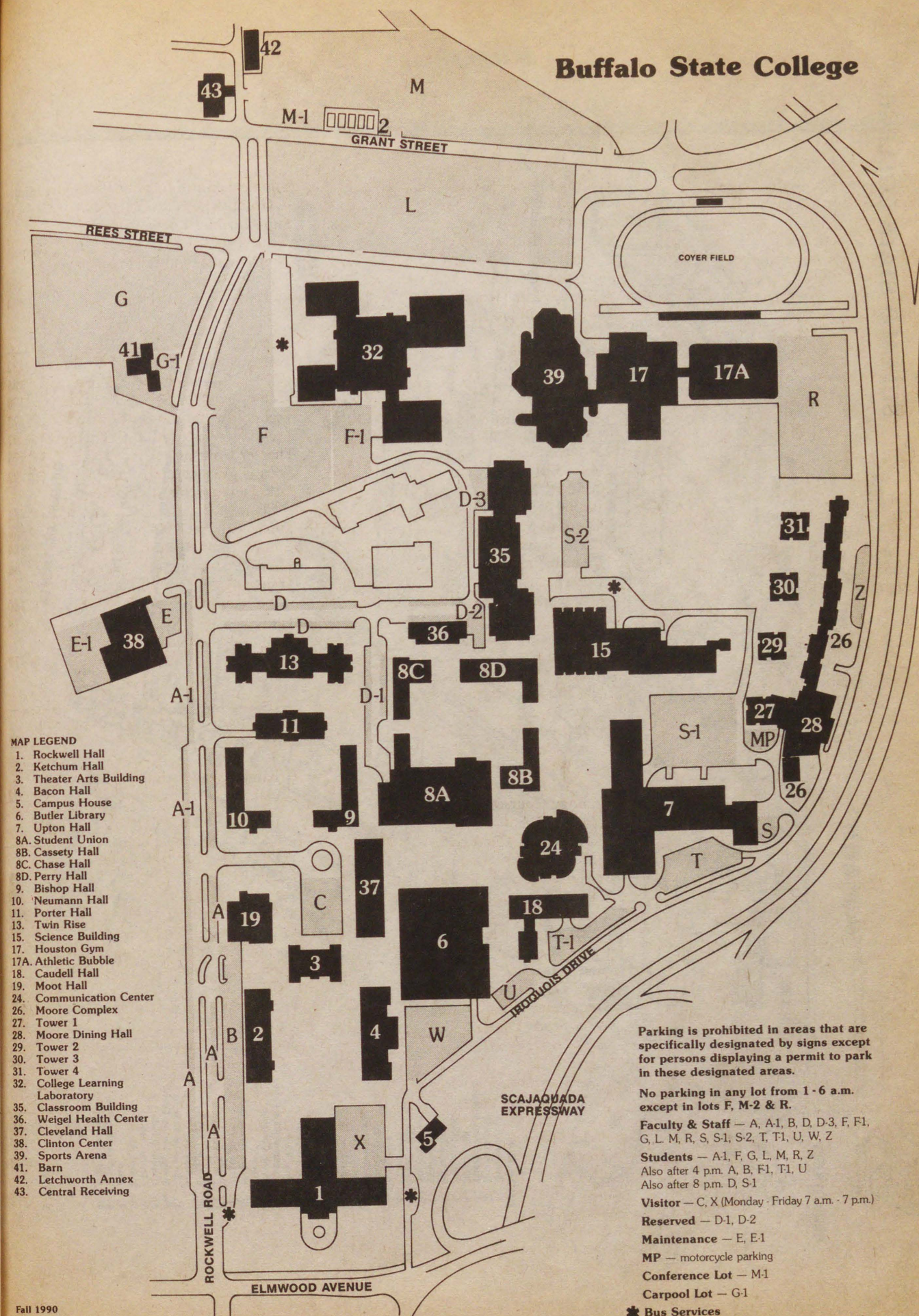
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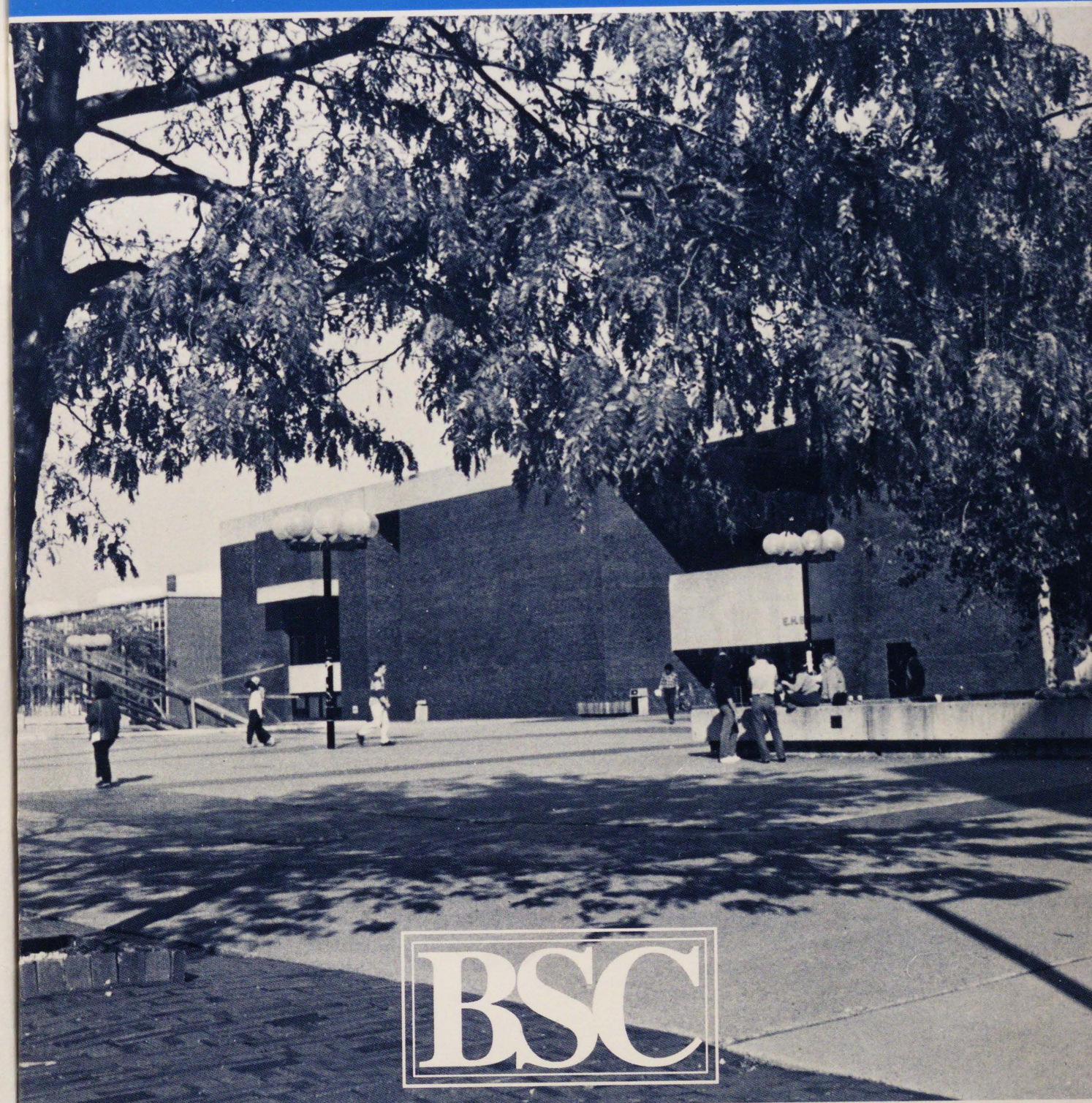
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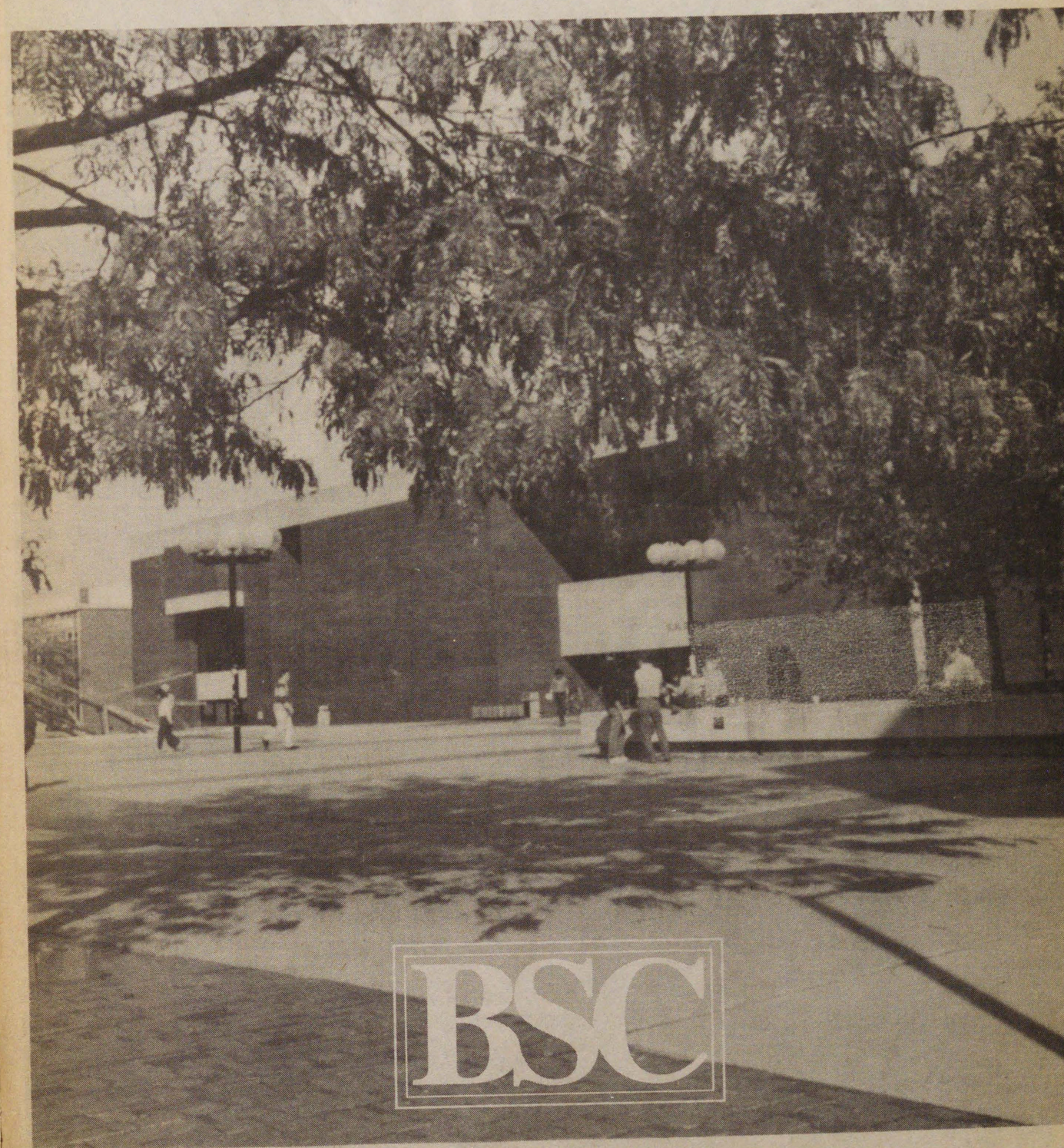


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For Your Convenience

College Telephone (716) 878-4000

Academic Affairs, Vice President	878-5901
Admissions Office	878-4017
Career Development Center	878-5811
Educational Opportunity Program	878-4225 or 878-4429
Evening Student Assistance Center	878-5906
Financial Aid	878-4901
Library	878-6302
Lifelong Learning Center	878-5906
Records and Registration	878-4905
Residence Life	878-6806
Student Accounts	878-4121
Student Affairs, Vice President	878-4704
Summer Sessions — Registration	878-4905
Admissions	878-4017

Mailing Address:

State University College at Buffalo
1300 Elmwood Avenue
Buffalo, New York 14222-1095

This catalog is current as of December 1992. The college reserves the right to cancel any course described in this catalog, and to change any rules governing curriculum, administration, tuition, fees, admissions, regulations affecting students, dates, and course content.

Each student is expected to have knowledge of the information contained in this catalog and in other college publications.

This catalog describes all undergraduate programs of the college. For graduate programs, consult the Graduate Catalog. For programs offered during the summer months, consult the summer session schedule.

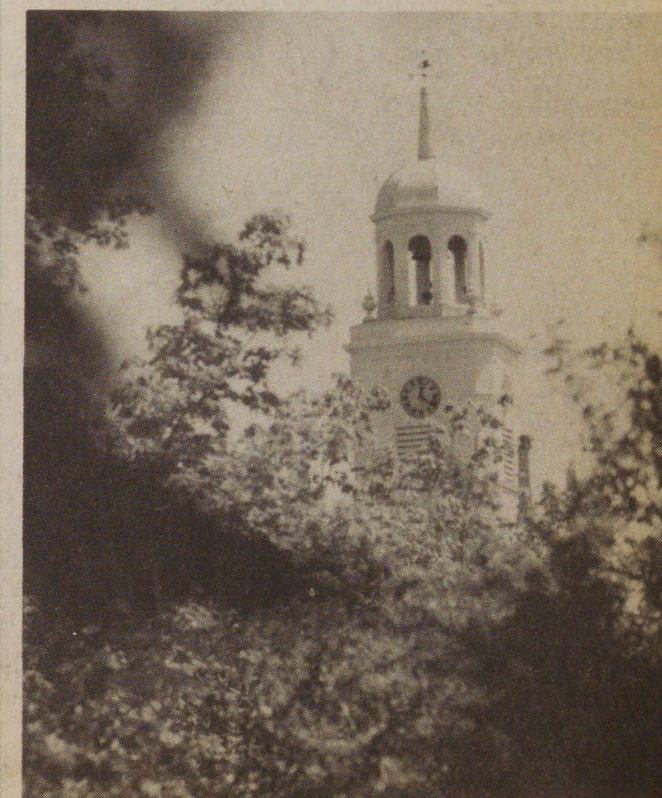
This publication was funded by an appropriation made available to State University College at Buffalo. Thirty-five thousand were printed March 1993. The offices of the vice presidents supplied copy for their respective areas of responsibility. The production and graphics were the responsibility of the Public Affairs Office, Cleveland Hall 515, (716) 878-4201.

State University College at Buffalo is an affirmative action/equal opportunity institution which subscribes to all federal, state, and SUNY legal requirements and does not discriminate against applicants, students, or employees on the basis of race, sex, ethnicity, national origin, sexual orientation, religion, age, disability, or marital or veteran status.

Any violation of this policy should be reported to the Equity and Campus Diversity Office, Cleveland Hall 415, (716) 878-6210.

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Academic Calendar 1993-94

First Semester Fall 1993

Orientation Tuesday, Wednesday, Thursday
August 24, 25, 26
Final Registration Wednesday, Thursday, Friday
August 25, 26, 27
Classes Begin Monday, August 30
Labor Day (no classes) Monday, September 6
Columbus Day (no classes) Monday, October 11
Veterans Day (no classes) Thursday, November 11
Thanksgiving Recess Wednesday-Saturday
November 24-27
Critique/Evaluation Period Monday-Friday
December 13-17
Last Day of Classes Friday, December 17

Second Semester Spring 1994

Orientation Tuesday, Wednesday, Thursday
January 11, 12, 13
Final Registration Wednesday, Thursday, Friday
January 12, 13, 14
Martin Luther King Day (no classes) .. Monday, January 17
Classes Begin Tuesday, January 18
Presidents Day Recess (no classes) Monday, Tuesday
February 21-22
Spring Recess Monday-Saturday
April 4-9
Critique/Evaluation Period Friday-Thursday
May 13-19
Last Day of Classes Thursday, May 19
Commencement (tentative) Friday, May 20

Student Deadlines

Course Withdrawals
Nov. 5, 1993 fall semester 1993
March 25, 1994 spring semester 1994

Cross Registration
Sept. 7-9, 1993 fall semester 1993
Jan. 19-21, 1994 spring semester 1994

Departmental Transfer
Oct. 4, 1993 fall semester 1993
Feb. 21, 1994 spring semester 1994

Leave of Absence
Nov. 5, 1993 fall semester 1993
March 25, 1994 spring semester 1994

Incomplete Grades
Nov. 5, 1993 from spring semester 1993
Nov. 5, 1993 from summer semester 1993
March 25, 1994 from fall semester 1993

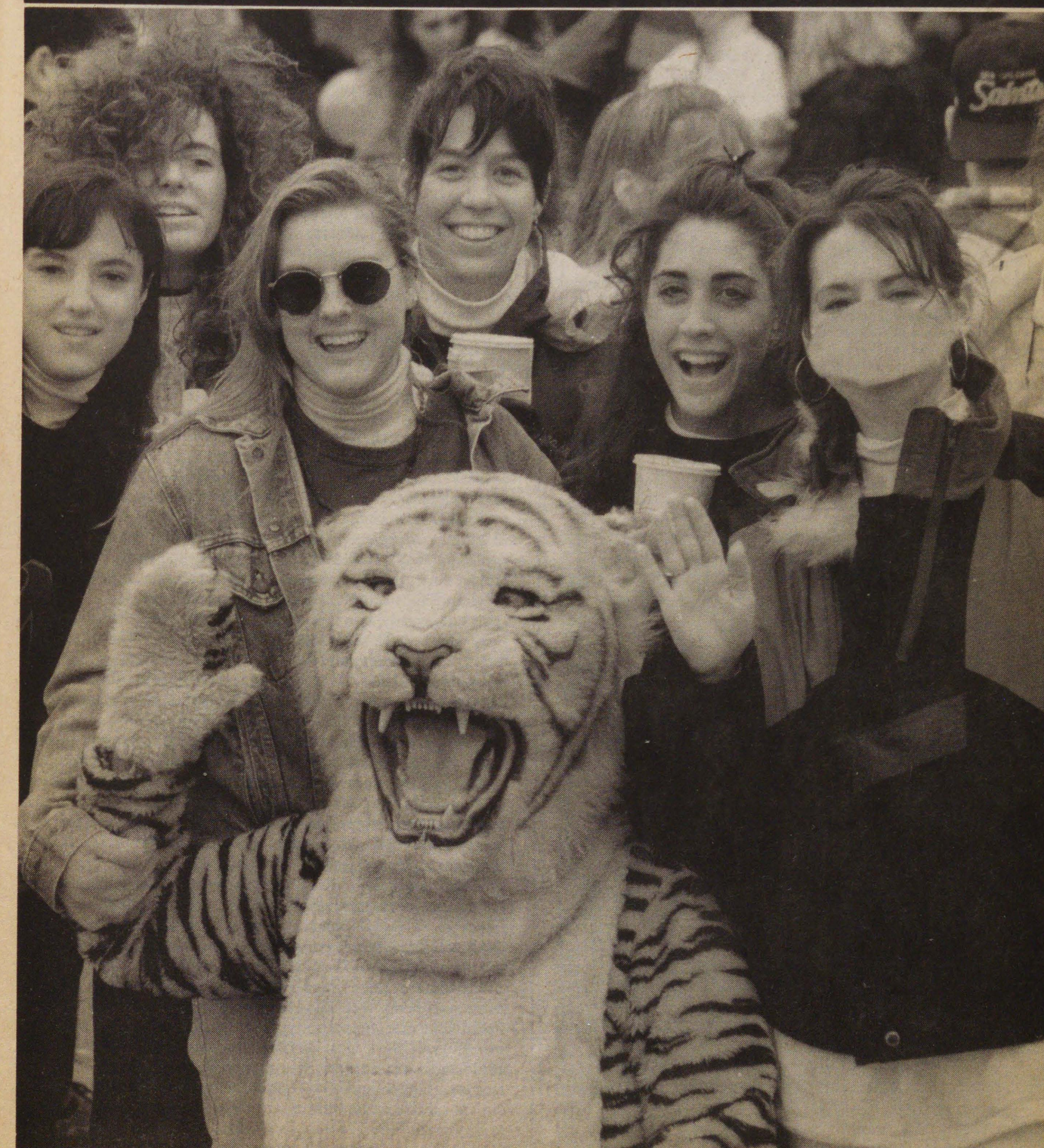
E-Grade Repeat Forms
Oct. 1, 1993 fall semester 1993
Feb. 18, 1994 spring semester 1994

Pass/Fail Application
Oct. 15, 1993 fall semester 1993
March 4, 1994 spring semester 1994

Undergraduate Degree Applications
Oct. 1, 1993 December 1993
Jan. 31, 1994 May 1994
June 3, 1994 August 1994

1

Buffalo State College



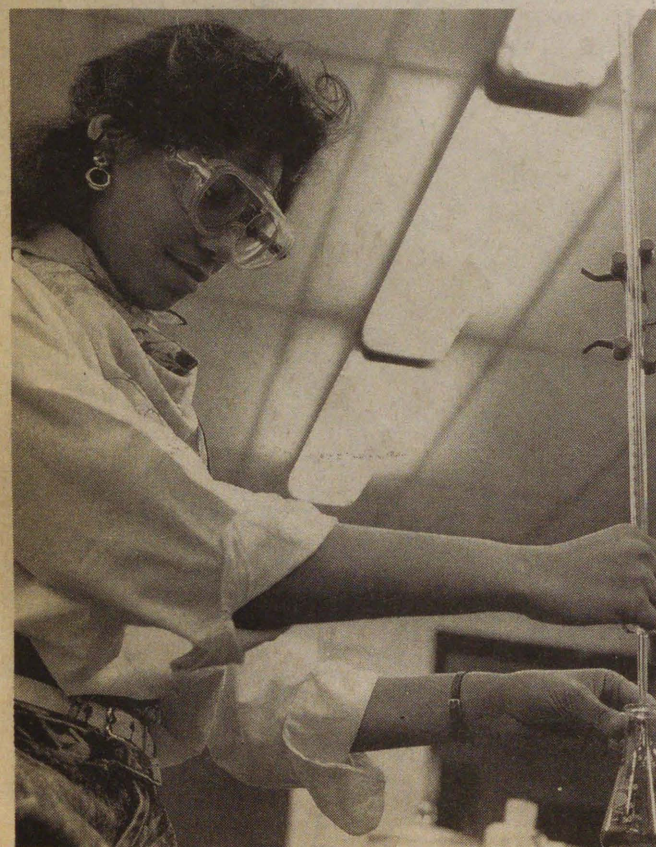
Buffalo State College

College Mission

State University College at Buffalo is a comprehensive institution of higher education offering arts and science and professional programs at the bachelor's and master's levels. The mission of the college is to:

- Offer high-quality educational programs to a widely diverse student population;
- Foster an environment conducive to teaching and learning, and that supports and nurtures in its students and faculty intellectual growth and an openness to a range of ideas and human possibilities;
- Instill in its students an overarching sense of integrity and social justice so they may contribute as responsible citizens in a diverse community and pluralistic society;
- Provide all graduates with the skills and tools necessary to attain personal and professional fulfillment while stimulating intellectual abilities that will enable them to make informed and ethical decisions;
- Prepare students to be successful in the world of work;
- Prepare students for the pursuit of lifelong learning;
- Present cultural, social, and intellectual activities for community enrichment;
- Serve the community through the application of knowledge to societal problems, thereby enhancing the quality of life.

State University College at Buffalo endeavors to accomplish this multifaceted mission in such ways as to position the institution among the nation's ten most outstanding public urban colleges and universities.



Discovering yourself, defining who you are, is an important part of higher education. Key to the process is choosing — and learning to choose well, aware that some decisions can affect you for a lifetime. In a productive learning environment, therefore, the opportunities for choice, for exercising your options, are many. We believe that is one of the strengths of Buffalo State College today.

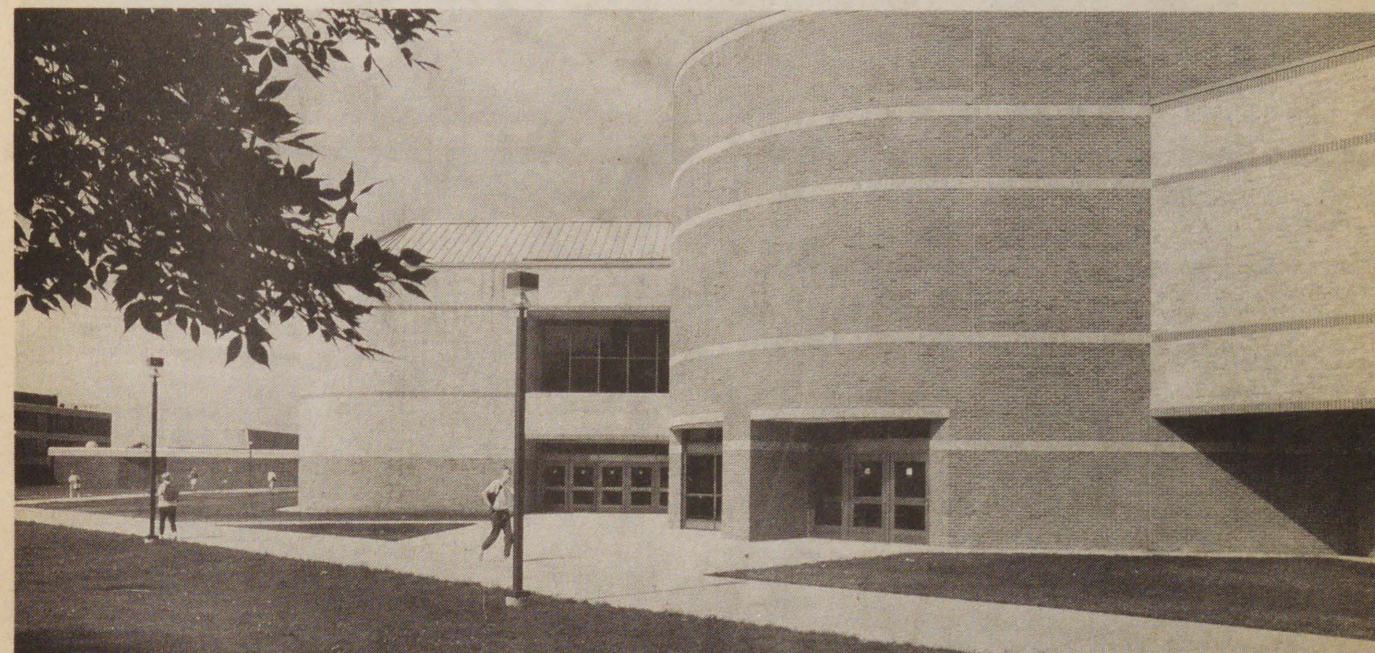
The largest of the 13 State University of New York four-year colleges of arts and science and the only one with an urban campus, Buffalo State is the choice each year of approximately 2,600 entering freshmen and transfer students. There are several reasons why so many undergraduates (about 10,000 of the total student population of just over 12,000) choose this college, and the number of choices available is among the biggest.

Heading the list of options is the all-important decision on an academic program. At Buffalo State, nearly 70 majors in the traditional liberal arts and contemporary career preparatory disciplines can be combined with almost 50 minors, allowing students to virtually design their own degree program, building on the framework of the 60-credit General Education Requirement. Within the requirement itself — a generous selection of courses from the arts, the humanities, the social sciences, math/science, and applied science and technology — there are more choices to be made, each opening a door to another aspect of human thought. Of special benefit to non-traditional students, particularly those who work full time while pursuing a college education, are 15 degree programs and six minors available entirely through evening and weekend study.

In addition to conventional course offerings, Buffalo State provides some flexible ways to broaden intellectual horizons, among them independent study, projects, internships, and topics courses, all of which are geared toward encouraging students to work on their own as they probe ideas and issues of particular interest to them. An All-College Honors Program is open to a select number of new students each year. For further enrichment, the college has a full array of off-campus opportunities, including study abroad, a national student exchange program, and semester internships in Washington and Albany. It is a matter of campus pride that Buffalo State's Siena Program, begun more than two decades ago, was SUNY's first overseas program.

Since making a good beginning is crucial to academic success, the college places special emphasis on the freshman year experience and has devised such programs for first-year students as the Freshman Assistance Project, which provides individualized faculty attention; the Freshman Seminar Program, an introduction to college classes; and Freshman Peer Mentoring, a match of new students with knowledgeable upperclassmen. Through its Educational Opportunity Program, SUNY's oldest and largest, Buffalo State also smooths the way for first-generation students from traditionally underrepresented groups who may lack adequate financial resources or educational preparation for college course work but not the desire to undertake it.

Physically, the 115-acre campus of 36 buildings is equipped for academic achievement with such facilities as Butler Library



Sports Arena

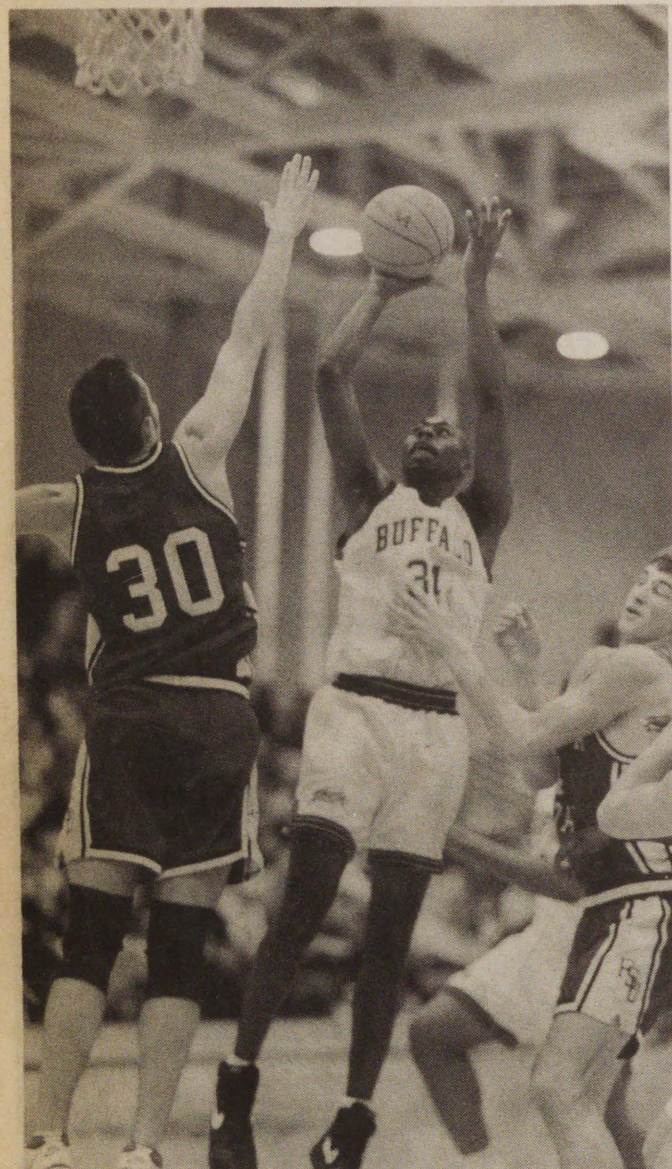
with half a million volumes and 2,000 periodicals, as well as a state-of-the-art online catalog; 250 microcomputers strategically located on campus for student use; Ferguson Planetarium, which puts on a changing calendar of shows in its sky theater year-round; a fully equipped television studio for broadcast students and a 100-seat black box theater in the renovated Theater Arts Building, as well as art studios and science laboratories across campus. One of the newest science facilities is the college's expanded Field Station on Lake Erie, which contains an innovative "wet lab" used by biology, chemistry, earth sciences, and science education classes and by the nationally recognized Great Lakes Center for Environmental Research and Education. The auditorium in stately Rockwell Hall, the oldest building on campus, has become a regional performing arts mecca, while the Burchfield Art Center, also located in Rockwell, houses the world's largest public collection of works by famed watercolorist Charles E. Burchfield.

But Buffalo State's most important resources for its students are undeniably its faculty and staff, some 1,000 strong. The faculty, recently described as "a major source of excellence" by a Middle States Association of Colleges and Schools reaccreditation team, are teachers first and foremost, whatever their achievements in their respective fields. All classes are taught by fully qualified faculty, who include in their number 18 winners of the SUNY Chancellor's Award for excellence in teaching.

In support of the academic endeavor, the college professional staff is readily available to provide a whole panoply of services, ranging from academic advisement in the Uncommitted Academic Advisement Center and tutoring in the Academic Skills Center to personal counseling in the nationally accredited College Counseling Center, career assistance in the Career Development Center, up-to-the-minute advice in the Financial Aid Office, help with daily living in the nine residence halls, medical and dental care in Weigel Health Center, and the 24-hour protection of Public Safety officers.



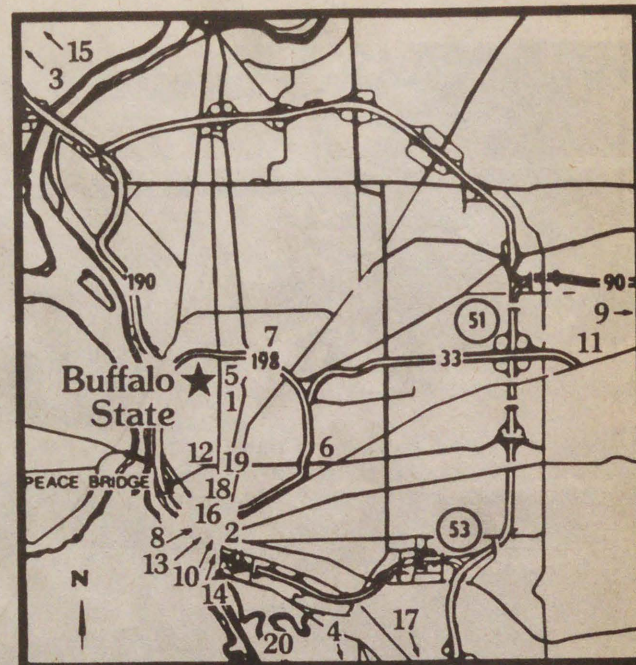
Rockwell Hall Auditorium



The Student Life Office oversees an important part of the college experience — the out-of-class activities and social events that can add so much to your undergraduate years. Reflecting its diverse student body, Buffalo State boasts more than 80 academic, cultural, social, ethnic, and athletic student organizations, not counting fraternities and sororities.

The new Sports Arena, which houses the Buffalo area's only college ice hockey rink, is home court of the Division III Bengals and Lady Bengals basketball teams. Wearing the college colors of orange and black, Buffalo State's male and female varsity athletes field intercollegiate teams as well in cross country, football, soccer, swimming, tennis, softball, volleyball, and indoor and outdoor track.

Along with this wealth of on-campus academic, social, and all-college experiences, Buffalo State, with its unique city location, is ideally placed to expand students' horizons. College neighbors on Elmwood Avenue, for instance, include the world-renowned Albright-Knox Art Gallery and the distinctive Buf-



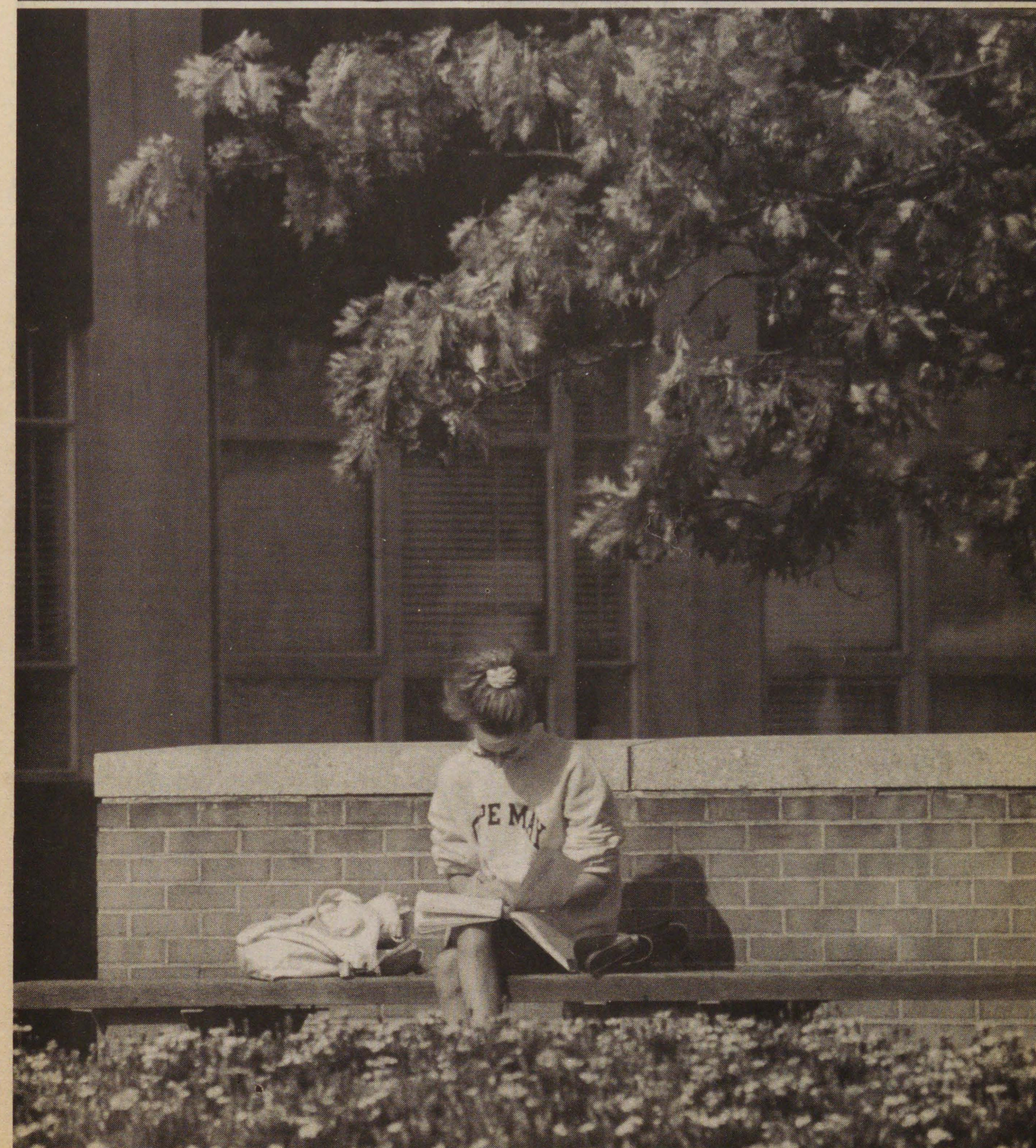
- | | |
|--|---|
| 1. Albright-Knox Art Gallery | 11. Greater Buffalo International Airport |
| 2. Amtrak Terminal | 12. Kleinhans Music Hall |
| 3. Artpark | 13. Memorial Auditorium |
| 4. Buffalo and Erie County Botanical Gardens | 14. Naval and Servicemen's Park |
| 5. Buffalo and Erie County Historical Society Museum | 15. Niagara Falls |
| 6. Buffalo Museum of Science | 16. Pilot Field |
| 7. Buffalo Zoo | 17. Rich Stadium |
| 8. Convention Center | 18. Theater District |
| 9. Darien Lake | 19. Theodore Roosevelt Inaugural National Historic Site |
| 10. Erie Basin Marina | 20. Tifft Farm Nature Preserve |

falo and Erie County Historical Society Museum, while nearby Delaware Park's 365 acres and tranquil lake beckon both the athlete and the contemplative in all seasons of the year. For the gregarious, there are the restaurants and shopping of The Strip on Elmwood Avenue, and for the stagestruck, an entire Theater District in downtown Buffalo just a few minutes away by bus or car. For the music-lover and the dance fan, the city furnishes frequent opportunities to follow their interests, whether symphonic concerts and classical ballet or heavy metal and improvisation. For the sports fan, there are major-league football, hockey, and indoor soccer and lacrosse, as well as Triple-A baseball in a modern downtown stadium. For the dreamer, Buffalo is full of and close to such natural beauty spots as the Lake Erie waterfront, Niagara Falls, the Tifft Farm Nature Preserve, Forest Lawn Cemetery, Chautauqua Lake, and no fewer than five state parks.

Like the choices of Buffalo State College, the variety of its surroundings goes on and on.

2

Admissions



Admissions

Admission to State University College at Buffalo is based on the academic and personal qualifications of the applicant and is granted without regard to race, sex, ethnicity, national origin, sexual orientation, religion, age, disability, or marital or veteran status of individuals. Specific questions may be directed to the Admissions Office, Cleveland Hall 206, (716) 878-4017.

Freshman Admission

All applicants must possess or be a candidate for a high school diploma. A State High School Equivalency Diploma is also acceptable. High school preparation should be broad and balanced with study in the areas of social science, English, natural science, mathematics, and foreign language. Admission decisions are based on a variety of factors including high school grades, rank in class, strength of program, scores on standardized examinations such as SAT or ACT, and high school recommendations.

Freshman applicants may indicate a curriculum choice, if they so desire, but it is not necessary. Those who do not indicate a major must select one by the second semester of their sophomore year. Freshmen are accepted directly into their major, with the exception of the following programs: broadcasting, computer information systems, criminal justice, elementary education, journalism, public communication, and social work. Freshmen interested in the aforementioned majors are accepted to the college as uncommitted students. Once enrolled, they must meet additional departmental requirements for entrance into the program.

Freshman applicants to the business studies, business education, and distributive education programs may be accepted into a pre-business sequence. All pre-business students receive advisement from the Business Department and must meet its requirements prior to formal entrance into the major.

A limited number of freshman applicants to exceptional education, engineering technology, and speech language pathology and audiology are admitted directly into the program on a competitive basis. All other applicants otherwise eligible for admission to the college are accepted into the college as uncommitted students who, once enrolled, must meet additional departmental requirements for entrance into the major.

Early Decision

Early Decision is an early application, early notification program at your first college choice. If you apply under Early Decision at Buffalo State College, you will be allowed to apply to other colleges for regular admissions while awaiting a decision. If you are accepted, however, you will be expected to make a tuition deposit at Buffalo State College and to withdraw your applications at other institutions.

The following deadlines and notification dates have been adopted by SUNY campuses for Early Decision applications:

- Your SUNY application must be filed on or before November 1 at the Application Processing Center. APC will process and forward your application to us by November 15.

- We will notify you of our early decision by December 15.
- If accepted, you will be expected to make your tuition deposit by January 15.

If you file your application in the early fall, any change in the Early Decision college choice must be requested in writing and must be received by the Application Processing Center prior to November 1.

Special Consideration

Each year Buffalo State accepts a limited number of students who would not normally be admissible if academic criteria were the sole basis for decision. Individuals who possess special talents (in the arts or athletics, for example), those who are 21 years of age or older, those with extensive involvement and leadership roles in school or community activities, those whose academic records were adversely affected by unusual circumstances (such as illness or family crisis), or applicants who are members of historically underrepresented groups (African American, Hispanic, or Native American) may receive special consideration. Individuals accepted under this program may be required to take a reduced course load their first year and receive a variety of support services. Those wishing consideration under this program should contact the Admissions Office for further details.

Transfer Students

Transfer students with more than 30 credits must apply for and be admitted to specific programs. Those with 30 credits or less may apply for uncommitted status. Admission is based on academic performance in college and space availability. A minimum grade point average of 2.00 out of 4.00 is necessary for acceptance, although some programs are very competitive and will require a higher grade point average. No student will be accepted who is on probation at another institution or who has been academically dismissed in the past year.

Credits earned previously will be evaluated for all accepted transfers upon receipt of official transcripts. No credit will be evaluated from any institution which is not listed on the application for admission. A maximum of 91 semester hours may be transferred from other accredited institutions. However, no more than 65 hours may be transferred from two-year colleges.

No credit earned at a two-year institution after a student has earned upper division status (57 credits or more) or earned an associate's degree will be transferred.

Transfer students should understand that only credit is transferable. Grades, quality points, and cumulative averages do not transfer.

Students dissatisfied with this evaluation, whether under the guaranteed transfer policy or as a regular transfer student, may formally request a review from the Admissions Office or may submit a petition to the Academic Appeals Committee.

Special Credit

In addition to credit awarded for traditional college work, up to 45 credit hours may be accepted from the following sources:



Source	Maximum credit hours
1. Published examinations	30
No more than 18 may be in general examinations.	
2. Course challenge	30
3. Military service courses	15
4. Non-collegiate institutions	15
5. Proprietary institutions	15

Further details may be found in section on Academic Policies.

Guaranteed Transfer Policy

New York state residents who are graduates of a State University of New York two-year college, including community colleges operated within the program of the University, and who possess an A.A. or A.S. degree, shall be guaranteed an opportunity to continue their education on a full-time basis at a senior campus of SUNY. To assure admission, however, students must file their applications by February 1 for the fall semester and by September 15 for the spring semester. Buffalo State College, a senior campus, subscribes to and participates in this agreement. Students who are admitted to the college from parallel programs can ordinarily expect to complete their degree requirements in four semesters of full-time study. Those entering programs involving special certification and licensing may need more time to complete these additional requirements.

This guarantee will be extended to every graduate who possesses an A.A.S. degree as rapidly as appropriate existing programs are expanded and new programs are developed. Students from such programs may need additional time to complete degree requirements. Specific information is available in the Admissions Office.

Joint Admission Program

(Erie Community College/Niagara Co. Community College)
First-time freshmen who expect to receive an associate's degree from Erie Community College or Niagara County Community College and are in a parallel program may file a single application for simultaneous admission to one of the two-year colleges and to Buffalo State College. These students follow a definitive curriculum at the two-year college and receive counseling and advisement that will facilitate enrollment into a parallel program at Buffalo State College upon completion of the associate's degree. They will matriculate at Buffalo State College as juniors, and can expect to earn the baccalaureate degree for most programs in four additional semesters of full-time study (or the equivalent for part-time students). Students planning to pursue programs requiring certification, e.g., education, may require more than four semesters of full-time study to finish.

The admissions requirements and general education requirements for the bachelor's degree at Buffalo State College will be those in effect at the time of the student's application for joint admissions at the two-year college. Major requirements for the bachelor's degree will be those in effect at the time the student formally enrolls at Buffalo State College. Further details are available from the transfer admissions counselor at Buffalo State College or the admissions office at the participating two-year college.

Educational Opportunity Program

This program is designed to provide special admission and counseling to those individuals who are both traditionally underrepresented in higher education and in need of financial assistance. Applicants must be New York state residents with a high school diploma or its equivalent. They must not qualify for admission to the college under general admission standards and

must have a family income equal to or less than published state standards. For further information and application forms, write to the Admissions Office, Cleveland Hall 210, (716) 878-4415.

International Students

The college welcomes international students each year. Applicants should possess the equivalent of 12 years of elementary and secondary education, and must provide evidence of proficiency in the English language and the ability to meet the financial costs of attending college. A special booklet, "Information for New Students From Abroad," is available from the Admissions Office and the Office of International Student Affairs.

For spring admission, all applications and supporting materials should be submitted no later than Oct. 1 if applicants are in their home country, or Nov. 15 if they are currently in the United States. For fall admission, all applications and supporting materials should be submitted no later than June 1 if applicants are in their home country, or July 15 if they are currently in the United States.

Once they have received official notification of acceptance, students must show proof of financial support for the duration of studies. Payment of all college-related expenses must be made prior to the beginning of each semester. The International Student Affairs Office will then send an I-20 Form or an IAP-66 Form enabling them to obtain, respectively, an F-1 (student) visa or a J-1 visa from the U.S. Embassy or Consulate in their home country.

All international students must enroll in a group health insurance plan available through the college. The premium is \$528 per year, which must be paid to the Student Accounts Office, Cleveland Hall 305. International students must take their receipts to the International Student Health Insurance Office in WC 204 to prove they have paid for the College Student Health Insurance Plan. Failure to do so will automatically cancel registration.

About \$13,000 a year will be necessary to cover all expenses. By the time they arrive on campus, international students should have made arrangements for the funds to cover their college career.

International students may live on or off campus. On campus, they may live in the international dormitory, which remains open during the holidays, or in any other dormitory, provided they move out of the dormitory during holidays. (See Student Services section for additional information regarding international students.)

This college is authorized under federal law to enroll non-immigrant alien students.



Early Admission

Especially well-qualified high school juniors may apply to Buffalo State College for full- or part-time study during their senior year in high school under the Early Admissions Program. The college offers several options:

1. Students may enroll on a part-time basis while attending high school.
2. Students may enroll as full-time freshmen for only the last semester of their senior year.
3. Students may enroll as freshmen for the entire academic year instead of completing their senior year of high school.

The college arranges with the high school to have remaining high school diploma requirements fulfilled by taking appropriate freshman courses. Therefore, the completion of the high school diploma requirements is concurrent with the accomplishment of earned college credits.

For further details, contact the Admissions Office, Cleveland Hall 206, (716) 878-4017.

Special Departmental Requirements

Certain programs have special entrance requirements. Some examples are:

Fine Arts — freshman and transfer fine arts applicants must present an art portfolio to the appropriate department. Interviews will be arranged by the college.

Computer Information Systems — transfer students must complete a programming course with a C or better in one of the following languages: FORTRAN, COBOL, Assembly, or Pascal.

A number of programs have other entrance requirements, such as a minimum grade point average or successful completion of specific courses. Students should consult the Admissions Office for further information.

Admission Procedures

The college uses the state's common application form, which may be obtained from high school guidance offices, community college transfer offices, or the Buffalo State College Admissions Office. It should be completed and submitted to the Application Processing Center in Albany, New York.

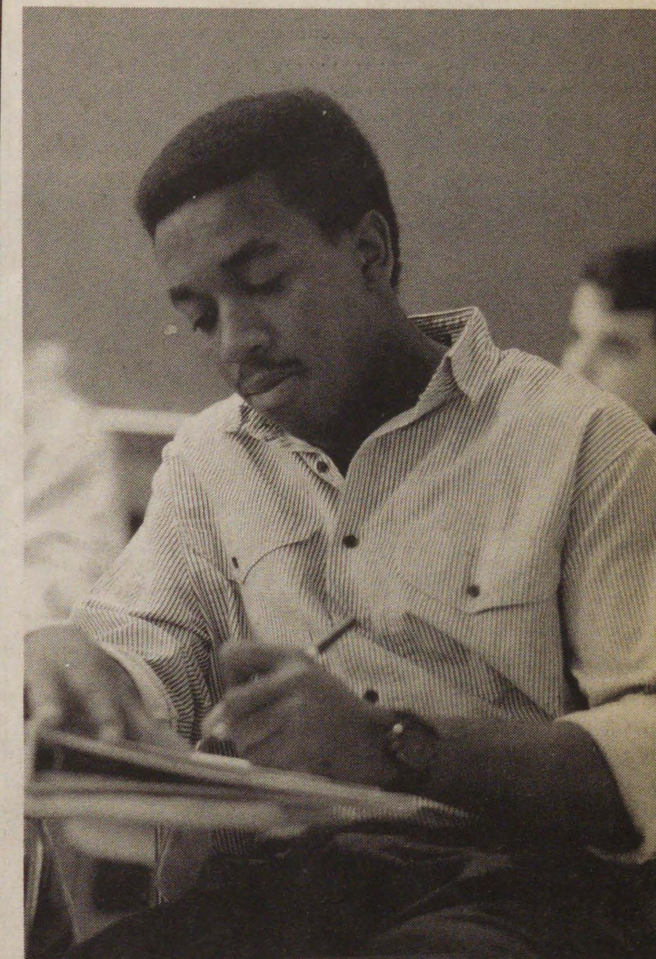
Decisions are made on a rolling basis beginning in mid-September for spring applicants. All completed applications for the fall semester received on or before January 15 will be given consideration on a competitive basis before all others. Processing continues until new student enrollment goals have been met. Applicants are encouraged to submit their application and supporting materials early in order to receive consideration.

All matriculating students born on or after Jan. 1, 1957, are required to submit proof of immunity to measles, mumps, and rubella. Students who cannot show proper proof of immunity will not be permitted to register. A completed Health Report and Physicians Certificate also must be on file at the college's Weigel Health Center.

With the exception of applicants to EOP, all accepted students are required to submit a \$125 advance tuition deposit. This deposit is applied to the fall or spring (whichever is appropriate) semester tuition bill.

Refunds of the tuition deposit are made only under the following circumstances:

1. The refund request must be made within 30 days after the



date of acceptance, or by May 1 for summer/fall terms or Nov. 1 for spring term, whichever is later, but prior to the first day of registration.

2. If the college withdraws a conditional acceptance.
3. If the student withdraws to enter military service.
4. If the college comptroller deems that conditions beyond the student's control warrant a refund, where appropriate documentation is provided.

Requests for tuition deposit refunds must be received in writing and include the appropriate documentation.

Non-Degree Status

This status enables individuals to take college courses for credit without working toward a degree. Students may enroll in up to 11 hours of course work each semester on a space-availability basis. Credits earned may be applicable to a degree at the college should the student apply and be accepted as a formally matriculated student. The only entrance requirement is a high school diploma or its equivalent. Students who have been academically dismissed from any institution must wait one full year from the time of dismissal before enrolling under non-degree status. To register, complete a one-page application, which may be obtained from the Admissions Office. Non-degree students are not eligible for financial aid. Also see "Special Study Options."

Adult learners with no previous college experience who do not qualify for matriculated study may also enroll as part-time non-degree students. After completing 15 credit hours of college-level coursework with a 2.0 grade point average or higher, they are eligible for degree study. The credits that they have earned will be applicable to their degree.

Readmission

Students who attended Buffalo State College previously in a matriculated status and wish to re-enroll must apply for a specific program and have their applications reviewed by the appropriate department. If other courses have been taken at other institutions since leaving the college, official transcripts must be submitted.

A student who has been academically dismissed must wait one full year from the time of dismissal before being considered for readmission. If readmitted, all course work taken previously will be considered in computing the cumulative average.

Students who have returned to Buffalo State after an absence of two or more years must complete the degree requirements currently in effect. All others have the option of graduating according to the degree requirements at the time they left or the current requirements.

Readmission forms are available in the Admissions Office, Cleveland Hall 206.

Summer Session

The college offers one of the largest and most comprehensive summer programs in the State University system, with more than 400 graduate and undergraduate courses available in more

than 40 fields of study. Departments often choose to offer special creative or unique courses in the summer.

Summer session consists of two six-week sessions and three three-week modules beginning in early June. The last session begins in mid-July. A summer session bulletin is available each March in the Records and Registration Office, Cleveland Hall 204.

Evening Study

Buffalo State College offers 15 undergraduate evening degree programs and five minors for its more than 1,000 evening students. The college recognizes that evening students tend to hold daytime jobs and may be somewhat older than the traditional college age. Every effort is made to provide the programs and services necessary for students contemplating career changes. Adult students will find that Buffalo State College maintains no separate evening division. Instead, all students — whether part time or full time, day or evening — are admitted through the college's Admissions Office. As a result, the provision of basic college services is direct and efficient. Students enjoy the flexibility of being able to switch between day and evening schedules simply on the basis of the courses for which they register. This also means that the general programs, policies, procedures, and course descriptions throughout this catalog apply to day and evening students alike.

Of the college's nearly 70 undergraduate academic majors, the 15 available to evening-only students are: the arts, broadcasting, business studies, computer information systems, criminal justice, engineering technology (electronics, mechanical, or power and machines), food systems management, general studies, humanities, industrial technology, social work, urban-regional analysis and planning, and vocational technical education. Furthermore, evening students may also elect to declare a minor program. Evening-available minors are: anthropology, computer information systems, creative studies, management economics, and safety studies.

The courses for each of these programs are sequenced over several semesters so that evening students are able to fit them into their schedules. Occasionally courses are offered on weekends or via videotapes and local cable television as part of the college's continuing effort to make evening study as convenient as possible for working adults.

Evening Student Assistance

Evening students may visit the Evening Student Assistance Center for information about evening study at the college, available evening degree programs, alternative means of earning college credit, and other information relevant to evening study at Buffalo State College. The Evening Student Assistance Center is the evening branch of the college's Paul G. Bulger Lifelong Learning Center. It is open from 4:30 to 9 p.m., Monday through Thursday, when classes are in session during the fall and spring semester. For further information, call or visit the Evening Student Assistance Center, Twin Rise 100, (716) 878-5906. Fax: 878-5930.

Student Retention

In fall 1985, the college enrolled 1,523 new, full-time freshmen. To date, 36 percent have received bachelor's degrees and 4 percent are still enrolled.

3

Finances and Financial Aid



Finances

New students are required to pay tuition and fees upon receipt of invoice either in cash or through use of a deferred payment plan open to all students. Deductions will be made under various financial aid programs if the student attaches a copy of the award notice with payment.

Room and board charges must be paid prior to arrival on campus. These charges are usually included in the bill covering tuition and fees.

Further information concerning payment is available in the Student Accounts Office, Cleveland Hall 304, (716) 878-4121.

Costs—Student Expenses

Tuition

Tuition for full-time undergraduate Buffalo State students is \$1,325 per semester for New York state residents and \$3,275 per semester for out-of-state students. Tuition for part-time undergraduates is \$105 per credit hour for New York residents and \$274 per credit hour for out-of-state students.

Room and Board

Residence hall room rates are \$1,250 per semester for a double-occupancy room. Room rental does not include telephone service; students arrange for this service with the telephone company. Some single rooms are available, but the college cannot guarantee these accommodations. Room rates are subject to change.

Meal plan rates vary from \$650 and up a semester. These rates are subject to change.

College Fee

A college fee of \$12.50 per semester for full-time students and \$.85 per credit hour for part-time students is collected by all units of the State University system to finance various SUNY construction projects.

Activity Fee

All full-time students are required to pay a \$55 per semester activity fee; part-time students pay \$4.60 per credit hour per semester. These funds support the activities of more than 80 student groups on campus.

Health Fee

A mandatory college health fee of \$25 per semester for full-time students and \$2.10 per credit hour for part-time students is collected by all units of the State University system. This fee provides basic medical assistance to students on campus from the Health Center.

Parking Fee

There is a user fee for those students who wish to park on campus. The fee is \$36 per semester for full-time students, \$18 for part-time students, and \$10 for a summer-only permit.

Late Payment Fee

A \$30 late payment fee will be assessed to all payments received after the due date on the invoice and to every delinquent file mailed to a student.

Late Registration Fee

There is a \$30 late registration fee. This fee will not be waived or deferred.

Late Drop/Add Fee

A late fee of \$15 per add will be charged after the designated end of registration each semester. This fee will not be waived or deferred.

Bad Check Fee

A "bad check" charge of \$20 will be assessed to each bad check passed. In addition, the \$30 late payment fee will be imposed.

Miscellaneous Expenses

Miscellaneous expenses will vary depending on the academic program, personal spending habits, and the distance between home and campus.

The college estimates books and supplies will cost approximately \$550 a year, depending upon declared major; personal expenses, \$650 a year; and transportation, \$500 a year.

Health Insurance

An optional health insurance plan is available for \$228.50 a year. This is for the period of September 1, 1992, through September 1, 1993, and the rate is subject to change each year.

Foreign Student/Study Health Insurance

All international students are mandated to carry a special health insurance plan. The premium is \$528 per year. This includes the period of September 1, 1992, through September 1, 1993. There are rates for coverage during any of the semesters of the college year. The premium is subject to change each year. All American students studying abroad also must carry this insurance.

Summer Session

Tuition and the college fee are charged at the credit-hour rate for all courses taken during summer sessions. The summer rate for a double residence hall room is \$85 a week, and \$170 a week for a single room. The summer activity fee is \$5.

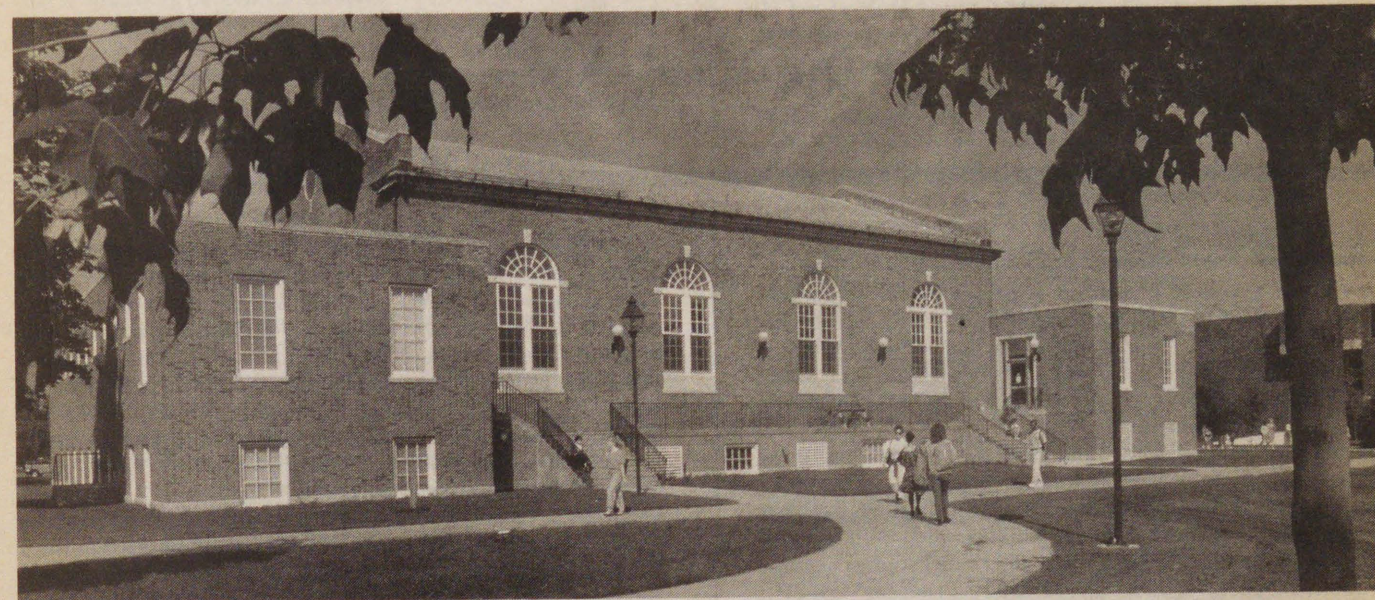
Explanation of Terms

Full-time — A student registering for 12 or more credit hours a semester is considered a full-time student.

Part-time — A student taking one to 11 credit hours a semester is a part-time student.

Semester — The academic year of the college consists of a fall semester and a spring semester. Yearly expenses are twice the semester rate.

Non-Resident Tuition — Students who are not permanent residents of New York state are charged a higher tuition rate. Other fees are the same.



New York State Debt Collection Mandate

The State University reserves the right to withhold academic records from any student who has not satisfied or made provision to satisfy all obligations incurred in the State University system. Unpaid accounts will, in due course, be turned over to an external collection agency. Collection costs will be added to the amount of indebtedness.

An Estimated Budget

Estimated college costs can be found in the following table for the 1992-93 academic year. The costs may vary according to a student's class status, place of residence, major, and individual needs. **All tuition rates, fees, and fines are subject to change without notice as directed by the State University board of trustees.**

Estimated Budget for 1992-93 Fall and Spring Semesters (New York State Resident)

	Commuter	Resident
Fixed Costs (per semester)		
Tuition	\$1,325.00	\$1,325.00
Fees	92.50	92.50
Total Fixed Costs	\$1,417.50	\$1,417.50
Variable Costs (per semester)		
Books and Supplies	\$ 550.00	\$ 550.00
Maintenance at home	1,500.00	—
Room	—	1,250.00
Board	—	1,630.00
Miscellaneous expenses	650.00	650.00
Transportation	500.00	500.00
Total Variable Costs	\$3,200.00	\$4,580.00

Estimated Annual Costs

(two semesters)	\$9,235.00	\$11,935.00
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Refund Policy

Tuition

Tuition refunds will be processed only if the student officially withdraws through the Records and Registration Office. Students given permission to cancel their registration are responsible for payment of tuition according to the following schedule:

Date of Course Withdrawal	Tuition Liability
1st week of class	0
2nd week	30%
3rd week	50%
4th week	70%
after 4th week	100%

The first week of class ends on Saturday of the week in which classes are scheduled to begin.

Room Rentals

During the fall and spring semesters, a refund can be made only if students withdraw due to circumstances beyond their control. Any questions covering refunds are addressed in the Residence Hall License.

Board Charges

Meal rates are set by the Faculty-Student Association board of directors. The Food Service Office will determine the amount of refund due in cases of meal plan withdrawal.

Activity Fee

This fee is refunded only when registration is canceled within the first two weeks of class.

College Fee

Not refundable under most circumstances.

All refunds are mailed to the student's permanent address.

Financial Aid

Student Financial Aid

The cost of a college education need not be an impossible burden. Although the primary responsibility for financing education rests with the student and his or her family, there are numerous financial aid programs — grants, loans, and work-study positions — that can help bridge the gap between college costs and family resources.

Buffalo State College's Financial Aid Office has been extremely successful in helping students find ways and means of financing their college educations. Currently, the office oversees the distribution of more than \$19 million in federal and state grants, loans, and jobs annually, and determines student eligibility for the Federal College Work-Study Program (CWSP), Educational Opportunity Program (EOP), Federal Family Education Loan Programs, Federal Perkins Loan, and Federal Supplemental Educational Opportunity Grant (SEOG).

About 70 percent of Buffalo State students are eligible for some type of aid. During the 1993-94 academic year it is estimated that at least 3,400 students will receive a Federal Pell Grant. About 3,000 are expected to receive federal loans in excess of \$7 million. Also College Work-Study opportunities will be provided to each of some 300 students with an additional \$1000 per semester.

The Financial Aid Office, with one of the most experienced staffs in the state, works year round to keep students and their families updated on financial aid possibilities. Service is personalized; communication is frequent. The office is open during normal business hours Monday through Friday, and students are invited to make appointments to meet with the staff. In addition, upon filing applications, students are notified by mail about financial aid programs for which they may be eligible and the requirements which must be met.

The office provides information and forms for a variety of programs and also awards available funds on the basis of federal and state guidelines to students who have completed the appropriate financial aid applications. Three types of aid are available: grants (financial aid that does not have to be repaid); loans (money that must be repaid at low interest); and employment (opportunities for students to work to earn part of the needed funds).

The office is the clearing house for many college scholarships which are offered by special groups on and off campus. Notices of these scholarships are usually announced in the student newspaper. In addition, the office administers a short-term loan program for students needing small amounts of money.

Financial Aid is Based on Need

Financial need is defined as the difference between the amount of money a family may be expected to contribute and the total cost of education. (Total college costs include tuition, fees, room, and board paid directly to the college in addition to related expenses, such as books and supplies, transportation, and personal expenses.)

The Financial Aid Office uses the financial aid application to assess a family's ability to pay for college. Information on this form includes the family's annual income, debts and assets, number of dependents, other family members in college, and unusual circumstances. The office analyzes this information, and, with the help of an annually revised formula prescribed by the federal government, makes a determination of how much a family can reasonably be expected to contribute. The student is also expected to contribute a portion from savings, earnings, or special benefits he or she may receive.

All of the information provided on the financial aid application and on any attachments is confidential and is used only by the Financial Aid Office to determine eligibility. It is not shared with the Admissions Office, academic departments, or administrators.

If family circumstances change at any time, the office should be notified at once. A death in the family, loss of employment, and change of commuter to resident status are examples of changes which could affect the amount of aid offered.

Who is Eligible?

It is important to remember that only **matriculated** students — students who have been accepted at the college and are pursuing specific degree programs — are eligible to receive most financial aid. Non-matriculated students are those who are not recognized as degree candidates, and therefore are not eligible for most financial aid. These students include continuing education, some visiting, and special status students who have been allowed to take courses but have not been formally accepted by the college.

To continue receiving campus-based aid, **every year** all recipients must file the financial aid application that has been approved by the U.S. Department of Education. The application will be processed by an approved processing contractor. There may be a supplemental data form which should be completed and will necessitate a processing fee. It is important to include the appropriate code for our college and to enclose the appropriate fee. Applications must be filed by March 15 for the following academic year to receive full consideration. Applications received after March 15 are subject to funds available. Other programs may require the filing of separate applications each year as well.

Some financial aid programs are based on full-time enrollment (12 credit hours a semester or more). If a student's enrollment for is less than that, the award may be subject to reduction or cancellation.

Students also must be citizens, nationals, or permanent residents of the United States or citizens of the Federated States of Micronesia, the Marshall Islands or permanent residents of the Trust Territory of the Pacific Islands (Palau) to apply for aid. Students who are non-citizens may be eligible if they provide documentation from the Immigration and Naturalization Service (INS) that designates them as lawfully present in the U.S. for other than a temporary purpose with the intention of becoming

ing a citizen or permanent resident.

To continue to receive aid, students must make satisfactory progress toward completion of a degree in accordance with the Academic Policies chapter of this catalog and any addendums. Also, they must not be in default of any loan or owe a refund for any Title IV grant to any institution.

All inquiries concerning financial aid or related matters should be addressed to:

Financial Aid Office
Cleveland Hall 309
State University College at Buffalo
1300 Elmwood Avenue
Buffalo, N.Y. 14222-1095
(716) 878-4901

A detailed brochure on financial aid information is also available from this office.

How to Apply for Financial Aid

Students are encouraged to apply early for financial aid. Application forms may be obtained in the Financial Aid Office, Cleveland Hall 309, (716) 878-4901. The requirements below pertain to 1993-94 as known at the time of publication. As this catalog spans more than one academic year, all procedures and eligibility requirements may change, subject to governmental action.

All students applying for aid at the college must file the financial aid application every year. This form is for all the federal campus-based programs as well as the Federal Pell Grant and Federal Family Education Loan Programs. A separate application may be necessary to apply for the New York State Tuition Assistance Program (TAP). Both applications should be completed and mailed to the appropriate processing agency. Review the instructions and list **SUNY College at Buffalo** as the college to receive this aid information. The filing date for summer, fall, and spring semesters is the previous March 15 for continuing students. Applications will be accepted after the deadline on a first-come, first-served basis, with awards subject to the availability of funds.

The following forms must be submitted annually for specific aid programs.

1. Federal Pell Grant — Apply using the Free Application for Federal Student Aid. The completed form should be mailed to the address indicated on the form. The deadline date is May 1 of the academic year (i.e. May 1, 1994 for 1993-94). Submit the Student Aid Report (SAR) results to the Financial Aid Office.

2. Tuition Assistance Program (TAP) — for New York state residents ONLY. Apply with the appropriate student financial aid application and/or the Student Payment Application from the New York State Higher Education Services Corporation (NYSHESC). The TAP deadline is May 1 of the academic year (i.e. May 1, 1994 for 1993-94).

3. Federal Stafford Loan Program — The financial aid application along with a student loan application should be completed and sent to the Financial Aid Office at least three (3) months prior to the first day of classes for the semester for which you wish to attend in order to meet appropriate payment or deferment deadlines. The Financial Aid Office will complete the college section and forward it to the appropriate lender.

4. Other Loans: Unsubsidized Federal Stafford Loans; Federal Parent Loans for Undergraduate Students (PLUS); Federal Supplemental Loan for Students (SLS) — Application forms are available from participating lending institutions. Completed forms are to be submitted to the Financial Aid Office for processing.

Who is Self-Supporting?

The following regulations must be met and documented for students to be considered self-supporting or independent for federal financial aid consideration.

For the 1993-94 award year, a student is considered automatically independent if he or she:

1. is at least 24 years of age by December 31, 1992;
2. is a veteran of the U.S. Armed Forces (includes students who were activated to serve in Operation Desert Storm);
3. is a ward of the court or an orphan;
4. has a legal dependent other than a spouse;
5. is married or a graduate or professional student;
6. can **demonstrate and document** unusual circumstances that the financial office deems sufficient to grant independent status. Contact the Financial Aid Office for details and appropriate procedures.

Award Notification

Accepted freshmen and transfer students who have filed financial aid applications will receive notification for the following federal and state programs: Federal Supplemental Educational Opportunity Grant, Federal Perkins Loan, Federal College Work-Study Program, and the Educational Opportunity Program. Continuing students will start to receive notification beginning in June. The Financial Aid Office determines the eligibility for these programs.

Financial Aid Disbursement

Financial aid monies which are above the amount of the charges owed to the institution are disbursed on the following schedule:

Federal Stafford Loan. Checks will begin to be disbursed approximately two weeks after the Schedule Adjustment Period is completed.

Financial aid checks (Federal Perkins Loan, Federal Pell Grant, Federal SEOG, etc.) will begin to be disbursed after the fourth week of classes each semester.

All refund checks are mailed by the Student Accounts Office to the student's permanent address of record.

Overawards

Students are urged to contact the Financial Aid Office promptly when they receive funds from any source not listed on their award letters or amounts that are different from what was estimated.

Overawards occur on occasion because of the length of time it takes to match funds from various sources against student records. **Students are responsible for repaying any money that is overawarded.**

Refunding of Overpayments

If a student who has received federal financial aid funds withdraws, takes a leave of absence, or drops out during the payment period (on or after his or her first day of class of the payment period), a portion of the financial aid award(s) may need to be refunded to the Title IV programs and/or the student may need to repay a portion of the award funds he or she received. The funds will be returned first to the loan programs and then to the grant programs. Further information regarding the policies and

procedures for the return or repayment of financial aid funds is available at the Financial Aid Office, Grover Cleveland 309.

FINANCIAL AID PROGRAMS

FEDERAL AID

Before any federal Title IV funds (CWSP, PERKINS, SEOG, and Stafford/SLS) may be disbursed, the following statements and procedures must be followed.

1. Statement of Educational Purpose — Recipients of funds through federal programs must sign a Statement of Educational Purpose indicating that funds received will be used for such purposes, and file an acceptance form by the required date.

2. Information (Application) Verification — All students receiving federal Title IV funds are subject to U.S. Department of Education verification procedures. Selected students and their parents may be asked to provide supporting documentation (i.e. tax returns) and other information that verify the accuracy of the data reported on the student aid application(s).

3. Financial Aid Transcript — All incoming transfer students who wish to receive aid at our institution are required to submit financial aid transcripts from all prior institutions even if they did not receive financial aid. Forms are available at the Financial Aid Office.

4. Selective Service Registration Statement — Prior to the disbursement of federal Title IV funds all students must sign a statement that they have registered with the Selective Service or that they are not required to be registered.

5. Default/Refund Statement — All students must sign a statement that they are neither in default on any student loan (Federal Perkins Loan, Income Contingent Loan (ICL), Federal Stafford Loan, Federal Supplemental Loans for Students (SLS), Federal Parent Loans for Undergraduate Students (PLUS) or Federal Consolidation Loan) nor do they owe a refund on any federal Title IV grant (Pell and SEOG) program at any institution.

Federal Pell Grant

The Federal Pell Grant is an entitlement program for matriculated undergraduates enrolled full-time or on a part-time basis in a degree program. Eligibility and the amount of the award are based on need. For 1993-1994, awards are authorized to be as high as \$3,700 (for 1993-94, appropriations limit grant to \$2,300). For 1994-1995, awards are authorized to be as high as \$4,100. It is important to note that the maximum grant levels may be affected by appropriation legislation approved by the Congress. Federal Pell Grant payments may be made for the period of time required to complete the first bachelor's degree.

To apply for 1993-94 the financial aid application must be filed by May 1, 1994, the deadline date. Applications are available in the Financial Aid Office. About six to eight weeks after filing, a calculated Student Aid Report will be sent to the applicant, who must submit all copies to the Financial Aid Office for determination of the amount of the grant and for processing of payment.

For selected applicants, the U.S. Department of Education requires additional documents to be submitted for verification to the Financial Aid Office. This procedure must be completed before final eligibility can be determined and the appropriate payment made.

If a student's family experiences a dramatic change in income from one year to the next, the student may be eligible to apply

for a Federal Pell Grant based on estimated income. Further details are available in the Financial Aid Office.

Federal Supplemental Educational Opportunity Grant (SEOG)

For undergraduates who can demonstrate financial need, this grant program provides awards ranging up to \$450 per semester. SEOG awards may be received for the period of time required to complete the first bachelor's degree. Preference is given to full-time students who will also receive Federal Pell Grants in that year.

Application is made with the financial aid application through the college's Financial Aid Office, which is responsible for determining the amount and the recipients of these grants. This application also covers the Federal College Work-Study Program and Federal Perkins Loan.

Federal College Work-Study Program (CWSP)

This work program for students demonstrating financial need offers positions both on campus and at approved off-campus locations. Where possible, placements are made according to the student's educational/vocational goals. Salaries are paid biweekly for actual hours worked up to an average of 13 hours a week. Students earn an average of about \$1,000 a semester. Preference is given to full-time students.

Application is made through the college's Financial Aid Office using the current financial aid application.

Federal Perkins Loan

Undergraduate students may borrow up to \$6,000 for the first two years of study depending on need. A total of \$15,000 may be borrowed for a bachelor's degree program.

The cumulative amount for a master's degree is \$30,000. Preference is given to full-time students. Loans may be limited due to fund availability.

If you are a new borrower or received your first Perkins Loan after July 1, 1993, and you are attending at least half-time, you have a grace period of nine months. (If you are not a new borrower or borrowed your NDSL prior to July 1, 1987 your grace period may be nine months.) You may be allowed up to 10 years to repay the loan. The schedule of repayment will depend on the size of the loan but the minimum amount is expected to be \$40 per month, which includes 5 percent interest on the unpaid balance.

Repayment of the entire loan may be canceled for full-time teaching in a school designated by the Department of Education as being low income, for teaching handicapped children or as a full-time staff member in a federal Head Start program. Principal and interest of this loan may also be canceled for full-time employment in certain law enforcement and corrections positions. Please contact the Financial Aid Office for details on all cancellation policies and procedures. Application is made through the Financial Aid Office using the current financial aid application. Federal regulations also require a loan exit interview prior to the student's leaving the college. This interview, conducted by the Financial Aid Office, includes repayment obligations, deferment options, and cancellation possibilities.

Federal Stafford Loan Program

The New York State Higher Education Services Corporation (NYSHESC) is the guarantee agency in New York state for the Federal Stafford Loan program. Students who are enrolled at

least half-time in an approved college and who are U.S. citizens or permanent residents are eligible to apply for this loan. The program enables both undergraduate and graduate students to borrow directly from a bank, credit union, savings and loan association, or other participating lender. Depending on total college costs, other aid, full/part-time status, and the amount of the family contribution for all applicants, (effective 7/1/93) a student in his/her first year may borrow up to \$2,625. During the second year, the student may borrow up to \$3,500. A student who has achieved third year status of undergraduate study may borrow up to \$5,500 per year. A total of \$23,000 is the maximum eligibility for undergraduate study. Graduate students (effective 10/1/93) may borrow up to \$8,500 per year. A total of \$65,550 for both undergraduate and graduate study is the maximum a student may borrow under this program.

Repayment begins six months after at least half-time enrollment has ended, and students generally have from five to ten years to repay. The minimum payment, barring unusual circumstances, will be \$50 plus interest. For new borrowers, the applicable interest rate will be a variable rate of T-Bill+ 3.1 percent with a cap of 9 percent. The federal government will pay the interest on the loan until the repayment period begins, and also during any other authorized periods of deferment. A combined origination fee and insurance premium is payable at the time of disbursement and is deducted from the check.

Loan applications are available at the lending institution. The completed application and a current financial aid application are submitted to the Financial Aid Office for its recommendation and then sent to the lending institution. The lender will forward it to the New York State Higher Education Services Corporation for final decision. NYSHESC notifies the student and the lender of the loan decision.

Student loan checks, which are payable to both the student and the college, are mailed directly to the school. The college Student Accounts Office will notify the student when the check arrives on campus. All loans will be disbursed in two installments.

Due to the volume of applications and federal verification requirements, it is suggested that Stafford Loan applications be filed with the Financial Aid Office three months before the semester for which the loan is needed. This will also help eliminate cash flow problems regarding books, supplies, and transportation which often occur early in the semester.

Other Loans

There are three other educational loans available to provide additional funds for educational expenses. They are the Federal Parent Loan for Undergraduate Students (PLUS), the Federal Supplemental Loans for Students (SLS) and the Unsubsidized Federal Stafford Loan. The annual interest rate for these loans will not exceed 11 percent and may be less based on the U.S. Treasury Bill rate. Like the Federal Stafford Loan, these loans are made by a participating lender.

Loan applications are available at the lending institution and the completed application is submitted to the Financial Aid Office. Unlike the Federal Stafford Loan, there are no restrictions or limits to eligibility based on family income; however, no loan may exceed the difference between the student's budget and other financial aid.

Federal Parent Loan for Undergraduate Students (PLUS)

This loan is available to parents of dependent undergraduate students. They may borrow up to the cost of education minus

other aid per year per child.

A combined insurance premium and origination fee of 5 percent of the total loan is collected at the time of check issue by the lender. Parents must begin repayment of principal and interest (variable) within 60 days after the loan is received. Many lending institutions allow for the postponement of principal and interest payments if the student is attending on a full-time basis. The minimum monthly payment is \$60 with repayment to be completed within 5-10 years, depending on how much the parent borrowed.

Many of the rights and responsibilities of the Federal Stafford Loan apply to this program; however, some of them are different. Contact the lending institution for complete information, forms, and procedures.

Federal Supplemental Loans for Students (SLS)

This loan is available to independent undergraduates and to graduate and professional students. First and second year undergraduates may borrow up to \$4,000 per year. Students who have completed two years of their education may borrow up to \$5,000.

Students must begin repayment of interest (variable) within 60 days of receipt of the loan. (This includes the time in school attendance.) Some lenders let the student delay interest payments until he/she begins the repayment of the loan. Contact the lending institution for details on capitalizing interest on this loan. A combined insurance premium and origination fee of 5 percent of the total loan is collected at the time of check issue by the lender.

Repayment of the principal plus interest begins within 60 days after leaving school or dropping below full-time attendance. The minimum monthly payment is \$60, with repayment to be completed within 5-10 years depending on how much the student borrowed.

Unsubsidized Federal Stafford Loan Program

Students may be eligible regardless of income or financial need. The terms of the loan are similar to the Federal Stafford Loan program. Students will be responsible for the payment of interest during in-school and deferment periods. Interest accruing during those periods may be paid or capitalized as agreed by the borrower and lender. A combined insurance premium and origination fee of 5 percent of the total loan is collected at the time of check issue by the lender. Details regarding application procedures are available from the Financial Aid Office.

Veterans Administration

Eligible veterans and children or spouses of eligible deceased or service-connected disabled veterans may be able to receive aid for approved post-secondary study. Information and application forms are available at all Veterans Administration offices.

Aid to Native Americans — Federal

The U.S. Bureau of Indian Affairs offers grants for college study to needy applicants: (1) who are enrolled members of an American Indian, Eskimo, or Aleut tribe, band or group recognized by the Bureau of Indian Affairs; (2) who are accepted or enrolled as an undergraduate in an approved college or university; (3) who are pursuing at least a two year degree; and (4) who demonstrate financial need. Awards vary depending on need and available funds.

An application is necessary for each year of study and must be accompanied by an official needs analysis from the Financial



Aid Office. First-time applicants must also submit tribal enrollment certification from the bureau, agency, or tribe which records enrollment for the tribe.

Applications are available from:
U.S. Department of Interior
Bureau of Indian Affairs
Federal Building, Room 523
100 South Clinton St.
Syracuse, New York 13260-0043

NEW YORK STATE AID PROGRAMS

Tuition Assistance Program (TAP)

Full-time students enrolled in a degree program at an approved New York state post-secondary institution are eligible to participate in this grant program. Awards are based on net taxable income and tuition and fees charged. Undergraduates may receive from \$50 up to maximum tuition each year for four years unless enrollment is in an approved five-year program.

A recipient must be a U.S. citizen or permanent resident alien and a New York state resident. If the student is dependent, and is requesting a state grant payment for the first time in 1993-94, the family net taxable income from the preceding tax year must be below \$42,500; if independent and single with no tax dependents, net taxable income must be below \$10,000. To be considered independent, a student must meet specific TAP requirements regarding age, residency, and financial status.

To continue to be eligible to receive payment, students must maintain good academic standing and be making reasonable

progress toward a degree as required by State Education Department regulations.

These requirements plus application forms may be obtained from the Financial Aid Office or from the New York State Higher Education Services Corporation, 99 Washington Ave., Albany, N.Y. 12255. The Higher Education Services Corporation determines eligibility and mails an award certificate directly to the applicant indicating the amount of the grant. Application deadline for 1993-94 is May 1, 1994, and for 1994-95, May 1, 1995.

Educational Opportunity Program (EOP)

A grant program for undergraduates only who are both academically and economically disadvantaged according to program guidelines and in need of financial assistance, this program requires New York state residency. Students must be accepted or enrolled generally as full time in the Buffalo State EOP program. Awards are based on financial need and available funds and can be received for up to 10 semesters. New students should apply through the EOP Admissions Office, Grover Cleveland Hall 207. Returning students may pick up financial aid applications in the Financial Aid Office, Grover Cleveland Hall 309.

Children of Veteran Award

The Children of Veteran Award is a financial aid program for children of veterans who are deceased, or who have a current disability of 50 percent or more, or are missing in action as a result of service during World War I, World War II, Korean Conflict, or Vietnam Era or who were classified as prisoners of war during such service. For information regarding the required dates of military service, please contact the Financial Aid Office.

Awards are \$450 a year for up to five years (depending on the normal length of the undergraduate degree program) in a college or hospital nursing school in the state without consideration of income or tuition costs. The combined Children of Veteran Award and TAP award cannot exceed the amount of tuition charges.

A special application supplement is available from the New York State Higher Education Services Corporation.

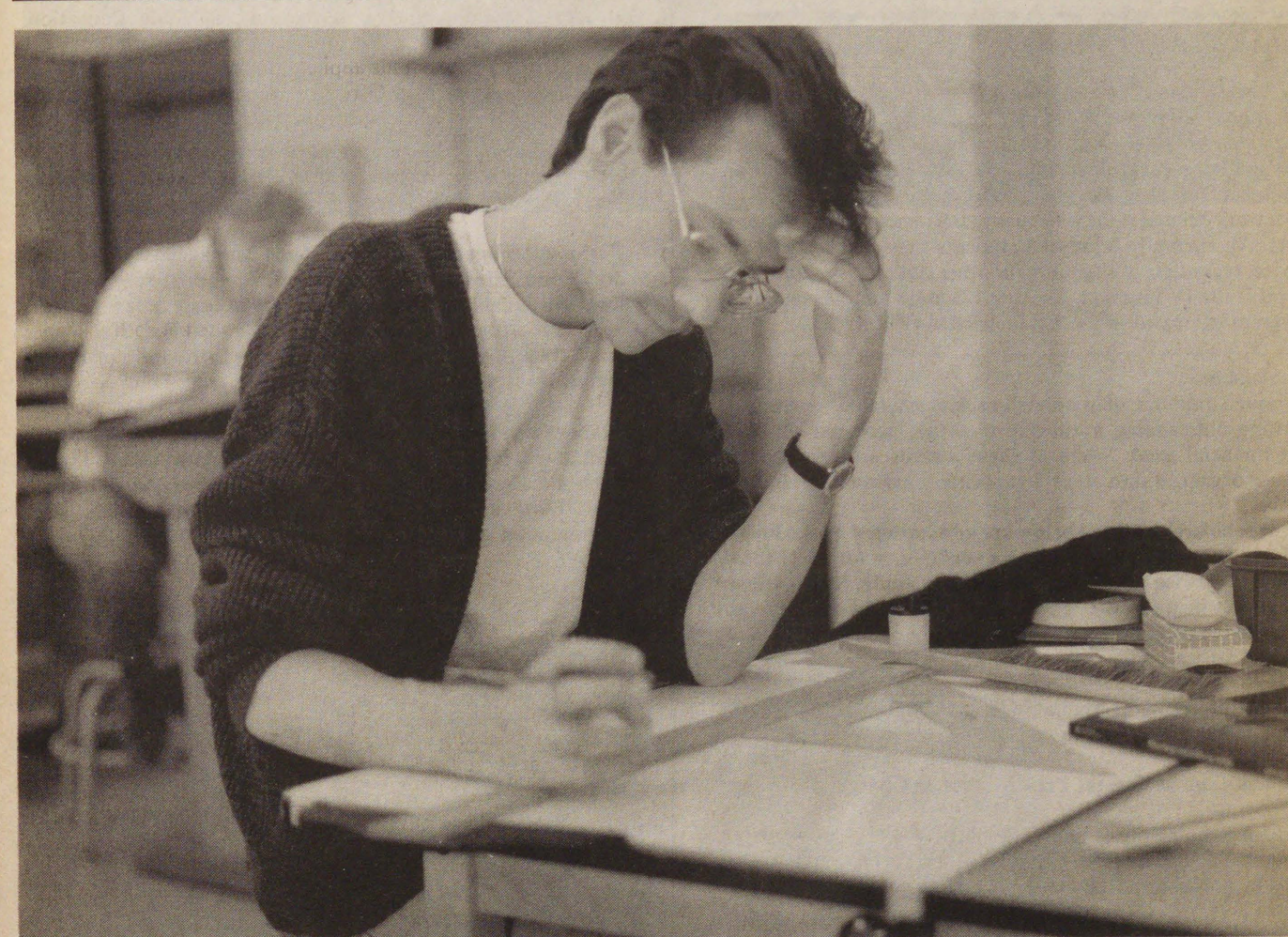
New York State Aid for Part-time Study (APTS)

This New York state aid program provides tuition assistance for part-time undergraduate students enrolled in degree programs. Students who meet all other eligibility requirements may apply for this campus-based program. To be considered for an award a student must:

- be working toward an undergraduate degree as a part-time student enrolled for 3-11 semester hours per semester.
- maintain good academic standing.
- be a resident of New York state.
- be either a U.S. citizen, permanent resident alien, or refugee.
- meet the income limits. "Income" means the net taxable income as taken from the previous year's New York state income tax return. The income limit varies with the student's eligibility to be claimed as a tax dependent.

• If you were eligible to be claimed as a tax dependent by your parents, family income (student's and parent's) cannot exceed \$50,550.

• If you were not eligible to be claimed as a tax dependent by your parents, income (student's and/or spouse's) cannot exceed \$34,250.



• If you were not eligible to be claimed as a tax dependent by your parents, but you were eligible to claim dependents of your own other than yourself and/or your spouse, income (student's and spouse's) cannot exceed \$50,550.

— not have used up Tuition Assistance Program (TAP) or other New York state student financial aid eligibility for full-time study.

Awards are based upon a student's financial need and funds available at our institution. (Awards cannot exceed the educational costs minus the total of other grants awarded.)

Contact the Financial Aid Office for information and the application.

Supplemental Tuition Assistance Program (STAP)

Undergraduate students who are educationally disadvantaged and require remedial courses may be eligible for up to one additional semester of tuition aid beyond their TAP eligibility. For further information concerning the Supplemental Tuition Assistance Program, contact the Financial Aid Office.

State Aid to Native Americans

This is an entitlement program with neither a qualifying examination nor a limit on the number of recipients. Students receive up to \$1,350 a year for a maximum of four years of full-time study. To be eligible for a full-time award a minimum of 12

credit hours must be taken each semester. Students registered for less will receive about \$56.25 per credit hour.

To qualify, applicants must: be a member of one of the Native American tribes located on reservations within New York state, have graduated from an approved high school or have earned a general-equivalency diploma, or be enrolled in a program in an approved post-secondary institution leading to degree credit status and the general-equivalency diploma, or be enrolled in an approved post-secondary institution in New York state. Continued support from this program requires that a student maintain a 2.0 GPA.

Applications and program details may be obtained from the Native American Education Unit, New York State Education Department, Room 543EB, Albany, N.Y. 12234.

Recipients must notify the Native American Education Unit in writing of any change in student status, program, or institutional enrollment.

Office of Vocational and Educational Services for Individuals with Disabilities (VESID)

Disabled students pursuing higher education may be eligible for assistance through the State Office of Vocational and Educational Services for Individuals with Disabilities (VESID). Criteria and funding vary. Applications and eligibility requirements may be obtained at the local VESID office

COLLEGE AID PROGRAMS

Job Location and Development Program

The Job Location and Development Program is a referral service which provides Buffalo State College students with part-time and summer employment opportunities in the greater Buffalo area. The program provides alternatives for students to learn work-related skills while defraying increasing educational costs. All currently registered students may make use of the service, regardless of eligibility for other student assistance programs (Title IV funding). The Job Location and Development Program is located in the Financial Aid Office.

Scholarships

A limited number of scholarships are available to students showing outstanding leadership qualities, academic abilities, and financial need. Some of these awards are provided by outside organizations, others by specific departments at Buffalo State.

The scholarships listed below are administered by the Financial Aid Office. Students fill out a single form for all of them. Unless otherwise stated, all students may apply. In most cases selection is made by the organization. Notices of deadlines are published in the student newspaper and are on file in the Financial Aid Office.

Daniel Upton (Sigma Sigma Sorority Alumni Chapter) — for junior females majoring in education.

Mothers Club at Central Park Methodist Church

Hudson Scholarship — For graduates of Erie County High Schools (exclusive of the City of Buffalo). Preference will be given to graduates of Orchard Park High School.

Buffalo Federation of Women's Clubs

William A.-Virginia M. Troy Scholarship — Student must have earned at least a 3.25 GPA at Buffalo State. Student must also be a resident of Erie or Niagara County and be entering his/her Sophomore, Junior or Senior year at Buffalo State College.

The following scholarships/awards require separate application forms and, for the most part, have more specialized requirements:

Alumni Scholarship — for all students. Applications are available in the Alumni Office, Cleveland Hall 214.

Andrew Brown Choral Arts Scholarship — annual scholarship awarded to a member of the Buffalo State Singers. Selection is made by the Andrew Brown Scholarship Committee. Contact the Alumni Office, Cleveland Hall 214, for further information.

Additional Alumni Scholarships — awards for undergraduates who are from specially designated areas or are members of particular organizations. Applications are available in the Alumni Office, Cleveland Hall 214.

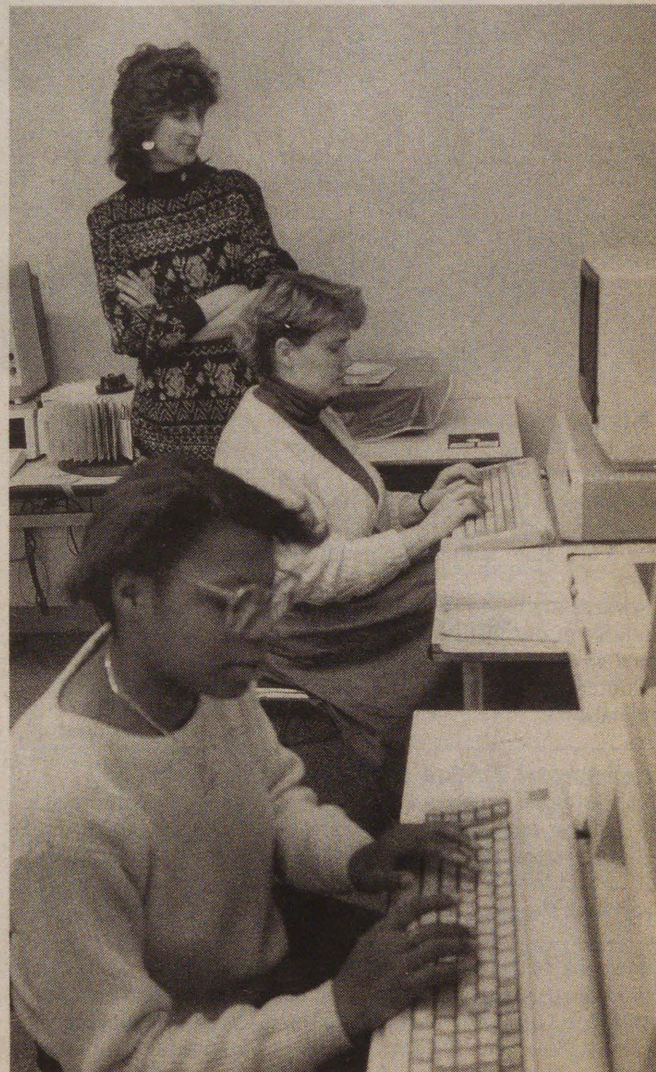
Chemistry — for an outstanding junior female majoring in chemistry. Selection is made by the Chemistry Department.

Exceptional Education — grants from various fraternal organizations available to majors in all areas of exceptional education. Contact the Chairperson of Exceptional Education Department, Ketchum Hall 201.

Foreign Language — two scholarships available through Foreign Language Department, Bishop Hall 121. Application deadline is April 1.

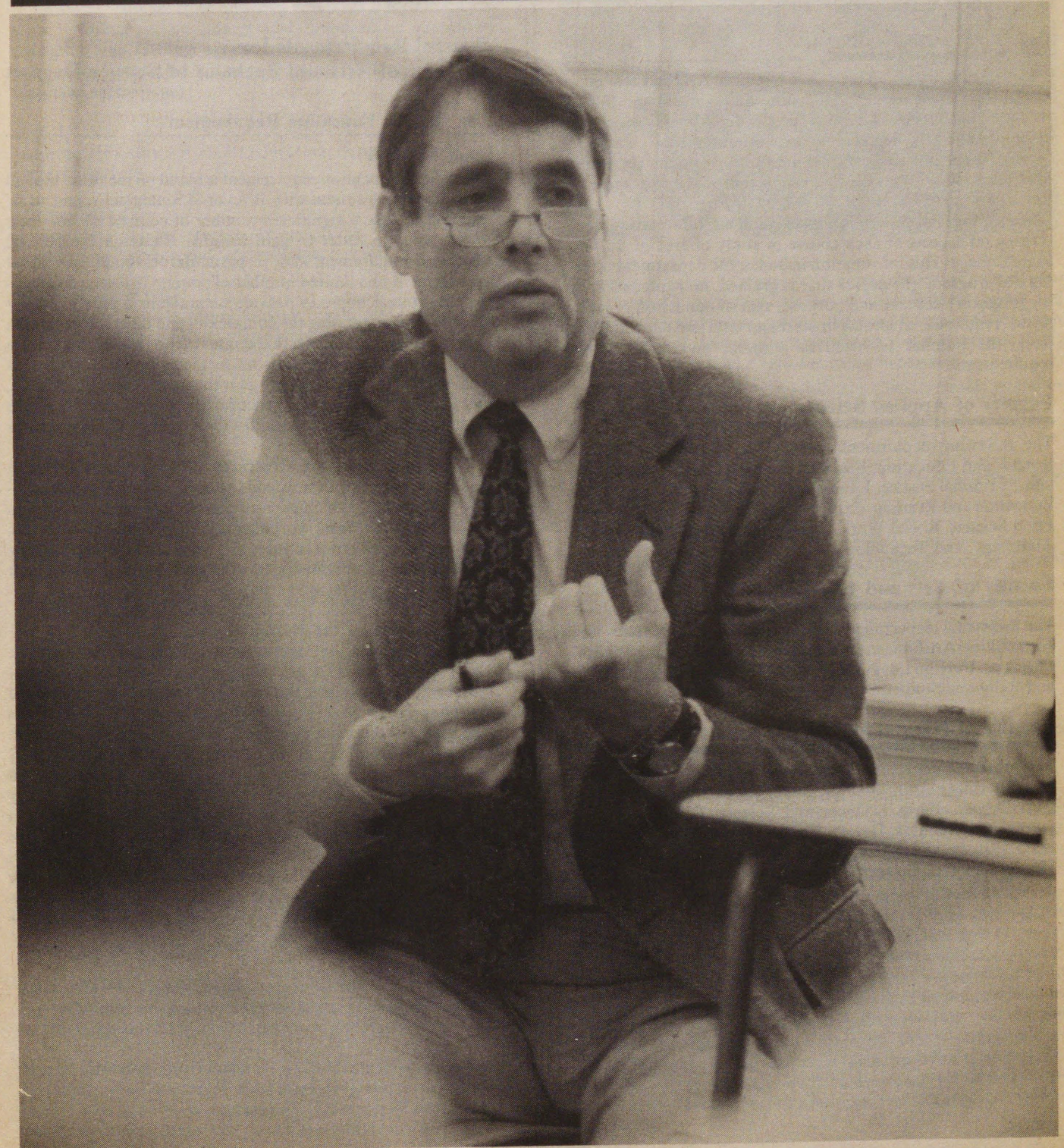
Fashion Technology, Food Systems Management, Nutrition and Food Science — there are limited special scholarships/awards available to students majoring in these areas. A single application form may be obtained in Caudell Hall 106. Please contact the appropriate department early in the spring semester regarding application deadlines.

Frances Siu Lan Tyau International Student Scholarship — annual scholarships awarded to international students. Candidates are screened by a selection committee in March of each year. Further information is available from the director of international student affairs, Student Union 400.



4

Academic Programs



Academic Programs

Academic Organization

The college is organized into three faculties: Arts and Humanities, Applied Science and Education, and Natural and Social Sciences. Each faculty contains specific departments which are responsible for the degree programs offered there.

All of the major areas of study or interdisciplinary programs described below fall under the responsibility of one or more of the departments.

Each program description gives valuable information concerning all aspects of each course of study offered at Buffalo State College. This information includes: the department offering the program, the degree that is granted, an explanation of the program's content and purpose, special admission requirements, required credit hours in the major field and outside of the field, the number of electives allowed, and total degree requirements.

Faculty of Applied Science and Education

The following departments are in the Faculty of Applied Science and Education: Business, Computer Information Systems, Criminal Justice, Educational Foundations, Elementary Education and Reading, Exceptional Education, Nutrition and Food Science, Social Work, Speech Language Pathology and Audiology, and Technology.

Faculty of Arts and Humanities

The following departments are in the Faculty of Arts and Humanities: Art Education, Communication, Design, English, Fine Arts, Foreign Language, Performing Arts, and Philosophy and Religious Studies.

Faculty of Natural and Social Sciences

The following departments are in the Faculty of Natural and Social Sciences: Anthropology, Biology, Chemistry, Economics and Finance, Earth Sciences and Science Education, Geography and Planning, Health, Physical Education and Recreation, History and Social Studies Education, Mathematics, Physics, Political Science, Psychology, and Sociology.

General Requirements for Bachelor of Arts and Bachelor of Science Degrees

The General Education Requirement

Goals

The general education requirement is based on the belief that all students who graduate with B.A. or B.S. degrees ought to be required to take a significant number of courses outside their major areas in order to gain breadth. Through the general education requirement and, in particular, through the careful arrangement of a limited number of courses in selected categories, the college hopes to provide for students a general framework for understanding the complexity and diversity of human experience and an intellectual context from which to evaluate critically their own values as well as the values of society. This framework will help students gain the experience, knowledge, and sensitivity necessary to function in contemporary society as educated individuals and to adjust to the pressures and demands of careers and of life.

The requirements are structured in ways that will enable students to: acquire a knowledge of basic scientific methodologies; understand the impact of technology on society; gain insights into the basic workings of institutions and societies; become aware of other cultures and other times; appreciate the role of arts and humanities; gain a deeper sensitivity to the major ideas and events that shape society.

The Structure of the Requirement

The general education requirement comprises 60 credits of the 123 credits necessary for graduation. This 60-credit requirement is divided into two parts: the **core** of 42 credits, which is divided among specific areas of knowledge, and the remaining 18 credits (the **general education electives**), which may be chosen (with advisement) from any or all of these areas. In each category (core and general education electives), students may select from lists of specially approved courses. These lists are updated every two years and only those courses may be applied to the general education requirement which appear on the list during the semester in which the student takes the course. The courses in this catalog which meet the general education requirement are listed below, as are the specific categories and credit distribution. A description of each course listed may be found in the course listing section of this catalog.

Categories and Credit Distribution

Core Requirement 42 credits
(Each core area must contain courses from at least two distinct academic fields.)

Applied Science and Technology (T) 6
(appropriate courses from business, computer information systems, criminal justice, educational foundations, elementary education and reading, exceptional education, nutrition and food science, social work, speech language pathology and audiology, and technology)

Arts (A) 9
(appropriate courses from art education, design, fine arts, and performing arts)

Humanities (H) 9
(appropriate courses from communication, English, foreign language, and philosophy and religious studies)

Math/Science (M) 9
(appropriate courses from biology, chemistry, geosciences, mathematics, physics, and interdisciplinary sciences)

Social Science (S) 9
(appropriate courses from anthropology, economics and finance, geography and planning, history and social studies education, health, physical education and recreation, political science, psychology, and sociology)

General Education Electives (E) 18 credits
(must include courses from at least three of the core categories)

TOTAL 60 credits

Additional Guidelines, Notes, and Requirements

Basic Skills Courses

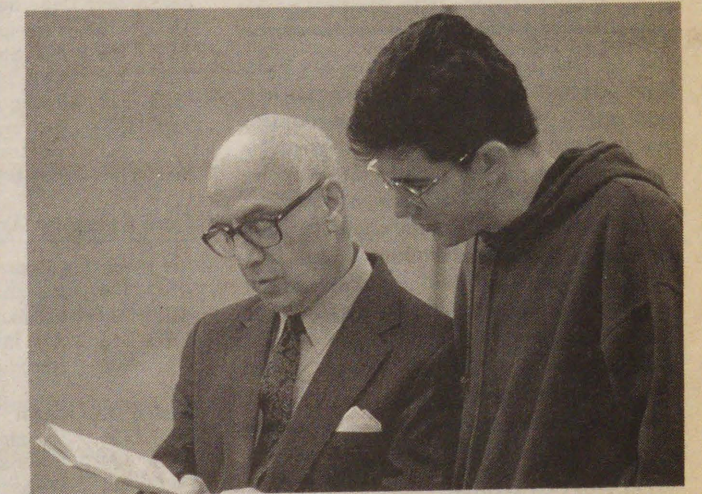
Courses taken to satisfy the English Composition Requirement (ENG 101-102) may be applied as general education electives or all-college electives. Courses numbered 097, 098, or 099 do not carry college credit. A complete description of the basic skills requirement may be found in the following pages of this catalog.

Physical Education Requirement — All students must complete the two-credit physical education requirement, as outlined elsewhere in this catalog. Courses taken to satisfy the physical education requirement **may not** be applied toward the general education requirement.

Major Courses — Students **may not** use courses required by their major or courses from their major discipline to satisfy any part of the general education core requirement.

Dual Majors and Minors — Courses selected to satisfy the general education requirement **may** be used to fulfill any part of the requirements of a second major or a minor.

Upper-Level Requirement — All students must complete a minimum of **45 credits** of their total program (including the major) with upper level courses (300-400 level; an exception is made for foreign language courses as noted below.)



Course Coding System — All courses carrying general education credit, as well as courses which satisfy the global and diversity requirements, will be designated in the Master Schedule and on student grade labels in the Advisement Code column in accordance with the following system.

The first space in the Advisement Code indicates global or diversity status:

D = Diversity
G = Global

The middle space in the Advisement Code designates general education core or elective status:

C = Core
E = General Education Elective

The third space indicates the appropriate core or general education elective area:

T = Applied Science and Technology
A = Arts
H = Humanities
M = Math/Science
S = Social Science

Special Notes to Students and Advisers Regarding Selection of Courses

Because of their importance, it is recommended that consideration be given to the following areas by advisers and students:

1. In order to encourage the integration of knowledge derived from the general education requirement, it is recommended that nine of the 60 hours selected by each student focus on a specific, common issue or period that has had a major impact on civilization and that courses selected represent at least two distinct academic fields. These courses and the particular area of special focus would be determined jointly by the student and adviser.

2. In recognition of the increasing need for quantitative and analytic skills in contemporary society, it is recommended that at least one course be selected from either the core or the electives that incorporates an approach that is primarily analytic. This may include courses in logic, statistics, mathematics, or computer technology. Such an approach would assist students in the development of a more critical and analytic method of inquiry.

Core Requirement - Selected Courses

The courses listed for each category have been selected by the faculty because they best satisfy the goals of the core requirement (42 credits). Student and their advisers will select the particular courses to be taken from the list of approved courses.

The requirement for each category must be satisfied by courses from more than one distinct academic field as determined primarily by course prefix designation; for example, if a category includes nine credits, only two of the three courses may come from the same field.

Core Category: Applied Science and Technology (6 credits)**Business Department**

- BUS 116 Introduction to Business
BUS 117 Introduction to Retailing

Computer Information Systems Department

- CIS 101 Computer Fundamentals
CIS 111 Introduction to Computer Science

Criminal Justice Department

- CRJ 101 Introduction to Criminal Justice Systems and Administration
CRJ 201 Criminal Law & Procedure
CRJ 302 Community Issues in Criminal Justice

Educational Foundations Department

- EDF 206 Introduction to the Group Experience

Exceptional Education Department

- EXE 100 Nature & Needs of Individuals Who Are Exceptional
EXE 306 Behavior Management
EXE 314 Psychology of Individuals Who Are Exceptional

Nutrition and Food Science Department

- NFS 101 Introductory Food
NFS 105 Food and People: Interactions and Issues
NFS 334 Contemporary Nutrition
FST 108 Fashion Fundamentals
FST 206 Introduction to Textiles
FST 340 Introduction to Fashion Merchandising

Social Work Department

- SWK 220 Introduction to Social Work
SWK 319 Social Dynamics of Poverty

Speech Language Pathology and Audiology Department

- SLA 206 Language Development
SLA 220 Introduction to Communication Disorders

Technology Department

- TEC 123 Principles of Manufacturing
TEC 150 The Shape of Things
TEC 260 Development of Technology
TEC 319 Technology and Values
TEC 327 Survey of Industrial Pollution Control Problems
SAF 305 Fundamentals of Safety

Core Category: Arts (9 Credits)**Art Education Department**

- AED 100 Essentials of Visual Arts
AED 200 Fundamentals of Art Inquiry
AED 315 Arts in Living
ATS 320 Introduction to Art Therapy

Design Department

- DES 101 Introductory Design 2D I
DES 103 Introductory Design 3D I
DES 114 Workshop in Crafts
DES 190 Design Symposium

Fine Arts Department

- FAR 100 Introduction to Fine Arts
FAR 101 Drawing I
FAR 210 Introductory Painting
FAR 220 Introductory Photography
FAR 230 Introductory Printmaking
FAR 240 Introductory Sculpture
FAR 250 Art History I
FAR 251 Art History II

Performing Arts Department

- DAN 200 Beginning Modern Technique I
DAN 220 Beginning Ballet
DAN 224 Dance Appreciation
MUS 201 Symphonic Music
MUS 203 Chamber Music
MUS 204 Dramatic Music
MUS 210 Music Theory for Non-Majors
OR

MUS 217 Experiences in Music for Beginners

- MUS 301 Introduction to Music

One of the following Music courses:

- MUS 205 American Popular Music
MUS 206 Jazz Rock Foundations
MUS 208 Survey of World Music Cultures
PAR 100 The Lively Arts
PAR 200 Performance Laboratory
THA 106 Introduction to Theatre Arts
THA 200 Voice and Diction
THA 207 Play Production
THA 317 History of Theatre - Ancient to Renaissance OR
THA 318 History of Theatre - Renaissance to Modern

Core Category: Humanities (9 Credits)**Communication Department**

- COM 100 Introduction to Mass Communication
COM 103 Introduction to Human Communication
COM 205 Experiences in Speech

English Department

- ENG 110 English Literature I OR
ENG 111 English Literature II
ENG 130 Biblical & Classical Literature OR
ENG 131 Medieval and Renaissance Literature
ENG 132 Modern European Literature
ENG 140 American Literature I OR
ENG 141 American Literature II
ENG 151 Introduction to Poetry
ENG 205 History of Cinema I OR
ENG 206 History of Cinema II
ENG 230 Comparative Literature
ENG 252 Contemporary Literature I OR
ENG 253 Contemporary Literature II

Foreign Language Department

- FRE 101 Elementary French
FRE 102 Elementary French
GER 101 Elementary German
GER 102 Elementary German
GRK 101 Elementary New Testament Greek
GRK 102 Elementary New Testament Greek
ITA 101 Elementary Italian
ITA 102 Elementary Italian
LAT 101 Elementary Latin
LAT 102 Elementary Latin
POL 101 Elementary Polish
POL 102 Elementary Polish
RUS 101 Elementary Russian
RUS 102 Elementary Russian
SPA 101 Elementary Spanish
SPA 102 Elementary Spanish
SWA/ AAS 101 Elementary Swahili
SWA/ AAS 102 Elementary Swahili

Philosophy and Religious Studies Department

- PHI 101 Introduction to Philosophy OR
PHI 102 Introduction to Moral and Social Philosophy
PHI 103 Introduction to Logic OR
PHI 307 Beginning Symbolic Logic
PHI 104 Introduction to the Study of Religion OR
PHI 201 Philosophies of Capitalism, Socialism and Democracy OR
PHI 323 Moral Issues
PHI 204 Philosophy of Religion
PHI 207 Philosophy in Literature
PHI 302 Philosophy of Art and Beauty
PHI 310 History of Ethics OR
PHI 317 History of Philosophy
PHI 321 World Religions

Core Category: Math/Science (9 Credits)**Biology Department**

- BIO 100 Principles of Biology
BIO 104 Environmental Biology
BIO 115 General Botany
BIO 116 General Zoology
BIO 313 Human Anatomy & Physiology
BIO 322 Heredity & Human Affairs

Chemistry Department

- CHE 100 Chemistry and Society
CHE 101 General Chemistry I OR
CHE 111 Fundamentals of Chemistry I
CHE 102 General Chemistry II OR
CHE 112 Fundamentals of Chemistry II

Earth Sciences and Science Education Department

- GES 101 Introductory Geology
GES 102 Historical Geology
GES 111 Oceanography
GES 131 Introductory Astronomy
GES 223 Environmental Earth Science
GES 224 Geological Hazards
GES 241 Meteorology
SCI 100 Contemporary Science
SCI 105 Physical Science for Non-Science Students
SCI 231 Pollution, The Environment and Society
SCI 232 Energy, The Environment and Society
SCI 327 Development and Impact of Atomic Science

Mathematics Department

- MAT 103 Introduction to Contemporary Mathematics
MAT 107 Casino Gambling
MAT 110 Intermediate College Algebra and Trigonometry
MAT 111 Elementary Probability and Statistics
MAT 119 Finite Mathematics
MAT 126 Calculus OR
MAT 161 Calculus I
MAT 127 Calculus of Several Variables OR
MAT 162 Calculus II
MAT 304 Games and Linear Programming
MAT 306 Problem Solving in Basic

Physics Department

- PHY 100 Current Physics
PHY 107 General Physics I OR
PHY 111 University Physics I
PHY 108 General Physics II OR
PHY 112 University Physics II
PHY 103 Understanding Sound

Core Category: Social Science (9 Credits)**Anthropology Department**

- ANT 100 Human Origins
ANT 101 Introduction to Anthropology
ANT 144 Introduction to Folklore and Folklife
ANT 340 Women in Anthropological Perspective
ANT 381 Religion, Myth, and Magic

One of the following Anthropology courses:

- ANT 301 Indians of Eastern North America
ANT 303 Anthropology of Europe
ANT 305 Peoples of Africa
ANT 330 Anthropology of Oceania

Economics and Finance Department

- ECO 101 The Economic System
ECO 103 Economic History of U.S.
ECO 201 Principles of Macroeconomics
ECO 202 Principles of Microeconomics
ECO 301 Economics of Labor Relations

Geography and Planning Department

- GEG 101 Man's Natural Environment
GEG 102 Man's Cultural Environment
GEG 107 Resources and Man
GEG 200 Introduction to Regional Geography
GEG 203 Geography of Middle America
GEG 206 Geography of New York State
GEG 307 Conservation and Management
GEG 309 Introduction to Urban Geography

One of the following Geography courses:

- GEG 205 Geography of Asia
GEG 351 Geography of Africa
GEG 352 Geography of Europe
GEG 353 Geography of the Soviet Union

Health, Physical Education and Recreation Department

- HPR 250 Introduction to Human Movement
HPR 300 Athletics in Education
HSC 204 Personal & Community Health

History and Social Studies Education Department

- HIS 101 United States in the Twentieth Century
HIS 106 History of American Life I
HIS 107 History of American Life II
HIS 115 Foundation of Western Civilization
HIS 116 Europe Since 1500
HIS 117 Twentieth Century Europe
SST 102 Problem Solving in the Social Studies

One of the following History courses:

- HIS 210 History of Modern Asia
HIS 211 History of Modern Africa
HIS 313 Politics and History in Middle East
HIS 314 Modern Latin America
HIS 322 Afro-American History

Political Science Department

- PSC 101 Introduction to Government and Politics
PSC 102 Introduction to American Government
PSC 103 Great Political Issues
PSC 215 Urban Government
PSC 218 African-American Political Culture
PSC 230 International Relations
PSC 368 Comparative Public Administration

One of the following Political Science courses:

- PSC 225 Women in American Politics
PSC 240 European Political Systems
PSC 340 Politics of Developing Countries
PSC 345/ Politics and History of the Middle East
HIS 313
PSC 348 Government and Politics of the Far East

Psychology Department

- PSY 101 Introduction to Psychology
PSY 304 Psychology of Learning
PSY 308 Basic Concepts of Perception
PSY 311 Personality: Theory and Research
PSY 325 Social Behavior
PSY 340 Cognitive Psychology
PSY 355 Lifespan Developmental Psychology
PSY 367 Behavior in Organizations

Sociology Department

- SOC 100 Introduction to Sociology
SOC 210 Introduction to Women's Studies
SOC 240 Analyzing Social Problems
SOC 310 Sociology of Sex Roles
SOC 320 Sociology of the Family
SOC 330 Social Psychology
SOC 360 The Sociology of Work
SOC 380 The Sociology of Crime

The General Education Electives: Selected Courses

The general education elective category offers students greater flexibility in choosing courses than available in the core. These electives will allow students to build on areas of interest developed while completing the core, to broaden or enhance career opportunities, and to explore additional interests and concerns.

All courses that have been approved to satisfy the core requirement may also be used as general education electives (18 credits). In addition to those core courses listed, the courses that appear below may be used as general education electives, although they are not available to satisfy the core requirement. Please note that no course already used to satisfy the core requirement may also be used as a general education elective. Courses selected in this section of the requirement must include courses from distinct academic fields reflecting at least three of the core categories listed, i.e., arts, humanities, social science, math/science, applied science and technology.

General Education Electives

Applied Science and Education Electives

Business Department

- BUS 323 Salesmanship
BUS 325 Human Resources Management

Computer Information Systems Department

- CIS 151 Computer Based Information Processing I
CIS 201 Introduction to Microcomputer Applications

Criminal Justice Department

- CRJ 317 Constitution/Civil Liberties

Educational Foundations Department

- EDF 303 Educational Psychology
EDF 345 Parenting
EDF 346 Teenage Sexuality

Elementary Education and Reading

- ECS 405 The Parent-Infant Experience

Exceptional Education Department

- EXE 245 Community Service with Individuals Who Are Exceptional

Nutrition and Food Science Department

- NFS 305 Advanced Foods
NFS 335 Nutritional Needs & Concerns During the Lifespan
NFS 230 Family Health and Home Nursing
FST 447 Clothing in Relation to Human Behavior
FST 448 History of Western Dress

Social Work Department

- SWK 105 Interpersonal Relations
SWK 310 Sexuality in Human Development
SWK 346 Child Abuse and Neglect

Technology Department

- TEC 400 Marketing
TEC 401 Management Science
SAF 320 Product Safety
SAF 340 Community Safety

Arts Electives

Art Education Department

- AED 319 Art for Elementary and Exceptional Education Classroom Teachers
ATS 325 Arts & Special Needs
ATS 329 Art and Older Adults

Design Department

- DES 215 Introduction to History of Design
DES 220 Ceramics I
DES 230 Introduction to Jewelry Making
DES 235 Design in Metal
DES 240 Design in Fibers—Weaving
DES 245 Design in Fibers—Surface Design
DES 250 Design in Wood
DES 260 Introduction to Interior Design

Fine Arts Department

- FAR 102 Drawing II
FAR 335 Papermaking
FAR 354 Greek Art
FAR 355 Etruscan and Roman Art
FAR 356 Early Medieval Art
FAR 357 Gothic Art
FAR 358 Early Renaissance Art in Italy
FAR 359 High Renaissance & Mannerism
FAR 360 Northern Renaissance Art
FAR 361 Italian Baroque Art
FAR 362 Nineteenth-Century Art
FAR 363 Twentieth-Century Art
FAR 365 American Art I
FAR 367 Baroque of Northern Europe
FAR 368 Romanesque Art

Performing Arts Department

- DAN 302 Modern Technique II
DAN 303 Dance Composition
DAN 312 Modern Dance Technique III
DAN 320 Rehearsal and Performance
DAN 330 Ballet II
MUS 112 Applied Music
MUS 161-164 Applied Music II
MUS 165 Keyboard Harmony I
MUS 171-172 Applied Music
MUS 173-174 Applied Music
MUS 271-272 Applied Music
MUS 273-274 Applied Music
MUS 371-372 Applied Music
MUS 373-374 Applied Music
MUS 302 Music History, Antiquity Through Baroque
MUS 303 Music History, Classical & Romantic
MUS 304 Music History, 20th Century
MUS 305 Modern Jazz
MUS 306 Urban Blues and Rock
MUS 313 Ensemble I
MUS 314 Concert Band
MUS 319 American Folk Music
MUS 326 Jazz Ensemble
MUS/ENG 328 Words & Music
MUS 335 Buffalo State College Singers
MUS 350 Directed Study Seminar
PAR 325 The Business of Performing Arts
PAR/PHI 327 Aesthetics & the Arts
PAR 350 The American Musical
THA 100-101-102 Play Reading
THA 208 Technical Theatre
THA 226 Acting: Theory & Practice
THA 260 Basic Movement for Actors
THA 300 Advanced Voice
THA 311 Costume for the Theatre
THA 312 Lighting Techniques
THA 315 Period Styles for the Theater
THA 319 Playwriting

Humanities Electives

Communication Department

- COM 306 Public Speaking
COM 307 Communication & Group Processes
COM 309 Persuasive Speaking
COM 310 International Communication
COM 402 Oral & Visual Communication

English Department

- ENG 180 Introduction to Folklore
ENG 231 Women in Literature: Selected Topics
ENG 240 Afro-American Literature to 1940
ENG 241 Afro-American Literature Since 1940
ENG 260 Children's Literature

- ENG 280 American Folklore
ENG 300 Writing for the Professions
ENG 301 Advanced Composition
ENG 303 Literature in the Film
ENG 304 Forms of the Film
ENG 305 Creative Writing: Narrative
ENG 306 Creative Writing: Poetry
ENG 315 Shakespeare I
ENG 316 Shakespeare II
ENG 330 Literature of the Bible
ENG/FRE 331 French Literature in Translation
ENG 332 Russian Literature in Translation
ENG 336 Modern Italian Literature in Translation
ENG 341 Modern Hebrew Literature in Translation
ENG 345 World Literature after 1945
ENG 350 Contemporary Drama I
ENG 351 Contemporary Drama II
ENG 354 Ethnic-American Minority Literature
ENG 355 The Short Story
ENG 356 Futuristic Fiction
ENG 357 Comedy
ENG 359 Television Drama
ENG 377 Introduction to Semantics

Foreign Language Department

- FLA 337 Greek & Roman Mythology
FLA 338 Introduction to Classical Greek Drama
FRE 201 Intermediate French
FRE 202 Intermediate French
FRE 301 French Conversation & Composition
FRE 302 French Conversation & Composition
FRE 306 The Civilization of France
FRE/ENG 331 French Literature in Translation
GER 201 Intermediate German
GER 202 Intermediate German
GER 301 German Conversation and Composition
GER 302 German Conversation and Composition
GER 306 German Civilization
ITA 201 Intermediate Italian
ITA 202 Intermediate Italian
ITA 301 Italian Conversation & Composition
ITA 302 Italian Conversation & Composition
ITA 306 Contemporary Italian Civilization
LAT 201 Intermediate Latin
LAT 202 Intermediate Latin
RUS 201 Intermediate Russian
RUS 202 Intermediate Russian
SPA 201 Intermediate Spanish
SPA 202 Intermediate Spanish
SPA 204 Spanish for Native Speakers
SPA 205 Spanish for Native Speakers

- SPA 301 Spanish Conversation & Composition
SPA 302 Spanish Conversation & Composition
SPA 306 The Civilization of Spain
SPA 309 The Civilization of Latin America
AAS 201 Intermediate Swahili
AAS 202 Intermediate Swahili

Philosophy and Religious Studies Department

- PHI 105 Introduction to Christian Thought
PHI 121 Introduction to Jewish Thought
PHI 205 Introduction to the Old Testament
PHI 206 Introduction to the New Testament
PHI 208 Women and Religion
PHI 210 Existentialism
PHI 300 Problems of Philosophy
PHI 301 Political Philosophy
PHI 304 Philosophy of Law
PHI 305 Philosophy of Language
PHI 306 Writings of John
PHI 308 Philosophy of Love & Sex
PHI 309 Knowledge and Truth
PHI 314 Contemporary Ethical Theory
PHI 315 Early Modern Philosophy
PHI 318 History of Philosophy II
PHI 319 Medieval Philosophy
PHI 324 Zen Buddhism
PHI 325 Philosophy of the Future
PHI/PAR 327 Aesthetics and the Arts
PHI 328 Business & Ethics
PHI 329 Contemporary Christian Thought
PHI 331 Religion and Media
PHI 332 Mysticism
PHI 350 Holocaust

Math/Science Electives

Biology Department

- BIO 210 Bacteriology
BIO 214 Introduction to Cell Biology
BIO 303 Genetics
BIO 306 Entomology
BIO 315 Ecology
BIO 316 Microbiology
BIO 324 Biology of Human Reproduction
BIO 325 Ichthyology

Chemistry Department

- CHE 201 Organic Chemistry I
CHE 201L Organic Chemistry Lab I
CHE 202 Organic Chemistry II
CHE 202L Organic Chemistry Lab II
CHE 301 Analytical Chemistry
CHE 310 Literature of Chemistry
CHE 312 Chemistry and Criminalistics
CHE 315 Environmental Chemistry
CHE 321 Principles of Organic Chemistry
CHE 322 Biological Chemistry

Earth Sciences and Science Education Department

- GES 302 Invertebrate Paleontology
GES 307 Geomorphology
GES 314 Geological Oceanography
GES 331 Modern Solar System Astronomy
GES 332 Stellar and Galactic Astronomy
GES 335 Observational Astronomy
GES/SCI 337 Astronomy and the Astronomers to 1650
GES/SCI 338 Astronomy and the Astronomers, 1650-Present
GES 339 Astronomy and Cosmology
SCI 311 Physical Science for Elementary School Teachers
SCI 313 Earth Science for Elementary School Teachers
SCI 323 Science as Inquiry
SCI 335 Outdoor Science Education
SCI 340 Scientific Studies in Environmental Pollution

Mathematics Department

- MAT 121 Math for Elementary Teachers I
MAT 122 Math for Elementary Teachers II
MAT 124 Pre-Calculus Mathematics
MAT 183 Problem Solving in Math
MAT 202 Introduction to Linear Algebra
MAT 263 Calculus III
MAT 301 Fundamentals of Abstract Algebra
MAT 315 Differential Equations
MAT 316 Intermediate Differential Equations
MAT 322 Modern Geometry
MAT 351 Elementary Theory of Numbers
MAT 381 Probability

Physics Department

- PHY 200 Creators of the Atomic Age
PHY 213 University Physics III

Social Science Electives**Anthropology Department**

ANT 202	World Prehistory
ANT 203	Human Variation
ANT 307	Urban Anthropology
ANT 308	Archaeological Method
ANT 312	Archaeology of the North American Indians
ANT 320	Human Growth in Anthropological Perspective
ANT 321	Primate Behavior
ANT 326	The Human Fossil Record
ANT 327	Medical Anthropology
ANT 360	Folklore of Women
ANT 362	Urban Folklore
ANT 370	Anthropology of Contemporary Issues
ANT 377	Ancient Civilization
ANT 380	Language and Culture
ANT 382	Culture and Personality

Economics and Finance Department

ECO 304	Money and Banking
ECO 305	Statistics for Economics
ECO 307	Intermediate Microeconomics
ECO 308	Intermediate Macroeconomics
ECO 314	Corporation Finance
ECO 317	Economic Policy: Business and Economics
ECO 320	Managerial Economics
ECO 350	Public Finance
ECO 355	The Economics of Energy and Environment

Geography and Planning Department

GEG 202	Geography of U.S. and Canada
GEG 304	Map Interpretation
GEG 305	Principles of Economic Geography
GEG 320	Historical Geography of U.S.
GEG 322	Geography of World Hunger
GEG 350	Comparative U.S.-Canadian Metro Systems
GEG 357	Geography of Buffalo and the Niagara Frontier
GEG 370	Principles of Water Resource Planning
PLN 315	Introduction to Community Planning

Health, Physical Education and Recreation Department

HPR 319/	Sociology of Sport
SOC 324	
HPR 345	Physical Fitness & Aging
HSC 320	Psychoactive Drugs & Health

History and Social Studies Education Department

HIS 121	Introduction to Jewish History
HIS 155	World War II 1939-45
HIS 201	Age of Discovery
HIS 206	History of Poland
HIS 208	History of England Since 1495

HIS 212	History of Jews in Europe
HIS 215	History of Christian Thought
HIS 220	Classical Greece & Rome
HIS 222	American Revolution
HIS 260	The Turbulent Sixties
HIS 301	Counter Culture/Utopias
HIS 302	History of Women in America
HIS 304	Europe From Napoleon to First World War
HIS 305	Sex and Gender in History
HIS 306	History of Africa to 1919
HIS 308	History of Canada
HIS 310	History of the Far East: The Traditional Era
HIS 317	History of Russia to 1917
HIS 318	History of the Soviet Union
HIS 319	Colonial History of American People
HIS 320	Modern History of Japan and Korea
HIS 321	History of Medieval Europe
HIS 325	U.S. Business History
HIS 330	U.S. Environmental History
HIS 332	Technology and U.S. History
HIS 334	Modern Ireland Since 1800
HIS 341	Afro-Americans and Civil Rights
HIS 342	English Legal History
HIS 343	Introduction to American Legal History
HIS 344	History of American Capitalism
HIS 345	History of U.S. Since 1941
HIS 350	Left and Right in European History
HIS 351	Modern France
HIS 360	Germany and Hitler
HIS 365	American Labor History
HIS 370	American Diplomatic History to 1898
HIS 371	American Diplomatic History Since 1898

Political Science Department

PSC 210	The American Presidency
PSC 220	Development of American Constitutional Law
PSC 306	Politics of Energy
PSC 307	Political Alienation
PSC 309	Politics of International Business
PSC 310	American Political Parties
PSC 311	Pressure Politics
PSC 312	Legislative Process
PSC 315	State and Local Government Politics
PSC 316	Urban Ethnic Politics
PSC 320	U.S. Civil Liberties
PSC 325	Politics of Welfare
PSC 326	Politics and Media
PSC 330	American Foreign Policy
PSC 335	International Relations of Middle East

PSC 350	Introduction to Legal Thought
PSC 351	History of Political Theory I
PSC 352	History of Political Theory II
PSC 355	American Political Thought
PSC 360	Public Administration
PSC 364	American Public Policy

Psychology Department

PSY 306	Statistics in Psychological Research
PSY 310	Behavior Modification I
PSY 321	Comparative Animal Behavior
PSY 327	Adult Development and Aging I
PSY 365	Industrial Psychology
PSY 370	Environmental Psychology I
PSY 382	Psychology of the Consumer
PSY 383	Psychology of Human Sexual Behavior
PSY 385	Psychology of Personal Adjustment
PSY 386	Psychology of Stress, Coping, Health
PSY 387	Psychology of Women
PSY 388	Psychology of Death and Dying

Sociology Department

SOC 321	Black Family in America
SOC 322	Sociology of Childhood & Youth
SOC 323	Sociology of Education
SOC 324/	Sociology of Sport
HPR 319	
SOC 331	Sociology of Group Dynamics
SOC 333	Social Movements
SOC 340	Sociology of the City
SOC 350	Power, Class and Inequality
SOC 351	Sociology of Race and Ethnicity
SOC 352	The Aged in Urban Society
SOC 361	Industrial Sociology
SOC 362	Sociology of Organizations
SOC 370	Sociology of Deviant Behavior
SOC 381	Sociology of Violence
SOC 382	Sociology of Law
SOC 383	Sociology of Punishment and Corrections
SOC 390	Juvenile Delinquency
SOC 391	Sociology of Addiction
SOC 392	Sociology of Sexual Behavior
SOC 393	Sociology of Mental Illness

Other Electives**Creative Studies**

CRS 205	Introduction to Creative Studies
CRS 302	Creative Approaches to Problem Solving
CRS 303	Creative Leadership Through Effective Facilitation
CRS 320	Applications of Creativity and Innovation

Requirements in Global Issues and Diversity

One of the major goals of our requirements is to help prepare students to live effectively, thoughtfully, and humanely in a world composed of individuals representing different populations and cultural backgrounds. In particular, Buffalo State College encourages the infusion at all levels of the curriculum of materials that address a global interdependence and American cultural pluralism and diversity. In addition, all new students entering the college in the fall, 1991 semester or later are required to take courses that address these issues. One 3-credit course in each area (Global Issues and Diversity) is required for graduation. Courses to fulfill this requirement can be applied to the major. Courses may be transferred from other colleges upon approval of the transfer coordinator in the Admissions Office.

The major goal of the requirement in Global Issues is to stimulate in our students an awareness of global interdependence and the intersection of major American interests with international developments. Given the Eurocentric emphasis in much of American education, a further goal of this requirement

is to encourage students to study the cultures of non-Western and Latin American peoples.

The goal in Diversity is to stimulate an awareness of the value and richness of pluralism and diversity in contemporary American society as well as the dangers inherent in bigotry, prejudice, and stereotyping. Ideally, courses that satisfy this requirement should help students develop an increased sensitivity to groups and individuals from traditionally underrepresented populations. Courses should also provide an academic experience in which students can examine their personal prejudices and values and understand how they affect relationships with others. The information provided in these courses should help students appreciate the history, culture, and value of the contributions made by individuals and groups of people from these diverse populations.

Courses that currently satisfy these requirements are listed below. All such courses will be identified in the Master Schedule course listing and on student grade and intent labels with the designation of G for Global and D for Diversity.

Courses that may be used to satisfy the 3-credit requirement in Global Issues**From Faculty of Applied Science and Education**

NFS 105	Food and People: Interactions and Issues
CRJ 307	Comparative Criminal Justice Systems

From Faculty of Arts and Humanities

ENG 345	World Literature After 1945
COM 310	International Communication
PHI 321	World Religions
MUS 140	Ethnomusicology
MUS 208	Survey of World Music Cultures
SPA 309	Civilization of Latin America

From Faculty of Natural and Social Sciences

ANT 101	Introduction to Anthropology
ANT 301	Indians of Eastern North America
ANT 303	Anthropology of Europe
ANT 305	Peoples of Africa
ANT 327	Medical Anthropology
ANT 330	The Anthropology of Oceania
ANT 340	Women in an Anthropological Perspective
ANT 370	The Anthropology of Contemporary Issues
ANT 380	Language and Culture
ANT 411	African Systems of Kinship and Marriage
BIO 104	Environmental Biology
CHE 315	Environmental Chemistry
ECO 401	International Economics
ECO 403	Comparative Economic Systems
GEG 102	Man's Cultural Environment

GEG 200	Introduction to Regional Geography
GEG 203	Geography of Middle America
GEG 205	Geography of Asia
GEG 307	Conservation and Environmental Management
GEG 322	Geography of World Hunger
GEG 351	Geography of Africa
GEG 352	Geography of Europe
GEG 353	Geography of the Soviet Union
GES 315	Marine Environments
HIS 155	World War II, 1939-1945
HIS 210	History of Modern Asia
HIS 211	History of Modern Africa
HIS 306	History of Africa to 1919
HIS 314	Modern Latin America
HIS 320	Modern History of Japan and Korea

PSC 230	International Relations
PSC 309	Politics of International Business
PSC 335	International Relations of the Middle East
PSC 340	Politics of Developing Countries
PSC 368	Comparative Public Administration
SCI 231	Pollution, the Environment and Society
SCI 232	Energy, the Environment and Society

Courses that may be used to satisfy the 3-credit requirement in Diversity**From Faculty of Applied Science and Education**

EXE 100	Nature and Needs of Individuals Who Are Exceptional
SWK 319	Social Dynamics of Poverty

From Faculty of Arts and Humanities	
ENG 240	Afro-American Literature to 1940
ENG 241	Afro-American Literature After 1940
ENG 354	Ethnic-American Minority Literature
MUS 206	Jazz and Rock Foundations
DAN 230	Survey of African-American Dance

From Faculty of Natural and Social Sciences	
ANT 144	Introduction to Folklore and Folklife
ECO 302	Women in the Economy
HIS 302	History of Women in America
HIS 322	Afro-American History
HIS 341	Afro-Americans and Civil Rights
HIS 468	Readings in Afro-American History
HIS 469	Black Protest and Leadership in the U.S. in the 20th Century
PSC 218	African-American Political Culture
PSC 225	Women in American Politics
PSC 316	Urban Ethnic Politics
SOC 210	Introduction to Women's Studies
SOC 240	Analyzing Social Problems
SOC 310	Sociology of Sex Roles
SOC 321	Black Family in America
SOC 333	Social Movements
SOC 350	Power, Class and Inequality
SOC 351	Sociology of Race and Ethnicity

English Composition Requirement

The college requires all matriculated students to demonstrate college-level skills in English composition. The requirement may be satisfied as follows:

Freshmen

Entering freshmen must take the English composition competence examination. The examination will be given during the orientation periods and during each semester. Students earning an Advanced Placement score of three or higher in expository writing are excused from the requirement.

On the basis of the competence examination, students will be placed at one of four levels:

1. ENG 099 required;
2. ENG 101 required;
3. ENG 102 required;
4. English Composition Requirement Satisfied. The department will notify the registrar that the student has met this all-college requirement.

Each student will take the competence examination again after completing each course. If the examination shows that the student has an improved performance level, the department will advance the student in the sequence. When the student has achieved a satisfactory level of competence, the department will notify the registrar.

Every entering freshman who does not pass the competence examination by the end of the first semester must register for (an) appropriate course(s) until the requirement has been satisfied. The Basic Composition Requirement must be completed by the end of the sophomore year.

Transfer Students

Transfer students will complete the English Composition Requirement in one of the following ways:

1. If two composition courses equivalent to ENG 101 and ENG 102 are transferred, the English Composition Requirement is satisfied;
2. If one composition course equivalent to ENG 101 is transferred, the student must complete ENG 102, College Writing II;
3. If no composition courses are transferred, the student must take the competence examination and follow the requirement stated for freshmen.

Transfer students must complete the English Composition Requirement within their first 45 semester hours at this college.

Credit for Courses

Registration for courses in this sequence may only occur following placement by the English Department on the basis of the competence examination.

Students will successfully complete a composition course by completing all the requirements of the course and passing the competence examination at the appropriate level. Retaking the competence examination at the end of each course is required.

ENG 101 and ENG 102 or equivalents may be used as general education elective or free elective credit. ENG 099 is a non-credit course and may not be used to meet any degree requirements. ENG 099, 101, and 102 will be graded on an "S" or "U" basis. Course challenges will not be permitted. Students who are considering taking a course at another institution must seek prior permission from the director of academic standards.

Writing Across the Curriculum

In order to reinforce the writing skills acquired in basic composition courses and to encourage students to employ writing skills in a wide variety of areas, the college has instituted a requirement in writing across the curriculum. All students who enter this college in the fall 1987 semester or later are required to complete successfully two courses identified as "writing intensive." Such courses are indicated in the master schedule by the designation "W" following the course number, e.g., "SOC 101W" identifies a particular section as a writing intensive course. Writing intensive courses include a combination of writing assignments selected at the discretion of the instructor, including, but not limited to, essays, short papers, term papers, and essay exams. The minimum amount of writing in each writing intensive course is equivalent to 15 typed (double-spaced) pages. The quality of writing will be taken into consideration in the determination of the grade. Successful completion of the English Composition Requirement is a prerequisite for all writing intensive courses. Writing courses from other institutions cannot be used to satisfy the writing intensive requirement.

Basic Mathematics Requirement

The college requires all matriculated students to demonstrate college-level skills in basic mathematics. The requirement may be satisfied as follows:

Freshmen

Entering freshmen must take the mathematics competence examination. The examination will be given during the orientation periods and at the end of each semester. On the basis of the competence examination, the Mathematics Department will place each student at one of three levels:

1. MAT 097 recommended;
2. MAT 098 recommended;
3. Basic Mathematics Requirement Satisfied.

Each student will take the competence examination again after completing one of the courses. If the examination shows that the student has an improved performance level, the department will advance the student in the sequence. When the student has achieved a satisfactory level of competence, the Academic Skills Center will notify the registrar.

Every entering freshman who does not pass the competence examination by the end of the first semester must register for (an) appropriate course(s) until the requirement has been satisfied. Mathematics courses other than MAT 097 and MAT 098 will not fulfill the Basic Mathematics Requirement and cannot be taken prior to completing the Basic Mathematics Requirement. The Basic Mathematics Requirement must be completed no later than the end of the sophomore year.

Transfer Students

Transfer students will complete the Basic Mathematics Requirement in one of the following ways:

1. If a mathematics course equivalent to MAT 097 or above is transferred, the Basic Mathematics Requirement is satisfied;
2. If no mathematics courses are transferred, the student must take the competence examination and follow the placement procedures and policies outlined above for freshmen. Transfer students must complete the requirement within the first 45 semester hours at the college.

Credit for Courses

Registration for MAT 097 and MAT 098 may only occur following placement by the Mathematics Department on the basis of the competence examination.

Students will successfully complete each course by completing all of the requirements of the course and passing the competence examination at the appropriate level. Retaking the competence examination at the end of each course is required.

MAT 097 and MAT 098 are non-credit courses and may not be applied to any degree requirements. The courses (MAT 097 and MAT 098) will be graded on an "S" or "U" basis. Course challenges of MAT 097 and MAT 098 will not be permitted.

Department (Major) Requirement

A major consists of no fewer than 24 semester hours and no more than 42 semester hours in a particular field of study. The number of hours needed for a major may vary according to the specific field. Each department sets its own requirements. To receive a degree in a particular major, students must complete at least six semester hours of work in their major at this college. Courses and sequences of a major are determined by individual departments with the approval of the College Senate, Academic Affairs Office, and the president.

Foreign Language Requirement

All students in B.A. degree programs must demonstrate proficiency in a single foreign language equivalent to the successful completion of the first two years of college-level study (101-202 level). Courses taken to satisfy the language requirement may be applied to the following sections of the B.A. degree audit sheet: Humanities (maximum of two courses), general education electives, all-college electives. Students who have successfully completed foreign language study on the high school level may register for the appropriate course or take a placement examination administered by the Foreign Language Department. Normally, one year of high school study is equivalent to one semester of college-level work. Successful completion of one language through the fourth year in high school satisfies the requirement. Transfer students may apply language courses successfully completed at other institutions in fulfillment of the requirement. Foreign language courses currently numbered 201-202 shall carry upper-level credit, i.e., they may be applied toward fulfillment of the 45-credit upper-division requirement. For further information regarding placement or any aspect of the requirement, contact the Foreign Language Department, Bishop Hall 126, 878-5414.

Language Policy for International Students

International students registering at Buffalo State are:

1. Required to take the English Department Placement Exam;
2. Required to register for the appropriate English course(s);
3. Required to take the Foreign Language Department English Oral Language exam;
4. Advised to take the appropriate course in English as a second language after meeting with the chairperson of the Foreign Language Department to clarify their situation concerning the Foreign Language Requirement; and
5. Required to complete the English requirement prior to declaring a major.

Information on these requirements is available through the International Student Affairs Office.

Physical Education Requirement

Two one-hour physical education courses must be taken by all students. They must be selected from the HPR 100 series courses. The three-hour theory courses in physical education, health or recreation cannot be used to meet this requirement. A limit of six hours in physical education may be credited to the 123-hour total required for graduation.

Upper-Division Course Requirement

All students must complete 45 hours of upper-division course work to be eligible for graduation. Specific information can be obtained through the appropriate major department.

Electives

The number of unrestricted elective courses varies according to the individual program. These courses are needed to make up the 123 credit hours required for graduation. Check the individual program requirements to determine the number of electives allowed. These courses are taken in addition to the general education, departmental, and foreign language credits discussed previously.

General Requirements for Bachelor of Technology Degree

General Education Requirements

All students must take 24 hours of general education courses. These include: six hours in the arts/humanities, six hours in written/oral communications, and 12 hours in social sciences.

Mathematics and Physical Sciences Requirements

All students must take 24 hours in the area of mathematics and physical sciences. Courses must include nine hours in mathematics, six in physics, six in chemistry and three in computer science.

Technical Sciences Requirement

All students must take 18 hours of required technical courses.

Physical Education Requirement

Two one-hour physical education courses must be taken by all students. They must be selected from the HPR 100 series courses. The three-hour theory courses in physical education, health, or recreation cannot be used to meet this requirement. A limit of six hours may be credited to the 123-hour total needed for graduation.

General Requirements for Bachelor of Fine Arts Degree

All B.F.A. candidates must complete 36 hours of general education courses with nine hours each from the arts, humanities, the social sciences, and math-science. In addition, students may choose 13 hours of free electives. The physical education requirement of two hours is the same for all degree candidates as is the 123 credit hours required for graduation.

Academic Minors

An academic minor is an optional study program available to undergraduate students. A minor may be used to complement the major course of study, broaden and enhance career opportunities, gain expertise in an area of interdisciplinary studies, or provide in-depth study in a subject of special interest. The minors available at Buffalo State are specially conceived sequences of courses designed to fulfill these general goals.

Each minor program consists of 18-21 semester hours of course work. A 2.00 cumulative average is required for admission to a minor program and at least three of the courses in each minor must be completed at the college. Students may not elect a minor from the same discipline as their major program. Students who complete the minor with a 2.00 cumulative average will have the minor recorded on their official transcript.

Only matriculated students who intend to seek an undergraduate degree may be accepted into a minor program. A minor may only be earned simultaneously with a major completed for a degree.

Students interested in selecting one of the minor programs included in the following list should contact the coordinating department as soon as possible and complete a Declaration of Minor Form. A complete listing of all minors and requirements is on file in each departmental and dean's office as well as in the Academic Advisement Office, Twin Rise South. Advisement on individual minors is provided only by the coordinating department.

Minor	Department or Unit Coordinating Advisement
African and African-American Studies	Political Science
Aging	Psychology
Anthropology	Anthropology
Art History	Fine Arts
Art Therapy	Art Education
Astronomy	Earth Sciences and Science Education
Biology	Biology
Canadian Studies	History and Social Studies Education
Chemistry	Chemistry
Coaching	Health, Physical Education and Recreation
Computer Information Systems	Computer Information Systems
Creative Studies	Center for Studies in Creativity
Criminal Justice	Criminal Justice
Dance	Performing Arts
Design	Design
Deviance	Sociology
Early Childhood Education	Elementary Education and Reading
English	English
Environmental Science	Earth Sciences and Science Education
Exceptional Education	Exceptional Education
Exceptionality	Exceptional Education
French	Foreign Language
General/Regional Geography	Geography and Planning
Geology	Earth Sciences and Science Education
German	Foreign Language
History	History and Social Studies Education
Italian	Foreign Language
Management Economics	Economics and Finance
Medieval Studies	History and Social Studies Education
Music	Performing Arts
Physics	Physics
Polish, Russian & Eastern Studies	History and Social Studies Education
Political Science	Political Science
Psychology	Psychology
Public Administration	Political Science
Religious Studies	Philosophy and Religious Studies
Safety Studies	Technology
Social Welfare	Social Work
Sociology	Sociology
Spanish	Foreign Language
Speech	Communication
Theater	Performing Arts
Urban Economic Geography	Geography and Planning
Urban Regional Analysis and Planning	Geography and Planning
Urban Studies	Political Science
Women's Studies	Women's Studies Unit
Writing	English

ANTHROPOLOGY (0733)

Offered by the Anthropology Department
Bachelor of Arts degree granted
(HEGIS 2202)

Dr. Jill Nash, Chairperson
Classroom Building B-107/878-6110

The study of anthropology provides a broad-based approach to the understanding of human culture and human biology. The anthropological perspective is world-wide, holistic, and involves considerable time-depth. The major exposes students to the primary subdivisions within the field: physical anthropology, ethnology, archeology, linguistics, and folklore.

A departmental honors program is also available. Students should contact the department for additional information.

General Education Requirements60

Total required credit hours in Anthropology33

A. REQUIRED COURSES (15 cr.)

ANT 100	Human Origins
ANT 101	Introduction to Anthropology
ANT 315	Research Methods
ANT 405	History of Anthropological Thought
ANT 499	Independent Study

B. ELECTIVES: (12 cr.)

One course from each of the following areas (selected by advisement):

Archeology (3 cr.)

ANT 202	World Prehistory
ANT 308	Archeological Method
ANT 312	Archeology of the North American Indian
ANT 377	Ancient Civilization
ANT 415	Seminar in Archeology

Physical Anthropology (3 cr.)

ANT 203	Human Variation
ANT 320	Human Growth in Anthropological Perspective
ANT 321	Primate Behavior
ANT 324	The Human Skeleton
ANT 325	Skeletal Investigations
ANT 326	The Human Fossil Record

Regional Courses (3 cr.)

ANT 301	Indians of Eastern North America
ANT 303	Anthropology of Europe
ANT 305	Peoples of Africa
ANT 330	The Anthropology of Oceania

Topical Courses (3 cr.)

ANT 144	Introduction to Folklore and Folklife
ANT 307	Urban Anthropology
ANT 327	Medical Anthropology
ANT 340	Women in Anthropological Perspective
ANT 360	Folklore of Women
ANT 362	Urban Folklore
ANT 365	Practicing Anthropology
ANT 370	The Anthropology of Contemporary Issues
ANT 380	Language and Culture
ANT 381	Religion, Myth and Magic
ANT 382	Culture and Personality
ANT 411	African Systems of Kinship and Marriage
ANT 412	Seminar in Anthropology

NOTE: ANT 389 Topics in Anthropology may be used to fill one or more of the elective requirements according to content in any given semester. Please contact your adviser to determine the appropriate designation.

C. TWO OTHER COURSES, from any area, under advisement (6 cr.)

Total required credit hours outside of major12

The B.A. degree requirement includes a foreign language component of four three-credit courses. Students who have successfully completed foreign language courses at the high school level may be exempt. In general, one full year of foreign languages at the high school level is equivalent to a one-semester course at the college level.

Electives16

Physical Education2

TOTAL REQUIREMENTS123

ART (0105)

Offered by the Fine Arts Department
Bachelor of Arts degree granted
(HEGIS 1002)

Peter J. Sowiski, Chairperson
Upton Hall 502/878-6014

The art program provides the student the opportunity to study a wide variety of visual arts media. Together with basic instruction in drawing, design, and art history, students, under advisement, choose 21 hours of electives in fine arts and/or design.

The Fine Arts Department reserves the right to retain art work for official purposes such as exhibits, catalogs, or teaching aids.

Students are expected to assume the costs of materials they use in their courses. All studio courses may have an additional instructional charge for materials used in class.

General Education Requirements	60
Total required credit hours in Art	39

A. REQUIRED COURSES (18 cr.)

FAR 101	Drawing I
FAR 102	Drawing II
DES 101	Introductory Design 2D I
DES 103	Introductory Design 3D I
FAR 250	Art History I
FAR 251	Art History 2

B. ELECTIVES IN FINE ARTS AND/OR DESIGN (21 cr.)

Foreign Language Requirement	0-12
Electives	10-22
Physical Education	2
TOTAL REQUIREMENTS	123

ART EDUCATION K-12 (0100)

Offered by the Art Education Department
Bachelor of Science degree granted
(HEGIS 0831) NCATE Accredited

Dr. Michael E. Parks, Chairperson
Bishop Hall 102/878-4106

The department defines art educators as advocates for the visual arts to the general public. The primary means to achieve this is through teaching art to children in school, but art advocacy can take place in government, in business and industry, in social and clinical agencies, or wherever there is a vocational need for people skilled in art and professionally trained to deal with people.

Requirements for Major

For students to enroll and remain in the Art Education program they must maintain a cumulative grade point average of at least 2.5, and at least a 3.0 grade point average in their primary major. Students are expected to assume the costs of materials they use in their courses. All studio courses may have an additional instructional charge for materials used in class.

Student Teaching

Eligibility for student teaching is determined by the Art Education Department; placement is arranged by the AED Coordinator of Student Teaching.

General Education Requirements	60
Total required credit hours in Art Education	25

A. REQUIRED COURSES (12 cr.)

AED 300	Foundations in Art Education
AED 301	Theoretical Constructs in Art Education
AED 302	Functions and Practices in Art Education
AED 400	Student Teaching Seminar

B. ELECTIVES BY ADVISEMENT

AED 200	Fundamentals of Art Inquiry
AED 310	Art Materials Exploration for Group Activities
AED 315	Arts in Living
ATS 320	Introduction to Art Therapy
ATS 325	Art and Special Needs
ATS 329	Art and Older Adults
AED 488	Internship
AED 495	Project

C. REQUIRED FIELD EXPERIENCE (12 cr.)

AED 303	Elementary Student Teaching in Art
AED 304	Secondary Student Teaching in Art

Total required credit hours in Fine Arts and Design	36
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Art Education (Continued)

Student teaching experiences are provided in cooperating elementary and secondary schools. Students may be required to reside in some communities during student teaching assignments; transportation to/from the student teaching assignment is the student's responsibility. Students enrolled in the student teaching semester devote full time to their practicum assignment.

Prior written approval must be obtained from the chairperson of the Art Education Department for a student to enroll for any other college credit work during a student teaching assignment except for AED 400. All students anticipating a student teaching assignment must show proof of having a Mantoux test for TB within three months of the assignment. Results of the test must be filed at the Health Center.

Transfer Students

Students transferring to art education majors as juniors, and who wish to complete their programs in four semesters, should plan their schedules of course work in art education with great care and with an academic adviser. It is important to note that AED 300, AED 301, and AED 302 are intended as a sequence and may not be taken concurrently except for students in Certification Only programs or for students in an Articulation Agreement program.

Certification Only Program: This program is designed to meet the needs of students who have already earned a B.A./B.F.A. degree in a studio area and who are interested in earning Art Teacher certification. Information about this program is available in the Art Education Department office.

Houghton College Articulation Program Students at Houghton College who are interested in satisfying the bachelor of science degree requirements in art education (K-12) may complete courses for certification at Buffalo State College. Information is available from Office of Admissions at Houghton College.

A. REQUIRED COURSES IN FINE ARTS (12 cr.)

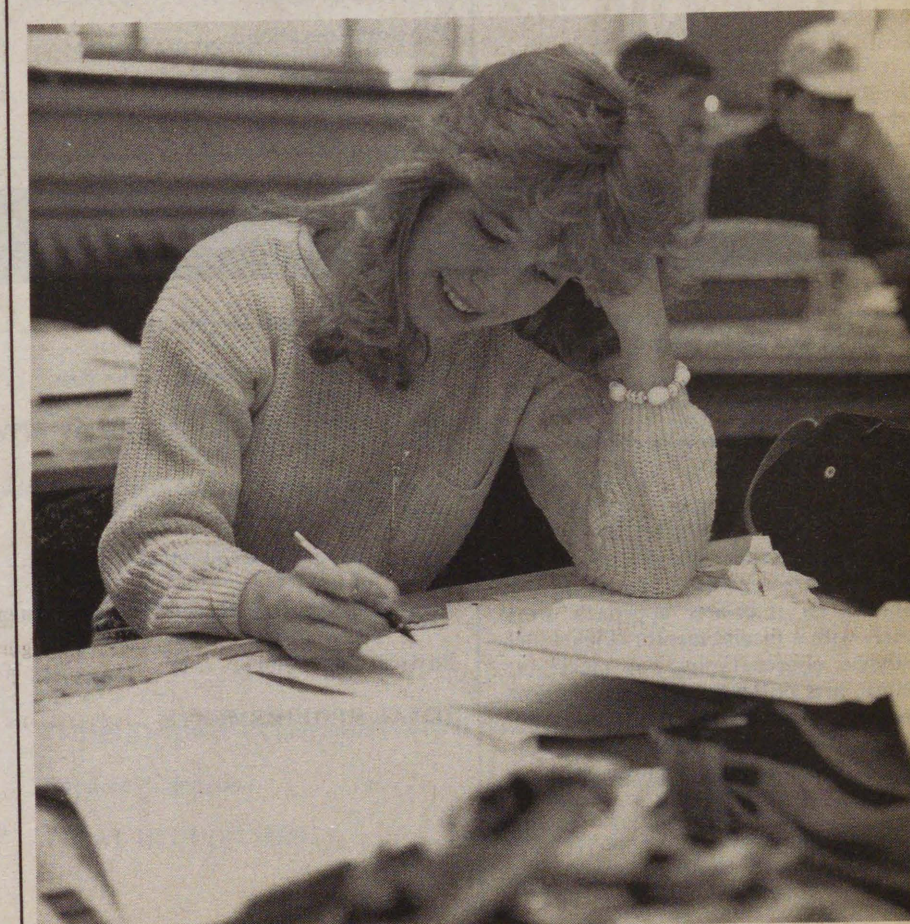
FAR 101	Drawing I
FAR 102	Drawing II
FAR 250	Art History I
FAR 251	Art History II

B. REQUIRED COURSES IN DESIGN (12 cr.)

DES 101	Introductory Design 2D I
DES 103	Introductory Design 3D I
Two electives selected by advisement	

C. STUDIO ELECTIVES SELECTED BY ADVISEMENT (12 cr.)

Physical Education	2
TOTAL REQUIREMENTS	123



ART HISTORY (0130)

Offered by the Fine Arts Department
Bachelor of Arts degree granted
(HEGIS 1003)

Peter J. Sowiski, Chairperson
Upton Hall 502/878-6014

The program in art history is designed to introduce students to the nature and history of artistic development in the western world. This program is conceived as one of the disciplines of the liberal arts and is envisioned as a preparation for graduate study in art history, as well as for careers in art librarianship, museum work, slide curatorship, historic preservation, and art conservation.

General Education Requirements 60

Total required credit hours in Art History 30

A. REQUIRED COURSES (15 cr.)

- FAR 250 Art History I
- FAR 251 Art History II
- FAR 354 Greek Art
- FAR 357 Gothic Art
- FAR 359 High Renaissance and Mannerism

B. ELECTIVES IN ART HISTORY (15 cr.)

- FAR 355 Etruscan and Roman Art
- FAR 356 Early Medieval Art
- FAR 358 Early Renaissance Art in Italy
- FAR 360 Northern Renaissance Art
- FAR 361 Italian Baroque Art
- FAR 362 Nineteenth-Century Art
- FAR 363 Twentieth-Century Art
- FAR 365 American Art
- FAR 367 Baroque of Northern Europe
- FAR 368 Romanesque Art

Foreign Language Requirement 0-12

Electives 19-31

Physical Education 2

TOTAL REQUIREMENTS 123

THE ARTS (0110)

Offered by the Performing Arts Department
Bachelor of Arts degree granted
(HEGIS 1001)

Donna E. McCarthy, Chairperson
Rockwell Hall 203/878-6401

The arts program is an individually designed series of major courses that emphasize the performing arts and prepare students for graduate study. Students with interests, career goals, and talents that embrace an inter-arts approach work closely with a faculty mentor. Fields such as dance, choreography, pop music and culture, arts criticism, arts management, arts therapy, technical theater, and music theater demand a multidiscipline approach. Presentations of musicals, plays,

General Education Requirements 60

Total required credit hours in the Arts 36

MAJOR COURSES SELECTED BY ADVISEMENT

A minimum of three hours in two fields and nine hours in three remaining fields chosen from dance, design, fine arts, music, and theater.

Foreign Language Requirement 0-12

All College Electives Selected by Advisement 13-25

Physical Education 2

TOTAL REQUIREMENTS 123

The Arts (Continued)

dance concerts, and choral ensembles support the music theater emphasis.

1. The Honors Option is highly recommended and encouraged for interdisciplinary studies. Students should contact the department for information.

2. Nineteen- to 21-credit minor programs, available in dance, music, and theater, provide enhancement to other major programs.

BIOLOGY (0725)

Offered by the Biology Department
Bachelor of Arts degree granted
(HEGIS 0401)

Dr. Eric A. Randall, Chairperson
Science Building 313/878-5203

The program in the biological sciences prepares students for several options, including various employment opportunities at the bachelor's degree level, and entrance to graduate or professional schools.

A departmental honors program is also available. Students should contact the department for additional information.

General Education Requirements 60

Total required credit hours in Biology 36

A. REQUIRED COURSES (27 cr.)

- BIO 115 General Botany
- BIO 116 General Zoology
- BIO 214 Introduction to Cell Biology
- BIO 303 Genetics
- BIO 305 Molecular Biology

or

- BIO 314 Advanced Cell Biology

or

- BIO 402 Comparative Animal Physiology

or

- BIO 408 Plant Physiology

- BIO 315 Ecology

- BIO 405 Organic Evolution

B. ELECTIVES IN BIOLOGY (9 cr.)

(Any upper-division course in biology for which prerequisites are satisfied.)

C. RECOMMENDED COURSES IN RELATED FIELDS

(Courses taken to meet these recommendations may be placed in the Core or GEE categories.)

CHE 111-112 and CHE 201-202

MAT 126

PHY 111-112

Electives 25

Foreign Language Requirement (General Education) 0-12

Physical Education 2

TOTAL REQUIREMENTS 123

BIOLOGY 7-12 (Secondary Education) (0631)

Offered by the Biology Department
Bachelor of Science (Education) degree granted
(HEGIS 0401.01) NCATE Accredited

Dr. Eric A. Randall, Chairperson
Science Building 313/878-5203

The secondary education program in biology is specifically designed to prepare students to teach biology and general science at the secondary level (grades 7-12). Graduates of the program receive a B.S. in secondary education and provisional certification to teach in New York state public schools.

General Education Requirements 60

Total required credit hours in Biology 30

A. REQUIRED COURSES (27 cr.)

BIO 115	General Botany
BIO 116	General Zoology
BIO 214	Introduction to Cell Biology
BIO 303	Genetics
BIO 313	Human Anatomy & Physiology
BIO 315	Ecology
BIO 405	Organic Evolution

B. MINIMUM ELECTIVES IN BIOLOGY (3 cr.)

Any upper division course for which prerequisites are satisfied.

Total required credit hours in Professional Education 18

SST/	
SED 200	Field Experience: Secondary Education and Related Courses
EDF 303	Education Psychology
EDF 403	Historical and Philosophical Forces Influencing Secondary Education
EDU 416	Teaching Reading in Secondary Schools
SED 308	Methods and Materials in Teaching Secondary Science
	Professional Education Elective

Total required credit hours in Student Teaching 12

SED 408	Practice Teaching Science in the Secondary School
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Total required credit hours in Other Fields* 34

*Courses taken to meet the following requirements may be placed into the Core or GEE sections.

One year of foreign language
CHE 111 and CHE 112
PHY 111 and PHY 112
One year of earth science
One semester of calculus and one semester of statistics

Electives 1

Physical Education 2

TOTAL REQUIREMENTS 123

BROADCASTING (0707)

Offered by the Communication Department
Bachelor of Arts degree granted
(HEGIS 0603)

Dr. W. Richard Whitaker, Chairperson
Bishop Hall 210/878-6008

The broadcasting program is a mix of practical experience and relevant theory. It is tied closely to the professional community and emphasizes realistic and in-the-field broadcasting experience. Preparation for careers in television and radio broadcasting and allied fields is provided.

A department honors program is also available. Students should contact the department for additional information.

General Education Requirements 60

Total required credit hours in Broadcasting 30

A. REQUIRED COURSES (27 cr.)

COM 100	Introduction to Mass Communication
	or
COM 102	Introduction to Broadcasting
COM 201	Broadcast Copywriting
COM 205	Experiences in Speech
	or
COM 206	Speech Training for the Communication Professions
COM 222	Principles of Broadcasting
To enter the broadcasting major, students must have satisfactorily completed ENG 101 and 102 or equivalent, and have earned a grade of "C" or better with a cumulative grade point average of 2.6 in the above four core courses.	
COM 302	Interviewing
	or
COM 317	Sales and Management
	or
COM 412	Programming
COM 328	Radio Studio Operations
COM 329	Beginning TV Studio Operations
COM 332	Contemporary Issues in Broadcasting
COM 430	Broadcast Law and Regulation

B. ELECTIVES SELECTED BY ADVISEMENT (3 cr.)

One course selected from among the professional courses in the Communication Department.

Foreign Language Requirement 0-12

Electives 19-31

Physical Education 2

TOTAL REQUIREMENTS 123

BUSINESS and DISTRIBUTIVE EDUCATION (0406)

Offered by the Business Department
Bachelor of Science degree granted
(HEGIS 0838.01) NCATE Accredited

Dr. Mary A. Davis, Chairperson
Chase Hall 306/878-4239

The program in occupational business and distributive education leads to provisional certification to teach business and distributive education subjects in New York state.

In this teaching field, applicants for a teaching certificate must also have an equivalent one year of occupation-related work experience, which they may obtain through the field experience courses as part of the business electives.*

General Education Requirements 60

Total required credit hours in Business 27

BUS 117	Introduction to Retailing
BUS 312	Principles of Accounting I
BUS 325	Human Resources Management
BUS 326	Introduction to Merchandising
BUS 327	Advertising Concepts and Practices
BUS 334	Business Law I
BUS 336	Visual Merchandising
BUS 360	Principles of Management
BUS 403	Marketing II-Buyer Behavior

(Continued on next page)

Business and Distributive Education (Continued)

Admission Requirements: Transfer students holding the A.A.S. degree in business are accepted into the major on a competitive basis. No freshmen are accepted directly into the major. Students seeking admittance into the business and distributive education major must provide evidence of satisfactorily completing BUS 117 - Introduction to Retailing, and BUS 312 - Principles of Accounting I and have a cumulative GPA of at least 2.5. Satisfactory completion is defined as a "C" grade or better.

At the time of publication of this catalog, this program was under review for possible revision. Interested individuals are urged to contact the department office, Chase

Total required credit hours in Professional Education		28
OEC 301	Principles of Occupational Education	3
DED 415	Student Teaching	12
EDF 303	Educational Psychology	3
DED 411	Methods of Teaching B.E. & D.E.	3
OEC 302	Curriculum and Evaluation in Occupational Education	3
OEC 303	Methods and Materials in Occupational Education	1
EDF 403	Historical & Philosophical Forces S.E.	3
Electives		6
Physical Education		2
TOTAL REQUIREMENTS		123

Hall 306, for the most current information.

*The occupational business and distributive education curriculum adheres to the guidelines published by the Council for Distributive Teacher Education.

BUSINESS EDUCATION (0404)

Offered by the Business Department
Bachelor of Science degree granted
(HEGIS 0838) NCATE Accredited

Dr. Mary A. Davis, Chairperson
Chase Hall 306/878-4239

The program in business education leads to provisional certification to teach business courses, including word processing.*

Admission Requirements: Transfer students holding the A.A.S. degree in secretarial science are accepted into the major on a competitive basis. No freshmen are accepted directly into the major. Students seeking admittance into the business education major must provide evidence of satisfactorily completing BUS 116 - Introduction to Business, and BUS 312 - Principles of Accounting I and have a cumulative GPA of at least 2.5. Satisfactory completion is defined as a "C" grade or better.

At the time of publication of this catalog, this program was under review for possible revision. Interested individuals are urged to contact the department office, Chase Hall 306, for the most current information.

*The business education curriculum adheres to the guidelines published by the National Association for Business Teacher Education.

General Education Requirements		60
Total required credit hours in Business Education		18
BUS 116	Introduction to Business	
BUS 312	Principles of Accounting I	
BUS 324	Business Communication	
BUS 334	Business Law I	
BUS 350	Current Practices in Business Technology	
BUS 360	Principles of Management	
Total required credit hours in Professional Education		28
OEC 301	Principles of Occupational Education	3
DED 410	Methods of Teaching Business Subjects	3
DED 415	Student Teaching	12
EDF 303	Educational Psychology	3
OEC 302	Curriculum and Evaluation in Occupational Education	3
OEC 303	Methods and Materials in Occupational Education	1
EDF 403	Historical & Philosophical Forces S.E.	3
Electives in Business		15
Physical Education		2
TOTAL REQUIREMENTS		123

BUSINESS STUDIES (0430)

Offered by the Business Department
Bachelor of Science in Special Studies degree
granted
(HEGIS 4999)

Dr. Mary A. Davis, Chairperson
Chase Hall 306/878-4239

This degree program prepares students for management and leadership roles in business, public, and non-profit organizations. During the first two years of the program students acquire a foundation in accounting, economics, and computers, as well as in the arts, humanities, and social and natural sciences. The last two years are devoted to upper-division courses in the business areas of marketing, management, human resources, law, finance, and a capstone course in business strategy. The program permits students to take business electives in the areas of marketing and management.

Admission Requirements: Transfer students are accepted into the major on a competitive basis. No freshmen are accepted directly into the major. Students seeking admittance into the business major must have satisfactorily completed the English composition requirement, the basic mathematics requirement, BUS 312 - Principles of Accounting I, CIS 101 - Computer Fundamentals, and ECO 201 - Principles of Macroeconomics or ECO 202 - Principles of Microeconomics and have a cumulative average of at least 2.25. Satisfactory completion is defined as a "C" grade or better.

Transfer students must take at least 12 hours in the department.

General Education Requirements		60
Total required credit hours in Business		42
A. REQUIRED FOUNDATION COURSES (18 cr.)		
ECO 201	Principles of Macroeconomics	
ECO 202	Principles of Microeconomics	
CIS 101	Computer Fundamentals	
ECO 305	Statistics for Economics or MAT 111 Elementary Probability and Statistics	
BUS 312	Principles of Accounting I	
BUS 313	Principles of Accounting II	
B. BUSINESS CORE REQUIREMENTS (18 cr.)		
BUS 320	Principles of Marketing	
BUS 325	Human Resources Management	
BUS 334	Business Law I	
BUS 360	Principles of Management	
BUS 430	Business Strategy	
ECO 314	Corporation Finance	
C. BUSINESS ELECTIVES (6 cr.)		
Electives		19
Physical Education		2
TOTAL REQUIREMENTS		123

CHEMISTRY (0726)

Offered by the Chemistry Department
Bachelor of Arts degree granted
(HEGIS 1905)

Dr. Edward M. Schulman, Chairperson
Science Building 313/878-5204

Chemistry is a program of professional study whose content has been approved by the American Chemical Society. Graduates of this program are fully prepared to assume entry-level positions as chemists with industrial or governmental laboratories or to begin more specialized programs of study at the graduate level.

Special Admission Requirements: None at the freshman level. Transfer students from two-year colleges should have earned credit for courses equivalent to CHE 111-112, 201-202, 201L-202L, 301, MAT 161, 162, 263, and PHY 111-112 in order to avoid possible delays in the completion of the degree program.

General Education Requirements 60

Total required credit hours in Chemistry 42

A. REQUIRED COURSES

CHE 111-112	Fundamentals of Chemistry I-II
CHE 201-202	Organic Chemistry I-II (lectures)
CHE 201L-202L	Organic Chemistry I-II (labs)
CHE 301	Analytical Chemistry
CHE 305-306	Physical Chemistry I-II (lectures)
CHE 307-308	Physical Chemistry I-II (labs)
CHE 310	Literature of Chemistry
CHE 400	Inorganic Chemistry
CHE 401	Biochemistry
CHE 403	Instrumental Analysis

In addition to the above courses, any student who wishes to meet American Chemical Society minimum certification requirements must complete at least three semester hours of credit in a **laboratory-based** CHE 495 (Project) during the senior year.

TRANSFER STUDENTS must complete a minimum of 10 credit hours in chemistry at Buffalo State. Chemistry courses taken elsewhere may be substituted for similar courses at Buffalo State *only* if they have the same or equivalent prerequisites. Chemistry courses not meeting this criterion may be transferred as elective credit.

B. REQUIRED CREDIT HOURS IN OTHER FIELDS*:

MAT 161-162, 263	Calculus I-II, III
PHY 111-112	University Physics I-II

*Note: These credits may be applied toward the 60 hour-general education requirement listed above.

Electives 19

Foreign Language Requirement (General Education) 0-12

Physical Education 2

TOTAL REQUIREMENTS 123

CHEMISTRY 7-12 (Secondary Education) (0632)

Offered by the Chemistry Department
Bachelor of Science (Education) degree granted
(HEGIS 1905.01) NCATE Accredited

Dr. Edward M. Schulman, Chairperson
Science Building 313/878-5204

The secondary education major in chemistry is a program of professional study whose graduates are prepared to assume positions as teachers of chemistry and/or general science in grades 7-12. Successful completion of this program leads to provisional certification by the New York State Department of Education. Permanent certification is earned by completing a master's degree in a related area and two years of teaching experience at the secondary level.

Special Admission Requirements: None at the freshman level. Transfer students from two-year colleges should have earned credit for courses equivalent to CHE 111-112, 201-202, 201L-202L, 301, MAT 161, 162, 263, and PHY 111-112 in order to avoid possible delays in the completion of the degree program.

General Education Requirements 60

Total required credit hours in Chemistry 31

A. REQUIRED COURSES:

CHE 111-112	Fundamentals of Chemistry I-II
CHE 201-202	Organic Chemistry I-II (lectures)
CHE 201L-202L	Organic Chemistry I-II (labs)
CHE 301	Analytical Chemistry
CHE 305-306	Physical Chemistry I-II (lectures)
CHE 307-308	Physical Chemistry I-II (labs)
	Chemistry Elective (3)

TRANSFER STUDENTS must complete a minimum of 10 credit hours in Chemistry at Buffalo State. Chemistry courses taken elsewhere may be substituted for similar courses at Buffalo State *only* if they have the same or equivalent prerequisites. Chemistry courses not meeting this criterion may be transferred as elective credit.

Total required credit hours in Professional Education 30

A. REQUIRED COURSES — PROFESSIONAL EDUCATION

SED 200	Field Experience: Secondary Education and Related Courses
EDF 303	Educational Psychology
EDF 403	Historical and Philosophical Forces Influencing Secondary Education
EDU 416	Teaching Reading in Secondary Schools
SED 307	Techniques for Teaching Laboratory Activities in the Secondary Science Classroom
SED 308	Methods and Materials in Teaching Secondary School Science
SED 408	Practice Teaching Science in the Secondary School

B. REQUIRED CREDIT HOURS IN OTHER FIELDS¹

BIO 115-116 ^{2,3}	Botany-Zoology
MAT 161-162, 263 ^{2,3}	Calculus I-II, III
PHY 111-112 ^{2,3}	University Physics I-II
	Two semesters of geoscience ^{2,3}
	Two semesters of a foreign language ^{2,3}

¹These credits may be applied toward the 60-hour general education requirement listed above.

²Required for provisional certification.

³Required for graduation.

Electives 0

Physical Education 2

TOTAL REQUIREMENTS 123

COMPUTER INFORMATION SYSTEMS (0825)

Offered by the Computer Information Systems Department
Bachelor of Science degree granted (HEGIS 0702)

William C. Schultz, Chairperson
Chase Hall 202/878-5528

Changes are contemplated in the computer information systems program. Contact the office of the chairperson or Admissions Office, 878-5511 for current information. The computer information systems program is designed to prepare students for entry-level positions (programmer, systems analyst) in the computer field, and to provide them with the technical knowledge and managerial skills necessary for a wide range of subsequent career paths. There is a growing demand in all sectors for individuals with this combination of capabilities. This program was developed with the cooperation of employers and data processing professionals, and unlike a computer science program its emphasis is on commercial applications of computers.

Admission Requirements: Transfer students holding the A.S. degree or A.A.S. degree in a parallel area are accepted directly into the major on a competitive basis. No freshmen are accepted directly into the major. Students seeking admittance into the CIS major must provide evidence of satisfactorily completing CIS 151, Computer Based Information Processing I. Satisfactory completion is defined as a "C" grade or better.

General Education Requirements60

Total required credit hours in Computer Information Systems42

A. REQUIRED COURSES (33 cr.)

CIS 151	Computer Based Information Processing I
CIS 251	Computer Based Information Processing II
CIS 311	Operation Research with FORTRAN
CIS 315	Computer Organization
CIS 350	Assembly Language Programming
CIS 370	Systems Analysis & Design
CIS 405	Comprehensive COBOL Programming
CIS 410	Computer Operating Systems
CIS 411	Database Systems
CIS 442	Advanced Systems Applications
CIS 470	Data Communications

B. ELECTIVES (9 cr.)

CIS 214	Interactive Computing
CIS 260	Data Structures*
CIS 318	Simulation and Modeling
CIS 351	Structured Programming*
CIS 380	Microcomputer Applications
CIS 390	Computer Graphics
CIS 420	Data Base Management Systems*
CIS 425	Comparative Computer Languages*
CIS 430	Applied COBOL*
CIS 435	Computer Seminar
CIS 450	Advanced Assembly Language Programming*
CIS 481	C Language Programming*
CIS 488	Internship

*Restricted Elective - At least three of the nine hours of major electives must come from the restricted electives designated by the asterisk. Certain sections of CIS 435 may also fill this requirement.

C. ADDITIONAL REQUIREMENTS

- A minimum of 21 credits, including at least three credits of restricted elective, must be completed in the department.
- Proficiency (as demonstrated by a passing grade in a programming course) in three different programming languages.

Electives19

Physical Education2

TOTAL REQUIREMENTS123

CONSUMER AND FAMILY STUDIES (Fashion Technology) (0401)

Offered by the Nutrition and Food Science Department
Bachelor of Science degree granted (HEGIS 1304)

Ellen M. DeWind, Acting Chairperson
Caudell Hall 106/878-5704/5913

The fashion technology program is designed to prepare graduates to work in various segments of the fashion industry such as textiles, design, apparel production, testing laboratories, fashion merchandising, and private governmental agencies that are involved in setting standards for textile/apparel safety and performance. Students in fashion technology may apply, through the department's visiting students program, to spend a semester or a year studying their specialty at the Fashion Institute of Technology in New York City's garment district. In addition, majors are afforded the opportunity to see the fashion industry in action during freshman/sophomore trips to Toronto, Ontario, and junior/senior trips to New York City. Local and area museums and businesses are also used for firsthand experience throughout the four-year program.

Specialty centers associated with the program include an industrial production center with a modern CAD-CAM system, a Center for Clothing for the Disabled, and the Historic Costumes Resource Center.

General Education Requirements60

Total required credit hours in Fashion Technology42

REQUIRED CORE (27 cr.)

FST 108	Fashion Fundamentals
FST 206	Introduction to Textiles
FST 208	Visual Design for the Fashion Industry
FST 336	Textile Evaluation
FST 357	Contemporary Fashion Analysis
FST 410	Fundamentals of Apparel Production
FST 411	Apparel Technology I CAM
or	
FST 412	Apparel Technology II CAD
FST 447	Costume Through the Ages
or	
FST 448	History of Western Dress
FST 450	Apparel/Textile/Fashion Industry

SELECT ONE CONCENTRATION (15 cr.)

REQUIRED COURSES FOR APPAREL DESIGN

FST 326	Apparel Design I Flat Pattern
FST 327	Apparel Design II Advanced Patternmaking
FST 328	Apparel Design III Draping
FST 303	Fashion Illustration
FST 109	Design Room Techniques

REQUIRED COURSES FOR FASHION MERCHANDISING

FST 340	Introduction to Fashion Merchandising
FST 434	Principles and Practices in Fashion Buying and Merchandising
BUS 117	Introduction to Retailing
Electives selected by advisement (6 credits)	

Electives19

Physical Education2

TOTAL REQUIREMENTS123

CRIMINALISTICS (0772)

Offered by the Chemistry Department
Bachelor of Science degree granted
(HEGIS 2209)

Dr. Edward M. Schulman, Chairperson
Science Building 313/878-5204

Criminalistics is a program of professional study whose graduates are prepared to assume entry-level positions as forensic chemists in police laboratories at the local, state, or federal levels.

Special Admission Requirements: None at the freshman level. Transfer students from two-year colleges should have earned credit for courses equivalent to CHE 111-112 and CRJ 101 and 201 in order to avoid possible delay in the completion of the degree program.

General Education Requirements 60

Total required credit hours in Chemistry 30

CHE 111-112	Fundamentals of Chemistry I-II
CHE 301	Analytical Chemistry
CHE 321	Principles of Organic Chemistry
CHE 322	Biological Chemistry
CHE 403	Instrumental Analysis
CHE 412	Internship
	Chemistry Elective (3)

TRANSFER STUDENTS must complete a minimum of 10 credit hours in chemistry at Buffalo State. Chemistry courses taken elsewhere may be substituted for similar courses at Buffalo State *only* if they have the same equivalent prerequisites. Chemistry courses not meeting this criterion may be transferred as elective credit.

Total required credit hours in Criminal Justice 12

CRJ 101	Introduction to Criminal Justice
CRJ 201	Criminal Law and Procedure
CRJ 315	Research Design in Criminal Justice
CRJ 317	U.S. Constitution and Civil Liberties

Electives 19

Physical Education 2

TOTAL REQUIREMENTS 123

CRIMINAL JUSTICE (0771)

Offered by the Criminal Justice Department
Bachelor of Science degree granted
(HEGIS 2105)

Dr. John A. Conley, Chairperson
Classroom Building HC 114/878-4517

Criminal justice is a multi-disciplinary academic program which examines the characteristics and operations of the criminal justice system and relationships between crime and crime control within the context of a democratic society. The program is specifically designed to explore social, cultural, political, and organizational influences on criminal justice policies and operations from both theoretical and real-world perspectives.

Admission Requirements: 2.5 GPA or above.

A departmental honors program is also available. Students should contact the department for additional information.

General Education Requirements 60

Total required credit hours in Criminal Justice 42

NOTES:

1. No transfer students may take lower division courses in the major without permission of the department chairperson.
2. Economics 305, Psychology 306, Mathematics 111 or an approved statistics course is a prerequisite for CRJ 315.
3. No more than six credit hours may be taken in any one field for use in Section "C" of the major.
4. No more than one 499 and/or 495 may be used in the major and none may be used in the major if taken prior to satisfactory completion of CRJ 315 without special permission (written) of the department.
5. CRJ 495 and CRJ 499 require senior class standing and a Buffalo State College cumulative grade point average of 3.0 or greater.

Criminal Justice (Continued)

REQUIRED COURSES (27 cr.)

A. CORE COURSES (15 cr.)

CRJ 101	Introduction to Criminal Justice
CRJ 203	Crime, Ideology, and the Administration of Justice
CRJ 315	Research Methods in Criminal Justice
CRJ 402	Advanced Administration in Criminal Justice
CRJ 470	Advanced Seminar in Criminal Justice

B. SUPPORTING COURSES (12 cr.)

CRJ 201	Criminal Law and Procedure
CRJ 202	The Police Process
CRJ 204	The Correctional Process
CRJ 301	Police Organization and Management
CRJ 302	Community Issues in Criminal Justice
CRJ 305	The Juvenile Justice System
CRJ 306	Probation, Parole, and Community Corrections
CRJ 307	Comparative Criminal Justice Systems
CRJ 317	Constitutional Issues in Criminal Justice

C. ELECTIVE COURSES SELECTED BY ADVISEMENT (15 cr.)

Criminal Justice Electives (6 cr.)

CRJ 316	Field Studies
CRJ 420	Advanced Issues in Punishment and Correction
CRJ 406	Correctional Institutions and Programs
CRJ 408	Pro-Seminar in Criminal Justice
CRJ 409	Advanced Issues in Law Enforcement
CRJ 495	Special Projects
CRJ 499	Independent Study

Behavioral and Social Science Electives (9 cr.)*

ECO 305	Statistics for Economics
ECO 301	Labor Relations
EXE 314	Psychology of Exceptional Individuals
SWK 319	Social Dynamics of Poverty
SWK 320	Organization of Community Services
SWK 419	Social Welfare Policy
HIS 342	English Legal History
HIS 343	American Legal History
PSC 368	Comparative Public Administration
PSY 311	Personality
PSY 325	Social Behavior
PSY 411	Abnormal Psychology
PHI 102	Introduction to Moral and Social Philosophy
PHI 301	Political Philosophy
PHI 304	Philosophy of Law
PHI 323	Moral Issues
SOC 330	Social Psychology
SOC 350	Power, Class and Inequality
SOC 351	Sociology of Race and Ethnicity
SOC 380	Sociology of Crime
SOC 382	Sociology of Law
SOC 383	Sociology of Punishment and Corrections
SOC 390	Juvenile Delinquency
SOC 391	Sociology of Addiction

*This list is being revised. Contact adviser for current list.

Electives 19

Physical Education 2

TOTAL REQUIREMENTS 123

DESIGN (0175)

Offered by the Design Department
Bachelor of Science degree granted
(HEGIS 1009)

Stephen F. Saracino, Chairperson
Upton Hall 212/878-6032

For those students interested in a studio degree with a strong academic component, the Design Department offers the bachelor of science degree with concentrations in ceramic design, fiber design, jewelry design, metal design, woodworking and furniture design, theater design, interior design, and graphic design.

The program provides a strong foundation with drawing, two-dimensional design, three-dimensional design, and design history. Upper-level concentrations equip students with the skills, insights, and self-confidence associated with professional designer/craftspersons. The academic courses offer additional opportunities to minor or to broaden the college experience beyond the studio.

Special Portfolio Requirement: After completion of the foundation studio courses and the introductory course in the concentration a student must submit a portfolio for review by the faculty in the intended concentration. Only students

General Education Requirements 60

Total required credit hours in Design 42

A. FOUNDATION PROGRAM (21 cr.)

DES 101	Introductory Design 2D I
DES 102	Introductory Design 2D II
DES 103	Introductory Design 3D I
DES 104	Introductory Design 3D II
DES 105	Mechanical and Perspective Drawing
DES 215	Introduction to Design History (or THA 317 for theater design)
DES 317	Design in the 20th Century (or THA 318 for theater design)

B. MAJOR CONCENTRATION (with advisement) (21 cr.)

Electives 19

Physical Education 2

TOTAL REQUIREMENTS 123

receiving a positive recommendation may enter the concentration and may continue in upper-level concentration courses.

Note: Transfer students are urged to bring their portfolios to orientation advising to facilitate placement in departmental courses.

The Design Department reserves the

right to retain students' work for official purposes such as exhibitions, catalogs, teaching aids, or for permanent collections.

Students are expected to assume the costs of materials they use in their courses. All studio courses may have an additional instructional charge for materials used in class.

DESIGN (0180)

Offered by the Design Department
Bachelor of Fine Arts degree granted
(HEGIS 1009)

Stephen F. Saracino, Chairperson
Upton Hall 212/878-6032

For those interested in a studio-intensive program, the Design Department offers a bachelor of fine arts degree with concentrations in ceramic design, fiber design, jewelry design, metal design, wood design, interior design, and graphic design.

The program provides a strong foundation with drawing, two-dimensional design, three-dimensional design, color, art history, and design history. Upper-level courses in the concentrations equip students with the skills, insights, self-confidence, and portfolios of mature work expected in the professions or as prerequisites for studies on the MFA level.

General Education Requirements 39

Total required credit hours in Design 73

A. FOUNDATION PROGRAM & GENERAL REQUIREMENTS (37 cr.)

DES 101	Introductory Design 2D I
DES 102	Introductory Design 2D II
DES 103	Introductory Design 3D I
DES 104	Introductory Design 3D II
DES 105	Mechanical and Perspective Drawing
FAR 101	Drawing I
DES 307	Advanced Design (Color)
FAR 250	Art History I
FAR 251	Art History II
DES 215	Introduction to Design History
DES 317	Design in the 20th Century
DES 414	Seminar/Exhibition

B. MAJOR CONCENTRATION (27 cr.)

Design (Continued)

Special Portfolio Requirement: After completion of the foundation studio courses and the introductory course in the concentration, a student must submit a portfolio for review by faculty in the intended concentration. Only students receiving a positive recommendation may enter the concentration and may continue in upper-level concentration courses.

Note: Transfer students are urged to bring their portfolios to orientation advising to facilitate placement in departmental

C. STUDIO ELECTIVES (9 cr.)

Electives 9

Physical Education 2

TOTAL REQUIREMENTS 123

courses.

The Design Department reserves the right to retain students' work for official purposes such as exhibitions, catalogs, teaching aids, or for permanent collections.

Students are expected to assume the costs of materials they use in their courses. All studio courses may have an additional instructional charge for materials used in class.

DIETETICS (0410)

Offered by the Nutrition and
Food Science Department
Bachelor of Science degree granted
(HEGIS 1306)

Ellen M. DeWind, Acting Chairperson
Caudell Hall 106A/878-5913

The coordinated program in dietetics, accredited by the American Dietetic Association, combines theoretical learning with supervised practice during the junior and senior years. The curriculum can be completed in four years if students select the appropriate prerequisite courses in the first two years of college. Graduates are recommended for membership in the American Dietetic Association and are eligible to take the registration examination. Upon successful completion of the examination, graduates become Registered Dietitians.

Admission Requirements: Students, sophomores or later, apply directly to the department in January of each year. The application process includes a personal interview, biographical sketch, various other activities, obtaining a 2.75 grade point average by August 20, and the ability to have completed the following courses by the next fall term: BIO 311, CHE 111, CHE 112, CHE 321, CHE 322, NFS 101, NFS 337, PSY 101, SOC 101. Up to 16 students can be accepted in this program each year. Most likely, more students will apply than can be accepted.

Individuals interested in a non-coordinated generalist dietetics option should contact the Nutrition and Food Science Department. This option is under review for modification or deactivation.

General Education Requirements 60

Total required credit hours in Nutrition and Food Science 31

A. REQUIRED COURSES (31 cr.)

NFS 101	Introductory Food (3 cr.)
NFS 337	Human Nutrition (3 cr.)
NFS 338	Nutrition and the Life Cycle (3 cr.)
NFS 361	Principles of Management in Food Service (3 cr.)
NFS 400	Food Science (4 cr.)
NFS 440	Applied Nutrition I (4 cr.)
NFS 442	Applied Nutrition II (4 cr.)
NFS 443	Applied Nutrition III (4 cr.)
NFS 468	Management of Food Service Operations (3 cr.)

B. To satisfy the supervised practice requirements of the American Dietetic Association, students in the coordinated program are required to take the following courses. These NFS classes may be substituted for all college electives.

NFS 445	Nutritional Care A (3 cr.)
NFS 446	Nutritional Care B (4 cr.)
NFS 447	Nutritional Care C (5 cr.)
NFS 448	Nutritional Care D (5 cr.)
NFS 449	Nutritional Care E (2 cr.)
NFS 450	Senior Practicum in Dietetics (4 cr.)
NFS 451	Specialty Practice (1 cr.)
NFS 471	Experiences in Health Care Food Service Systems (3 cr.)

C. A minimum of 12 credits in the major must be completed in the department.

Required Courses in Other Departments

The American Dietetic Association requires completion of subjects outside nutrition to satisfy academic requirements. Courses meeting these requirements are identified below; they may be taken as electives or used in fulfilling the general education requirements.

BIO 100	Principles of Biology
BIO 210	Bacteriology

Note: Individuals interested in applying to this program must contact the department for application details. These are available by December 1 of each year; completed forms must be returned by January 20. Late applications will not be considered.

(Continued on next page)

Dietetics
(Continued)

BIO 313	Human Anatomy and Physiology	CIS 101	Computer Fundamentals
CHE 111	Fundamentals of Chemistry I	LIB 100	Library Research Methods and Bibliography
CHE 112	Fundamentals of Chemistry II	EDF 303	Educational Psychology
CHE 321	Principles of Organic Chemistry	SOC 330	Social Psychology
CHE 322	Biological Chemistry	PSY 306	Statistics in Psychological Research
PSY 101	Introduction to Psychology		
SOC 100	Introduction to Sociology		

Electives (clinical, other)	43
Physical Education	2
TOTAL REQUIREMENTS	136

EARTH SCIENCE 7-12 (Secondary Education) (0633)

Offered by the Earth Sciences and Science Education Department
Bachelor of Science in Geosciences or Bachelor of Arts in Geology degree granted (HEGIS 1917.01) NCATE Accredited
Dr. Jill K. Singer, Chairperson
Science Building 271/878-6731

The secondary education earth science program leads to New York state Certificates of Qualification for teaching both earth science and general science in grades 7-12. It is not a degree program in itself, but an optional sequence of study which must be combined with either the bachelor of science in geosciences or the bachelor of arts in geology. All degree requirements for these programs must be fulfilled, in addition to those listed here.

General Education Requirements (may be applied either to B.A. or B.S. program)60

Total required credit hours in Geosciences (may be applied to B.A. geology or B.S. geoscience program)41

A. REQUIRED COURSES (35 cr.)

GES 101	Introductory Geology
GES 102	Historical Geology
GES 103	Introductory Geology Lab (1 cr.)
GES 111	General Oceanography
GES 131	Introduction to Astronomy
GES 33*	Astronomy Elective
GES 241	Meteorology
GES 302	Invertebrate Paleontology
GES 304	The Common Rocks and Minerals
GES 307	Geomorphology
GES 308	Structural Geology
GES 405	Geology of North America
GES 495	Project - Oral presentations (1 cr.)

B. ELECTIVES SELECTED BY ADVISEMENT (6 cr.)

Total required credit hours in Professional Education27

SST/SED 200	Field Experience in Secondary Education (required for all secondary education majors)
EDF 303	Educational Psychology (count in General Education category)
EDF 403	Historical and Philosophical Forces Influencing Secondary Education
EDU 416	Teaching Reading in the Secondary Schools
SED 307	Techniques for Teaching Laboratory Activities in the Secondary Science Classroom
SED 308	Methods and Materials in Teaching Secondary School Science
SED 408	Practice Teaching Science in the Secondary School

Credit hours in other fields
(count for Core or General Education credit)

- Two semesters of biology
- Two semesters of chemistry
- Two semesters of physics
- One year of college-level study of a foreign language (or equivalent)

Foreign Language Requirement (B.A. degree only)
(0-12 General Education credits, depending on previous language coursework)

Physical Education	2
TOTAL REQUIREMENTS	123

EARTH SCIENCES (0737)

Offered by the Earth Sciences and Science Education Department
Bachelor of Science degree granted (HEGIS 1917)

Dr. Jill K. Singer, Chairperson
Science Building 271/878-6731

The earth sciences program offers students the opportunity to develop a broad understanding of the earth as a dynamic, interacting system of land, sea, atmosphere, and solar system. The student, in consultation with a faculty adviser, will choose one of the four available concentrations at the completion of nine credit hours in the major. The concentrations, leading in somewhat different career directions, are (1) environmental geosciences, (2) earth sciences (advised for both secondary education earth science candidates and others), (3) geology, and (4) astronomy (a concentration since earth sciences majors may not minor in astronomy).

A departmental honors program is also available. Students should contact the department for additional information.

General Education Requirements 60

Total required credit hours in Earth Sciences 41-42

A. REQUIRED COURSES (26 cr.)

GES 101	Introductory Geology
GES 102	Historical Geology
GES 103	Introductory Geology Laboratory
GES 111	General Oceanography
GES 131	Introductory Astronomy
GES 241	Meteorology
GES 304	The Common Rocks and Minerals
GES 307	Geomorphology
GES 308	Structural Geology
GES 495	Project - Oral Presentations (1 cr.)

B. CONCENTRATIONS (15-16 cr.)**1. Environmental Geosciences Concentration**

GES 223	Environmental Earth Science
GES 404	Field Geology
GES 409	Fluvial Geomorphology
GES 421	Dynamics of Sedimentation

GES upper-level of approved science elective, such as SCI 340 or ENS 410

Students in the Environmental concentration should consider completing the environmental sciences minor. Chemistry 111-112 is strongly advised.

2. Earth Sciences Concentration

GES 302	Invertebrate Paleontology
GES 33*	Astronomy Elective
GES 405	Geology of North America

GES upper-level or approved science electives (6 cr.)

Students pursuing the option to gain earth science and general science certifications (7-12) for junior/senior high school teaching, must also complete other professional requirements. See Earth Science 7-12 (Secondary Education) program in this catalog.

3. Geology Concentration

GES 301	Stratigraphy
GES 302	Invertebrate Paleontology
GES 401	Igneous & Metamorphic Petrology
GES 404	Field Geology
GES 421	Dynamics of Sedimentation
GES 495	Project - Writing a Scientific Proposal (1 cr.)

Students contemplating graduate study are advised that Chemistry 111-112, Mathematics 126-127 (Calculus), and Physics 111-112 are essential to a modern geology (or related) program. These sequences should begin before the graduate school decision is made, since they take time, and since not taking them limits a student's future options.

4. Astronomy Concentration

Five courses selected from:

GES 331	Modern Solar System Astronomy
GES 332	Stellar and Galactic Astronomy
GES 335	Methods of Observational Astronomy
GES 337/SCI 337	Astronomy and the Astronomers to 1650
GES 338/SCI 338	Astronomy and the Astronomers from 1650 to the Present
GES 339	Astronomy and Cosmology
GES 431	Planetarium Seminar

Electives 19-20

Physical Education 2

TOTAL REQUIREMENTS 123

ECONOMICS (0702)

Offered by the Economics and Finance Department
Bachelor of Science degree granted
(HEGIS 2204)

Dr. Alex J. Ratkowski, Chairperson
Classroom Building B207/878-4606

The B.S. degree program in economics is designed to provide a solid foundation in the basic skills and analytical techniques that are necessary to understand changes in the broad economic environment and to be able to formulate decisions as consumers, resource owners, and managerial personnel in business, government, and non-profit organizations. Students in this program are required to choose an area of specialization in either applied economics or financial economics and to complete additional required courses and specialized area electives. Both of the areas of specialization prepare students for careers at entry-level management positions in business, government, and non-profit organizations and also provide excellent preparation for graduate work in business administration, economics, and law.

Admission Requirements: Transfer students or uncommitted students at Buffalo State College desiring to major in this program must have a minimum grade point average of 2.0 on previous college credit.
Transfer Students: Most courses taken at an accredited institution and relevant to the B.S. degree program will be accepted, but the majority of courses applied to the major must be courses completed at Buffalo State College. In most cases, grades for transfer courses will be used in computing the required GPA for admission into the major.

General Education Requirements	60
Total required credit hours in Economics	42

A. REQUIRED COURSES (24 cr.)

ECO 201	Principles of Macroeconomics
ECO 202	Principles of Microeconomics
ECO 305	Statistics for Economics
ECO 307	Intermediate Microeconomics
ECO 308	Intermediate Macroeconomics
ECO 424	Econometrics
BUS 312	Principles of Accounting I
MAT 126	Calculus
	or
MAT 161	Calculus I

In addition, economics majors are required to select one of two areas of specialization (tracks) and to complete additional 6 or 9 hours (depending on the track) of economics.

Track 1 - Applied Economics (6 cr.)

ECO 320	Managerial Economics
ECO 405	History of Economic Thought

Track 2 - Financial Economics (9 cr.)

BUS 313	Principles of Accounting II
ECO 314	Corporation Finance
ISM 101	Introduction to Computer Science

B. SPECIALIZED AREA ELECTIVES (12 or 9 cr.)

(Only three credits of ECO 488, ECO 495, or ECO 499 may be included.)

Track 1 - Applied Economics (12 cr.)

Selected by advisement — 6 hours of electives must be selected from the following policy-designated courses:

ECO 300	Labor Economics
ECO 301	Economics of Labor Relations
ECO 302	Women in the Economy
ECO 304	Money and Banking
ECO 317	Economic Policy: Government and Business
ECO 340	Federal Income Taxation
ECO 350	Public Finance
ECO 355	Economics of Energy and Environment
ECO 360	Economic Analysis of the Law
ECO 400	International Finance
ECO 401	International Trade
ECO 403	Comparative Economic Systems
ECO 404	Economics of Development
ECO 411	Regional Economics
ECO 412	Urban Economics
ECO 488	Internship
ECO 495	Project
ECO 499	Independent Study

Track 2 - Financial Economics (9 cr.)

ECO 304	Money and Banking
ECO 400	International Finance
ECO 414	Investment Management
ECO 415	Cases in Corporation Finance
ECO 416	Advanced Corporation Finance
ECO 488	Internship
ECO 495	Special Project
ECO 499	Independent Study

Electives	19
Physical Education	2
TOTAL REQUIREMENTS	123

ECONOMICS (0704)

Offered by the Economics and Finance Department
Bachelor of Arts degree granted
(HEGIS 2204)

Dr. Alex J. Ratkowski, Chairperson
Classroom Building B207/878-4606

The B.A. degree program in economics is designed to provide a solid foundation in the skills and analytical techniques required both to understand changes in the economic environment and to be able to formulate decisions as consumers, resource owners, and as managerial personnel in business, government, and non-profit organizations. This program is also designed to prepare students to participate, as career professionals and as scholars, in the global economy by providing a strong focus on the international aspects of economics. Students who choose this program are encouraged to complement the international focus of the program by taking additional appropriate courses in history, political science, and geography. In addition to providing preparation for a variety of entry-level management positions in business and government, the program also offers excellent preparation for graduate work in international business, economics, and law.

Admission Requirements: Transfer students or uncommitted students at Buffalo State College desiring to major in this program must have a minimum 2.0 GPA on all previous college credit.

General Education Requirements	60
Total required credit hours in Economics	36

A. REQUIRED COURSES (24 cr.)

ECO 201	Principles of Macroeconomics
ECO 202	Principles of Microeconomics
ECO 305	Economic Statistics
ECO 307	Intermediate Microeconomics
ECO 308	Intermediate Macroeconomics
ECO 400	International Finance
	or
ECO 401	International Trade
ECO 403	Comparative Economic Systems
ECO 405	History of Economic Thought

B. ECONOMICS ELECTIVES SELECTED BY ADVISEMENT (12 cr.)

Only three credits of ECO 488, 495, or 499 may be included.

Electives	13-25
Foreign Language Requirement	0-12
Physical Education	2
TOTAL REQUIREMENTS	123

Note: It is strongly recommended that students who plan to pursue a Ph.D. in economics also complete, as a minimum, MAT 161, MAT 162, and MAT 202.

Transfer Students: Most courses taken at an accredited institution and relevant to the B.A. degree program will be accepted, but the majority of courses applied to the major must be courses completed at Buffalo State College. In most cases, grades for transfer courses will be used in computing the required minimum GPA for admission into the program.

Honors Option for the B.A. Program: An honors designation is available for students who have established high standards of achievement and demonstrated a capacity for independent work. Students should contact the department for information on admission and requirements.

ELECTRICAL ENGINEERING TECHNOLOGY: Electronics (0820)

Offered by the Technology Department
Bachelor of Technology degree granted
(HEGIS 0925) Accredited by TAC/ABET

Dr. Charles A. Beasley, Chairperson
Upton Hall 315/878-6017

Dr. Peter S. Pawlik, Coordinator
Upton Hall 315/878-6017

Electrical engineering technologists (electronics option) are employed in the design, testing, fabrication, and application of solid state circuits and systems (both digital and analog), microwave systems, and con-

General Education Requirements	24
Arts and humanities	6
Written and oral communication	9
Social sciences	9

Total required credit hours in Mathematics and Physical Sciences	24
Mathematics	9
Physics	6
Chemistry	6
Computer science	3

(Continued on next page)

Electrical Engineering Technology (Continued)

trol systems. This includes consumer products such as pocket calculators, stereos, and microwave ovens as well as industrial electronics and computer equipment.

Special Admission Requirements: Although this program is primarily a transfer program for students with an A.A.S. in the technologies, freshmen and sophomores are also admitted.

Total required credit hours in Technical Sciences		18
ENT 300	Analytical Methods for Technologists	
ENT 301	Mechanics I	
ENT 302	Mechanics II	
ENT 331	Electrical Circuits & Devices I	
ENT 332	Electrical Circuits & Devices II	
ENT 313	Computer Methods in Technology	

Total required credit hours in Technical Specialty		30
ENT 341	Electronics	
ENT 342	Networks	
NET 351	Electronic Circuit Analysis and Design I	
ENT 352	Electronic Circuit Analysis and Design II	
ENT 431	Digital Systems I	
ENT 432	Digital Systems II	
ENT 441	Electromagnetic Fields and Waves	
ENT 442	Microwave Techniques	
ENT 461	Control Technology I	
ENT 462	Control Technology II	

Technical Electives	12
Electives	14
Physical Education	2
TOTAL REQUIREMENTS	124

ELECTRICAL ENGINEERING TECHNOLOGY: Power and Machines (0820)

Offered by the Technology Department
Bachelor of Technology degree granted
(HEGIS 0925) Accredited by TAC/ABET

Dr. Charles A. Beasley, Chairperson
Upton Hall 315/878-6017

Dr. Peter S. Pawlik, Coordinator
Upton Hall 315/878-6017

Electrical engineering technologists (power and machines option) are employed in the design, testing, manufacture and application of electrical machinery, electrical power systems, and control systems. They are diversified individuals who can fill the many industrial positions which require a knowledge of both mechanical and electrical technology.

Special Admission Requirements: Although this is primarily a transfer program for students with an A.A.S. in the technologies, freshmen and sophomores are also admitted.

General Education Requirements		24
Arts and humanities	6	
Written and oral communications	9	
Social sciences	9	

Total required credit hours in Mathematics and Physical Sciences		24
Mathematics	9	
Physics	6	
Chemistry	6	
Computer sciences	3	

Total required credit hours in Technical Sciences		18
ENT 300	Analytical Methods for Technologists	
ENT 301	Mechanics I	
ENT 302	Mechanics II	
ENT 331	Electrical Circuits & Devices I	
ENT 332	Electrical Circuits & Devices II	
ENT 313	Computer Methods in Technology	

Total required credit hours in Technical Specialty		36
TEC 101	Technical Drawing	
ENT 311	Thermodynamics	
ENT 312	Fluid Mechanics	
ENT 341	Electronics	
ENT 342	Networks	
ENT 371	Electro-Mechanical Machines	

Electrical Engineering Technology (Continued)

ENT 431	Digital Systems I
ENT 432	Digital Systems II
ENT 461	Control Technology I
ENT 462	Control Technology II
ENT 471	Electrical Power Systems I
ENT 472	Electrical Power Systems II

Technical Electives	6
Electives	14
Physical Education	2
TOTAL REQUIREMENTS	124

ELEMENTARY EDUCATION K-6 (0200)

Offered by the Elementary Education
and Reading Department
Bachelor of Science degree granted
(HEGIS 0802) NCATE Accredited

Dr. David E. Day, Chairperson
Bacon Hall 302/878-5916

Requirements

Students considering a major in elementary education may be admitted to pre-elementary education (0201) providing they meet the general admission requirements of the college. However, to be considered for admission into elementary education, a student must have successfully completed at least 45 semester hours, completed the English and math requirements for the college, and have a cumulative grade point average of at least 2.5. (Procedures for admission to Elementary Education are under review and may change before 1994.) Elementary education students may not enroll in EDU 314, EDU 315, EDU 401, or EDU 402 unless they have a cumulative grade point average of at least 2.5. In order to enroll in EDU 401, students must also have satisfied the college policy regarding the New York State Teacher Certification Examination.

Elementary education majors must complete one year of college-level study, or its equivalent, of a language other than English. Normally one year of high school study is equivalent to one semester of college-level work.

Graduates in elementary education will be recommended for New York state provisional certification to teach nursery through grade 6.

Students in the elementary education program are provided with a developmental program of supervised teaching experiences with children of various age levels in different types of schools.

Academic Concentrations

Students enrolled in the elementary education program are required to complete an academic concentration in addition to the professional program requirements. The concentration is designed to broaden a student's academic background. Descriptions of the seven approved concentrations are available in Bacon Hall 303. Students must register their concentration choices with this office. See faculty adviser for further information.

Student Teaching

Eligibility for student teaching is determined and placement is done by the Elementary Education and Reading Department.

Student teaching experiences are provided in cooperating public schools in the college community. It is expected that students will have experiences at the primary and intermediate levels and in urban and suburban schools. Students enrolled in student teaching devote full time to student teaching.

Prior written approval must be obtained from the chairperson of the Elementary Education and Reading Department for a student to enroll for any other college credit work during a student teaching assignment except for EDU 402. All students anticipating a student teaching assignment must show proof of having a test for TB within six months of the

assignment. Results of the test must be filed at the Health Center.

Extended Certification (HEGIS 0804.01-.07)

Students can earn degrees and extend certification to teach in the junior high school grades (7-9) in the areas of English, social studies, mathematics, general science, French, and Spanish. To do so, they will take additional methods and subject matter courses pertaining to their specific area and must complete a situation of student teaching in the selected academic subject in the early secondary grades. Students' advisers will be from the elementary education program. However, students should consult with the coordinator of secondary education for their academic area of the extension.

Transfer Students

Students transferring to the elementary education program as juniors wishing to complete their program in four semesters should plan their schedules of coursework in education carefully. It is important to note that EDU 314 and EDU 315 may not be taken concurrently except in the block option. In order to register for a block, it is required that you have the permission of the instructor and complete an interview.

Block Option

The Elementary Curriculum and APACE options consist of EDU 314 and EDU 315 taken concurrently. They stress an interdisciplinary approach to an integrated curriculum for the elementary school child. For further information contact the instructors.

(Continued on next page)

Elementary Education K-6
(Continued)

ECC Joint Program

In 1990 Buffalo State College and Erie Community College-City Campus entered into a Joint Program in Teacher Preparation for Elementary Education, K-6, in order to facilitate the transfer movement of minority students into the profession. Students must apply to the program during their first term at ECC-City Campus, be interviewed and formally accepted into the Joint Teacher Preparation Program at ECC, follow the prescribed curriculum of the program, maintain continuous enrollment, complete an A.A. degree in liberal arts and sciences, humanities, and social science, and maintain the appropriate GPA as outlined in the collaborative agreement. A bachelor of science in elementary education, K-6, is awarded upon completion. Students considering this unique transfer arrangement should contact the Admissions Office at ECC-City Campus within their first term at the community college, in order to learn of the specific curriculum and entrance requirements of this collaborative program.

General Education Requirements	60
Total required credit hours in Elementary Education	36
*EDF 202 Child Development and Education	3
*EDF 203 School and Society	3
*EDF 302 Educational Psychology: Elementary Education	3
EDU 314 Teaching Reading and Other Language Arts	6
EDU 315 Teaching Social Studies, Science, and Mathematics	6
EDU 401 Practicum in Teaching	12
EDU 402 Seminar in Education	3
*Offered by the Educational Foundations Department.	
Electives	25
Physical Education	2
TOTAL REQUIREMENTS	123

ENGLISH (0705)

Offered by the English Department
Bachelor of Arts degree granted
(HEGIS 1501)

Dr. Theresa F. Platek, Chairperson
Ketchum Hall 326/878-5416

The English program offers four areas of service: the enhancement of writing skills, electives to satisfy general education requirements, a liberal arts English major, and a secondary education major.

General Education Requirements	60
Total required credit hours in English (18 credits must be upper division)	39
A. REQUIRED COURSES (15 cr.)	
ENG 250 Literary Criticism	
ENG 301 Advanced Expository Writing	
ENG 315 Shakespeare I	
or one of ENG 316, 411, 413	
ENG 470 Foundations of Language	
or one of ENG 472, 474	
ENG 490 Senior Seminar	
B. AREA COURSES IN ENGLISH (21 cr.)	
TWO courses in literature of English prior to 1900	6
(Choose from ENG 110, 111, 415, 416, 417, 418, 419, 420, 421)	
TWO courses in literature of the United States, one prior to 1900	6
(Choose from ENG 140, 141, 240, 241, 354, 441)	
TWO courses in literature from other countries	6
(Choose from ENG 130, 131, 132, 230, 331, 332, 334, 335, 336, 338, 341, 345, 432)	
ONE course in contemporary literature	3
(Choose from ENG 252, 253, 350, 351, 422, 454, 455)	
C. ENGLISH ELECTIVE (3 cr.)	
Foreign Language Requirement	0-12
Electives	10-22
Physical Education	2
TOTAL REQUIREMENTS	123

ENGLISH 7-12 (Secondary Education) (0610)

Offered by the English Department
Bachelor of Science (Education) degree granted
(HEGIS 1501.01) NCATE Accredited

Dr. Theresa F. Platek, Chairperson
Ketchum Hall 326/878-5416

General Education Requirements60

Total required credit hours in English39

A. ENGLISH LITERATURE (9 cr.)

Select from THREE areas:

Major literary periods	Recurrent themes
Major fiction writers	Master works
Major poets	Literary-historical overview
Major dramatists	

B. AMERICAN LITERATURE (9 cr.)

Select from THREE areas:

Major literary periods	Recurrent themes
Major fiction writers	Master works
Major poets	Literary-historical overview
Major dramatists	

C. WORLD LITERATURE (3 cr.)

Select from:

European and world literature, including classical and Biblical literature, and literature in translation

D. ADOLESCENT LITERATURE (3 cr.)

E. MINORITY & ETHNIC AMERICAN LITERATURE (3 cr.)

F. ENGLISH LANGUAGE (6 cr.)

Select from history, structure and usage of the English language

G. ADVANCED WRITING (3 cr.)

Select from creative writing, advanced composition, and technical writing

H. SHAKESPEARE (3 cr.)

Total required credit hours in Professional Education30

ENG 200/SED 200	Field Experience: Secondary Education and Related Careers
EDF 303/SED 303	Educational Psychology for Teachers of Adolescents
EDF 403/SED 403	Historical and Philosophical Forces Influencing Secondary Education
EDU 416/SED 416	Teaching Reading in Secondary Schools
ENG 309/SED 309	Teaching and Evaluating Writing
ENG 462/SED 462	Methods and Materials in the Teaching of English
ENG 464/SED 464	Student Teaching in Secondary School English*

*ENG/SED 200, EDF/SED 303, EDU/SED 416, EDF/SED 403, ENG/SED 309, and ENG/SED 462 are prerequisites for ENG/SED 464. One year of college level study of a foreign language or equivalent.

Admission requirements to the Professional Education Block

2.0 grade point average in all BSC courses

2.5 grade point average in English courses with no grade below "C"

To student teach: 2.5 grade point average in the Professional Education courses with no grade below "C".

Physical Education2

TOTAL REQUIREMENTS131

EXCEPTIONAL EDUCATION

Offered by the Exceptional Education
Department

Bachelor of Science in Education degree granted
(HEGIS 0808) NCATE Accredited

Dr. Don Logan, Chairperson
Ketchum Hall 201/878-5611

Undergraduate majors in exceptional education study within a cross-categorical program focusing on the education of newborns to 21-year-olds who have a variety of regular and special instructional needs. Included are students in disability groups traditionally associated with mental retardation, physical/neurological disabilities, and learning and behavioral problems.

Graduates of the program typically obtain positions as teachers in resource rooms, self-contained classrooms, special schools, residential facilities, or as consultant teachers in regular education settings. Those students who choose to pursue provisional certification in both special education and elementary education are particularly well-qualified to work with students with special needs in integrated educational settings. They are recommended for provisional certification* as Teacher of Special Education in New York State.

Dual Certification

Students in exceptional education may opt for completing additional course work to be recommended for provisional certification* as Teacher of Elementary Education (N-6) in New York state, as well as being recommended for provisional certification* as Teacher of Special Education in New York state. Completion of additional requirements for certification in elementary education may require an additional semester or more beyond the baccalaureate. Interested students should contact the Exceptional Education Department for current information.

Fredonia Joint Program

A joint degree program is offered with State University College at Fredonia in which Fredonia students attend Buffalo State for three or more semesters as visiting students to complete course work for certification in special education. Students are awarded the B.S. in special studies from State University College at Fredonia.

General Education Requirements60

Total required credit hours in Exceptional Education36

EXE 100	Nature and Needs of Individuals Who Are Exceptional	3
EXE 245	Community Service With Individuals Who Are Exceptional	3
EXE 306	Behavior Management	3
EXE 320	Evaluating Individuals Who Are Exceptional	3
EXE 330	Individuals With Mild Disabilities	3
EXE 331	Individuals With Moderate/Severe/Multiple Disabilities	3
EXE 340	Curriculum for Individuals With Mild Disabilities	3
EXE 341	Curriculum for Individuals With Moderate/Severe/Multiple Disabilities	3
EXE 385	Observation and Participation in Special Education	6
EXE 420	Practicum in Special Education	6

Total required credit hours in Professional Education27

EDF 202	Child Development and Education	3
EDF 203	School and Society	3
EDF 302	Educational Psychology and Elementary Education	3
EDU 314	Teaching Reading and Language Arts	6
EDU 315	Teaching Science, Social Studies and Math	6
EDU 404	Practicum in Elementary School Teaching	6

Physical Education2

TOTAL REQUIREMENTS125

The department offers two minors for non-exceptional education majors. One, exceptional education, focuses on teaching individuals who are disabled. The other, exceptionality, is an inter-disciplinary minor devoted to studying types of disabilities and theories of remediation.

In addition to fulfilling rigorous academic demands, both majors and minors in the department can expect to spend considerable time in intensive, field-based experiences both on campus and in the surrounding community. Classroom and field-based experiences may be referenced to a particular orientation to the discipline of exceptional education.

*Candidates for provisional teaching certification must pass the New York State Teacher Certification Examination.

Entrance Requirements

Students must provide evidence of potential for success in order to be admitted to the Exceptional Education Department. Entering freshmen demonstrate this potential through a point system established by the department in cooperation with the Admissions Office. The point system includes criteria related to high school average, rank in class, SAT scores, and completion of a regents diploma. Transfer students and matriculated students demonstrate potential for success through the grade point average (GPA) earned in college coursework. Students with 2.6 GPAs (based on a 4.0 system) and above will generally be granted admission to the department. Students with 2.4-2.59 GPAs will be requested to submit supporting documentation such as letters of reference and statements referring to experience and purpose to be considered for admission into the department. Students with GPAs between 2.0 and 2.4 will be considered for admission only following a special review.

FOOD SYSTEMS MANAGEMENT (0432)

Offered by the Nutrition and Food Science Department
Bachelor of Science degree granted
(HEGIS 1307)

Ellen M. DeWind, Acting Chairperson
Caudell Hall 106A/878-5913

The food systems management curriculum prepares graduates for management positions in various aspects of the food service industry. Career opportunities exist for managers in restaurants, hotels, clubs, cafeterias, catering operations, health care, school food service, sales, production, and other components of industry/business.

The program mission is to provide a comprehensive education to the diverse student population in all aspects of food management, to foster an academic environment that enables faculty and students to pursue intellectual excellence, to nurture the highest standards and rationality, to prepare students to be successful in food management careers, to facilitate continuing education of the food service professional, and serve the supporting community by extending appropriate services.

Admission Requirements: Transfer students or uncommitted campus students desiring to major in this program must have a minimum grade point average of 2.0 on previous college credit.

Changes in this program are anticipated. Contact the department office for current requirements.

General Education Requirements 60

Total required credit hours in Food Systems Management 37

A. REQUIRED COURSES (34 cr.)

NFS 101	Introductory Food
NFS 279	Food Management Experience
NFS 334	Contemporary Nutrition
NFS 361	Principles of Management in Food Service
NFS 363	Quantity Food Production
NFS 364	Dining Room Service
NFS 367	Purchasing and Food Cost Accounting
NFS 466	Food Manager and Personnel Perspective
NFS 469	Institutional Foodservice Systems
NFS 470	Legal Aspects of Food Systems Management
NFS 479	Food Management Practicum
NFS 486	Food Systems Management Seminar

B. ELECTIVE IN FOOD SYSTEMS MANAGEMENT (3 cr.)

Courses available include:

NFS 200	Food Service Sanitation
NFS 306	Food Demonstration Techniques
NFS 365	Menu Planning

C. A minimum of 12 credits in the major must be completed in the department.

Electives 24

Physical Education 2

TOTAL REQUIREMENTS 123

FRENCH (Language and Literature) (0709)

Offered by the Foreign Language Department
Bachelor of Arts degree granted
(HEGIS 1102)

Dr. Joseph V. Nardiello, Chairperson
Bishop Hall 122/878-5414

The program is designed to develop the ability to communicate in French and to introduce students to the masterpieces of the literature of France and the most significant aspects of French culture. Students are encouraged, but not required, to study in France for a semester in an approved program.

General Education Requirements 60

Total required credit hours in French 36

A. REQUIRED COURSES (18 cr.)

FRE 301-302	French Conversation and Composition
FRE 307-308-309	Surveys of French Literature
FRE 306	The Civilization of France

B. ELECTIVES SELECTED BY ADVISEMENT (18 cr.)

FRE 303	Translation
FRE 305	Spoken French
FRE 331	French Literature in Translation
FRE 401	Classical French Theater
FRE 403	Nineteenth-Century French Novel
FRE 404	Contemporary French Novel
FRE 410	French Poetry from Baudelaire to Present
FRE 415	Advanced Grammar and Composition
FRE 416	Advanced Conversation and Composition
FRE 417	Business French

*Six hours may be selected by advisement in courses with direct relationship to French studies (comparative literature, history, history of art, philosophy).

Electives 25

Physical Education 2

TOTAL REQUIREMENTS 123

FRENCH 7-12 (Secondary Education) (0651)

Offered by the Foreign Language Department
Bachelor of Science degree granted
(HEGIS 1102.01) NCATE Accredited
Dr. Joseph V. Nardiello, Chairperson
Bishop Hall 122/878-5414

The French-secondary education program enables students to earn provisional certification to teach French in New York state secondary schools. Students develop French language skills and study the structure and sound system of French, the literature and culture of French-speaking peoples, and, in the professional education component, the growth and role of the public school, adolescent development and psychology, and the teaching/learning of foreign languages in school settings. The curriculum includes a series of field experiences.

General Education Requirements 60

Total required credit hours in French 36

A. REQUIRED COURSES (24 cr.)

FRE 301-302 French Conversation and Composition

FRE 305 Spoken French

FRE 306 The Civilization of France

FRE 307-308-309 Surveys of French Literature

FRE 415 Advanced Grammar and Composition

B. ELECTIVES (12 cr.)

French courses at the 300 or 400 level selected by advisement

Total required credit hours in Professional Education 21

EXE 100¹ Nature and Needs of Individuals Who Are Exceptional

FLE/SED 200 Field Experience in Foreign Language Secondary Education

EDF 303¹ Educational Psychology

EDF 403 Historical and Philosophical Forces Influencing Secondary Education

EDU 416 Teaching Reading in Secondary Schools

FLE/SED 405 Methods and Materials for Teaching Foreign Languages in Secondary Schools

FLE/SED 406 Techniques for Teaching and Evaluating Foreign Languages in Middle and Secondary Schools

Total required credit hours in Student Teaching 12²

FLE/SED 407 Student Teaching of Foreign Languages in the Middle/Junior High School

FLE/SED 408 Student Teaching of Foreign Languages in the High School

Physical Education 2

TOTAL REQUIREMENTS 125³

¹Will count as an elective for the GEE requirement: six hours total.

²Both 6-credit courses are required.

³This total assumes appropriate placement on the audit sheet of the six hours of coursework noted above (¹) and meeting the all-college basic skills requirements (English composition and basic mathematics) without need of coursework.

Note: Full acceptance into this program occurs after the student has completed six hours of study in French courses at Buffalo State College with a GPA of 2.5.

GENERAL STUDIES (0556)

Offered by the General Studies
Interdisciplinary Unit
Bachelor of Science degree granted
(HEGIS 4901)
Robert J. Stephen, Director
Twin Rise 100/878-5906

The general studies degree offers a students a choice between two distinct options. Students may earn the degree by joining any two of the college's academic minor programs or they may develop their own program of study by drawing upon the offerings of between two and four different academic fields. The head of the General Studies Interdisciplinary Unit (GSIU) coordinates the guidance and academic advisement which is central to the degree's success. Students in either track also complete all college-wide degree expectations: the general education requirement, writing and mathematics proficiency, physical education, and between 16 and 22 credit hours of unrestricted electives. Both tracks require an integrating research project as a culminating degree experience. The pro-

General Education Requirements 60

Total Required Credit Hours

Track 1 — Two minors 36-42

or

Track 2 - Two to four academic fields
maximum of 6 courses per discipline 36-42

Culminating Project 495 3

Electives 16-22

Physical Education 2

TOTAL REQUIREMENTS 123

gram confers a bachelor of science degree.

Student academic advisement is fundamental to the development and success of a student's program. It is therefore mandatory and conducted on a one-to-one basis. Each student works closely with the coordinator of the GSIU and other appropriate faculty to develop a program suitable to his or her particular interests.

GEOGRAPHY (0715)

Offered by the Geography and
Planning Department
Bachelor of Arts degree granted
(HEGIS 2206)
Elbridge A. Renning Jr., Chairperson
Classroom Building A213/878-6216

Geography is designed to provide students with a basic foundation of the discipline while allowing them to focus on one of two major geographic subject areas. The physical geography stream emphasizes the interaction of man and the natural environment. The human geography stream emphasizes developing an understanding of man's social, cultural, and urban patterns.

A departmental honors program is also available. Students should contact the department for additional information.

General Education Requirements 60

Total required credit hours in Geography 36

A. REQUIRED COURSES (27 cr.)

GEG 101 Man's Natural Environment

GEG 102 Man's Cultural Environment

GEG 305 Principles of Economic Geography

GEG 309 Introduction to Urban Geography

GEG 413 Cartography

GEG 430 Seminar in Geography and Planning Applications

Choose ONE of the following:

GEG 199 Computers in Social Science

CIS 101 Computer Fundamentals

CIS 201 Introduction to Microcomputer Applications

Choose ONE of the following:

ECO 305 Statistics for Economics

MAT 111 Elementary Probability and Statistics

Choose ONE of the following:

GEG 202 Geography of the United States and Canada

GEG 203 Geography of Middle America

GEG 205 Geography of Asia

GEG 351 Geography of Africa

GEG 352 Geography of Europe

GEG 353 Geography of the Soviet Union

(Continued on next page)

Geography (Continued)

In addition, geography majors are required to select one of two areas (tracks) of specialization to complete an additional 9 hours of geography.

B. TRACK 1 - PHYSICAL GEOGRAPHY ELECTIVES — 9 credit hours (to be selected with advisement)

- GEG 303 World Climatology
- GEG 307 Conservation and Environmental Management
- GEG 322 Geography of World Hunger
- GEG 370 Principles of Water Resource Planning
- GEG 375 Principles of Hydrology
- GEG 365 Soils and Soil Management
- GEG 415 Proseminar
- GEG 420 Economic Evaluation of Water Resources
- GEG 425 Computer Mapping and Geographic Information Systems
- GES 307 Geomorphology
- GES 421 Dynamics of Sedimentation
- GES 452 Hydrogeology

TRACK 2 - HUMAN GEOGRAPHY ELECTIVES — 9 credit hours (to be selected with advisement)

- GEG 307 Conservation and Environmental Management
- GEG 310 Geography of Transportation
- GEG 320 Historical Geography of the United States
- GEG 322 Geography of World Hunger
- GEG 350 Comparative Canadian-U.S. Metropolitan Systems
- GEG 357 Geography of Buffalo and the Niagara Frontier
- GEG 405 Advanced Urban Geography
- GEG 409 Geography of Manufacturing
- GEG 415 Proseminar
- GEG 425 Computer Mapping and Geographic Information Systems

Foreign Language Requirement 0-12

Electives 13

Physical Education 2

TOTAL REQUIREMENTS 123

GEOLOGY (0727)

Offered by the Earth Sciences and Science Education Department
Bachelor of Arts degree granted
(HEGIS 1914)

Dr. Jill K. Singer, Chairperson
Science Building 271/878-6731

The geology program offers students a variety of opportunities to investigate the materials that constitute and the processes that shape the earth. Classroom, laboratory, and field work provide a base for careers related to energy, the environment, and the exploration for and production of petroleum and mineral resources.

A departmental honors program is also available. Students should contact the department for additional information.

General Education Requirements 60

Total required credit hours in Geology 40-42

A. REQUIRED COURSES (28-30 cr.)

- GES 101 Introductory Geology
- GES 102 Historical Geology
- GES 103 Introductory Geology Lab (1 cr.)
- GES 301 Stratigraphy
- GES 302 Invertebrate Paleontology
- GES 304 The Common Rocks and Minerals
- GES 308 Structural Geology
- GES 401 Igneous and Metamorphic Petrology

Two semesters of physics (6-8 cr.)

B. ELECTIVES SELECTED BY ADVISEMENT (12 cr.)

Credit will be allowed for any course in geology, astronomy, oceanography or atmospheric science.

Foreign Language Requirement (General Education) 0-12

Electives 19-21

Physical Education 2

TOTAL REQUIREMENTS 123

HEALTH/WellNESS (0739)

Offered by the Health, Physical Education, and Recreation Department
Bachelor of Science degree granted
(HEGIS 0837)

Dr. Donald E. Barr, Chairperson
Houston Gymnasium 205/878-6501

The health/wellness program prepares undergraduate students to assume roles as health/wellness professionals in private businesses and industries, community organizations, and health care organizations. Students will be able to administer effective health/wellness programs in organizations that promote preventive medicine and positive lifestyle habits.

General Education Requirements 60

Total required credit hours in Health/Wellness 40

A. REQUIRED COURSES (32 cr.)

HSC 204	Personal and Community Health
HPR 301	Fundamentals of Kinesiology
HPR 302	Exercise Principles and Techniques
HSC 310	Advanced First Aid and Emergency Care
BIO 313	Human Anatomy and Physiology
NFS 334	Contemporary Nutrition
HPR 401	Assessment and Evaluation in Health/Wellness
HPR 411	Critical Issues in Health/Wellness
HPR 412	Health/Wellness Programs
HPR 488	Internship

B. ONE CONCENTRATION (9 cr.)

1. Concentration in Nutrition

NFS 105	Food and People: Interactions and Issues
NFS 410	Fundamentals of Nutrition Education
HPR 307	Exercise, Fitness, and Nutrition

OR

2. Concentration in Aging

PSY 327	Adult Development and Aging I
SOC 352	The Aged in an Urban Society
HPR 345	Wellness, Fitness and Aging

Electives 21

Physical Education 2

TOTAL REQUIREMENTS 123

HISTORY (0716)

Offered by the History and Social Studies Education Department
Bachelor of Arts degree granted
(HEGIS 2205)

Dr. Monroe Fordham, Chairperson
Classroom Building C205/878-5412

The program ensures both a knowledge and an understanding of the foundations of the development of humankind, stimulates thinking about interaction of ideas, develops facility with written and verbal expression, increases confidence in articulating ideas, and encourages the critical awareness of self so important to an educated individual.

A departmental honors program is also available. Students should contact the department for additional information.

General Education Requirements 60

*Total required credit hours in History 36

Two basic American history courses	6
Two basic European history courses	6
Two Third World history courses	6
Five upper division history courses	15
Seminar in history	3

Foreign Language Requirement (0-12 General-Liberal Credit)

Electives 25

Physical Education 2

TOTAL REQUIREMENTS 123

*History majors entering Buffalo State in the fall of 1985 semester or thereafter may count only two of the HIS 300 or HIS 389 topics courses toward the fulfillment of their history major requirements. No restriction on HIS 300 or HIS 389 topics courses taken as electives.

HUMANITIES (0717)

Offered by the Dean, Faculty of Arts and Humanities
Bachelor of Arts degree granted
(HEGIS 4903)

Dr. Lee Snyder, Coordinator
Bishop Hall 101/878-4439

Humanities is an interdisciplinary program which provides students with a broad liberal arts education and ample opportunity to pursue their own interests.

General Education Requirements 60

Total required credit hours in Humanities 36

Two courses in philosophy	6
Three courses in English	9
Two courses in foreign language	6
Five electives in humanities (philosophy, English and/or foreign language)	15

Foreign Language Requirement 0-12

Electives 13-25

Physical Education 2

TOTAL REQUIREMENTS 123

INDUSTRIAL TECHNOLOGY (0810)

Offered by the Technology Department
Bachelor of Science degree granted
(HEGIS 0925)

Dr. Charles A. Beasley, Chairperson
Upton Hall 315/878-6017

Robert J. Zuercher, Coordinator
Upton Hall 314/878-5504

The industrial technology program prepares students for operations' support and technically oriented management positions in business and industry. It draws upon the principles of management, physical sciences, technology of industry, and liberal arts for the solution to problems involving industrial processes, materials, products and services, and the supervision of the personnel involved. Position titles of graduates include industrial engineer, quality control, production and management engineering, and technical sales/marketing.

Special Admission Requirements:
Although this program is primarily a transfer program for students with an A.A.S. in the technologies, freshmen and sophomores are also admitted. Students may wish to gain teaching certification in addition to industrial qualification by completing the 24-credit professional sequence as shown in the technology education program entry in this catalog.

ITALIAN (Language and Literature) (0711)

Offered by the Foreign Language Department
Bachelor of Arts degree granted
(HEGIS 1104)

Dr. Joseph V. Nardiello, Chairperson
Bishop Hall 122/878-5414

The program is designed to develop the ability to communicate in Italian and to introduce students to the masterpieces of the literature of Italy and the most significant aspects of its culture. Students are encouraged, but not required, to study in Italy for a semester in an approved program. Italian majors may prepare for secondary education certification by fulfilling the professional requirements listed under the French and Spanish bachelor of science (secondary education) programs.

General Education Requirements 60

Total required credit hours in Industrial Technology 42

- A. TECHNOLOGY CORE COURSES (33 cr.)
- TEC 101 Technical Drawing
 - TEC 201 Materials Processing
 - TEC 311 Materials Science and Testing
 - TEC 312 Production Planning and Control
 - TEC 314 Electro-Mechanical Systems
 - TEC 350 Graphic Communications
 - TEC 351 Energy Systems
 - TEC 400 Marketing
 - TEC 401 Management Science
 - TEC 402 Ergonomics
 - TEC 405 Manufacturing Technology
- B. REMAINING CORE COURSES FOR INDUSTRIAL TECHNOLOGY (9 cr.)
- TEC 313 Statistical Quality Control
 - TEC 403 Systems Analysis
 - TEC 465 Safety Management

Electives 19

Physical Education 2

TOTAL REQUIREMENTS 123

Note:
1) To meet NAIT accreditation requirements, students are required to take MAT 124, PHY 107, a chemistry course and one additional math course as part of the 60-hour General Education Requirements.
2) This program is under revision. Call the department for specific requirements.

General Education Requirements 60

Total required credit hours in Italian 36

- A. REQUIRED COURSES (18 cr.)
- ITA 201-202 Intermediate Italian
 - ITA 301-302 Italian Conversation and Composition
 - ITA 307-308 Survey of Italian Literature
- B. ELECTIVES SELECTED BY ADVISEMENT (18 cr.)*
- ITA 306 Contemporary Italian Civilization
 - ITA 401 Dante's Divina Commedia
 - ITA 406 Nineteenth-Century Italian Literature
 - ITA 410 Modern Italian Literature
 - ITA 450 Directed Readings I
 - ITA 451 Directed Readings II
 - ITA 499 Independent Study
- *Six hours may be selected by advisement in courses with direct relationship to Italian studies.

Electives 25

Physical Education 2

TOTAL REQUIREMENTS 123

JOURNALISM (0708)

Offered by the Communication Department
Bachelor of Arts degree granted
(HEGIS 0602)

Dr. W. Richard Whitaker, Chairperson
Bishop Hall 210/878-6008

The journalism program offers two emphases: news/editorial, and broadcast news writing. The program is a mix of practical experience and relevant theory. It is tied closely to the professional community and emphasizes realistic and in-the-field experience. Preparation for careers is provided.

A departmental honors program is also available. Students should contact the department for additional information.

General Education Requirements 60

Total required credit hours in Journalism 33

- A. REQUIRED COURSES (24 or 27 cr.)
- COM 100 Introduction to Mass Communication
 - COM 101 Writing for the Print Media
 - COM 203 Writing for Publication
(not required for broadcast news writing emphasis)
- To enter the journalism major, students must have satisfactorily completed ENG 101 and 102 or equivalent, earned a grade of "C" or better in COM 100, and compiled a cumulative grade point average of 2.6 in the above three courses.
- COM 302 Interviewing
 - COM 305 News Reporting
 - COM 319 News Editing
 - COM 400 Law of Mass Communication
- Choose ONE of the following:
- COM 401 Communication Theory
 - COM 402 Visual and Oral Communication
 - COM 410 History of Mass Communication
- Choose ONE of the following:
- COM 415 Advanced Reporting
 - COM 488 Internship

B. ELECTIVES SELECTED BY ADVISEMENT (6 or 9 cr.)
(Two or three courses selected from among the department's professional courses.)

Foreign Language Requirement 0-12

Electives 16-28

Physical Education 2

TOTAL REQUIREMENTS 123

MATHEMATICS (0718)

Offered by the Mathematics Department
Bachelor of Arts degree granted
(HEGIS 1701)

Dr. Betty J. Krist, Chairperson
Bishop Hall 317/878-5621

This program is identical to the mathematics B.S. program (0719) except for the language requirement.

Special Admission Requirements: High school mathematics through Regents Course III is recommended.

General Education Requirements 60

Total required credit hours in Mathematics 39

A. REQUIRED COURSES (24 cr.)

MAT 161	Calculus I
MAT 162	Calculus II
MAT 263	Calculus III
MAT 141	Computer Mathematics I
MAT 270	Discrete Mathematics
MAT 202	Linear Algebra
MAT 301	Fundamentals of Abstract Algebra
MAT 381	Probability

B. ELECTIVES SELECTED BY ADVISEMENT (15 cr.)

Choose 15 credits from the following list:

MAT 366	Computer Mathematics II
MAT 302	Algebra II
MAT 315	Differential Equations
MAT 316	Intermediate Differential Equations
MAT 370	Applied Networks
MAT 382	Mathematical Statistics
MAT 401	Introduction to Turing Machines and Abstract Computability
MAT 404	Applications of Linear Algebra
MAT 411	Complex Variables
MAT 417	Introduction to Real Analysis I
MAT 461	Numerical Analysis
MAT 490, MAT 495, MAT 499	(with permission of chair)

Foreign Language Requirement 12

Electives 10

Physical Education 2

TOTAL REQUIREMENTS 123

MATHEMATICS (0719)

Offered by the Mathematics Department
Bachelor of Science degree granted
(HEGIS 1701)

Dr. Betty J. Krist, Chairperson
Bishop Hall 317/878-5621

The mathematics B.S. program in the mathematical sciences is directed toward a specific career goal for computer-related government, industrial or business employment. It may also provide a basis for entry into graduate school in mathematics or computer science.

Special Admission Requirements: High school mathematics through Regents Course III is recommended.

General Education Requirements 60

Total required credit hours in Mathematics 39

A. REQUIRED COURSES (24 cr.)

MAT 161	Calculus I
MAT 162	Calculus II
MAT 263	Calculus III
MAT 141	Computer Mathematics I
MAT 270	Discrete Math
MAT 202	Linear Algebra
MAT 301	Fundamentals of Abstract Algebra
MAT 381	Probability

Mathematics
(Continued)

B. ELECTIVES (15 cr.)

Choose 15 credits from the following list:

MAT 366	Computer Mathematics II
MAT 302	Algebra II
MAT 315	Differential Equations
MAT 316	Intermediate Differential Equations
MAT 370	Applied Networks
MAT 382	Mathematical Statistics
MAT 401	Introduction to Turing Machines and Abstract Computability
MAT 404	Applications of Linear Algebra
MAT 411	Complex Variables
MAT 417	Introduction to Real Analysis I
MAT 461	Numerical Analysis
MAT 490, MAT 495, MAT 499	(with permission of chair)

Electives 22

Physical Education 2

TOTAL REQUIREMENTS 123

MATHEMATICS 7-12 (Secondary Education) (0721)

Offered by the Mathematics Department
Bachelor of Science degree granted
(HEGIS 1701.01) NCATE Accredited

Dr. Betty J. Krist, Chairperson
Bishop Hall 317/878-5621

The mathematics B.S. program in secondary education is directed to the specific career goal of teaching. For certification in New York state, the certification program is also required.

Special Admission Requirements: High school mathematics through Regents Course III is recommended.

General Education Requirements 60

Total required credit hours in Mathematics 36

A. REQUIRED COURSES (24 cr.)

MAT 161	Calculus I
MAT 162	Calculus II
MAT 141	Computer Mathematics I
MAT 270	Discrete Mathematics
MAT 263	Calculus III
MAT 202	Linear Algebra or MAT 301
	Fundamentals of Abstract Algebra
MAT 322	Modern Geometry
MAT 381	Probability

B. ELECTIVES (12 cr.)

Choose 12 credits from the following list:

MAT 202	Linear Algebra
MAT 301	Fundamentals of Abstract Algebra
MAT 302	Algebra II
MAT 315	Differential Equations
MAT 351	Number Theory
MAT 366	Computer Mathematics II
MAT 370	Applied Networks
MAT 382	Mathematical Statistics
MAT 401	Introduction to Turing Machines and Abstract Computability
MAT 404	Applications of Linear Algebra
MAT 411	Complex Variables
MAT 417	Introduction to Real Analysis I
MAT 461	Numerical Analysis
MAT 490, MAT 495, MAT 499	(with permission of chair)

Certification Program in Mathematics Education: Provisional certification to teach mathematics in grades 7-12 will be awarded upon successful completion of the following requirements:

1. B.S. or B.A. degree (not necessarily in mathematics).
2. Successful completion of the mathematics component secondary education (36 cr.) of the bachelor of science in mathematics degree program (0721).
3. Successful completion of the following professional requirements (30 cr.):
A. Required Courses (15 cr.)

(Continued on next page)

Mathematics 7-12 (Continued)

SST/SED 200	Field Experience: Secondary Education and Related Careers
EDF 303	Educational Psychology
EDF 403	Historical and Philosophical Forces Influencing Secondary Education
MED 383	Learning and Teaching Problem Solving
MED/SED 308	Methods in the Teaching of Secondary School Mathematics

B. Electives (3 cr.)

Choose one course from the following list:

MED/SED 307	Uses of Technical Aids in the Teaching of Mathematics
EDF 321	The Teacher as Drug Educator
EDF 346	Teenage Sexuality

Electives 25

Physical Education 2

TOTAL REQUIREMENTS 123

The above qualifies a student for the B.S. in mathematics but not for teacher certification. To obtain provisional certification to teach mathematics in grades 7-12, see certification program requirements.

EDF 353	Human Development During Early Adolescence	4. One year of college-level study of a foreign language or equivalent (0-6 cr.).
EDF 410	Philosophy of Education	
EDF 412	Comparative Education	

C. Student Teaching (12 cr.)

MED/SED 407	Practice Teaching Mathe- matics in Junior High/ Middle School
MED/SED 408	Practice Teaching Mathe- matics in Senior High

**MECHANICAL ENGINEERING
TECHNOLOGY (0820)**

Offered by the Technology Department
Bachelor of Technology degree granted
(HEGIS 0925) Accredited by TAC/ABET

Dr. Charles A. Beasley, Chairperson
Upton Hall 315/878-6017

Dr. Peter S. Pawlik, Coordinator
Upton Hall 315/878-6017

Mechanical engineering technologists are employed in the design, testing, manufacture and application of machinery. This includes a broad spectrum of items ranging from consumer goods to industrial equipment.

Special Admission Requirements: Although this program is primarily for students with an A.A.S. in the technologies, freshmen and sophomores are also admitted.

General Education Requirements 24

Arts and humanities	6
Written and oral communications	9
Social sciences	9

Total required credit hours in Mathematics and Physical Sciences 24

Mathematics	9
Physics	6
Chemistry	6
Computer sciences	3

Total required credit hours in Technical Sciences 18

ENT 300	Analytical Methods for Technologists
ENT 301	Mechanics I
ENT 302	Mechanics II
ENT 331	Electrical Circuits & Devices I
ENT 332	Electrical Circuits & Devices II
ENT 313	Computer Methods in Technology

Total required credit hours in Technical Specialty 33

TEC 101	Technical Drawing
TEC 201	Materials Processing
TEC 311	Materials Science & Testing
ENT 303	Kinematics
ENT 311	Thermodynamics
ENT 312	Fluid Mechanics
ENT 401	Stress Analysis
ENT 402	Shock & Vibration Analysis
ENT 411	Heat Transfer
ENT 421	Machine Design I
ENT 422	Machine Design II

(Continued on next page)

**Mechanical Engineering Technology
(Continued)**

Technical Electives 9

Electives 14

Physical Education 2

TOTAL REQUIREMENTS 124**MUSIC (0125)**

Offered by the Performing Arts Department
Bachelor of Arts degree granted
(HEGIS 1005)

Donna E. McCarthy, Chairperson
Rockwell Hall 203/878-6401

The music major is a liberal arts program which provides students with the broad knowledge and skills to enjoy a lifetime of music, integrate music into a career, and, in some cases, perform as a vocalist or instrumentalist. The discipline of music is studied through classical and creative methods in a series of courses called Comprehensive Musicianship which provides the foundations for contemporary and commercial music. Guest artist residencies enhance the student's exposure to professional musicians.

Admission to the major: Students are required to:

1. Pass the admission exam for MUS 130.
2. Audition for and be accepted at the MUS 171 level for applied music lessons.
3. Be able to perform in an assigned music ensemble.

Continuation in the major:

1. Semester and cumulative grade point average of at least 2.5 in all required courses is required.
2. Successful completion of rehearsal, performance, and jury obligations and MUS 373 by the end of semester six.

Note: A 21-credit music minor emphasizing tracks in performance, theory, and composition, or academic enhancement is available. Contact the Performing Arts Department for information.

General Education Requirements 60

Total required credit hours in Music 42**A. REQUIRED COURSES (31 cr.)**

MUS 130	Comprehensive Musicianship I
MUS 131	Comprehensive Musicianship II
MUS 140	Ethnomusicology
MUS 230	Comprehensive Musicianship III
MUS 231	Comprehensive Musicianship IV
MUS 330	Comprehensive Musicianship V
MUS 331	Comprehensive Musicianship VI
Applied Music — 171, 173, 271, 273, 371, 373 Individual lessons in instrumental or vocal music, membership in and successful completion of all rehearsals and performances of at least one assigned, faculty-directed ensemble, and graded performance before a faculty jury is required of all music majors each semester.	

B. ELECTIVES (selected by advisement) (11 cr.)

Foreign Language Requirement 0-12

Electives 7-19

Physical Education 2

TOTAL REQUIREMENTS 123

PAINTING (0155)

Offered by the Fine Arts Department
Bachelor of Fine Arts degree granted
(HEGIS 1002)

Peter J. Sowiski, Chairperson
Upton Hall 502/878-6014

All freshmen and transfer students enter the program in the B.F.A. foundations status. Those students admitted as freshmen or as transfers with less than four semesters in college must be examined for the major prior to their last four semesters in the program. Students admitted as upper-level transfers must be examined for the major at the end of the first semester in the program.

The application for a major is the most critical evaluation in the program. Eligibility will be determined by a two-member faculty committee on the basis of an interview with the student and a review of his or her portfolio. Each B.F.A. student will be required to mount an individual exhibition of his or her work as part of the program requirements. It will be planned and installed with the advice of the student's faculty adviser, but no grade will be assigned.

The Fine Arts Department reserves the right to retain student art work for official purposes such as exhibits, catalogs, or teaching aids.

Special Admission Requirements: Admission to the B.F.A. program is based on an interview and portfolio examination by the Fine Arts Department. The portfolio is to be presented in person at a time stipulated by the department and should contain examples of work which the candidate feels best display his or her abilities.

Students are expected to assume the costs of materials they use in their courses. All studio courses may have an additional instructional charge for materials used in class.

General Education Requirements 36

Total required credit hours in Fine Arts 72

A. REQUIRED COURSES (39 cr.)

FAR 101	Drawing I
FAR 102	Drawing II
FAR 103	Modeling
FAR 210	Introductory Painting
FAR 220	Introductory Photography
FAR 230	Introductory Printmaking
FAR 240	Introductory Sculpture
FAR 250	Art History I
FAR 251	Art History II
FAR 363	Twentieth-Century Art
	Two Art History Electives
FAR 470	Senior Seminar in Fine Arts

B. PAINTING (21 cr.)

Intermediate I	Three Advanced
Intermediate II	Senior Studio

C. ART ELECTIVES (12 cr.)

Free Electives 13

Physical Education 2

TOTAL REQUIREMENTS 123

PHILOSOPHY (0720)

Offered by the Philosophy and Religious Studies
Department
Bachelor of Arts degree granted
(HEGIS 1509)

Dr. George T. Hole, Chairperson
Bishop Hall 233/878-5136

The bachelor of arts in philosophy is basic to a well-rounded liberal arts education, especially in its emphasis on careful and critical thinking. It challenges students to examine their societal and personal beliefs and values so that their life's philosophy is more creatively and responsibly chosen. It is a solid preparation for law school and other specializations requiring a liberal arts background as well as for graduate school in philosophy. The department also offers a minor in religious studies which deepens students' understanding of various religious traditions and their own religious choices.

A departmental honors program is also available. Students should contact the department for additional information.

General Education Requirements 60

Total required credit hours in Philosophy 27

A. REQUIRED COURSES (9 cr.)

PHI 103	Introduction to Logic
or	
PHI 307	Beginning Symbolic Logic
PHI 317	History of Philosophy I: The Greeks
PHI 318	History of Philosophy II: 17th & 18th Century

B. ELECTIVES IN MAJOR FIELD (18 cr.)

PHI 101	Introduction to Philosophy
PHI 102	Introduction to Moral and Social Philosophy
PHI 104	Introduction to the Study of Religion
PHI 105	Introduction to Christian Thought
PHI 121	Introduction to Jewish Thought
PHI 201	Philosophies of Capitalism, Socialism, and Democracy
PHI 204	Philosophy of Religion
PHI 205	Introduction to the Old Testament
PHI 206	Introduction to the New Testament
PHI 207	Philosophy in Literature
PHI 208	Women and Religion
PHI 210	Existentialism
PHI 300	Problems of Philosophy
PHI 301	Political Philosophy
PHI 302	Philosophy of Art and Beauty
PHI 304	Philosophy of Law
PHI 305	Analytic Philosophy I: Philosophy of Language
PHI 306	Writings of John
PHI 308	Philosophy of Love and Sex
PHI 310	History of Ethics
PHI 312	Analytic Philosophy II: Philosophy of Mind
PHI 314	Contemporary Ethical Theories
PHI 319	Medieval Philosophy
PHI 321	World Religions
PHI 323	Moral Issues
PHI 324	Zen Buddhism
PHI 327	Aesthetics and the Arts
PHI 328	Business and Ethics
PHI 329	Contemporary Christian Thought
PHI 331	Religion and Media
PHI 332	Mysticism
PHI 350	Holocaust
PHI 401	Problem in Philosophy Seminar
PHI 402	Seminar in the History of Philosophy
PHI 488	Internship
PHI 495	Project
PHI 499	Independent Study

Foreign Language Requirement 0-12

Electives 22-34

Physical Education 2

TOTAL REQUIREMENTS 123

PHOTOGRAPHY (0160)

Offered by the Fine Arts Department
Bachelor of Fine Arts degree granted
(HEGIS 1011)

Peter J. Sowiski, Chairperson
Upton Hall 502/878-6014

All freshmen and transfer students enter the program in the B.F.A. foundations status. Those students admitted as freshmen or as transfers with less than four semesters in college must be examined for the major prior to their last four semesters in the program. Students admitted as upper-level transfers must be examined for the major at the end of the first semester in the program.

The application for a major is the most critical evaluation in the program. Eligibility will be determined by a two-member faculty committee on the basis of an interview with the student and a review of his or her portfolio. Each B.F.A. student will be required to mount an individual exhibition of his or her work as part of the program requirements. It will be planned and installed with the advice of the student's faculty adviser, but no grade will be assigned.

The Fine Arts Department reserves the right to retain student art work for official purposes such as exhibits, catalogs, or teaching aids.

Special Admission Requirements: Admission to the B.F.A. program is based on an interview and portfolio examination by the Fine Arts Department. The portfolio is to be presented in person at a time stipulated by the department and should contain examples of work which the candidate feels best display his or her abilities.

Students are expected to assume the costs of materials they use in their courses. All studio courses may have an additional instructional charge for materials used in class.

General Education Requirements 36

Total required credit hours in Fine Arts 72

A. REQUIRED COURSES (39 cr.)

FAR 101	Drawing I
FAR 102	Drawing II
FAR 103	Modeling
FAR 210	Introductory Painting
FAR 220	Introductory Photography
FAR 230	Introductory Printmaking
FAR 240	Introductory Sculpture
FAR 250	Art History I
FAR 251	Art History II
FAR 363	Twentieth-Century Art
	Two Art History Electives
FAR 470	Senior Seminar in Fine Arts

B. PHOTOGRAPHY (21 cr.)

Intermediate I	Three Advanced
Intermediate II	Senior Studio

C. ART ELECTIVES (12 cr.)

Free Electives 13

Physical Education 2

TOTAL REQUIREMENTS 123

PHYSICS (0728)

Offered by the Physics Department
Bachelor of Arts degree granted
(HEGIS 1902)

Dr. James Wells, Chairperson
Science Building 271/878-6731

The B.A. in physics program provides a good concentration in physics courses and a broad distribution in the liberal arts. Designed for technical or technically related graduate school studies or employment.

General Education Requirements 60

Total required credit hours in Physics 35

A. REQUIRED COURSES (30 cr.)

PHY 111-112	University Physics I-II (or equivalent) (4-4)
PHY 305	Modern Atomic Physics (4)
PHY 320	Introduction to Theoretical Physics (4)
PHY 410	Advanced Physics Laboratory (taken twice) (2)
PHY 425	Classical Mechanics (4)
PHY 435	Introduction to Quantum Mechanics (4)
PHY 440	Electricity and Magnetism (4)

B. ELECTIVES SELECTED BY ADVISEMENT (5 cr.)

PHY 213	University Physics III (3)
PHY 308	Optics (3)
PHY 310	Intermediate Laboratory (2)
PHY 315	Heat and Thermodynamics (3)
PHY 325	Electronics (3)
PHY 403	X-rays (3)
PHY 412	Physics Seminar (1)
PHY 445	Nuclear Physics (3)
PHY 448	Introduction to Solid State Physics (3)
PHY 495	Project (1-3)
PHY 499	Independent Study (3-6)

Total required credit hours outside of major 9

MAT 161	Analytic Geometry and Calculus I
MAT 162	Analytic Geometry and Calculus II
MAT 263	Analytic Geometry and Calculus III

Foreign Language Requirement (0-12 general education credit) 0-12

Electives 0-12

Physical Education 2

TOTAL REQUIREMENTS 123

PHYSICS (0778)

Offered by the Physics Department
Bachelor of Science degree granted
(HEGIS 1902)

Dr. James Wells, Chairperson
Science Building 271/878-6731

The B.S. physics program gives a broad background in the fundamental concepts and applications of physics. This background is appropriate for graduate school, or scientific employment in physics or physics-related fields.

General Education Requirements 60

Total required credit hours in Physics 42

A. REQUIRED COURSES

PHY 112-112-213	University Physics I-III (11 cr.) (4-4-3)
PHY 305	Modern Atomic Physics (4)
PHY 308	Optics (3)
PHY 315	Heat and Thermodynamics (3)
PHY 320	Introduction to Theoretical Physics (4)
PHY 325	Electronics (3)
PHY 410	Advanced Physics Laboratory (taken twice) (2)
PHY 425	Classical Mechanics (4)
PHY 435	Introduction to Quantum Mechanics (3)
PHY 440	Electricity and Magnetism (3)

(Continued on next page)

Physics (Continued)

A departmental honors program is also available. Students should contact the department for additional information.

Note: Transfer students must take a minimum of eight credit hours of upper division courses, including PHY 410, in the BSC Physics Department.

B. ELECTIVES IN PHYSICS OR MATHEMATICS (0 cr.)

None required. However, additional courses may be selected with advisement to reflect student career goals.

Total required credit hours outside of major12

MAT 161	Analytic Geometry and Calculus I
MAT 162	Analytic Geometry and Calculus II
MAT 263	Analytic Geometry and Calculus III
MAT 315	Differential Equations

Electives7

Physical Education2

TOTAL REQUIREMENTS123

"Three-Two" Physics-Engineering Option

This program offers an ideal combination of basic and applied science. Students in the cooperative (3-2) physics-engineering program attend the college for three years pursuing a liberal arts curriculum in physics. After three years, students transfer to the engineering school and complete the requirements for an engineering degree in two more years.

Students electing this program will complete most requirements of the B.S. degree (0778) program, depending on the engineering school and discipline. The cooperating schools are:

—SUNY at Binghamton: electrical and computer engineering; mechanical engineering

—SUNY at Buffalo: aerospace engineering; civil engineering; electrical and computer engineering; industrial engineering; mechanical engineering

—Clarkson University: chemical engineering; civil and environmental engineering; electrical and computer engineering; mechanical engineering

See department chairperson for further information.

PHYSICS 7-12 (Secondary Education) (0634)

Offered by the Physics Department
Bachelor of Science (Secondary Education)
degree granted
(HEGIS 1902.01) NCATE Accredited

Dr. James Wells, Chairperson
Science Building 271/878-6731

The secondary education physics program leads to a New York state Certificate of Qualification for teaching both physics and general science in grades 7-12.

General Education Requirements60

Total required credit hours in Physics32

PHY 111, 112, 213	University Physics I, II, III (11)
PHY 305	Modern Atomic Physics (4)
PHY 315	Thermodynamics (3)
PHY 320	Theoretical Physics (4)
PHY 325	Electronics (3)
PHY 410	Advanced Laboratory (2)
Physics Electives - 5 hrs. by advisement	

Total required credit hours in Professional Education*18

SST 200	Field Experience: Secondary Education (3)
EDF 303	Educational Psychology (3)
EDF 403	Forces in Secondary Education (3)
EDU 416	Teaching Reading in Secondary Schools (3)
SED 307	Techniques for Teaching Laboratory Activities in Secondary Schools (3)
SED 308	Methods and Materials in Teaching Secondary Science (3)

Physics 7-12 (Continued)

Total required credit hours for Student Teaching Experience12

SED 408 Practice Teaching Science in the Secondary School

Total required credit hours outside of major*36-40

A. 1 year (or equivalent) of foreign language (6)

B. Mathematics (12)

MAT 161	Calculus I (3)
MAT 162	Calculus II (3)
MAT 263	Calculus III (3)
MAT 315	Differential Equations (3)

C. General Science Certification (18-22)

1 year chemistry (6-8)
1 year biology (6-8)
1 year earth science (6)

Physical Education2

TOTAL REQUIREMENTS123

*Some hours may be included in 60-hour General Education Requirement.

POLITICAL SCIENCE (0722)

Offered by the Political Science Department
Bachelor of Arts degree granted
(HEGIS 2207)

Dr. Abdul H. Raoof, Chairperson
Classroom Building B218/878-6116

Political science is the study of government and politics. The major is divided into four areas: American politics, international politics, comparative politics, and political theory. A variety of courses are offered in each of these areas. Minors are offered in both public administration and political science. Students gain understanding of government and politics through a combination of theoretical analysis and practical experience, interning in national, state, or local government or in the Washington Semester Program. Students are prepared for an array of career options in the public and private sectors. The department offers special advisement for graduate study, pre-law, and public administration.

General Education Requirements60

Total required credit hours in Political Science33

(18 of the 33 credits must be in 300- or 400-level courses)

A. REQUIRED COURSES (9 cr.)

PSC 101	Introduction to Government and Politics
PSC 102	Introduction to American Government
PSC 300	Political Analysis

B. POLITICAL SCIENCE DISTRIBUTION REQUIREMENTS

American Government and Politics (3 cr.)

PSC 210	American Presidency
PSC 215	Urban Government
PSC 218	African-American Political Culture
PSC 220	Development of American Constitutional Law
PSC 225	Women in American Politics
PSC 310	American Political Parties
PSC 311	Pressure Politics
PSC 312	Legislative Process
PSC 315	State and Local Government and Politics
PSC 316	Urban Ethnic Politics
PSC 320	U.S. Civil Liberties
PSC 325	Politics of Welfare
PSC 326	Politics and Media
PSC 327	Practical Politics
PSC 360	Public Administration
PSC 364	American Public Policy
PSC 410	Political Behavior and Opinion
PSC 420	Contemporary Constitutional Issues

(Continued on next page)

Political Science (Continued)

International Relations (3 cr.)	
PSC 230	International Relations
PSC 330	American Foreign Policy
PSC 333	African International Relations
PSC 335	International Relations of the Middle East

Comparative Government (3 cr.)	
PSC 240	European Political Systems
PSC 340	Politics of Developing Countries
PSC 345	Politics and History of the Middle East
PSC 348	Government and Politics of the Far East
PSC 368	Comparative Public Administration
PSC 370	Canadian Public Administration

Political Theory and Philosophy (3 cr.)	
PSC 350	Introduction to Legal Thought
PSC 351	History of Political Theory I
PSC 352	History of Political Theory II
PSC 355	American Political Thought
PSC 450	Contemporary Political Thought

C. GENERAL ELECTIVES IN POLITICAL SCIENCE (12 cr.)

Note: Courses in Section B may also count as electives if not used to fulfill distribution requirements.

PSC 103	Great Political Issues
PSC 306	Politics of Energy
PSC 307	Political Alienation
PSC 309	Politics of International Business
PSC 389	Topics in Political Science
PSC 470	Honors Seminar (Pol. Sci. Junior and Senior with 3.00 only)
PSC 495	Project
PSC 497	Washington Semester Program

Foreign Language Requirement (General Education) 0-12

Electives 28

Physical Education 2

TOTAL REQUIREMENTS 123

PRINTMAKING (0165)

Offered by the Fine Arts Department
Bachelor of Fine Arts degree granted
(HEGIS 1009)

Peter J. Sowiski, Chairperson
Upton Hall 502/878-6014

All freshmen and transfer students enter the program in the B.F.A. foundations status. Those students admitted as freshmen or as transfers with less than four semesters in college must be examined for the major prior to their last four semesters in the program. Students admitted as upper-level transfers must be examined for the major

General Education Requirements 36

Total required credit hours in Fine Arts 72

A. REQUIRED COURSES (39 cr.)

FAR 101	Drawing I
FAR 102	Drawing II
FAR 103	Modeling
FAR 210	Introductory Painting
FAR 220	Introductory Photography
FAR 230	Introductory Printmaking
FAR 240	Introductory Sculpture
FAR 250	Art History I

Printmaking (Continued)

at the end of the first semester in the program.

The application for a major is the most critical evaluation in the program. Eligibility will be determined by a two-member faculty committee on the basis of an interview with the student and a review of his or her portfolio. Each B.F.A. student will be required to mount an individual exhibition of his or her work as part of the program requirements. It will be planned and installed with the advice of the student's faculty adviser, but no grade will be assigned.

The Fine Arts Department reserves the right to retain student art work for official purposes such as exhibits, catalogs, or teaching aids.

Special Admission Requirements: Admission to the B.F.A. program is based on an interview and portfolio examination by the

FAR 251	Art History II
FAR 363	Twentieth-Century Art
	Two Art History Electives
FAR 470	Senior Seminar in Fine Arts

B. PRINTMAKING (21 cr.)

Intermediate I	Three Advanced
Intermediate II	Senior Studio

C. ART ELECTIVES (12 cr.)

Free Electives 13

Physical Education 2

TOTAL REQUIREMENTS 123

Fine Arts Department. The portfolio is to be presented in person at a time stipulated by the department and should contain examples of work which the candidate feels best display his or her abilities.

Students are expected to assume the costs of materials they use in their courses. All studio courses may have an additional instructional charge for materials used in class.

PSYCHOLOGY (0723)

Offered by the Psychology Department
Bachelor of Arts degree granted
(HEGIS 2001)

Dr. Jerry F. Cataldo, Chairperson
Classroom Building C312/878-6215

Students in the B.A. program receive a broad and comprehensive background in the science of psychology, which will qualify them to seek entry to graduate or professional schools or to apply for jobs that require a liberal arts training. The department's approach is both theoretical and empirical at all levels. The broad content areas represented include learning, perception, life-span development and aging, animal behavior, industrial-organizational psychology, social processes, and normal and abnormal behavior.

General Education Requirements 60

Total required credit hours in Psychology 33

A. REQUIRED COURSES (12 cr.)

PSY 101	Introduction to Psychology
PSY 306	Statistics in Psychological Research
PSY 450	Experimental Psychology I
PSY 472	Seminar on Psychology

B. ELECTIVES SELECTED BY ADVISEMENT (21 cr.)

Three 400-level psychology courses excluding the above required courses and excluding PSY 488-499 (9 cr.)
An additional 12 hours of Psychology must be taken, with no more than six hours from PSY 205, PSY 380-399, PSY 488-499 (12 cr.)

Foreign Language Requirement (General Education) 0-12

All College Electives 28

Physical Education 2

TOTAL REQUIREMENTS 123

PSYCHOLOGY (0724)

Offered by the Psychology Department
Bachelor of Science degree granted
(HEGIS 2001)

Dr. Jerry F. Cataldo, Chairperson
Classroom Building C312/878-6215

A specialized B.S. degree is offered in the following areas: a) biological psychology; b) clinical psychology; c) environmental psychology; d) industrial/organizational psychology; e) psychology of aging; f) psychology of infancy. The B.S. program is designed for a very limited number of students who seek an intensive preparation in one of the above areas. Emphasis is placed upon intensive practicum work and independent study. Students have the opportunity to work closely with a faculty mentor.

Admission Steps:

1. The student must be enrolled in the B.A. degree program before he or she can apply to the B.S. program.
2. The student must be sponsored by an individual faculty member in the specific B.S. area. The student must be able to complete at least one academic year of supervised work in the B.S. program before graduation.
3. All students sponsored for the B.S. programs must be accepted by the Psychology Department.
4. A student applying for the B.S. must have received at least a grade of B in the first course of the required sequence of B.S. courses.
5. A student applying for the B.S. must be in good academic standing at the college.

General Education Requirements 60

Total required credit hours for specialized B.S. degree in Psychology 36-42

A. REQUIRED COURSES (15 cr.)

PSY 101	Introduction to Psychology
PSY 306	Statistics in Psychological Research
PSY 450	Experimental Psychology I
PSY 472	Seminar on Psychology
PSY 499	Independent Study or
PSY 495	Project or
PSY 488	Internship

In addition, students are required to complete one of the following areas of specialization. (21-27 cr.) Note that at least two courses for each specialization must be at the 400 level (excluding the courses listed above).

Biological Psychology (27 cr.)

PSY 304	Psychology of Learning
PSY 308	Basic Concepts of Perception
PSY 321	Comparative Animal Behavior
PSY 421	Physiological Psychology
PSY 441	Introduction to Neuropsychology

or

PSY 386	Psychology of Stress, Coping and Health
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Elective courses selected by advisement (12 cr.)

Clinical Psychology (27 cr.)

PSY 311	Personality: Theory and Research
PSY 411	Abnormal Psychology
PSY 480	Psychotherapy: Theory, Research and Procedures
PSY 481	Psychological Tests and Measurements

Elective courses selected by advisement (15 cr.)

Environmental Psychology (24 cr.)

PSY 370	Environmental Psychology I
PSY 470	Environmental Psychology II

Elective courses selected by advisement (18 cr.)

Industrial/Organizational Psychology (24 cr.)

PSY 365	Industrial Psychology
PSY 367	Behavior in Organizations
PSY 466	Personnel Psychology

Elective courses selected by advisement (15 cr.)

Psychology of Aging (21 cr.)

PSY 327	Adult Development and Aging I
PSY 355	Life-Span Developmental Psychology
PSY 427	Adult Development and Aging II

Elective courses selected by advisement (12 cr.)

Psychology of Infancy (21 cr.)

PSY 355	Life-Span Developmental Psychology
PSY 415	Competent Infant
PSY 417	The Atypical Infant

Elective courses selected by advisement (12 cr.)

B. ALL COLLEGE ELECTIVES (19-25 cr.)

Biological Psychology	19
Clinical Psychology	19
Environmental Psychology	22
Industrial/Organizational Psychology	22
Psychology of Aging	25
Psychology of Infancy	25

Physical Education 2

TOTAL REQUIREMENTS 123

Honors in Psychology

Departmental honors is for students who are performing exceptionally well in their courses. The honors designation is an adjunct to either the B.A. or B.S. degree with an added emphasis on independent work, and requires that students conduct a comprehensive original research project on their own.

Special Admission Requirements: A 3.5 cumulative average in psychology with a minimum of 24 hours in psychology taken at Buffalo State. (Transferred courses will be considered for credit toward a student's psychology requirements, but the grades from these courses will not be used in computing the cumulative average.) A 3.25 cumulative average in all courses taken at Buffalo State is also a requirement.

General Education Requirements 60

Total required credit hours in Psychology:

B.A. degree	36
B.S. degree	42

Biological Psychology	42
Clinical Psychology	42
Environmental Psychology	42
Industrial/Organizational Psychology	42
Psychology of Aging	42
Psychology of Infancy	42

In addition to the required courses in either the B.A. or B.S. degree programs students must take:
PSY 496 Honors Thesis I 3
PSY 498 Honors Thesis II 3

A 36-hour sequence of courses is required if a student is enrolled in the B.A. degree in psychology. This requirement is identical to that of the B.A. degree except that PSY 496 may be used as a psychology elective and PSY 498 is an additional required course. A 42-hour sequence of courses is required if a student is enrolled in the B.S. degree in psychology. For these students both PSY 496 and PSY 498 are also required, and may be substituted where applicable for an elective course in these programs.

All College Electives (depending on B.A. or B.S. degree) 19-25

Foreign Language Requirement 0-12 (for B.A. program)

Physical Education 2

TOTAL REQUIREMENTS 123

PUBLIC COMMUNICATION (0703)

Offered by the Communication Department
Bachelor of Arts degree granted
(HEGIS 0699)

Dr. W. Richard Whitaker, Chairperson
Bishop Hall 210/878-6008

The public communication major is designed to prepare students for the changing role of public relations in both the private and public sectors of society, where written and spoken communication skills will be required and the understanding of group dynamics is important. Under this program, students will take courses in written and oral communication, specialized courses in public relations and advertising, and optional courses which permit the completion of a program which complements individual career goals.

A departmental honors program is also available. Students should contact the department for additional information.

General Education Requirements 60

Total required credit hours in Public Communication 39

A. REQUIRED COURSES (30 cr.)

COM 100	Introduction to Mass Communication
COM 101	Writing for the Media
COM 205	Experiences in Speech

To enter the public communication major, students must have satisfactorily completed ENG 101 and 102 or equivalent, and have earned a grade of "C" or better with a cumulative grade point average of 2.6 in the above three core courses.

COM 301	Public Relations/Advertising
COM 306	Public Speaking
COM 307	Communication and Group Process
COM 308	Public Relations Writing
COM 322	Layout and Graphics
COM 402	Oral and Visual Communication
COM 418	Principles of Publicity and Copywriting

B. ELECTIVES SELECTED BY ADVISEMENT (9 cr.)

Three courses from those listed below or COM courses approved by department.

COM 201	Broadcast Copywriting
COM 203	Writing for Publication
COM 302	Interviewing
COM 309	Persuasive Speaking
COM 319	Editing
COM 325	Magazine Article Writing
COM 400	Mass Communication Law

	or
COM 430	Broadcast Law
COM 407	Organizational Communication
COM 408	Public Relations Case Studies
COM 422	Mass Media Criticism
COM 488	Internship in Public Communication

Foreign Language Requirement 0-12

Electives 10-22

Physical Education 2

TOTAL REQUIREMENTS 123

SCULPTURE (0170)

Offered by the Fine Arts Department
Bachelor of Fine Arts degree granted
(HEGIS 1002)

Peter J. Sowiski, Chairperson
Upton Hall 502/878-6014

All freshmen and transfer students enter the program in the B.F.A. foundations status. Those students admitted as freshmen or as transfers with less than four semesters in college must be examined for the major prior to their last four semesters in the program. Students admitted as upper-level transfers must be examined for the major at the end of the first semester in the program.

The application for a major is the most critical evaluation in the program. Eligibility will be determined by a two-member faculty committee on the basis of an interview with the student and a review of his or her portfolio. Each B.F.A. student will be required to mount an individual exhibition of his or her work as part of the program requirements. It will be planned and installed with the advice of the student's faculty adviser, but no grade will be assigned.

The Fine Arts Department reserves the right to retain student art work for official purposes such as exhibits, catalogs, or teaching aids.

Special Admission Requirements: Admission to the B.F.A. program is based on an interview and portfolio examination by the Fine Arts Department. The portfolio is to be presented in person at a time stipulated by the department and should contain examples of work which the candidate feels best display his or her abilities.

Students are expected to assume the costs of materials they use in their courses. All studio courses may have an additional instructional charge for materials used in class.

General Education Requirements 36

Total required credit hours in Fine Arts 72

A. REQUIRED COURSES (39 cr.)

FAR 101	Drawing I
FAR 102	Drawing II
FAR 103	Modeling
FAR 210	Introductory Painting
FAR 220	Introductory Photography
FAR 230	Introductory Printmaking
FAR 240	Introductory Sculpture
FAR 250	Art History I
FAR 251	Art History II
FAR 363	Twentieth-Century Art
	Two Art History Electives
FAR 470	Senior Seminar in Fine Arts

B. SCULPTURE (21 cr.)

Intermediate I	Three Advanced
Intermediate II	Senior Studio

C. ART ELECTIVES (12 cr.)

Free Electives 13

Physical Education 2

TOTAL REQUIREMENTS 123

SOCIAL STUDIES 7-12 (0640)

Offered by the History and Social Studies
Education Department
Bachelor of Science degree granted
(HEGIS 2201.01) NCATE Accredited

Dr. Monroe Fordham, Chairperson
Classroom Building C205/878-5412

The social studies education program prepares students for teaching positions at the junior and senior high school levels in those courses that make up the social studies curriculum. The program emphasizes both theoretical foundations and practical experience.

Special Admission Requirements:

Students should contact the coordinator of social studies education, Dr. Kathleen Mallea, Classroom Building C225, 878-6139, for admission requirements.

Admission to secondary social studies major: Minimum 2.5 cumulative GPA; minimum 2.5 GPA in history and social science courses.

Prerequisites for student teaching: See prerequisites for SSE 409.

ECC Joint Program

In 1990 Buffalo State College and Erie Community College-City Campus entered into a Joint Program in Teacher Preparation for Secondary Education/Social Studies in order to facilitate the transfer movement of minority students into the profession. Students must apply to the program during their first term at ECC-City Campus, be interviewed and formally accepted into the Joint Teacher Preparation Program at ECC, follow the prescribed curriculum of the program, maintain continuous enrollment, complete an A.A. degree in liberal arts and sciences, humanities, and social sciences, and maintain the appropriate GPA as outlined in the collaborative agreement. A bachelor of science in social studies 7-12 is granted upon completion. Students considering this unique transfer arrangement should contact the Admissions Office at ECC-City Campus within their first term at the community college, in order to learn of the specific curriculum and entrance requirements of this collaborative program.

General Education Requirements	60
Total required credit hours in Social Sciences	30
Basic U.S. History	6
Basic European History	6
SST Elective	3
Social Science	3
Upper Division Social Science	3
Upper Division Social Science Concentration	9
Social Science Seminar	3
Total required credit hours in Professional Education	18
SST 200 Field Experience: Secondary Education	3
EDF 303 Educational Psychology	3
EDF 403 Historical and Philosophical Forces Influencing Secondary Education	3
EDU 416 Teaching Reading in Secondary Schools	3
SST 303 Techniques for Teaching Social Studies in the Secondary Classroom	3
SSE 309 Methods and Materials in Teaching Secondary Social Studies	3
Total required credit hours in Student Teaching	12
SSE 409 Student Teaching of Social Studies in the Secondary Schools	12
Total required credit hours in other fields	1
Electives	1
Physical Education	2
TOTAL REQUIREMENTS	123

SOCIAL WORK (0435)

Offered by the Social Work Department
Bachelor of Science degree granted
(HEGIS 2104)

Ellen T. Kennedy, Chairperson
Classroom Building C115/878-5705

The social work program prepares students for social work practice at the first professional level and is accredited by the Council on Social Work Education. Consistent with accreditation standards, the social work courses are in the following areas: human behavior in the social environment, social welfare policy and services, intervention methods, research and field instruction.

Social work is an upper-level major that builds on a liberal arts base. (See list of recommended courses.) In addition to grade point average, academic evaluation includes class performance as well as conduct that is ethical and professional. Interested students should contact the department for specific information on these academic standards.

Admission Requirements: Completion of a minimum of 30 credit hours with an overall GPA of 2.5 or better. Applications for the program are available in the department office.

General Education Requirements

The following courses are strongly recommended, to be completed prior to 300-level major courses:

ANT 101	CIS 101	PSC 102
ECO 101	PHI 102	PSY 101
HIS 107	PHI 103	SOC 100

BIO 100 or its equivalent is required for all majors.

Total required credit hours in Social Work

SWK 105	Interpersonal Relations
SWK 220	Introduction to Social Work
SWK 307	Human Behavior and Social Environment I
SWK 308	Human Behavior and Social Environment II
SWK 317	Research in Social Work
SWK 319	Social Dynamics of Poverty
SWK 320	Organization of Community Services
SWK 419	Social Welfare Policy
SWK 422	Interventive Methods I
SWK 423	Interventive Methods II
SWK 493-494	Field Instruction (12 hrs.)

Electives

Physical Education

TOTAL REQUIREMENTS

SOCIOLOGY (0730)

Offered by the Sociology Department
Bachelor of Arts degree granted
(HEGIS 2208)

Dr. Rosalyn A. Lindner, Chairperson
Classroom Building B307/878-5411

Sociology is the study of human beings and their societies. The sociology program leads to a B.A. degree and is designed to provide students with a well-rounded and fundamental knowledge of the discipline. The program provides a foundation both for employment, particularly in social service related areas, as well as for further graduate study. Additionally, its individual courses form important components of other major programs at Buffalo State. The various subdivisions within the department are reflected in the several different concentrations which constitute sociology minors. For further information, contact the department office.

General Education Requirements

Total required credit hours in Sociology

A. REQUIRED COURSES (22 cr.)

SOC 100	Introduction to Sociology
SOC 300	Methods in Social Research
SOC 301	Social Statistics
SOC 330	Social Psychology
or	
SOC 350	Power, Class and Inequality
SOC 400	Foundations of Sociological Thought
SOC 408	Contemporary Sociology Theory
SOC 490	Seminar in Sociology

B. AT LEAST ONE COURSE FROM EACH OF THREE CLUSTERS (9 cr.)

Cluster One:	Social Institutions
SOC 320	Sociology of the Family
SOC 323	Sociology of Education
SOC 360	Sociology of Work
SOC 362	Sociology of Organizations

(Continued on next page)

Sociology (Continued)

Special Requirements: Majors must enroll in SOC 301 before accumulating 75 hours to maintain status as a major.

- Cluster Two: Social Structure & Development
SOC 310 Sociology of Sex Roles
SOC 333 Social Movements
SOC 340 Sociology of the City
SOC 351 Sociology of Race and Ethnicity

- Cluster Three: Deviance
SOC 370 Sociology of Deviant Behavior
SOC 380 Sociology of Crime
SOC 382 Sociology of Law
SOC 390 Juvenile Delinquency

C. SOCIOLOGY ELECTIVES (9 cr.)

At least three additional courses in sociology.

Foreign Language Requirement	0-12
Electives	21
Physical Education	2
TOTAL REQUIREMENTS	123

SOCIOLOGY (0732)

Offered by the Sociology Department
Bachelor of Science degree granted
(HEGIS 2208)

Dr. Rosalyn A. Lindner, Chairperson
Classroom Building B307/878-5411

This B.S. degree program emphasizes applied sociology and prepares students to conduct and administer sociological research for external client organizations such as business and financial institutions, labor organizations, criminal justice units, government agencies, health-related organizations, and a host of social service agencies. The program rests upon a foundation of required core courses stressing research skills and sociological theory. The student selects one of two tracks, either in social structures, which emphasizes the development of applied computer skills, or social development, which requires internship experience in community agencies.

This program is designed for those students who wish to become involved in administering and conducting research for community agencies, groups, and organizations.

Special Requirements: Majors must enroll in SOC 301 before accumulating 75 hours to maintain status as a major.

General Education Requirements 60

Total required credit hours in Sociology 40

A. REQUIRED COURSES (22 cr.)

- SOC 100 Introduction to Sociology
SOC 300 Methods of Social Research
SOC 301 Social Statistics
SOC 400 Foundations of Sociological Thought
or
SOC 408 Contemporary Sociological Theory

Track 1: Social Development Required Courses

- SOC 199 Social Science Computer Applications
SOC 350 Power, Class and Inequality
SOC 415 Population Analysis (Computer)

Track 2: Social Development Required Courses

- SOC 330 Social Psychology
SOC 488 Internship in Sociology (6 hrs.)

B. SPECIALTY ELECTIVES (9 cr.)

Track 1: Social Structure (three of the following)

- SOC 340 Sociology of the City
SOC 351 Sociology of Race and Ethnicity
SOC 361 Industrial Sociology
SOC 362 Sociology of Organizations
SOC 380 Sociology of Crime
SOC 382 Sociology of Law

(Continued on next page)

Sociology
(Continued)

Track 2: Social Development (three of the following)

- SOC 310 Sociology of Sex Roles
SOC 320 Sociology of the Family
SOC 322 Sociology of Childhood and Youth
SOC 331 Sociology of Group Dynamics
SOC 360 Sociology of Work
SOC 370 Sociology of Deviant Behavior
SOC 390 Juvenile Delinquency

C. SOCIOLOGY ELECTIVES (9 cr.)

At least three additional courses in sociology.

Electives	21
Physical Education	2
TOTAL REQUIREMENTS	123

SPANISH (Language and Literature) (0714)

Offered by the Foreign Language Department
Bachelor of Arts degree granted
(HEGIS 1105)

Dr. Joseph V. Nardiello, Chairperson
Bishop Hall 122/878-5414

The program is designed to develop the ability to communicate in Spanish and to introduce students to the masterpieces of the literature of Spanish-speaking countries and the most significant aspects of Hispanic culture. Students are encouraged, but not required, to study in Spain or Latin America for a semester in an approved program.

General Education Requirements 60

Total required credit hours in Spanish 36

A. REQUIRED COURSES (15 cr.)

Majors may select either sequence of courses:

- SPA 301-302 Spanish Conversation and Composition
SPA 306 Civilization of Spain
SPA 307-308 Survey of Spanish Literature

OR

- SPA 301-302 Spanish Conversation and Composition
SPA 309 Civilization of Latin America
SPA 310-311 Survey of Spanish-American Literature

B. ELECTIVES SELECTED BY ADVISEMENT (21 cr.)

(Courses at 300 level or higher)

Electives	25
Physical Education	2
TOTAL REQUIREMENTS	123

SPANISH 7-12 (Secondary Education) (0656)

Offered by the Foreign Language Department
Bachelor of Science degree granted
(HEGIS 1105.01) NCATE Accredited

Dr. Joseph V. Nardiello, Chairperson
Bishop Hall 122/878-5414

The Spanish - secondary education program enables students to earn provisional certification to teach Spanish in New York state secondary schools. Students develop Spanish language skills and study the structure and sound system of Spanish, the literature and culture of Spanish-speaking peoples, and, in the professional education component, the growth and role of the public school, adolescent development and psychology, and the teaching/learning of foreign languages in school settings. The curriculum includes a series of field experiences.

General Education Requirements60

Total required credit hours in Spanish36

A. REQUIRED COURSES (24 cr.)

SPA 301-302 Spanish Conversation and Composition

SPA 305 Spanish Phonetics

SPA 306 The Civilization of Spain

SPA 309 The Civilization of Latin America

SPA 415 Advanced Grammar and Composition

and either

SPA 307-308 Survey of Spanish Literature

or

SPA 310-311 Survey of Spanish-American Literature

B. ELECTIVES (12 cr.)

Spanish courses at the 300 or 400 level selected by advisement (may also include three to six credit hours for SPA 201/204 and/or SPA 202/205 earned by coursework or course challenge)

Total required credit hours in Professional Education21

EXE 100¹ Nature and Needs of Individuals Who Are Exceptional

FLE/SED 200 Field Experience in Foreign Language Secondary Education

EDF 303¹ Educational Psychology

EDF 403 Historical and Philosophical Forces Influencing Secondary Education

EDU 416 Teaching Reading in Secondary Schools

FLE/SED 405 Methods and Materials for Teaching Foreign Languages in Secondary Schools

FLE/SED 406 Techniques for Teaching and Evaluating Foreign Languages in Middle and Secondary Schools

Total required credit hours in Student Teaching12³

FLE/SED 407 Student Teaching of Foreign Languages in the Middle/Junior High School

FLE/SED 408 Student Teaching of Foreign Languages in the Senior High School

Physical Education2

TOTAL REQUIREMENTS125³

¹Will count as an elective for the GEE requirement: six hours total.

²Both 6-credit courses are required.

³This total assumes appropriate placement on the audit sheet of the six hours of coursework noted above (¹) and meeting the all-college basic skills requirements (English composition and basic mathematics) without need of coursework.

Note: Full acceptance into this program occurs after the student has completed six hours of study in Spanish courses at Buffalo State with a GPA of 2.0.

SPEECH LANGUAGE PATHOLOGY (0323)

Offered by the Speech Language Pathology and
Audiology Department
Bachelor of Science in Education degree granted
(HEGIS 0815)

Dr. Chad Nye, Chairperson
Ketchum Hall 208/878-5502

The speech language pathology master's degree program is accredited by the Educational Standards Board of the American Speech-Language-Hearing Association. The undergraduate program prepares students for the provisional teaching certificate to be teachers of the speech and hearing handicapped.

The master's degree is necessary for the permanent teaching certificate as well as for the license to practice speech language pathology and for the Certificate of Clinical Competence (CCC) awarded by the American Speech-Language-Hearing Association. With teaching certification, graduates can be employed by schools to provide speech and language intervention to children from preschool through grade 12 who stutter or have hearing, voice, articulation, or language disorders. With the New York state license, graduates may be employed in hospitals, clinics, rehabilitation agencies, nursing homes, or may establish their own private practice.

Students must demonstrate proficiency in oral communication prior to enrollment in practicum courses. A minimum of 2.8 grade point average on previous college work is required for admission to the program.

General Education Requirements60

Total required credit hours in Speech Language Pathology48

EXE 100 Nature and Needs of Individuals Who Are Exceptional

SLA 302 Clinical Phonetics

SLA 303 Language Acquisition

SLA 304 Anatomy and Physiology of Speech and Hearing Mechanisms

SLA 306 Speech Pathology I

SLA 307 Speech Pathology II

SLA 312 Speech Acoustics and Perception

SLA 325 Clinical Practicum in Communication Disorders

SLA 405 Practicum in Speech and Hearing

SLA 411 Language Diagnosis and Remediation

SLA 414 Introduction to Audiology

SLA 415 Aural Rehabilitation

SLA 416 Stuttering

SLA 424 Organization and Administration of School Speech and Language Programs

SLA 425 Diagnosis of Communication Disorders

Electives Selected by Advisement7

SLA 429 Clinical Activity (free elective)

PSY 306 Statistics in Psychological Research (GEE)

Total required credit hours in Professional Education6

EDF 202 Child Development and Education

EDF 302 Educational Psychology and Elementary Education

Physical Education2

TOTAL REQUIREMENTS123

TECHNOLOGY EDUCATION (0500)

Offered by the Technology Department
Bachelor of Science degree granted
(HEGIS 0839.01) NCATE Accredited

Dr. Charles A. Beasley, Chairperson
Upton Hall 315/878-6017

Robert J. Zuercher, Coordinator
Upton Hall 314, 878-5504

The technology education program prepares students to teach technology and the technological systems utilized in problem solving. The four systems emphasized are construction, manufacturing, communication, and transportation. The program is laboratory oriented, teaching the important role of engineering a product or service through selecting and systemizing knowledge for the solution of a problem. Graduates are recommended for a provisional certificate to teach technology education (formerly industrial arts) in grades K-12.

General Education Requirements60

Total required credit hours in Technology Education63

A. TECHNOLOGY CORE COURSES (33 cr.)

TEC 101	Technical Drawing	
TEC 201	Materials Processing	
TEC 311	Materials Science and Testing	
TEC 312	Production Planning and Control	
TEC 314	Electro-Mechanics	
TEC 350	Graphic Communications	
TEC 351	Energy Systems	
TEC 400	Marketing	
TEC 401	Management Science	
TEC 402	Ergonomics	
TEC 405	Manufacturing Technology	

B. PROFESSIONAL SEQUENCE (24 cr.)

OEC 301	Principles of Occupational Education	3
OEC 302	Curriculum and Evaluation in Occupational Education	3
EDF 303	Educational Psychology	3
TEC 360	Technology Education Methods and Evaluation	3
TED 405	Professional Semester	12

C. TECHNOLOGY CORE ELECTIVES (6 cr.)

Physical Education2

TOTAL REQUIREMENTS125

Note: This program is under revision. Call the department for specific requirements.

THEATER (0115)

Offered by the Performing Arts Department
Bachelor of Arts degree granted
(HEGIS 1506)

Donna E. McCarthy, Chairperson
Rockwell Hall 203/878-6401

The theater program introduces students to all aspects of theater art. The theater season includes both faculty- and student-directed productions presented in Upton Auditorium and the Theater Arts Building. These productions are attended by members of both the college and the area community. Through advisement students may focus their studies in the following areas: acting, directing, technical theater, design, and playwriting. High standards in this program afford a foundation for careers in professional as well as educational theater. A 19-credit minor program in theater is also available.

General Education Requirements60

Total required credit hours in Theater39

A. REQUIRED COURSES (33 cr.)

THA 100, 101, 102	Play Reading	
THA 106	Introduction to Theater Arts	
THA 200	Voice and Diction	
THA 207	Play Production	
THA 226	Acting I	
THA 315	Period Styles for the Theater	
THA 317	History of Theater-Ancient to Renaissance	
THA 318	History of Theater-Renaissance to Modern	
COM 320	Oral Interpretation*	
THA 450	Directing	
THA 496	Seminar in Theater Arts	

*Alternative coursework in Script Analysis is pending.

B. ELECTIVES SELECTED BY ADVISEMENT (6 cr.)

Electives in theater, dance, and music

Foreign Language Requirement0-12

Electives10-22

Physical Education2

TOTAL REQUIREMENTS123

URBAN-REGIONAL ANALYSIS and PLANNING (0738)

Offered by the Geography and Planning Department
Bachelor of Science degree granted (HEGIS 2214)

Elbridge A. Renning Jr., Chairperson
Classroom Building A213/878-6216

Planning is a discipline concerned with effective change and development in a positive and beneficial manner. It has many sub-areas which range from land-use planning to public-service planning. The program at Buffalo State is designed to provide students with a sound, fundamental knowledge of one of two principal planning areas: urban or community planning and environmental planning. Students majoring in the program are encouraged to develop their own, secondary area of interest in planning.

A departmental honors program is also available. Students should contact the department for additional information.

General Education Requirements:

Urban-Regional Planning Track	60
Environmental Planning Track	60

Total required credit hours:

Urban-Regional Planning Track	42
Environmental Planning Track	33-35

Credit hours required by advisement from outside the major:

Urban-Regional Planning Track	0
Environmental Planning Track	7

Total required credit hours in Urban-Regional Analysis and Planning Track ... 42

Total required credit hours in Environmental Planning Track ... 40-42

(This total includes the 7 credit hours from outside the major)

A. REQUIRED COURSES (BOTH TRACKS — URBAN-REGIONAL PLANNING AND ENVIRONMENTAL PLANNING) (24 cr.)

GEG 101	Man's Natural Environment
PLN 315	Introduction to Community Planning
GEG 305	Principles of Economic Geography
PLN 325	Map and Air Photo Interpretation
GEG 430	Seminar in Geography and Planning Applications

Choose ONE of the following:

GEG 199	Computers in Social Science
CIS 101	Computer Fundamentals
CIS 201	Introduction to Microcomputer Applications

Choose ONE of the following:

ECO 305	Statistics for Economics
MAT 111	Elementary Probability and Statistics

Choose ONE of the following:

*SOC 300	Methods in Social Research
PSC 300	Political Analysis

*Prerequisites for this course are waived by the Sociology Department for Urban-Regional Analysis and Planning Majors

In addition, planning majors are required to select one of two areas (tracks) of specialization to complete an additional 18 hours (Urban Planning Track) or 19-21 hours (Environmental Planning Track) of credit.

B. ADDITIONAL REQUIREMENTS:

TRACK 1: Urban-Regional Planning	18
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SPECIALIZED REQUIRED COURSES: 12 credit hours

GEG 309	Introduction to Urban Geography
GEG 330	Land Resource Analysis and Planning
PLN 412	Community Planning Agencies and Issues

Choose ONE of the following:

PLN 415	Seminar in Planning
PLN 380	Neighborhood Revitalization

Urban-Regional Analysis (Continued)

ELECTIVES: 6 credit hours (to be selected with advisement)

GEG 310	Geography of Transportation
GEG 425	Computer Mapping and Geographic Information Systems
PSC 215	Urban Government
ECO 412	Urban Economics
ECO 424	Econometrics
ECO 425	Business and Economic Forecasting
PLN 488	Internship (3 credits maximum)

C. ADDITIONAL REQUIREMENTS:

TRACK 2: Environmental Planning	16-18
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SPECIALIZED REQUIRED COURSES TO BE SELECTED BY ADVISEMENT FROM OUTSIDE THE MAJOR: 7 credit hours

Students in this track must demonstrate college-level competency in General Chemistry AND General Botany. Courses taken at Buffalo State may only be used to satisfy the GEE or the All-College elective requirement.

BIO 115	General Botany (4 credits)
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Choose ONE of the following:

CHE 101	General Chemistry I (3 credits)
CHE 102	General Chemistry II (3 credits)

ELECTIVES: 9 to 11 credit hours (to be selected with advisement)

GEG 370	Principles of Water Resource Planning
GEG 375	Principles of Hydrology
GEG 365	Soils and Soil Management
GEG 420	Economic Evaluation of Water Resources
GEG 425	Computer Mapping and Geographic Information Systems
PLN 415	Seminar in Planning
PLN 488	Internship (3 credits maximum)
GES 421	Dynamics of Sedimentation
GES 452	Hydrogeology
BIO 315	Ecology (4 credits)
BIO 418	Limnology (4 credits)

Electives

Urban-Regional Planning Track	19
Environmental Planning Track	19-21

Physical Education (both tracks)	2
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TOTAL REQUIREMENTS (both tracks)	123
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VOCATIONAL TECHNICAL EDUCATION (0800)

Offered by the Technology Department
Bachelor of Science degree granted and
Certification as a Vocational Teacher
NCATE Accredited

Dr. Charles A. Beasley, Chairperson
Upton Hall 315/878-6017

The program prepares vocational-technical teachers for teaching positions in city high schools, area vocational schools (BOCES), technical institutes, correctional facilities, and community-college technical programs. It provides theoretical and practical preparation in planning, instructing, and managing the learning environment for students who have or will have extensive work experience in a specific trade.

Special Admission Requirements:

1. Verified full-time trade experience: four years with high school diploma; or two years with an A.A.S. degree in the occupational area; or one year with a B.S. degree and 36 semester hours of course work in the occupational area; or a work-study arrangement (see EPOT below).

2. High school diploma or equivalent: High school students interested in entering the program prior to completing the required work experience may apply for the EPOT program (Early Preparation of Occupational Teachers). Applicants must be able to locate a position in their trade. They will take courses in the evening leading to a B.S. degree and teacher certification while earning at and learning their trade. The program takes about five years to complete.

3. Admission review.

4. Trade proficiency verified by a practical and theoretical examination.

General Education Requirements	60
Total required credit hours in Vocational Technical Education	63

A. MAJOR FIELD (30 cr.)

VTE 100 Applied Skill	15
VTE 200 Technical Information	15

B. PROFESSIONAL REQUIREMENTS (30 cr.)

OEC 301 Principles of Occupational Education	3
OEC 302 Curriculum/Evaluation in Occupational Education	3
VTE 302 Course Organization	3
VTE 306 Laboratory Management	3
VTE 404 Methods of Teaching Vocational Technical Subjects	3
VTE 413 Student Teaching and Observation	3
VTE 415 Professional Development Seminar	3
VTE 421 Occupational Education for Individuals With Special Needs	
Electives (six semester hours in either educational foundations, exceptional education, or criminal justice)	6

C. REQUIRED COURSE IN BEHAVIORAL STUDIES (3 cr.)

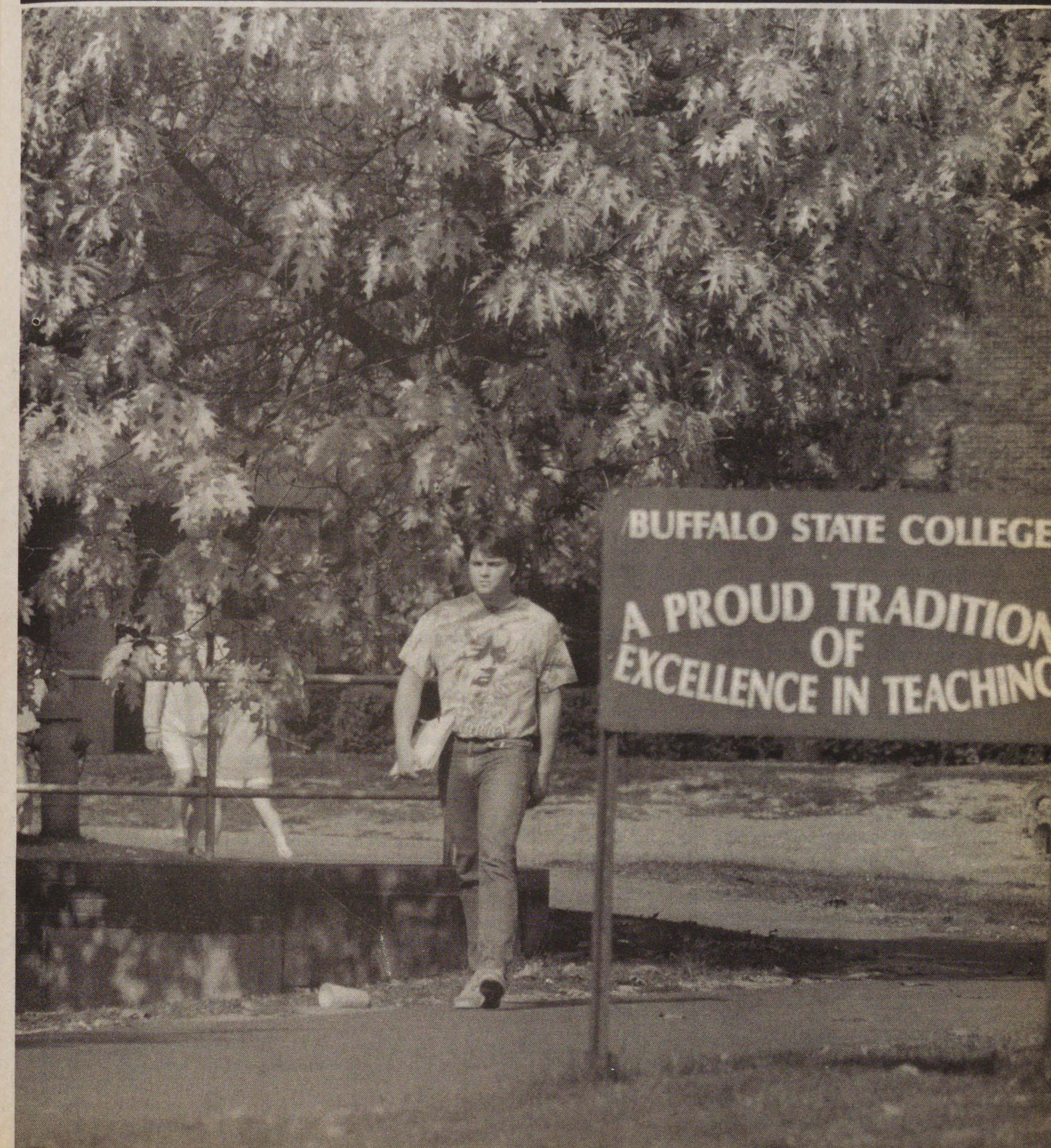
EDF 303 Educational Psychology	3
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Physical Education	2
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TOTAL REQUIREMENTS	125
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5

Course Listings



Course Listings

Course Descriptions

The following section lists and describes each undergraduate course offered for the next two years. Courses are listed alphabetically by prefix. Each description contains important information about the content of the course, when it will be offered, and how it contributes toward satisfying the 60-hour general education requirement.

(A complete explanation of the requirement may be found in the Academic Programs section of the catalog under general requirements for B.A. and B.S. degrees.)

GUIDE TO COURSE LISTINGS

Each description lists in order: the prefix, course number, title, number of credit hours given, number of lecture hours the course meets each week, number of studio/lab hours each week, the term and year the course is scheduled to be offered (F for fall and Sp for spring), 60-hour breadth requirement designation, and course prerequisites.

Whether or not a specific course will be scheduled for a given term is contingent on student enrollment, budget support, and adequate staffing. The descriptions are current as of November 1992.

General Education Requirement Designations: If a course will satisfy a core requirement, it will be designated C followed by a letter identifying the area of the requirement it addresses. A course that satisfies the applied science/technology core requirement will be designated CT. Courses satisfying the arts core requirement will be designated CA. Courses satisfying the humanities core requirement are designated CH, mathematics/science core CM, and social science core CS. Courses that may be included in the 18-hour general education elective category include all courses approved for core credit plus courses marked E, ET, EA, EH, EM, or ES. Courses satisfying the global issues and diversity requirements are designated (G) and (D) respectively.

Course Numbering: The course number is used to indicate the degree of difficulty of each course. Generally 100- and 200-level courses are lower division (for freshmen and sophomores), while 300- and 400-level courses are upper division and often more advanced. Courses designated 097, 098, and 099 may not be used to fulfill degree requirements.

Here's a sample course listing:

DAN 302 MODERN DANCE TECHNIQUE II

3, 1/4; F 93, 94 EA

Prerequisite: DAN 200 or permission of instructor. Designed to develop and strengthen technical dance skills. Fundamental principles of movement in relation to dynamics, rhythm, and space; development of original movement patterns; elementary dance composition, modern dance history.

Here's what it means:

DAN 302

This is a dance course, number 302.

MODERN DANCE TECHNIQUE II

Name of course.

3, 1/4

Number of semester credit hours the course is worth,
Number of lecture hours the class meets per week/
Number of studio or lab hours per week.

F, Sp

If an F or Sp is indicated, the course is offered only during the fall (F) semester or the spring (Sp) semester. If a course carries no designation, it is taught each semester of the regular academic year.

93, 94

This course is offered fall (F) semesters during 1993 and 1994. Some courses will show 1993-95, in which case the course is offered both fall and spring semesters during the 1993-94 and 1994-95 academic years.

EA

This course may be included in the 18-hour general education elective category. See the letter codes under General Education Requirement Designations above.

Prerequisite:

Prerequisites or requirements you must fulfill before registering for a course.

The remainder of the course listing describes what subject matter the course covers.



The following is an explanation of all prefixes:

AAS	African and African-American Studies
ANT	Anthropology
AED	Art Education
ATS	Art Therapy Studies
AEL	Assessment of Experiential Learning
BIO	Biology
BUS	Business
CHE	Chemistry
COM	Communication
CIS	Computer Information Systems
CFS	Consumer and Family Studies
CRS	Creative Studies
CRJ	Criminal Justice
DAN	Dance
DES	Design
DED	Distributive and Business Education
ECO	Economics and Finance
EDU	Education
EDF	Educational Foundations
ENT	Engineering Technology
ENG	English
EXE	Exceptional Education
FAR	Fine Arts
FLA	Foreign Language
FLE	Foreign Language Education
FRE	French
SCI	General Science
SEC	General Science Education
GEG	Geography
GES	Geosciences
GER	German

GRK	Greek
HPR	Health, Physical Education, Recreation
HSC	Health Science
HEB	Hebrew
HIS	History
IAE	Industrial Arts Education
INT	Industrial Technology
ITA	Italian
LAT	Latin
LIB	Library Research
MAT	Mathematics
MED	Mathematics Education
MUS	Music
NFS	Nutrition and Food Science
PAR	Performing Arts
PHI	Philosophy
PHY	Physics
PLA	Planning
POL	Polish
PSC	Political Science
REC	Recreation
RUS	Russian
SAF	Safety Studies
SSE/SST	Social Studies Education
SWK	Social Work
SOC	Sociology
SPA	Spanish
SLA	Speech Language Pathology and Audiology
SWA	Swahili
TEC	Technology
THA	Theater Arts
VTE	Vocational Technical Education

African and African-American Interdisciplinary Studies

Interdisciplinary Minor
See Dr. Anthony Neal for current minor requirements. Political Science Department, Classroom Building 232.

AAS/SWA 101 ELEMENTARY SWAHILI

3, 3/0 F 93, 94 CH
Study the fundamentals of Swahili with emphasis on the spoken language.

AAS/SWA 102 ELEMENTARY SWAHILI

3, 3/0 Sp 94, 95 CH
Prerequisite: AAS 101 or permission of instructor. Emphasis on writing and reading as a continuation of AAS 101.

AAS/SWA 201 INTERMEDIATE SWAHILI

3, 3/0 F 93, 94 EH
Prerequisite: AAS 102 or permission of instructor. Further development of basic skills with emphasis on reading, writing and casual conversation.

AAS/SWA 202 INTERMEDIATE SWAHILI

3, 3/0 Sp 94, 95 EH
Prerequisite: AAS 201 or permission of instructor. Emphasis on casual and formal speaking in Swahili as well as fast translation.

AAS/EDU 221 THE HISTORY OF BLACK EDUCATION IN AMERICA

3, 3/0
An examination of the role of Blacks in the American education system. Relevant information on various changes that have taken place in order to improve or retard education for Blacks. The course will explore approaches for providing meaningful education for Blacks now and in the future.

AAS/EDU 222 THE DEVELOPMENT OF MODERN EDUCATION IN AFRICA

3, 3/0
A phase of study of educational changes in Africa beginning with the colonial era to the present time. One important aspect of the course will be the examination of the effect of these changes on social and political issues in Africa and abroad.

AAS 333 THE AFRO-WEST INDIAN AND SOCIAL CHANGE

3, 3/0
Prerequisite: Permission of instructor. A survey of the principles, concept theories, and studies of social, political, economic, religious, educational, and cultural change in the Afro-West Indian experience. Analysis of reform and revolutionary movements.

ENG 240 AFRO-AMERICAN LITERATURE TO 1940

3, 3/0
Survey of black American slave narratives, poetry, fiction, essays, and drama, noting the influence of the African oral tradition on the black American writer. The Harlem renaissance of the 1920s and its relation to the development of black revolutionary thought will be emphasized.

ENG 241 AFRO-AMERICAN LITERATURE SINCE 1940

3, 3/0
Survey of black revolutionary thought and artistry in such writers as Richard Wright, William Demby, Ralph Ellison, LeRoi Jones, James Baldwin, Don L. Lee, Gwendolyn Brooks, Nikki Giovanni, John Henrik Clarke, and Ed Bullins.

ANT 305 PEOPLES OF AFRICA

3, 3/0 CS
Cross-cultural comparisons of selected societies of sub-Saharan Africa, emphasizing economic conditions, migrations, indigenous states, linguistics, social structure, aesthetics, religion, prehistory, and physical types.

ANT 411 AFRICAN SYSTEMS OF KINSHIP AND MARRIAGE

3, 3/0
Study of the family, kinship, and marriage among the peoples of Africa. Emphasis on the interrelationship of kinship with other aspects of culture.

HIS 322 AFRO-AMERICAN HISTORY

3, 3/0; 1991-93 CS
Heritage of Black Americans; Afro-Americans existence under slavery; their role in influencing historical events; activity in the Civil War period; the freed men during reconstruction; migration to the north and adjustment to urban life; Afro-American leaders, institutions, ideas and their impact on modern America.

AAS/SOC 331 THE BLACK FAMILY IN AMERICA

3, 3/0
Prerequisite: Permission of instructor. An exploratory study of the effects of American social institutions upon black American family life with emphasis on intrafamily relations.

PSC 333 AFRICAN INTERNATIONAL RELATIONS

3, 3/0; Sp 94, 95
This course promises to examine African international politics vis a vis international relations theory, models, and concepts. Included in such an examination would be the following: power, multipolarity, bipolarity, pan-Africanism, North-South debate, approaches to international politics, and the state and international organizations as international actors.

HIS 341 AFRO-AMERICANS AND CIVIL RIGHTS

3, 3/0 ES
A history of the landmark court decisions, laws, and governmental policies in the area of the civil rights of Afro-Americans. The course will examine some of the historic relationship between race, racism, law, and public policy in America. The course will also focus on resistance, protest, and the quest for equality in America.

HIS 469 BLACK PROTEST AND LEADERSHIP IN THE U.S. IN THE TWENTIETH CENTURY

3, 3/0; offered based on staff availability
Prerequisite: Junior or senior. An examination of the black protest movement and leaders in 20th-century America.

PSC 218 AFRICAN-AMERICAN POLITICAL CULTURE

3, 3/0 CS
This course focuses on African-American politics from the beginning of the civil rights movement to the present. It seeks to understand how American political institutions impact on black politics and how black politics influence those institutions. Beyond this, this course seeks to examine how politics has shaped African-American culture and vice versa.

Anthropology

Offered by the Anthropology Department
DR. JILL NASH, Chairperson
Classroom Building B-107

ANT 100 HUMAN ORIGINS

3, 1/0; 1993-5 CS
An introduction to the fossil and archeological record of humanity. The emergence of the human species and its subsequent development. Exploration of the physical changes which have occurred in the human lineage and changes in our cultural behavior from hunting to farming and an urban life. Recommended as a first or second course in anthropology.

ANT 101 INTRODUCTION TO ANTHROPOLOGY

3, 3/0; 1993-5 GCS
Culture and human behavior; formative of personality; nature of social structures, interaction, and the satisfaction of human needs; cross-cultural comparisons; archeology; linguistics; human evolution. Recommended as a first or second course in anthropology.

ANT 144 INTRODUCTION TO FOLKLORE AND FOLKLIFE

3, 3/0; 1993-5 DCS
Introduction to the major genres of folklore and folklife and their function in contemporary society. Includes such topics as ethnic and urban folklore, the folksong revival, and the Foxfire movement.

ANT 202 WORLD PREHISTORY

3, 3/0; F 94 ES
The aims and methods of prehistoric research and the interpretation of archeological materials. Major stages in the development of culture illustrated in Old and New World contexts.

ANT 203 HUMAN VARIATION

3, 3/0; F 93 ES
Examination of physical variation in human populations; relationship between variation in human populations; relationship between attributes and cultural patterns; genetic basis of human evolution and variation; ecological distribution of human physical varieties with special emphasis on modern human populations.

ANT 301 INDIANS OF EASTERN NORTH AMERICA

3, 3/0; 94 GCS
Lifeways of Indians of eastern North America; influences from Middle to South America; sub-Arctic and Arctic. Emphasis on cultures of Iroquois and Algonkian-speaking peoples.

ANT 303 THE ANTHROPOLOGY OF EUROPE

3, 3/0; F 94 G
An introduction to the anthropology of Europe and European cultures. Topics discussed will include the diverse peoples and cultures of Western and Eastern Europe, folklife, peasantry, folk arts, and European and Euro-American worldviews. The course will also include discussion of European colonialism and European attitudes about and practices toward other cultural groups.

ANT 305 PEOPLES OF AFRICA

3, 3/0; F 94 GCS
Cross-cultural comparisons of selected societies of sub-Saharan Africa, emphasizing economic conditions, migrations, indigenous states, linguistics, social structure, aesthetics, religion, prehistory, and physical types.

ANT 307 URBAN ANTHROPOLOGY

3, 1/0; Sp 94, 95 ES
Study of the city as a total social system with special attention to cultural diversity both in terms of backgrounds of foreign countries and of regions within our own country. Students may be requested to carry out organized field research within the city. Recommended for urban studies minors.

ANT 308 ARCHEOLOGICAL METHOD

3, 3/0; Su 94 ES
Laboratory and field methods in archeology will be studied. Opportunity for practical experience with various archeological techniques will be provided.

ANT 312 ARCHEOLOGY OF THE NORTH AMERICAN INDIAN

3, 3/0; Sp 94 ES
Special note: ANT 100 is recommended as a prior course. Prehistory of North America beginning with earliest human presence in North America, including the Paleo-Indian period. Archaic, Woodland and Mississippian in the East, and periods comparable in time in the West. Discussion of possible trans-Pacific and trans-Atlantic influences on the development of American Indian culture.

ANT 315W RESEARCH METHODS IN CULTURAL ANTHROPOLOGY

3, 3/0; Sp 94, 95
Prerequisite: Any anthropology course. A study of research methods in cultural anthropology covering field work, participant observation, sampling, measurements, documentation, statistical and cross-cultural methods.

ANT 320 HUMAN GROWTH IN ANTHROPOLOGICAL PERSPECTIVE

3, 3/0; F 94 ES
Prerequisite: A course in the natural or social sciences, or upper-level status, or permission of the instructor. An examination of the physical changes that occur from birth through old age. Child-rearing, adolescence, and the role of the elderly in other cultures. The biological and social factors which influence human growth. Methods used by the anthropologist in assessing growth.

ANT 321 PRIMATE BEHAVIOR

3, 3/0; Sp 95 ES
Prerequisite: A course in the natural or social sciences, or upper-level status, or permission of the instructor. The description and analysis of social behavior among non-human primates, with particular attention to monkeys and apes.

ANT 324 THE HUMAN SKELETON

3, 3/0; Sp 95
Prerequisite: A course in the natural or social sciences, or upper-level status, or permission of the instructor. The study of the skeletal remains of past human societies. The structure and functions of the skeleton, age, sex, illness, and injury to the individual. Reconstructing the population, demography, health status, growth patterns, genetic affinities. ANT 324 and ANT/CRJ 325 cannot both be taken for credit.

ANT 325 SKELETAL INVESTIGATIONS: FORENSIC ANTHROPOLOGY

3, 3/0; Sp 94
Prerequisite: upper class standing or permission of the instructor. An examination of human skeletal anatomy and the techniques used by forensic anthropologists to identify skeletal remains. Students will work with skeletal material to learn how to determine age, sex, "race," stature, disease, trauma, and other features that aid in personal identification. ANT 324 and ANT 325 cannot both be taken for credit.

ANT 326 THE HUMAN FOSSIL RECORD

3, 3/0; F 93 ES
Prerequisite: A course in the natural or social sciences or upper-level status. Human evolution as derived from the fossil record. Examination of major fossil hominid discoveries, their interpretation and place in the development of the human species.

ANT 327 MEDICAL ANTHROPOLOGY

3, 3/0; F 94 GES
Prerequisite: Introductory anthropology, or a social science course, or upper-division status. (Note: certain courses in social work, consumer studies, and nutrition are also acceptable. Consult department.) Introduction to medical anthropology and its relevance to contemporary American society. Includes such topics as folk and traditional healing practices, cultural definitions of illness, and modern medical technology.

ANT 330 THE ANTHROPOLOGY OF OCEANIA

3, 3/0; Sp 93 GCS
Prerequisite: A course in the natural or social sciences, or upper-level status, or permission of instructor. A general introduction to the prehistory, physical anthropology, ethnography, and ethnology of Polynesia, Micronesia, Melanesia, and Australia, focusing on special problems of current interest.

**ANT 340
WOMEN IN ANTHROPOLOGICAL
PERSPECTIVE**

3, 3/0; F 94 GCS

Prerequisite: A course in the natural or social sciences, or upper-level status, or permission of the instructor. The study of women's position in human society, with attention given to biological, social, and cultural influences on female status in cross-cultural and evolutionary perspective.

**ANT 360
FOLKLORE OF WOMEN**

3, 3/0; Sp 93 ES

Prerequisite: ANT 101 or ANT 144 or a course in Women's Studies or a social science, or upper-division status. A survey of women's folklore and folklife; women as traditional performers (seen through expressive behavior such as singing, songwriting and storytelling); material folk culture of women (needlework, crafts, foodways); customary behavior (folk medicine, magic, the domestic religious tradition); folklore of the women's movement. The course will also consider women's contributions to the oral folklore in the formation of sexual stereotypes.

**ANT 362
URBAN FOLKLORE**

3, 3/0; Sp 95 ES

Prerequisite: ANT 101 or ANT 144 or a course in social science or upper-division status. Folklore and folklife in the urban environment; the survival and reshaping of rural and Old World tradition; the function of folklore in the preservation of ethnic identity; craft, industrial and labor traditions, folklife forms (festivals, markets, material culture); contemporary folklore, folklore in the media and popular culture.

**ANT 365
PRACTICING ANTHROPOLOGY**

3, 3/0; Sp 93, 95

This course will discuss the application of anthropology and anthropological perspectives to contemporary community and world issues and problems. Focus will be placed on the practice of anthropology as a career outside academia, in social services, international relations, government positions, community organizing, etc., and the relevance of anthropological principles in day-to-day life.

**ANT 370
THE ANTHROPOLOGY OF
CONTEMPORARY ISSUES**

3, 3/0; Sp 95 GES

Prerequisite: ANT 101 or consent of instructor. This course provides an anthropological perspective on some of the principal dilemmas of the contemporary world, including technological, demographic, ideological, and cultural problems which provide much of the content of our daily news and have implications for the survival of our species.

**ANT 377
ANCIENT CIVILIZATION**

3, 3/0; F 93 ES

Prerequisite: ANT 100 or ANT 101, or upper-level status, or permission of the instructor. An examination of the nature of early civilization as well as possible factors involved in both their rise and fall. Old World civilizations studied will be those in Mesopotamia, Egypt, the Indus Valley, and China. New World civilizations examined will be those in Mesoamerica and Peru. Similarities and differences between all of these civilizations will be considered.

**ANT 380
LANGUAGE AND CULTURE**

3, 3/0; Sp 94, 95 GES

Examination of the concepts of language and culture as symbolic systems and an introduction to phonetics, phonemics, morphemics, syntax, and semantics from a cross-cultural and cross-lingual perspective. An exploration of the relationship between grammatical structure and modes of perception and cognition as related to world views and systems of values, with special emphasis on the Sapir-Whorf hypothesis and the work of Chomsky.

**ANT 381
RELIGION, MYTH, AND MAGIC**

3, 3/0; 1993-5 CS

Fetishism (animism), polytheism and monotheism. An in-depth analysis of religion, myth, and magic in prehistoric and primitive societies as well as ancient and contemporary Egypt, Mesopotamia, Asia Minor, North Africa, Iran, India, China, Japan, and the world of Islam. Their bearing on the Judeo-Christian tradition. Recommended for religious studies minors.

**ANT 382
CULTURE AND PERSONALITY**

3, 3/0; F 93, 94 ES

Prerequisite: A course in the natural or social sciences, or upper-level status, or permission of the instructor. A cross-cultural study of the role of individual variable genetic potentials and socioculturally variable norms, structures of modal and deviant personalities.

**ANT 389
TOPICS IN ANTHROPOLOGY**

3, 3/0

Prerequisite: A course in the natural or social sciences, or upper-level status, or permission of instructor. Analysis of current areas of research interest in anthropology. Emphasis will be placed on using concepts and methods from the subfields of anthropology to study in specific problem or series of problems.

**ANT 405W
HISTORY OF ANTHROPOLOGICAL
THOUGHT**

3, 3/0; F 93, Sp 95

Study of the important contributions to the development of anthropological theory from the

preanthropological philosophers such as Locke to the present. Included among the theorists will be Darwin, Tylor, Boas, Kroeber, Rivers, Malinowski, Levi-Strauss, and Sapir. Required of all anthropology majors. ANT 101 is strongly recommended as a prior course.

**ANT 411
AFRICAN SYSTEMS OF KINSHIP AND
MARRIAGE**

3, 3/0; Sp 94 G

Study of the family, kinship, and marriage among the peoples of Africa. Emphasis on the interrelationship of kinship with other aspects of culture.

**ANT 412
SEMINAR IN ANTHROPOLOGY**

3, 3/0

Anthropology has four areas of research — physical anthropology, archeology, ethnology, and linguistics. This seminar will attempt to examine and criticize literature of one of these four fields. Students may be required to do research.

**ANT 415
SEMINAR IN ARCHEOLOGY**

3, 3/0; F 94

Prerequisite: A course in the natural or social sciences, or upper-level status, or permission of instructor. A survey of the field of archeology, which includes the examination of particular cultures as well as discussion of major methodological and theoretical issues.

Art Education

Offered by the Art Education Department
DR. MICHAEL E. PARKS, Chairperson
Bishop Hall 102

All studio courses in art education require at least two hours per week of outside preparation in addition to the regular class meetings. For those courses in which the use of the studio is necessary for additional work, the instructor will schedule times when it will be open. Students are expected to assume the costs of materials they use in courses. All studio courses may have a charge for materials.

**AED 100
ESSENTIALS OF VISUAL ARTS**

3, 2/2; 1993-95 CA

The development of visual and perceptual awareness through expressive learning processes inherent in the visual arts. Art experience with a variety of media that will accommodate individual interpretations of art concepts which generate the formations, judgments, and decisions of a liberally-educated individual. *Non-art majors only.

**AED 200
FUNDAMENTALS OF ART INQUIRY**

3, 3/0; 1993-95 CA

A study of functional and common-sense procedures for establishing valid criteria for making judgments about art as it is reflected in all areas of human concern. Instruments of language and logic are examined and tested on how they are useful to the inquiry.

**AED 300
FOUNDATIONS IN ART EDUCATION**

3, 2/2; 1993-95

Prerequisite: Art education major or consent of the department chairperson and completion of Math and English Basic Competency requirements. An introductory course which serves as an entry to the professional program. A review which provides a basic understanding of art education and its relationship to the arts/education careers and society. *Required of all art education majors.

**AED 301
THEORETICAL CONSTRUCTS
IN ART EDUCATION**

3, 2/2; 1993-95

Prerequisite: Art education major, AED 300 and at least one course in psychology or consent of the department chairperson, and AED 200W. From the prerequisite study of the broad field of art and education, this course focuses on specific information and theories relevant to the teaching of art. Students will examine teaching models based on art education theories formulated to accommodate students' pre-professional interests and needs in the context of the observed and theoretically stimulated teaching situations.

**AED 302
FUNCTIONS AND PRACTICE
IN ART EDUCATION**

3, 2/2; 1993-95

Prerequisite: Art education major, AED 300, 301, at least one course in sociology/anthropology, or consent of the department chairperson, and AED 315. This course will direct students to identify art content and processes necessary in the design of instructional planning, implementation, and evaluation of these art concepts. These skills will be gained and tested by practice in mini-teaching and/or participation teaching.

**AED 303
ELEMENTARY STUDENT-TEACHING
IN ART**

6 cr., full time, ½ semester; 1993-95

Prerequisite: Art education major, AED 302, satisfaction of departmental requirements, approval of AED Coordinator of Student Teaching, and ATS 325. Supervised teaching at assigned levels from kindergarten through sixth grade, in various types of schools and communities; seminar discussions on professional problems of the beginning teacher. *Required of all art education majors.

**AED 304
SECONDARY STUDENT-TEACHING
IN ART**

6 cr., full time, ½ semester; 1993-95

Prerequisite: Art education major, AED 302, satisfaction of departmental requirements, approval of AED Coordinator of Student Teaching, and ATS 325. Supervised student teaching at assigned levels from seventh grade through senior high school, in various types of schools and communities; conferences devoted to planning and evaluating teaching experiences; seminar discussions on professional problems of the beginning teacher. *Required of all art education majors.

**AED 310
ART MATERIALS EXPLORATION FOR
GROUP ACTIVITIES**

3, 2/2

Prerequisite: One visual-arts studio course for non-art majors; DES 101, 103, FAR 101, 102 for art education majors. Exploratory materials experiences basic to art activities. Class efforts will be directed toward activities-oriented processes and their ultimate use in group art activities which can occur in a variety of agency, institutional, and recreational contexts.

**AED 315
ARTS IN LIVING**

3, 2/2; 1993-95 CA

Prerequisite: Any one art course. A study of contemporary and historic art forms as they apply to everyday living. An analysis of the individual significance and interrelatedness of architecture, industrial design, the graphic arts, painting, sculpture, music, and the theater arts. Participation in creative activities related to the course.

**AED 319
ART FOR ELEMENTARY AND
EXCEPTIONAL-EDUCATION
CLASSROOM TEACHERS**

3, 2/2; 1993-95 EA

Prerequisite: Elementary, exceptional education, and social work majors or consent of the instructor. A study of children's expressive abilities, interests, and needs in relation to art at several developmental levels. The management of media as an agent for developing skills, inquiry, and appreciation of the artistic process. Studio experiences with processes and materials used in elementary school settings.

**AED 400
STUDENT-TEACHING SEMINAR**

3, biweekly/6; 1993-95

The relationship of art education theories to teaching practices utilized in the contemporary school art program; the identification of crucial issues in art education; problems of beginning art teachers; and the value of current professional literature in the resolution of issues and problems. *Required of all art education majors. To be taken concurrently with or immediately following student teaching.

**AED 488
INTERNSHIP**

1-15

Prerequisite: Upper division standing and/or permission of instructor, 2.5 GPA, and background coursework appropriate to the internship setting. Internship programs provide students with guided and supervised field experiences (experiential learning) as part of their degree programs. An internship shall consist of supervised activities for qualified students in community based agencies or settings in which interns will apply and enhance knowledge gained through formal instruction demonstrating operational skills, as practitioners in prospective specializations.

**AED 495
PROJECT**

Credits, hours vary; 1993-95

Prerequisite: Junior or senior standing. Project undertaken and meetings hours arranged individually with instructor.

**AED 499
INDEPENDENT STUDY**

1993-95

Prerequisite: Sophomore, junior or senior standing. Minimum 2.5 cumulative average (overall, previous semester, and in study area courses). Studies arranged and meeting hours undertaken individually with instructor.

**ATS 320
INTRODUCTION TO ART THERAPY**

3, 2/2; 1993-95 CA

Prerequisite: One visual-arts studio course or consent of the instructor. Initial exploration of art as a mode of human expression for children and adults in therapeutic settings such as special education classes, mental health clinics, development centers, community centers, etc. Volunteer work in human-service agency. *Required of art therapy studies minors.

**ATS 325
ARTS AND SPECIAL NEEDS**

3, 2/2; 1993-95 EA

Prerequisite: ATS 320 and one human service course. In-depth exploration of theoretical and practical relationships within art programs which are designed to serve people with exceptional needs in schools and other human-service agency settings. Art activities as a diagnostic agent and as a means for establishing settings which promote individual growth, self-awareness, self-concept development, and self-expression. Supervised field work in special education settings. *Required of art therapy studies minors.

**ATS 329
ART AND OLDER ADULTS**

3, 2/2; 1993-95 EA
Prerequisite: ATS 320 and SOC 352 or PSY 327.
 The study of art as activity, education, and therapy with the older adult. Readings, films, presentations, group experiences, and observations of art experience with older adults in settings ranging from community centers and adult education to geriatric institutions. Supervised field work in service to aged setting. *Required of art therapy studies minors.

Biology

Offered by the Biology Department
 DR. ERIC A. RANDALL, Chairperson
 Science Building 313

**BIO 100
PRINCIPLES OF BIOLOGY**

3, 3/0; 1993-95 CM
 A consideration of selected principles of modern biology, with special emphasis on their relevance to major biosocial issues. Open to non-majors only.

**BIO 104
ENVIRONMENTAL BIOLOGY**

3, 3/0; 1993-95 GCM
 Biological aspects of global environmental problems. Principles of ecology for students not majoring in biology.

**BIO 115
GENERAL BOTANY**

4, 3/3; 1993-95 CM
 Morphology, physiology, phylogeny, reproduction, and adaptation of plants.

**BIO 116
GENERAL ZOOLOGY**

4, 3/3; 1993-95 CM
 Morphology, physiology, phylogeny, reproduction and adaptation of animals.

**BIO 210
BACTERIOLOGY**

3, 2/2; F 93, F 94 EM
Prerequisite: BIO 214 or equivalent. Morphology and physiology of bacteria; general application to household science, sanitation, hygiene, and infectious disease. *Not open to biology majors.

**BIO 214
INTRODUCTION TO CELL BIOLOGY**

4, 3/3; 1993-95 EM
Prerequisite: One year of college chemistry. Structure of biological macromolecules; organization of eukaryotic and prokaryotic cells, and basic cell processes.

**BIO 303
GENETICS**

4, 3/3; 1993-95 EM
Prerequisites: BIO 115, BIO 116, and BIO 214.
 Principles of heredity; inheritance of specific plant, animal, and human traits; biochemical aspects of the gene; relationship of genetics to evolution.

**BIO 305
MOLECULAR BIOLOGY**

4, 3/3; Sp 94, Sp 95
Prerequisite: BIO 115, 116, 214 and CHE 201.
 Structure, organization, and function of living matter at the molecular level.

**BIO 306
ENTOMOLOGY**

3, 2/2; EM
Prerequisite: BIO 116 or equivalent. The morphology, physiology, ecology, and life histories of insects; major emphasis on interrelationships of insects and man. Laboratory includes a survey of the major insect groups.

**BIO 313
HUMAN ANATOMY AND PHYSIOLOGY**

4, 3/3; 1993-95 CM
 Study of the anatomy and physiology of the major organ systems of the human body including consideration of clinical health and disease. Required laboratory exercises include physiological experiments with live materials and dissections of preserved specimens.

**BIO 314
ADVANCED CELL BIOLOGY**

4, 3/3; Sp 94
Prerequisite: BIO 115, 116, 214 and CHE 201.
 An in-depth examination of the cell. The emphasis in this course reflects the contribution of the molecular approach to the understanding of cell structure and function, in particular, the contribution of recombinant DNA technology.

**BIO 315
ECOLOGY**

4, 3/3; 1993-95 EM
Prerequisite: BIO 115 and 116; CHE 111-112.
 Ecosystems, biotic communities, interspecific and intraspecific relationships, biogeochemical cycles, energy flow, limiting factors, population ecology, introduction to analysis of community composition, recognition of plants and animals in selected habitats; effects of mankind in modifying natural environments. *Several half-day or all-day field trips may be required.

**BIO 316
MICROBIOLOGY**

4, 2/6; Sp 94, Sp 95 EM
Prerequisite: BIO 214. Microorganisms and techniques of observing their morphology growth characteristics and distribution; the relationship of microorganisms to man and his activities.

**BIO 322
HEREDITY AND HUMAN AFFAIRS**

3, 3/0; CM; offered based on staff availability
Prerequisite: BIO 100 and junior standing. A course in human inheritance and social implications of genetics to modern society. Open to non-majors only.

**BIO 324
BIOLOGY OF HUMAN REPRODUCTION**

3, 3/0; EM; offered based on staff availability
Prerequisite: BIO 100 and junior standing. A course in the anatomy and physiology of the human reproductive system, development of the human embryo, and the processes of birth and lactation. Open to non-majors only.

**BIO 325
ICTHYOLOGY**

4, 3/1; EM; offered based on staff availability
Prerequisite: BIO 116. Study of the biology of fishes: structure and function (anatomy and physiology), systematics, evolution, diversity, zoogeography, and ecology.

**BIO 361
BIOLOGY SEMINAR**

1, 1/0; offered based on staff availability
 A series of weekly presentations of invited personnel. Class meetings are open to any interested person, and biology majors are especially urged to attend throughout their college careers.

**BIO 362
BIOLOGY SEMINAR**

1, 1/0; offered based on staff availability
 A series of weekly presentations of invited personnel. Class meetings are open to any interested person, and biology majors are especially urged to attend throughout their college careers.

**BIO 402
COMPARATIVE ANIMAL PHYSIOLOGY**

4, 3/3; F 93
 Study of hormonal control, neural processing, sensory mechanisms, circulation, gas exchange, digestion, muscles, energetics, and thermoregulation using vertebrate and invertebrate examples.

**BIO 405
ORGANIC EVOLUTION**

3, 3/0; 1993-95
Prerequisite: A course in genetics and ecology. A study of the empirical foundation of evolutionary theory; emphasis will be on the dynamics of the process of evolution, especially as it relates to individual variation within an interbreeding population, to the variation pattern on the population level, and to the origin of the species; more recent trends, such as introgressive hybridization, polyploidy, apomixis, and genetic homeostasis will be developed.

**BIO 406
BIOMETRICS**

4, 3/3; F 93, F 94
Prerequisite: College algebra and junior standing. Quantitative aspects of biology, with analysis of biological data and its relationship to experimental design. Fundamentals of probability with applications to biological problems. Statistical decision-making applied to measurement and enumeration data.

**BIO 408
PLANT PHYSIOLOGY**

4, 3/3; F 94
Prerequisites: BIO 115, BIO 214, and CHE 201.
 Physiological processes in plants, including photosynthesis; respiration, osmosis, translocation, transpiration, effects of hormones, soil nutrients, and tropisms.

**BIO 411
ANIMAL PARASITOLOGY**

4, 3/3; offered based on staff availability
Prerequisite: BIO 116. Principles of parasitology. Morphology, immunology, physiology, biochemistry, and ecology of parasites; life cycles, identification and pathological effects of representative parasites; control and treatment; significance of parasitism to human health.

**BIO 412
EMBRYOLOGY**

4, 3/3; offered based on staff availability
Prerequisite: BIO 116, 214 and CHE 201. Principles and processes of chordate embryology, with emphasis on cellular and molecular mechanisms and development.

**BIO 413
ORNITHOLOGY**

3, 2/2
Prerequisite: BIO 100 or 116. Birds, their structure, functions, origins, and development; their identification and habits. *Field work required.

**BIO 414
MAMMOLOGY**

3, 2/3; offered based on staff availability
 An introduction to the study of mammals, living and extinct, including a survey of the diversity of mammalian life history strategies, behavior, ecology, morphology and physiology. Required exercises include field trips, collection techniques, and preparation of study materials.

**BIO 417
FIELD MYCOLOGY**

3, 2/3; offered based on staff availability
Prerequisite: BIO 115. Study of identification, morphology, ecology, and economic importance of this fungi most often encountered in natural environmental situations. Emphasis will be placed on the myxomycetes, ascomycetes, and basidiomycetes. *Field work required.

**BIO 418
LIMNOLOGY**

4, 3/3; offered based on staff availability
Prerequisites: BIO 115, BIO 116, BIO 315, and CHE 112. Study of the physical, chemical, and biological factors influencing freshwater life, and the ecological interactions in freshwater communities. Lectures, demonstrations, and field trips.

**BIO 421
INVERTEBRATE STRUCTURE AND FUNCTION**

3, 2/2; offered based on staff availability
Prerequisite: BIO 116. Morphology, physiology, adaptation, ecology, reproduction, and evolution of the invertebrates. Functional approach.

**BIO 422
PLANT ANATOMY**

4, 3/1; offered based on staff availability
Prerequisite: BIO 115 and BIO 214. Presentation of a cellular and tissue system analysis of vascular plants. Emphasis will be placed on plant structure with respect to and in relation to physiological function as well as the classical concepts and theories in phytoanatomy.

**BIO 425
MORPHOLOGY OF NONVASCULAR PLANTS AND FUNGI**

4, 3/3; offered based on staff availability
Prerequisites: BIO 115 and BIO 214. A study of the comparative structures, reproductive cycles, and phyletic relationships among the non-vascular plants and fungi. Interactions between structure and function and ecological adaptations will be considered.

**BIO 426
MORPHOLOGY OF VASCULAR PLANTS**

4, 3/3; offered based on staff availability
Prerequisites: BIO 115 and BIO 214. A study of the comparative structures, reproductive cycles, and phyletic relationships among the vascular plants. Interactions between structure and function and ecological adaptations will be considered.

**BIO 427
SYSTEMATIC BOTANY**

4, 3/3; offered based on staff availability
Prerequisites: BIO 115 and BIO 303. A comprehensive study of the diversity of vascular plants, their identification, naming, classification, and evolutionary relationships.

**BIO 428
VERTEBRATE STRUCTURE AND FUNCTION**

4, 3/3; offered based on staff availability
Prerequisites: BIO 116 and ENG 102. A comparative study of the vertebrates with emphasis on their anatomy, adaptations, ecology, and phylogenetic relationships.

**BIO 429
FISHERIES BIOLOGY**

4, 3/3; offered based on staff availability
Prerequisites: BIO 116 and BIO 315. Study of the ecology and management of fish populations: sampling techniques, fisheries management techniques (including stocking, hatcheries, and aquaculture programs), and feeding, behavior, and life history of fishes.

**BIO 450
RECOMBINANT DNA TECHNOLOGY**

4, 2/4; offered based on staff availability
Prerequisite: BIO 314, BIO 316, and BIO 305.
 This course is designed to provide the student with extensive "hands on" experience using the techniques of biotechnology. The techniques involving the construction of recombinant DNA molecules and their analysis will be emphasized.

**BIO 495
PROJECT**

1993-95
Prerequisite: Approval of the faculty adviser and department chairperson must be secured prior to registration.

**BIO 498
HONORS RESEARCH**

3, 0/9; 1993-95
Prerequisite: Acceptance by the Biology Honors Committee and approval of the faculty adviser. The honors biology student will conduct an individual investigation of an original problem. After two semesters of honors research, the student will submit a written paper and present the data orally at a scientific meeting or in a department seminar. Minimum of six semester hours required for Honors certification.

**BIO 499
INDEPENDENT STUDY**

1993-95
Prerequisite: Approval of faculty adviser and department chairperson must be secure prior to registration.

Business

Offered by the Business Department
 DR. MARY A. DAVIS, Chairperson
 Chase Hall 306

**BUS 116
INTRODUCTION TO BUSINESS**

3, 3/0; 1993-95 CT
 An investigation of modern business functions; economic and social aspects, organization and management, operations, marketing functions, management control and decision making, financial risk and management, and career information for a changing business climate.

BUS 117
INTRODUCTION TO RETAILING

3, 3/0; 1993-95 CT
Role and function of retailing as a channel of distribution, the relationship and responsibilities to the producer and to the consumer.

BUS 312
PRINCIPLES OF ACCOUNTING I

3, 3/0; 1993-95
Prerequisite: Math Competence. Basic accounting principles underlying financial statements.

BUS 313
PRINCIPLES OF ACCOUNTING II

3, 3/0; 1993-95
Prerequisite: BUS 312. This course is a continuation of BUS 312. Topics include accounting and stocks and bonds, preparation of funds statements, elements of cost accounting, and analysis of financial statements.

BUS 320
PRINCIPLES OF MARKETING

3, 3/0; 1993-95
Prerequisite: BUS 312, CIS 101, ECO 201 or 202. Survey course which provides students with an understanding of concepts, policies, and practices in the marketing of products and services. The course will focus on the decision making process in marketing.

BUS 323
SALES METHODS & TECHNIQUES

3, 3/0; F 93, 94, 95 ET
Prerequisite: BUS 116 or 117. An approach to selling with emphasis on the application of sales principles, analysis of consumer characteristics, behavior, and buyer motivation.

BUS 324
BUSINESS COMMUNICATION

3, 3/0; 1993-95
Prerequisite: BUS 116; junior standing, S Eng Competency. An investigation of business communication as related to interaction in the private and public sector and in the social system; emphasis on routine communication, e.g., business letters and report writing.

BUS 325
HUMAN RESOURCES MANAGEMENT

3, 3/0; 1993-95 ET
Prerequisite: BUS 312, CIS 101, ECO 201 or 202. Designed to give an overview of philosophy of personnel management based on behavioral, classical managerial approaches, changes, human relations and operation research.

BUS 326
INTRODUCTION TO MERCHANDISING

3, 3/3; 1993-95
Prerequisite: BUS 117, junior or senior standing. The science of merchandising management together with the trends of merchandising.

BUS 327
ADVERTISING CONCEPTS AND PRACTICES

3, 3/0; 1993-95
Prerequisite: BUS 117. Analysis, solution, coordination of various media and sales materials to promote profit-producing programs with emphasis on the print media. Exploration of relationship of behavior sciences to advertising.

BUS 328
ADVANCED ADVERTISING CAMPAIGN MANAGEMENT

3, 3/0; Sp 93, 94, 95
Prerequisite: BUS 327. Principles of communication and advertising in non-print media. Coordination of sales promotion activities and its effect on business, organizations, industries and individuals.

BUS 329
SALES MANAGEMENT

3, 3/0; Sp 93, 94, 95
Prerequisite: Junior or senior standing. BUS 116 or BUS 117. Provides a managerial and pragmatic view of the sales management area. Examines the role of the sales manager as a manager of people, money, and things, as well as total selling effort. Presents the goals and objectives of selling and management of selling effort in today's world, with emphasis on ultimate consumer.

BUS 334
BUSINESS LAW I

3, 3/0; 1993-95
Prerequisite: BUS 312, CIS 101, ECO 201 or 202. A survey of legal principles applicable to business enterprises and operations. Topics such as the following will be considered: the adversary and judicial systems; business organizations; contracts and sales; commercial paper; secured transactions; property; torts; and appropriate sections of the Uniform Commercial Code.

BUS 335
BUSINESS LAW II

3, 3/0; Sp 93, 94, 95
Prerequisite: BUS 334. An advanced course in business law which examines such topics as: the nature of real and personal property; trusts, wills and estates; creditor's rights and secured transactions; government regulation of business; administrative law; insurance, and evidence. Other selected topics may include taxation of income, arbitration in resolving contract disputes and Rule 10-b-5 of the Securities and Exchange Commission.

BUS 336
VISUAL MERCHANDISING

3, 3/0; 1993-95
Prerequisite: BUS 117, DES 105 recommended. Principles of display through application, experimentation, and evaluation of basic techniques and its importance in selling merchandise. Use of color, harmony, and arrangement.

BUS 340
SECURITIES

3, 3/0; F 93, 94, 95
Prerequisite: BUS 116 or BUS 117; junior standing or permission of instructor. A study of securities and the securities market. An overview of the subject matter with special emphasis on the operations and the securities market, the role it plays in the economy, and its interaction with the macroeconomic system.

BUS 341
COMMODITIES

3, 3/0; Sp 93, 94, 95
Prerequisite: BUS 116 or BUS 117, junior standing or permission of instructor. A study of commodities futures trading; special emphasis on terminology, hedging procedures, trading procedures, and price-making influences.

BUS 350
CURRENT PRACTICES IN BUSINESS TECHNOLOGY

3, 3/0; 1993-95
Prerequisite: BUS 116; junior standing. An explanation of the technological innovations in the business world; emphasis on student preparation to cope with computer-based information systems, decision-making processes, and equipment utilization.

BUS 360
PRINCIPLES OF MANAGEMENT

3, 3/0; 1993-95
Prerequisite: BUS 312, CIS 101, ECO 201 and 202. Introduces the student to basic functions of management; strategic and operational planning, organizational structure and behavior, leadership roles and motivation, and effective control systems. Provides a base for application to all management jobs and careers; helps students explore a personal management style.

BUS 378
BUSINESS PROFESSIONAL PRACTICE

3, 3/0; 1993-95
Students in the business major may elect to take up to 12 credit hours of field experience. An introductory, part-time experience would most likely generate three credit hours, whereas a full-time culminating experience could generate as many as 12 credit hours. Credit, training, and evaluation criteria to be arranged by business instructor in charge of field experience.

BUS 403
MARKETING II-BUYER BEHAVIOR

3, 3/0; 1993-95
Prerequisite: BUS 116 or BUS 117; Economics is recommended. Junior or senior standing. Familiarization with findings development in human behavior and applications of theory and techniques to marketing problems.

BUS 404
MARKETING RESEARCH

3, 3/0; 1993-95
Prerequisite: BUS 116 or 117; MAT 111 or ECO 305; BUS 320. A study of primary and secondary data as it relates to decision-making in business and government.

BUS 410
MANAGERIAL ACCOUNTING

3, 3/0; Sp 93, 94, 95
Prerequisite: BUS 313, junior standing. Use of accounting concepts and techniques in preparing, presenting, and interpreting the accounting information used by management in planning and controlling the operations of the firm. Introduction to management fundamentals and elementary economic concepts of the firm.

BUS 426
CREATIVE OPPORTUNITIES IN MANAGEMENT PRACTICES

3, 3/0; Sp 93, 94, 95
Prerequisite: BUS 360 and BUS 325, junior or senior standing. Involves the student in problems cases, and projects to reinforce the basic functions of management planning, organizing, leading, and controlling. Places the student in the role of an individual manager and team member as the class experiences practical application of the management principles.

BUS 428
ADVANCED MERCHANDISING

3, 3/0; Sp 93, 94, 95
Prerequisite: BUS 326 or permission of instructor. Techniques of merchandising fashion apparel, accessories, housewares, major and minor appliances, and furniture. Major approaches used in planning and analyzing sales and stock records and the use of operating and financial data to make profitable merchandising decisions, as well as market planning.

BUS 430
BUSINESS STRATEGY

3, 3/0; 1993-95
Prerequisite: BUS 312, CIS 101, ECO 201 or 202. The purpose of this course is to study the actual methods and techniques commonly employed in management decision-making in business and industry. Through use of management simulation programs and actual case studies the student will be given the opportunity to make all major decisions of the operations of a company for 2½ years of simulated business activities. In addition, attention will be given to the role business/labor management relations play in scheduling and continuing business operations.

BUS 440
BUSINESS SENIOR SEMINAR

3, 3/0; Sp 93, 94, 95
Prerequisite: BUS 116 or BUS 117, seniors only. Designed to help business students in the transition to professional employment. Will cover such areas as career paths and employment

opportunities, employee benefit packages and policies, Affirmative Action programs, Equal Employment Opportunity, on-the-job considerations and other related subjects.

BUS 490
FIELD EXPERIENCE

Credit to be arranged.
Prerequisite: junior or senior standing. Provides non-business students the opportunity to have experience related to their majors in public or private agencies, business organizations, educational institutions. Registration by permission of the faculty. Obtain necessary forms in CS 301.

Chemistry

Offered by the Chemistry Department
DR. EDWARD M. SCHULMAN, Chairperson
Science Building 313

CHE 100
CHEMISTRY AND SOCIETY

3, 3/0; 1993-95 CM
A non-mathematical approach to the study of matter. Presentation of the fundamentals of chemistry followed by such socially-relevant subjects as toxic waste management, environmental pollution, space technology, agricultural chemistry, chemistry of consumer products, food processing, polymers and plastics.

CHE 101
GENERAL CHEMISTRY I

3, 2/3; 1993-95 CM
Basic principles of chemistry, including atomic and molecular structure. Gases, liquids, solids, and solutions. Chemical reactions: acids and bases. *Not open to chemistry majors.

CHE 102
GENERAL CHEMISTRY II

3, 2/3; 1993-95 CM
Prerequisite: CHE 101. A continuation of General Chemistry I01; includes chemical equilibria, electrochemistry, metals and non-metals, some fundamentals of organic chemistry, polymers, fibers and plastics, natural products, some fundamentals of biochemistry. *Not open to chemistry majors.

CHE 111
FUNDAMENTALS OF CHEMISTRY I

4, 3/3; 1993-95 CM
Fundamental principles of chemistry, with illustrative laboratory work of a quantitative nature. *Required of all chemistry and criminalistics majors.

CHE 112
FUNDAMENTALS OF CHEMISTRY II

4, 3/3; 1993-95 CM
Prerequisite: CHE 111. A continuation of Fundamentals of Chemistry I; to develop the con-

cepts of kinetics, equilibria, and energetics as preparative material for further study in chemistry or other areas of science. Laboratory work in semi micro qualitative inorganic analysis and physiochemical experiments. *Required of chemistry and criminalistics majors.

CHE 201
ORGANIC CHEMISTRY I

3, 3/0; 1993-95 EM
Prerequisite: CHE 112. Chemistry of carbon compounds. Bonding, stereochemistry, and structure theory. Fundamental reactions of the functional groups considered from the mechanistic standpoint.

CHE 201L
ORGANIC CHEMISTRY LABORATORY I

1, 0/3; 1993-95 EM
Prerequisite: CHE 201 or concurrent registration. An introduction to basic organic laboratory operations. Methods of isolation, purification, and identification of organic compounds. Experiments will be chosen from a variety of possible topics such as synthesis, qualitative organic analysis, and mechanistic studies.

CHE 202
ORGANIC CHEMISTRY II

3, 3/0; 1993-95 EM
Prerequisite: CHE 201. A continuation of Chemistry 201.

CHE 202L
ORGANIC CHEMISTRY LABORATORY II

1, 0/3; 1993-95 EM
Prerequisite: CHE 202 (or concurrent registration) and CHE 201L. A continuation of Chemistry 201L.

CHE 301
ANALYTICAL CHEMISTRY

4, 2/6; Sp 94, 95 EM
Prerequisite: CHE 112. Theory and laboratory applications of quantitative analytical chemistry. Gravimetric, volumetric, electrochemical, and spectrophotometric methods will be covered.

CHE 305
PHYSICAL CHEMISTRY I

3, 3/0; F 93, 94
Prerequisite: CHE 202, MAT 263 and PHY 112. A study of the laws governing the behavior of chemical systems (thermodynamics, kinetic theory of gases, and the structure of matter).

CHE 306
PHYSICAL CHEMISTRY II

3, 3/0; Sp 94, 95
Prerequisite: CHE 305. Applications of thermodynamics to physical and chemical equilibria. The statistical and quantum basis for chemical structure and reactivity.

CHE 307
PHYSICAL CHEMISTRY LABORATORY I
1, 0/3; F 93, 94
Prerequisite: CHE 202L, CHE 301 and CHE 305 (or concurrent registration). A laboratory study of fundamental chemical principles.

CHE 308
PHYSICAL CHEMISTRY LABORATORY II
1, 0/3; Sp 94, 95
Prerequisite: CHE 305L and CHE 306 (or concurrent registration). A laboratory study of fundamental chemical principles.

CHE 310
LITERATURE OF CHEMISTRY
1, 1/0; Sp 94, 95 EM
Prerequisite: CHE 201 or concurrent registration. Sources of chemical literature. Experience in chemical information searching and retrieval, including examples of computer searching.

CHE 312
CHEMISTRY AND CRIMINALISTICS
3, 3/0; Sp 94, 95 EM
Prerequisite: CHE 201, 321, 102; or 100 (with permission of instructor). The use of chemistry as an investigative aid in the process of criminal justice. General chemical techniques used in criminal investigations. The function of the criminalist considered from the gathering of evidence to the final presentation of expert testimony.

CHE 315
ENVIRONMENTAL CHEMISTRY
3, 3/0; F 93, 94 EM
Prerequisite: CHE 112; or 102 (with permission of instructor). Discussion of chemical reactions occurring in air, water, and soil. Effect of human activities on the chemical environment. Pollution control methods and devices.

CHE 321
PRINCIPLES OF ORGANIC CHEMISTRY
4, 3/3; F 93, 94 EM
Prerequisite: CHE 102 or CHE 112. A survey of organic chemistry including a treatment of the variety of functional groups and their chemical behavior. *Not open to chemistry majors.

CHE 322
BIOLOGICAL CHEMISTRY
4, 3/3; Sp 94, 95 EM
Prerequisite: CHE 321 or CHE 202. Discussion of structure and functions of the substances of biochemical interest found in living systems supplemented by illustrative laboratory work. *Not open to chemistry majors.

CHE 399
INTERNSHIP IN CHEMISTRY
Up to 6, 40/week; 1993-95
Prerequisite: Approval of the Co-Op Committee must be secured prior to registration. Hands-on experience on approved research and/or development project of current interest to local chem-

ical industry. The student will be a full-time employee of the industry drawing full pay for the designated period.

CHE 400
INORGANIC CHEMISTRY
5, 3/6; Sp 94, 95
Prerequisite: CHE 305. An introduction to modern inorganic chemistry with special emphasis on periodic variations of structural and bonding patterns among inorganic compounds of the main group and transition elements. The kinetic and thermodynamic factors which govern the preparation and stabilities of inorganic compounds. Laboratory experience in the synthesis and characterization of selected inorganic compounds using a variety of techniques.

CHE 401
BIOCHEMISTRY
4, 3/3; F 93, 94
Prerequisite: CHE 305. Study of the structure, function, and metabolism of the classes of compounds found in living systems. Relationship of enzymology to metabolism and the cellular control of metabolism.

CHE 403
INSTRUMENTAL ANALYSIS
4, 2/6; F 93, 94
Prerequisite: CHE 301, CHE 305. Chemical analysis and structure determination through study of the theory and operation of instruments involving visible, ultraviolet, infrared, and atomic absorption spectrophotometry; emission spectroscopy, colorimetry; flame photometry; chromatography; nuclear magnetic resonance spectroscopy.

CHE 412
INTERNSHIP IN CRIMINALISTICS
Up to 3; 1993-95
Prerequisite: CHE 403, permission of instructor, and senior standing. Field experience in a forensic laboratory involving routine and research work in forensic chemistry. *Required of all criminalistics majors.

CHE 430
ORGANIC CHEMISTRY III
3, 3/0; Sp 94
Prerequisite: CHE 305. A study of advanced topics in theoretical and physical organic chemistry with emphasis on reaction types, mechanisms, and structure.

CHE 495
PROJECT
Prerequisite: Approval of the faculty project adviser must be secured prior to registration.

CHE 499
INDEPENDENT STUDY
Prerequisite: Approval of faculty project adviser must be secured prior to registration.

Communication

Offered by the Communication Department
DR. W. RICHARD WHITAKER, Chairperson
Bishop Hall 210

COM 100
INTRODUCTION TO MASS COMMUNICATION
3, 3/0; 1993-95 CH
Historical development, present patterns, potentialities of the media in a climate of freedom and responsibility. Standards of critical analysis, aesthetic discrimination, and intelligent selection in using media.

COM 101
WRITING FOR THE PRINT MEDIA
3, 2/2; 1993-95
Prerequisite: ENG 101. Discussions and laboratory practice in organizing and writing various news and feature stories for the different print media. 25 w.p.m. typing speed required. *Required of all journalism and public communication majors.

COM 102
INTRODUCTION TO BROADCASTING
3, 3/0; F 93, 94
An examination of current programming, philosophies, social effects, and possible developments in radio and television broadcasting.

COM 103
INTRODUCTION TO HUMAN COMMUNICATION
3, 3/0; 1993-95 CH
An investigation of the cultural bases of human communication. Emphasis on rhetorical forms available for the achievement and implementation of social power. Focus on the scientific study of communication, especially theory, constructs, abstractions, and logic.

COM 201
BROADCAST COPYWRITING
3, 2/2; 1993-95
Prerequisite: ENG 101. Discussions and laboratory practice in organizing and writing various news and feature stories for the different media. *Required of all broadcasting majors.

COM 203
WRITING FOR NEWS PUBLICATIONS
3, 2/2; 1993-95
Prerequisite: COM 100, 101. Discussion and extensive laboratory practice in advanced news writing techniques, to include working under extreme deadline pressure.

COM 205
EXPERIENCES IN SPEECH
3, 3/0; 1993-95 CH
Examines the field of speech communication, its

principles and its contexts, including an introduction and overview of the communication process, public speaking, small-group discussion, and criticism of various messages. A performance-oriented course, it emphasizes practical applied skills in a variety of communication situations. (Not to be taken after advanced speech courses.)

COM 206
BROADCAST ANNOUNCING
3, 3/0; Sp 94, 95
Principles of broadcast performance including rudiments of voice and diction and the proper interpretation of broadcast copy. Recommended for students interested in a TV or radio talent career.

COM 222
PRINCIPLES OF BROADCASTING
3, 3/0; 1993-95
Prerequisite: COM 100 or COM 102. An examination of current philosophies and developments in radio and TV broadcasting plus the legal and procedural knowledge necessary for the successful completion of studio production. *Required of all broadcasting majors.

COM 301
PUBLIC RELATIONS/ADVERTISING
3, 2/2; 1993-95
Prerequisite: COM 100, COM 101. Study of the principles of public relations and advertising through fact-finding, planning, communication, and evaluation, with an examination of theories, uses and responsibility of public relations and advertising in contemporary society.

COM 302
INTERVIEWING FOR JOURNALISTS
3, 3/0; 1993-95
Prerequisite: COM 101 & COM 203 for journalism students; COM 201 & COM 205 or COM 206 for broadcast students. The theory, forms, and techniques of interviewing for the mass media, with practical experience in the classroom, the studio, and on the street. Offered in print and broadcast sections.

COM 305
NEWS REPORTING
3, 2/2; 1993-95
Prerequisite: COM 203; COM 302 and COM 319 (may be taken concurrently). Principles and practices of the news gathering and writing process. Emphasis on news recognition, reporting, and preparation. News beats, news sources, research, accuracy, comprehensiveness, and investigation through work with Bengal News Service.

COM 306
PUBLIC SPEAKING
3, 3/0; 1993-95 EH
Prerequisite: COM 205. Organization, delivery, and evaluation of public speeches in a variety of speaking situations.

COM 307
COMMUNICATION AND GROUP PROCESSES
3, 3/0; 1993-95 EH
Prerequisite: COM 205 or permission of instructor. An interdisciplinary approach to discussion which examines the theoretical and practical dimensions of communication in small group decision making and problem solving communication.

COM 308
PUBLIC RELATIONS WRITING
3, 2/2; 1993-95
Prerequisite: COM 100, 101. A survey of all aspects of public relations writing and editing with practice in applying the techniques discussed.

COM 309
PERSUASIVE SPEAKING
3, 3/0; Sp 94, 95 EH
Prerequisite: COM 205. The format and procedure of argumentation with practice in preparation and delivery of persuasive speeches to diverse audiences.

COM 310
INTERNATIONAL COMMUNICATION
3, 3/0; Sp 94, 95 GEH
Prerequisite: Junior or senior standing. Analyzes the role of international communication in today's global society by a comparative study of the world's press and broadcasting systems. Topics include journalistic values of other countries, differing philosophies of broadcasting, and the process of international communication within the framework of North-South, social, economic, and political divisions of the late 20th century.

COM 317
BROADCAST SALES AND MANAGEMENT
3, 3/0; Sp 94, 95
Prerequisite: COM 100 or COM 102, COM 222, junior or senior standing. The structure, organization, procedures, and problems of radio and television systems management and sales; case studies relating to broadcasting management and sales including personnel, programming, sales development, station promotion, and special problem areas.

COM 318
INTERNAL PUBLIC RELATIONS MEDIA
3, 3/0; F 93, 94
Prerequisite: COM 301, COM 308, junior or senior standing. Planning and production of newsletters and video materials for internal public relations uses.

COM 319
NEWS EDITING
3, 2/2; 1993-95
Fundamentals of copy editing, headline writing, and newspaper layout and make-up. Practice in

the relevant skills needed in the electronic newsroom.

COM 321
RHETORICAL CRITICISM
3, 3/0; Sp 94, 95
Prerequisite: Junior or senior standing or permission of instructor. Instruction in the analysis of persuasive messages, designed to teach students to recognize and respond analytically to strategies used by public persuaders to influence them. Focus on political speeches, commercial advertising, protest music, and a variety of other forms of purposeful communication.

COM 322
LAYOUT AND GRAPHICS
3, 2/2; 1993-95
Prerequisite: COM 301 or 319. The application of effective visual communication to newspaper layout, magazine layout, and other printed publications.

COM 323
DESKTOP PUBLISHING/NEWSPAPER DESIGN
3, 2/2; 1993-95
Prerequisite: COM majors or permission of instructor. Study of the principles of newspaper page design and typography; the use of those principles to create, through desktop publishing, newspaper pages, brochures, and newsletters.

COM 325
FEATURE AND MAGAZINE ARTICLE WRITING
3, 3/0; Sp 94, 95
Analysis and writing of magazine articles and newspaper features, including free-lancing procedures.

COM 326
WRITING EDITORIALS AND REVIEWS
3, 3/0; Sp 94, 95
Extensive study, analysis, and writing of editorials and reviews.

COM 328
RADIO STUDIO OPERATIONS
3, 2/2; 1993-95
Prerequisite: COM 100, 222, majors. An introduction to the fundamentals of radio broadcasting and radio production techniques, designed to provide a laboratory experience in the principles and techniques of the radio station. It is the corollary of COM 329, Beginning Television Studio Operations. *Required of all broadcasting majors.

COM 329
BEGINNING TELEVISION PRODUCTION
3, 2/3; 1993-95
Prerequisite: COM 201, COM 222. An introduction to the theory, aesthetics, and fundamentals of television production through lecture and in-studio production projects.

**COM 330
INTERMEDIATE TELEVISION
PRODUCTION**

3, 2/2; 1993-95

Prerequisite: COM 329. Theoretical and practical applications of television production techniques in a weekly newscast format.

**COM 332
CONTEMPORARY ISSUES IN
TELECOMMUNICATIONS**

3, 3/0; 1993-95

Prerequisite: COM 100, COM 222. A cultural approach to understanding the impact of telecommunication on society and appreciation for the development of telecommunication industries.

**COM 333
MINORITY VOICES AND THE MEDIA**

3, 3/0; Sp 94, 95

Prerequisite: Junior or senior standing or permission of instructor. A critical exploration of representation in the media, focusing on women, African-Americans, gays and lesbians, and other traditionally underrepresented groups.

**COM 337
BROADCAST NEWS**

3, 3/0; 1993-95

Prerequisite: Major or instructor permission. The theory, forms, and techniques of writing and presenting news for radio and television, with practical experience in the classroom and the studio.

**COM 400
LAW OF MASS COMMUNICATION**

3, 3/0; 1993-95

Prerequisite: Junior or senior standing. Study of the rights of mass media and constraints placed on them under law: libel, privacy, journalistic privilege, free press/fair trial, obscenity, advertising law.

**COM 401
COMMUNICATION THEORY**

3, 3/0; 1993-95

Prerequisite: Junior or senior standing. A study of communication theory, research, and philosophy. Emphasis is upon applications of communication theory to the message design and source-receiver identification.

**COM 402
COMMUNICATION AND VISUAL IMAGES**

3, 3/0; 1993-95 EA

Prerequisite: Junior or senior standing. Practical applications of media to the solution of specific communications problems. Experience with a wide range of visual and oral communication media techniques.

**COM 407
ORGANIZATIONAL COMMUNICATION**

3, 3/0; 1993-95

The structure, behavior, and message strategies

in an organization, including practice in creating and exchanging effective verbal and nonverbal communication in an organization.

**COM 408
PUBLIC RELATIONS CASE STUDIES**

3, 3/0; 1993-95

Prerequisite: COM 301, 308. A course for advanced students in Public Communication, stressing the application of communication principles, techniques, and programs to real-life organization problems and opportunities.

**COM 410
MASS COMMUNICATION HISTORY**

3, 3/0; F 93, 94

Prerequisite: Junior or senior standing. Historical survey of the technology and social evolution of journalism and the broadcasting industries, including an analysis of their roles in American society.

**COM 412
BROADCAST PROGRAMMING**

3, 3/0; F 93, 94

Prerequisite: Majors or instructor permission, junior or senior standing. An examination of the strategy of broadcast programming. The course analyzes both television and radio programming situations. Topics include network, local affiliate, and independent television programming along with AM and FM programming trends.

**COM 415
ADVANCED REPORTING**

3, 2/2; 1993-95

Prerequisite: COM 305. Techniques, problems, and trends in modern depth reporting. Practice in developing and writing stories on a wide variety of subject areas.

**COM 418
PRINCIPLES OF
PUBLICITY COPYWRITING**

3, 2/2; 1993-95

Prerequisite: COM 301. Writing techniques for publicity and advertising. Practice in purposive communication including news releases, pamphlets, publicity campaigns, advertising copy and layout, type selection, media selection.

**COM 422
MASS MEDIA CRITICISM**

3, 3/0; F 93, 94

Prerequisite: Junior or senior standing. An introductory course in the analysis and criticism of such mass media artifacts as advertisements, newscasts, political messages, docudramas, situation comedies, soap operas, and religious programming, aimed at providing students with an understanding of the persuasive impact of such communication.

**COM 424
VIETNAM AND THE MEDIA**

3, 3/0; Sp 94, 95

Prerequisite: Junior or senior standing. An examination of the role of the print and electronic media in the coverage, depiction, and "recreation" of the Vietnam war and the Vietnam veteran.

**COM 428
ADVANCED RADIO PRODUCTION**

3, 3/0; Sp 94, 95

Prerequisite: COM 328, majors only. An advanced course in all aspects of audio production with particular emphasis on commercial radio production, including projects in programming, production and promotion.

**COM 429
ADVANCED TELEVISION PRODUCTION**

3, 4/0; 1993-95

Prerequisite: COM 330, permission of instructor. A practical program with emphasis on individual training in specialized television production techniques.

**COM 430
TELECOMMUNICATION REGULATION**

3, 3/0; 1993-95

Prerequisite: Junior or senior standing. The course examines such issues as why the First Amendment permits greater regulation of broadcasters than the press. Regulation pertinent only to broadcasting will be examined in depth. Also examined: speech which is not protected by the First Amendment, FCC regulations, and copyright problems.

**COM 440
ELECTRONIC NEWS GATHERING**

3, 2/2; 1993-95

Prerequisite: COM 329, 330. Provides a perspective of electronic news gathering based upon its history and ethics. Teaches the techniques of shooting and editing videotaped news stories. Using 3/4-inch portable equipment, students will shoot stories for news and feature programs.

**COM 488
INTERNSHIP**

3; 1993-95

Prerequisite: Junior or senior standing and permission of instructor. Supervised field experiences in a professional setting for students who have completed extensive academic preparation in the discipline. Fifty hours of field work in journalism, broadcasting, or public relations-advertising per credit.

**COM 495
PROJECT****COM 499
INDEPENDENT STUDY**

Computer Information Systems

Offered by the Computer Information Systems Department
DR. WILLIAM C. SCHULTZ, Chairperson
Chase Hall 201

**CIS 101
COMPUTER FUNDAMENTALS**

3, 3/0; 1993-95 CT

A study of the characteristics, organization, and use of the computer. The function of the basic portions of the computer will be identified and explained. Minor emphasis is placed on computer programming fundamentals with the writing of several short programs. A broad survey of applications, as well as impact on society, will be discussed. *Course does not apply toward the fulfillment of CIS elective requirements for CIS majors.

**CIS 111
INTRODUCTION TO FORTRAN**

3, 3/0; 1993-95 CT

Prerequisite: CIS 101 or equivalent. Description of computers; concepts of languages and programming. FORTRAN language programming including a study of basic properties of computer languages such as branching, looping, table handling, subprograms and their application to the solution of a variety of problems. Enhancement of FORTRAN programming skills through actual use of the computer. *Course does not apply toward the fulfillment of CIS elective requirement by CIS majors.

**CIS 151
COMPUTER BASED INFORMATION
PROCESSING I**

3, 3/0; 1993-95 ET

Prerequisite: CIS 101 or equivalent. Description of computers; concepts of languages and programming; study of basic properties of computer languages such as branching, looping, table handling, subprograms and their application to the solution of a wide variety of problems. Emphasis on structured language with enhancement of programming skills through actual use of the computer. *Required for majors. Prospective CIS majors must earn at least a C in this course.

**CIS 201
INTRODUCTION TO MICROCOMPUTER
APPLICATIONS**

3, 3/0; Sp 94, 95 ET

Prerequisite: CIS 101. Introduction to microcomputers and popular applications. Students will work with several current software packages used for business applications. *Course does not apply toward the fulfillment of CIS elective requirement by CIS majors.

**CIS 214
INTERACTIVE COMPUTING**

3, 3/0; offered based on staff availability

Prerequisite: CIS 151 or permission of instructor. A thorough review of interactive computer systems and languages will be undertaken. Applications of interactive computer to the management information field as well as to a wide variety of other disciplines such as mathematics, social sciences, engineering and physical sciences will be described. Projects will be assigned enhancing the student's knowledge of the various languages such as APL and BASIC as well as the different interactive systems supporting these languages.

**CIS 251
COMPUTER BASED INFORMATION
PROCESSING II**

3, 3/0; 1993-95

Prerequisite: CIS 151 or equivalent. Continuation of CIS 151. Description of computer units, data, memory, systems analysis and how data is processed. Emphasis on structured programming languages, such as Pascal, PL/I, ALGOL. *Required for majors.

**CIS 260
DATA STRUCTURES**

3, 3/0; offered based on staff availability

Prerequisite: CIS 251. A study of properties of various techniques for representing relationships between data elements and between records (lists, trees, networks, stacks, etc.). Storage and processing implications. Programming assignments will be used to enhance classroom lectures.

**CIS 311
OPERATION RESEARCH WITH
FORTRAN**

3, 3/0; F 93, 94

Prerequisite: CIS 370. Development of quantitative models that are used in solving management science problems. Computer programs will be used to solve typical problems in management science. *Required for majors.

**CIS 315
COMPUTER ORGANIZATION**

3, 3/0; F 93, 94

Prerequisite: CIS 151. Description of the hardware aspects of computer systems. Familiarize the student with hardware design and structural organization of a computer system. *Required for majors.

**CIS 318
SIMULATION AND MODELING**

3, 3/0; offered based on staff availability

Prerequisite: CIS 311, MAT 111. Models and the scientific methods. Characteristics of simulation models. Models of dynamic systems for machine implementation. Simulation languages. Model design. Experimental optimization. Application of computer modeling, using a simulation language, to specific areas such as queueing.

**CIS 350
ASSEMBLY LANGUAGE
PROGRAMMING**

3, 3/0; F 94, 94

Prerequisite: CIS 315. One assembler-type language will be covered depth. Programming assignments will be made to develop skills in utilizing a low level language. The student will gain understanding of basic features such as main storage, registers, and the actual instruction set. *Required for majors.

**CIS 351
STRUCTURED PROGRAMMING**

3, 3/0; offered based on staff availability

Prerequisite: CIS 251. Introduce the student to additional structured techniques or structured programming languages. Programs, assignments and examples will extend the student's knowledge of Data Structures and File Structures as well as illustrate language features.

**CIS 370
SYSTEMS ANALYSIS AND DESIGN**

3, 3/0; Sp 94, 95

Prerequisite: CIS 151. To introduce the student to information analysis and system design. Topics include: the systems concept, defining a system, systems analysis, hardware elements, software elements, case studies. *Required for majors.

**CIS 380
MICROCOMPUTER APPLICATIONS**

3, 3/0; Sp 94, 95

Prerequisite: CIS 370. Description of the microcomputer hardware and operating systems. Students will work with several current software packages used for business applications.

**CIS 390
COMPUTER GRAPHICS**

3, 3/0; offered based on staff availability

Prerequisite: CIS 311, 370, junior or senior standing. An introduction to the software, hardware, and aesthetics of computer graphics with emphasis on forms commonly used for business purposes. Coverage will include theory of computer graphics, purposes, principles and techniques of communication using graphic forms, practical graphics programming, and an introduction to software packages and hardware systems in current graphics technology. Hands-on programming exercises will permit students to create graphic forms representing constructs studied in the classroom. Interactive graphics in the form of CAD/CAM, games, and simulation will be considered.

**CIS 405
COMPREHENSIVE COBOL
PROGRAMMING**

3, 3/0; F 93, 94

Prerequisite: CIS 251. An intensive study of the COBOL language and its uses for commercial applications. Emphasis on COBOL fundamentals and advanced features, program design and style, and file handling. Programming projects

will involved commercially-oriented applications programs in an IBM environment. *Required for majors.

CIS 410 COMPUTER OPERATING SYSTEMS

3, 3/0; Sp 94, 95
Prerequisite: CIS 315. A study of computer operating systems, their functions and components. Scheduling and execution of jobs, task management and interrupts. Case studies of currently used operating systems. *Required for majors.

CIS 411 DATABASE SYSTEMS

3, 3/0; F 93, 94
Prerequisite: CIS 370. A study of the basic concepts and uses of Database systems. Topics include organization, analysis, and function of database systems. Components of representative CODASYL, Hierarchic and Relational Databases will be presented. *Required for majors.

CIS 420 DATA BASE MANAGEMENT SYSTEMS

3, 3/0; Sp 94, 95
Prerequisite: CIS 411. Advanced concepts of Database Management including Data Modeling, features and uses of Database Management Systems, Data and Data Base Administration, and Data Dictionary.

CIS 425 COMPARATIVE COMPUTER LANGUAGES

3, 3/0; offered based on staff availability
Prerequisite: CIS 405. The structure and properties of several representative languages will be compared and evaluated. Programming projects will be assigned to illustrate various concepts.

CIS 430 APPLIED COBOL

3, 3/0; Sp 94, 95
Prerequisite: CIS 405. The use of COBOL in a variety of environments including batch, interactive and with a data base management system. Emphasis on file handling and design. Programming projects.

CIS 435 COMPUTER SEMINAR

3, 3/0; offered based on staff availability
Prerequisite: Permission of instructor. Topics will be selected from subjects not covered in formal courses.

CIS 442 ADVANCED SYSTEMS APPLICATIONS

3, 3/0; 1993-95
Prerequisite: CIS 411. Information systems in complex organizations. Techniques of information systems analysis and design. Detailed study of a representative real-world information system. Case studies, group work, and oral presentations. *Required for majors.

CIS 450 ADVANCED ASSEMBLY LANGUAGE PROGRAMMING

3, 3/0; offered based on staff availability
Prerequisite: CIS 350. IBM 360/370 assembler language will be covered in detail. Students will learn advanced features of the language and write several programs using the language.

CIS 470 DATA COMMUNICATIONS

3, 3/0; F 93, 94
Prerequisite: CIS 315. Survey of technical, regulatory, systems, and management aspects of computer data communications. Theory of communications, concepts of hardware implementing that theory, and protocols and conventions essential to efficient operation will be covered in detail. In addition LAN's, packet switching networks and other forms of organization will be treated along with communication integrity and regulatory issues central to data communications systems planning and implementation. *Required for majors.

CIS 481 C PROGRAMMING LANGUAGE

3, 3/0; offered based on staff availability
Prerequisite: Two programming classes beyond CIS 101. The C programming language will be covered in depth. Several programs will be assigned as laboratory exercises to develop the students' skills in the language. This course qualifies as a CIS restricted elective.

CIS 488 INTERNSHIP

3, 3/0; 1993-95
Prerequisite: CIS 370, junior or senior standing and permission of instructor. Qualified students will be placed in functioning organizations to work as trainees, on special projects, studies, or in any relevant aspect of real-world data processing.

CIS 495 PROJECT

Offered based on staff availability.

CIS 499 INDEPENDENT STUDY

Offered based on staff availability.

Creative Studies

Offered by the Center for Studies in Creativity
DR. SCOTT G. ISAKSEN, Director
Chase Hall 244

CRS 205 INTRODUCTION TO CREATIVE STUDIES

3, 3/0; F, Sp, S 1993-95 E

The purpose of this course is to increase the degree to which students recognize and nurture their creative potential. The course focuses on four aspects of creativity: the creative person, the creative process, the creative product, and the creative environment. It further emphasizes the interactive nature of these elements and provides for individual application in personal and professional settings.

* CRS 302 CREATIVE APPROACHES TO PROBLEM SOLVING

3, 3/0; F, Sp 1993-95 E
Prerequisite: CRS 205. This course will allow students to develop skill in using a broad array of creative problem solving methods and techniques. The emphasis of this course is on the application of these technologies to challenges, goals, and opportunities students face in their personal and professional lives.

CRS 303 CREATIVE LEADERSHIP THROUGH EFFECTIVE FACILITATION

3, 3/0; F 1993-95 E
Prerequisite: Instructor Permission. This course will provide students with exposure to and practice in leadership and facilitation concepts as they relate to creative problem-solving groups. Students will examine their leadership style and study specific methods and techniques to help in working with groups. Students will apply these concepts and skills to their own leadership roles.

CRS 304 DEVELOPING CREATIVE PROBLEM SOLVING FACILITATION SKILL

3, 3/0; Sp 1993-95
Prerequisite: CRS 205, CRS 302, CRS 303 and permission of instructor. This course is designed to develop and apply facilitation and leadership skills in a variety of settings. Students will participate in supervised practice using creative problem-solving techniques with groups and individuals.

CRS 305 SEMINAR/METAPHORICAL PROBLEM SOLVING

1, 1/0; F 1993-95
Prerequisite: CRS 205, CRS 302 and instructor permission. Selected topics of current interest related to theories, methods, and models of metaphorical problem solving with a particular emphasis on synectics.

CRS 306 SEMINAR/CRITICAL/ANALYTICAL PROBLEM SOLVING

1, 1/0; F 1993-95
Prerequisite: CRS 205, CRS 302 and instructor permission. Selected topics of current interest related to methods, techniques, and models of problem solving with particular emphasis on creative analysis and Kepner-Tregoe approaches.

CRS 320 APPLICATIONS OF CREATIVITY AND INNOVATION

3, 3/0; F, Sp 1993-95 E
Prerequisite: CRS 205. This course is designed to provide students with a general awareness of how creative persons apply creative processes within a creative environment to produce novel and useful products. It explores the nature of creative persons and those factors that encourage or inhibit creative outcomes. A general awareness of research in the field is examined to provide personal experience about the application of creativity in the arts, science, education, and business. Students will develop their personal creative ability through class activities, readings, and interaction.

Criminal Justice

Offered by the Criminal Justice Department
DR. JOHN A. CONLEY, Chairperson
Classroom Building C114

CRJ 101 INTRODUCTION TO CRIMINAL JUSTICE

3, 3/0; 1993-95 CT
This course examines the structure, function, practices, policies, and objectives of the criminal justice system. The course will emphasize three themes underlying all stages of the criminal justice system: (1) resource scarcity, (2) discretionary powers, and (3) interdependence or exchange relationships among criminal justice agencies.

CRJ 201 CRIMINAL LAW AND PROCEDURE

3, 3/0; F 93, 94 CT
Prerequisite: CRJ 101 This course is designed to offer the student a clear understanding of the substantive and procedural processes used by the criminal justice system. Various laws and procedures which are applied by law enforcement, prosecutors, attorneys, and the judiciary are presented and discussed in an effort to provide the student with an overall understanding of the criminal law and its procedures.

CRJ 202 THE POLICE PROCESS

3, 3/0; 1993-95
This course provides a comprehensive introduction to the basic elements of policing in the United States. It is designed to acquaint the student with the most current knowledge about police organizations, police officers, police work, and the more critical police problems.

CRJ 203 CRIME, IDEOLOGY AND THE ADMINISTRATION OF JUSTICE

3, 3/0; F 93, 94
Prerequisite: CRJ 101. This course examines the social, political, cultural and economic forces that shape the historical and contemporary ideologies of crime. It also examines the influences different ideologies of crime have upon the policies and practices of the criminal justice system.

CRJ 204 THE CORRECTIONAL PROCESS

3, 3/0; 1993-95
This course surveys the correctional process from sentencing to parole, examining the various legal and administrative processes used in establishing post-conviction remedies, criminal sanctions, and social controls on adult offenders. An emphasis will be given to understanding the structure and function of American correctional system, and the various processes in establishing correctional custody and treatment.

CRJ 301 POLICE ORGANIZATION AND MANAGEMENT

3, 3/0; 1993-95
Prerequisite: CRJ 101 or permission of instructor, and junior standing. Analysis of administrative theory and practice in police systems with emphasis on organization and function and on issues unique to those systems.

CRJ 302 CRIMINAL JUSTICE AND THE COMMUNITY

3, 3/0; 1993-95 CT
An examination of patterns of crime in the community and of the community's response; differences between urban and suburban areas, as well as by age, gender and race; inquiry into practices and effects of diversion, community-based corrections, victim-witness programs, crime watch, court watch, restitution, mediation and dispute resolution programs.

CRJ 305 THE JUVENILE JUSTICE SYSTEM

3, 3/0; 1993-95
Prerequisite: CRJ 101 and SOC 390 and junior standing. An overview of the structure and function of the juvenile justice system, the various statutes and court decisions used to determine jurisdiction over youth, an examination of the critical decision-making stages of the juvenile court process, and a review of the research concerning the relative effectiveness of treatment and social control programs for youth. An emphasis will be placed on the historical, cultural, social, and legal influences governing the process, priorities, and practices of juvenile justice.

CRJ 306 PROBATION, PAROLE AND COMMUNITY CORRECTIONS

3, 3/0; 1993-95
Prerequisite: CRJ 101 and junior standing. A review of probation, parole and community corrections; their histories and organizational structures, the nature and the effects of the process by which offenders are handled, as well as the dynamics and trends toward change in the field of probation, parole and community-based corrections.

CRJ 307 COMPARATIVE CRIMINAL JUSTICE SYSTEMS

3, 3/0; 1993-95 G
Prerequisite: CRJ 101. This course examines the major contemporary criminal justice systems and their operations under various cultural contexts. Efforts will focus on the social, economic, political, and ideological forces which have impacted the various systems as they are today. Methodological issues of comparative research will also be included in the discussion.

CRJ 315 RESEARCH METHODS IN CRIMINAL JUSTICE

3, 3/0; 1993-95
Prerequisite: CRJ 101, ECO 305 or equivalent statistics course and junior standing. Introduction to the elements of the research process as it is practiced in criminal justice: definition of problem, delineating theory, various methods of data collection, examination of validity and reliability. Use of research devices in everyday criminal justice is discussed, and students participate in some aspect of research.

CRJ 316 FIELD STUDIES

6, 3/8; varies by need. NOTE: Course under review by Department. Contact Department for information.

This course provides for the integration of theoretical knowledge with practical field work gained by working a minimum of one day (8 hours) a week in a criminal justice agency. Weekly seminar also required. (Inservice students must be placed in fields other than that in which they are employed.) *Graded S/U.

CRJ 317 CONSTITUTIONAL ISSUES IN CRIMINAL JUSTICE

3, 3/0; Sp 93, 94 ET
Prerequisite: CRJ 101, CRJ 201, and junior standing or permission of instructor. This course examines constitutional issues emerging within the context of the criminal justice system; law enforcement, prosecution, defense, judiciary, corrections, and community supervision. U.S. Supreme Court decisions reversing and modifying previous case law and effecting criminal justice practice and policy will be presented and discussed.

CRJ 402 ADVANCED ADMINISTRATION IN CRIMINAL JUSTICE

3, 3/0; 1993-95

Prerequisite: CRJ 101, junior standing, and completion of introductory course in Pub. Admin., Bus. Mgmt. or CRJ Admin. This is an advanced course in management concepts and issues applicable to the administration of criminal justice agencies. Emphasis will be placed on a systems model of organizational analysis. Areas such as the external environment of crime control policy and its impact upon agency operations, internal agency management, and the responsibilities and functions of crime control agency managers will be examined.

CRJ 406 CORRECTIONAL INSTITUTIONS AND PROGRAMS

3, 3/0; 1993-95

Prerequisite: CRJ 101, 204, junior standing, or permission of instructor. This course provides a comprehensive survey of adult institutional corrections systems, their programs and services, and the policies and procedures governing the operational, legal, and structural context of correctional environments. An emphasis will be given to the analysis of organizational and social dynamics which effect the relative success or failure of various correctional interventions and programs.

CRJ 408 PROSEMINAR IN CRIMINAL JUSTICE

3, 3/0; topic varies; 1993-95

Investigation, examination, and discussion of topics of current interest in criminal justice, techniques and analysis of criminal justice research.

CRJ 409 ADVANCED ISSUES IN LAW ENFORCEMENT

3, 3/0; 1993-95

Prerequisite: CRJ 101, CRJ 202, junior standing, or permission of instructor. This is an advanced course looking at contemporary issues in Law Enforcement. It is designed to provide insight and depth into a broad range of topics and to expose the student to a variety of experts and specialists from various disciplines as they relate to these topics.

CRJ 420 ADVANCED ISSUES IN PUNISHMENT AND CORRECTIONS

3, 3/0; 1993-95

Prerequisite: CRJ 101, CRJ 204 or CRJ 406 and SOC 383, junior standing. This course provides a critical analysis of contemporary policies, practices, and issues arising from the control and punishment of criminal offenders. Special attention will be given to understanding the complexity of recent issues such as those related to disparity in criminal sentencing, the use of the death penalty, institutional overcrowding, the treatment of institutionalized persons, and the com-

munity supervision of non-incarcerated offenders. The focus of analysis will vary according to the interest of faculty and students.

CRJ 470 ADVANCED SEMINAR IN CRIMINAL JUSTICE

3, 3/0; Sp 93-94

Prerequisite: Completion of 24 credits of CRJ course work, junior standing. This seminar provides for the analysis, evaluation, and summation of criminal justice issues, concepts, theories, research findings, and knowledge acquired by students during their total learning experience within the criminal justice program at Buffalo State College and other colleges.

CRJ 495 PROJECT

CRJ 499 INDEPENDENT STUDY

Dance

Offered by the Performing Arts Department
DONNA E. MCCARTHY, Chairperson
Rockwell Hall 203

The 21-credit dance minor includes DAN 200, DAN 220, DAN 224, DAN 302, DAN 303, DAN 312 and DAN 330.

DAN 200 BEGINNING MODERN TECHNIQUE I

3, 1/4; 1993-95 CA

Technical dance instruction, exploration of movement in relation to time, space, energy, and principles of alignment. Modern dance history.

DAN 220 BEGINNING BALLET

3, 1/4; 1993-95 CA

An intensive introduction to ballet through technical instruction, anatomical and aesthetic foundations, ballet history and vocabulary.

DAN 224 DANCE APPRECIATION

3, 3/0; 1993-95 CA

An elementary course in the history and philosophy of dance from ancient times until the present. Emphasis is placed on the development of ballet and modern dance. Evaluation and criticism of dance are included.

DAN 230 SURVEY OF AFRO-AMERICAN DANCE

3, 1/4; offered based on staff availability; D
Technique, practice, readings, and projects in dance and Black culture. Current practices of Black dance in relation to Euro-American techniques.

DAN 250 JAZZ DANCE

3, 1/4

Prerequisite: DAN 200 or 220 or equivalent. Technique, studies and compositional problems illustrating the diverse possibilities of jazz dance, special attention to the ethnic foundations of this form.

DAN 302 MODERN DANCE TECHNIQUE II

3, 1/4; F 93, 94 EA

Prerequisite: DAN 200 or permission of instructor. Designed to develop and strengthen technical dance skills. Fundamental principles of movement in relation to dynamics, rhythm, and space; introduction to improvisation and modern dance history.

DAN 303 DANCE COMPOSITION

3, 1/4; Sp 94 EA

Prerequisite: One semester of modern dance or equivalent and/or permission of instructor. Instruction in the techniques of composition; practical research in the craft of choreography through improvisation, creation of individual and group compositions.

DAN 310 DANCE FOR THE MUSIC THEATER

3, 1/4

Prerequisite: DAN 250. A continuation of DAN 250 emphasizing the technique and history of the diverse dance forms required in the music theater.

DAN 312 MODERN DANCE TECHNIQUE III

3, 1/4; Sp 94, 95 EA

Prerequisite: DAN 302 or permission of instructor. A continuation of Modern Dance Technique II. Emphasis will be placed on expanding and deepening the individual's technical range and quality of movement and expanding the individual's creative ability through improvisation and modern dance history.

DAN 320 REHEARSAL AND PRODUCTION

1, 0/6; repeatable, 1993-95 EA

Open to students by audition only. This course offers the student exposure to various dance performance experiences. The students will be given the opportunity to participate in building a finished dance production, including audition, dance rehearsals, technical rehearsals and performances.

DAN 330 BALLET II

3, 1/4; Sp 94, 95 EA

Prerequisite: DAN 220 or permission of instructor. Comprehensive examination of the technique and historical background of ballet explored in depth through studio work and lecture. Emphasis placed upon strengthening the individual's technical range and understanding of basic concepts and vocabulary.

DAN 340 BALLET III

3, 1/4; F 94

Prerequisite: DAN 330 or permission of instructor. An intermediate level ballet technique course with special emphasis on applications of ideokinesis and historical perspectives.

DAN 350 TAP DANCE FOR THE STAGE: ELEMENTARY

1, 0/2; F 94

Prerequisite: DAN 200 or 220 or permission of instructor. The first course in a two-semester sequence for majors and minors in the performing arts with at least two weekly hours of outside practice plus familiarity with selected readings. The student will be able to comprehend and execute an elementary vocabulary of stage tap.

DAN 401 TEACHING DANCE

3, 3/0; Sp 95

Prerequisite: DAN 302 and permission of instructor. A comprehensive survey of the methods and materials used in teaching dance to students of various ages and backgrounds, explored through research and practical experience. Anatomical and kinesiological principles, injury prevention and treatment for dancers.

DAN 402 ADVANCED MODERN TECHNIQUE IV

3, 0/6

Prerequisite: DAN 312 or permission of instructor. First semester course of a two-semester sequence for students already at the intermediate or advanced levels of modern dance. Opportunities to study with Buffalo State and guest instructors in various techniques chosen from Limon, Cunningham, Graham, jazz, ballet, and other contemporary approaches.

DAN 403 ADVANCED PERFORMANCE STUDIES

3, 0/6

Prerequisite: DAN 302 or permission of instructor. This course will provide advanced students an opportunity for in-depth study of performance techniques not generally presented in technique courses. Students will learn choreography/reperory and develop the ability to dance in ensemble as well as perform solo roles. Students will experience a professional choreographic and/or studio atmosphere under the coaching and direction of the instructor.

DAN 412 ADVANCED MODERN TECHNIQUE V

3, 0/6

Prerequisite: DAN 402 or permission of instructor. A continuation of DAN 402.

DAN 450 TAP DANCE FOR THE STAGE: INTERMEDIATE

1, 0/2; Sp 95

Prerequisite: DAN 350 or permission of instructor.

Advanced vocabulary, styles, and solo/duet work emphasized. Some creative work required. The student will be able to comprehend and execute a substantial portion of traditional Broadway requirements.

DAN 495 PROJECT

DAN 499 INDEPENDENT STUDY

Design

Offered by the Design Department
STEPHEN F. SARACINO, Chairperson
Upton Hall 212

All studio courses in design require at least one hour per week of outside work for each credit, in addition to the regular class meetings. Open studio times are scheduled for this purpose. Note: Students are expected to assume the costs of materials they use in their courses. All studio courses may have an additional instructional charge for materials used in class.

DES 101 INTRODUCTORY DESIGN 2D I

3, 0/6; 1993-95 CA

Development of basic skills and concepts in two-dimensional design; logical and intuitive approaches to pure form and natural sources; emphasis on development of individual solutions.

DES 102 INTRODUCTORY DESIGN 2D II

3, 0/6; 1993-95

Prerequisite: DES 101. Continued development of material covered in Design 101, involving in-depth assignments stressing composition and form, idea development, design process, and color dynamics while strengthening skills and control.

DES 103 INTRODUCTORY DESIGN 3D I

3, 0/6; 1993-95 CA

An exploration of the fundamentals of three-dimensional design, with emphasis on the development of skills related to spatial manipulation via form and structure. The development of manipulative skills in various media.

DES 104 INTRODUCTORY DESIGN 3D II

3, 0/6; 1993-95

Prerequisite: DES 103. The investigation of advanced concepts and manipulation skills related to three-dimensional design. Students are involved in the process of conceptualization, visualization, and evaluation related to design objectives.

DES 105 MECHANICAL AND PERSPECTIVE DRAWING

3, 0/6; 1993-95

Descriptive drawing, including orthographic, isometric, and perspective projection, as an aid in visualizing and planning the construction of three-dimensional art objects.

DES 114 WORKSHOP IN CRAFTS

3, 0/6; 1993-95r CA

Creative experience in crafts, individual projects. *Non-art majors only.

DES 190 DESIGN SYMPOSIUM

3, 3/0; 1993-95 CA

A non-technical study for non-majors as it relates to varied design fields in our culture. Presentation of brief reviews of design as it functions in architecture, planning and environment, metal, wood, ceramics, textiles, advertising, and industrial design.

DES 215 INTRODUCTION TO THE HISTORY OF DESIGN

3, 3/0; 1993-95 EA

A general introduction to the field of design history and criticism, tracing the evolution of form and meaning from primitive cultures through the contemporary world. Special emphasis given to the Industrial Revolution and modern and post-modern culture.

DES 220 CERAMICS I

3, 0/6; 1993-95 EA

Exploration of clay as a medium of expression. Experiences in methods of forming; preparation and application of glaze; firing theory. Study of form and function.

DES 230 INTRODUCTION TO JEWELRY MAKING

3, 0/6; 1993-95 EA

Prerequisite: DES 101. Basic exploration of materials and processes in jewelry making, emphasizing creative design.

DES 235 DESIGN IN METAL

3, 0/6; 1993-95 EA

Metalsmithing as a medium for expression and object design, utilizing the unique qualities of various metals and working techniques.

DES 240 DESIGN IN FIBERS — WEAVING

3, 0/6; 1993-95 EA

Exploration of traditional and experimental techniques in weaving and related fiber processes, including tapestry, twill pattern weaving, and selected problems in various off-loom techniques.

DES 245
DESIGN IN FIBERS — SURFACE DESIGN

3, 0/6; 1993-95 EA
 Study and exploration of textile printing processes, with emphasis on such techniques as silkscreen, batik, and block printing on cloth; aesthetic and practical considerations in design of printed textile.

DES 250
DESIGN IN WOOD

3, 0/6; 1993-95 EA
 Wood as a medium for expression and object design; technical and aesthetic problems.

DES 253
FUNDAMENTALS OF BOAT BUILDING

3, 0/6; 1993-95
Prerequisite: DES 105. A course in which students learn fundamentals of boat design, lofting, and construction through lectures, demonstrations, and the construction of a small boat.

DES 260
INTRODUCTION TO INTERIOR DESIGN

3, 0/6; 1993-95 EA
Prerequisite: DES 105. A basic studio introduction to the theory and practice of interior design. The course will include specific design projects as well as a survey and critique of historical and contemporary practice.

DES 270
VISUAL COMMUNICATION I

3, 0/6; 1993-95
Prerequisite: DES 101, 102, 103, 104, 105. Foundation course for graphic design. Technical knowledge for the preparation and production of art for visual communication.

DES 271
LETTERING AND TYPOGRAPHY I

3, 0/6; 1993-95
Prerequisite: DES 270. The uses of typographic forms in graphic design. Problems in expression and appropriate application and layout; type specification, indication, copyfitting. Study of the origins of the Western alphabet.

DES 307
ADVANCED DESIGN I

3, 0/6; 1993-95
Prerequisite: DES 101, 102, 103, 104, 105. The continued study of origins, meaning, and dimensions of color. Theoretical two-dimensional and multidimensional problems.

DES 309
PRINCIPLES OF PERSPECTIVE DRAWING

3, 0/6; 1993-95
Prerequisite: DES 105. A continuation of DES 105. Problems in one- and two-point perspective drawing as a means of visualization. The projection of space and volume. The use of perspective as a working design process.

DES 316
DESIGN IN THE NINETEENTH CENTURY

3, 3/0; offered based on staff availability
Prerequisite: DES 215 or permission of instructor. Theoretical foundations and historical developments of design from the end of the 18th century to World War I. Emphasis on the effects of the Industrial Revolution on graphic design, industrial design, interiors, costume, and crafts.

DES 317
DESIGN IN THE TWENTIETH CENTURY

3, 3/0; 1993-95
Prerequisite: DES 215 or permission of instructor. Examination of the historical and theoretical foundations of design in the 20th century, concentrating on developments in graphic, industrial, and craft design from the 1890s to the present and emphasizing the unique conditions of the present century with respect to new technology and new media.

DES 318
SCENOGRAPHY

3, 0/6; offered based on staff availability
 Design for stage; philosophy, theory, practices in design for the dramatic arts; the relationship of scenery, costume, makeup, lighting, and allied stage crafts; function of the designer; development of theater design problems from the design concept to working drawings to the making of models.

DES 319
HISTORY AND THEORY OF WATERCRAFT DESIGN

3, 3/0; offered based on staff availability
Prerequisite: DES 215 or permission. A survey of the history and theory of naval architecture and watercraft design with special attention to the development of design solutions within specific cultural contexts. Special emphasis will be given to American small craft and local traditional designs.

DES 320
CERAMICS II

3, 0/6; 1993-95
Prerequisite: DES 220. Studio practice in pottery form, glaze, and firing methods, through assigned problems and individual interests. Lectures and laboratory in glaze materials and glaze design.

DES 321
CERAMICS: JUNIOR STUDIO

3-12 (3-6 hrs/sem) 0/6-0/12; 1993-95
Prerequisite: DES 320. Advanced study and experience in the total ceramic process through assigned problems and according to individual personal interests.

DES 330
APPLIED JEWELRY TECHNIQUES

3, 0/6; 1993-95
Prerequisite: DES 230. To develop the competence in execution of the basic jewelry techniques. Experiment with and incorporate non-

traditional materials in jewelry with stress on the aesthetics of jewelry design.

DES 331
JEWELRY: JUNIOR STUDIO

3-12 (3-6 hrs/sem) 0/0-6/12; 1993-95
Prerequisite: DES 330. Advanced exploration of materials and processes used in jewelry making with emphasis on design aspects. Individually selected projects.

DES 336
METALSMITHING II

3, 0/6; 1993-95
Prerequisite: DES 235. Advanced experience in metalsmithing as a continuation of forming techniques introduced in DES 235.

DES 337
METALSMITHING: JUNIOR STUDIO

3-12 (3-6 hrs/sem) 0/6-0/12; 1993-95
Prerequisite: DES 336. Practical application of metalsmithing techniques with emphasis on raising, forging, welding, riveting, casting, spinning, and other forming methods; parallel studies of work of leading designers, craftspeople; tutorial relationship with instructor; extra class assignments, including minimum studio hours equal to class hours.

DES 341
FIBER-WEAVING: JUNIOR STUDIO

3-12 (3-6 hrs/sem) 0-6-0/12; 1993-95
Prerequisite: DES 240. Study and experience in basic technique of floor loom weaving; pattern drafting; expressive and controlled design in woven fabric structures; aesthetic and practical considerations.

DES 346
FIBER-SURFACE DESIGN: JUNIOR STUDIO

3-12 (3-6 hrs/sem) 0/6-0/12; 1993-95
Prerequisite: DES 245. Advanced study and exploration of textile printing processes, with emphasis on such techniques as silkscreen, batik, and block printing on cloth; aesthetic and practical considerations in the design of printed textiles.

DES 350
TECHNICAL PROCESSES IN WOOD

3, 0/6; 1993-95
Prerequisite: DES 250. An exploratory course designed to expose students interested in contemporary design to the technical processes being utilized in the field today. Processes to be emphasized will be joinery, laminating, steam-bending, vacuum forming, veneering, and finishing.

DES 351
WOOD DESIGN: JUNIOR STUDIO

3-12 (3-6 hrs/sem) 0/6-0/12; 1993-95
Prerequisite: DES 350. The design and creation of a major project in wood, approached from the viewpoint of the designer-craftsperson utilizing a range of techniques, and hand, power, and machines tools, as needed.

DES 360
INTERIOR DESIGN II

3, 0/6; 1993-95
Prerequisite: DES 260. The exploration of functional criteria and the development of skills essential to the interior designer as they relate to residential and small commercial projects.

DES 361
INTERIOR DESIGN III

3-12 (3-6 hrs/sem) 0/6-0/12; 1993-95
Prerequisite: DES 360. A class for junior majors covering the entire interior design process from space planning to presentation through study and development of actual cases. Involves development of advanced skills and technical concepts.

DES 370
VISUAL COMMUNICATION II

3, 0/6; 1993-95
Prerequisite: DES 271. Design problems in visual communication. Emphasis on creative problem solving and appropriate application to promotional and editorial communication.

DES 371
LETTERING AND TYPOGRAPHY II

3, 0/6; Sp 94, 95
Prerequisite: DES 370. A continuation of the exploration of typography as an expressive and functional communication medium. Emphasis on design criteria, theories of interpretation, and personal creativity. Review of current technology.

DES 374
ADVERTISING DESIGN

3-6 (3 hrs/sem) 0/6; 1993-95
Prerequisite: DES 271, 380. Principles of advertising design as visual communication, motivation, and persuasion; problems in advertising and publication design; illustration, media, and techniques; typographic design and reproduction processes.

DES 380
ILLUSTRATION

3-6 (3 hrs/sem) 0/6; 1993-95
Prerequisite: DES 105, FAR 101, DES 270. Application of drawing and rendering skills to client-oriented problems. Emphasis on relationship of style to required content; experimentation with techniques in black-and-white and color.

DES 384
CHILDREN'S BOOK ILLUSTRATION

3, 0/6; offered based on staff availability
Prerequisite: DES 270, 380, or permission. A survey of illustration in children's literature, including problems devoted to defining, developing, and evaluating an effective relationship between verbal and visual imagery; exploration of media, technique, and style, stressing individual interpretation and development based on the understanding of skill, communication, production, design, and audience.

DES 414
SENIOR SEMINAR/EXHIBITION

4, 3/2; Sp 93, 95
 A series of lectures and discussions concerning topics such as self-presentation concepts; job and professional interviews; business practices, record keeping, and taxes; legal contracts and copyrights; exhibitions and promoting personal work.

DES 419
EXHIBITION TECHNIQUES

3, 0/6; offered based on staff availability
 Basic design theory and communication in the field of exhibits, displays, and signage. Emphasis on structural concepts, lighting, kinetics, function, materials, and visual aesthetics. Additional credit by special arrangement with the instructor.

DES 421
CERAMICS: SENIOR STUDIO

3-12 (3-6 hrs/sem) 0/6-0/12; 1993-95
Prerequisite: DES 321. Emphasis on the development and presentation of the student's personal direction in clay, culminating in a portfolio presentation and a final show.

DES 431
JEWELRY: SENIOR STUDIO

3-12 (3-6 hrs/sem) 0/6-0/12; 1993-95
Prerequisite: DES 331. A concentration of studio work by the senior major in jewelry. The student will plan and execute a series of problems and projects in consultation with his or her instructor.

DES 437
METALSMITHING: SENIOR STUDIO

3-12 (3-6 hrs/sem) 0/6-0/12; 1993-95
Prerequisite: DES 337. Practical application of metalsmithing techniques with emphasis on raising, forging, welding, riveting, casting, spinning, and other forming methods; parallel studies of work of leading designers/craftspersons; tutorial relationship with instructor; extra class assignments, including minimum studio hours equal to class hours.

DES 441
FIBER-WEAVING: SENIOR STUDIO

3-12 (3-6 hrs/sem) 0/6-0/12; 1993-95
Prerequisite: DES 240, 245, 341 desirable. Exploration of various fiber techniques on an advanced level, including multiple harness pattern weaving, garment design, dyed warp methods, and various combinations of traditional and experimental techniques according to student interest and need.

DES 446
FIBER-SURFACE DESIGN: SENIOR STUDIO

3-12 (3-6 hrs/sem) 0/6-0/12; 1993-95
Prerequisite: DES 346. A concentration of studio work by the senior major in fiber. The student will plan and execute a series of self-determined problems and projects in consultation with his/her instructor.

DES 451
WOOD DESIGN: SENIOR STUDIO

3-12 (3-6 hrs/sem) 0/6-0/12; 1993-95
Prerequisite: DES 351. A concentration of studio work by the senior major in wood. The student will plan and execute a series of problems and projects in consultation with his/her instructor.

DES 453
WOOD/EPOXY BOATBUILDING

2, 0/4; 1993-95
Prerequisite: DES 251. A course in the theory and applications of wood/epoxy boatbuilding materials and techniques through the construction of a wood/epoxy skiff.

DES 461
INTERIOR DESIGN IV

3-12 (3-6 hrs/sem) 0/6-0/12; 1993-95
Prerequisite: DES 361. The senior interior design course in which the student/designer accepts a major project and is responsible for its development. Projects will be either on or off campus and will include significant contact with clients and the development of formal presentations. Also stressed will be the development of a personal portfolio.

DES 473
GRAPHIC DESIGN

3-9 (3 hrs/sem) 0/6; 1993-95
Prerequisite: DES 371, 380. Advanced problems in advertising, publication, and packaging design. Materials, techniques, and processes used in preparation of visuals, design presentations, and mechanicals. Emphasis on individual solutions to problems typical of those confronting the professional graphic designer.

DES 475
GRAPHIC DESIGN PRACTICUM

6, 0/20; 1993-95
Prerequisite: Completion of all required courses in graphic design specialization. Practical experience in an advertising agency, design studio, or corporate design office under the sponsorship of an art director, working two days a week for six credit hours, or working on practical problems in a simulated agency situation for ten hours a week for three credit hours. *Admission by permission of graphic design advisers after portfolio review. Portfolio review takes place on the first Tuesday of December for the spring semester and on the first Tuesday of May for summer and fall.

DES 476
ADVANCED GRAPHICS

3-6, 0/6-0/12; 1993-95
Prerequisite: Senior standing and portfolio review. An extension of graphic design into actual job situations. Students work in a studio environment. They experience client contact, research, cost considerations, conceptualizing, presentation of design solutions, and production problems.

DES 477
COMPUTER GRAPHICS FOR DESIGN
AND ART APPLICATIONS I

3, 0/6; 1993-95

Prerequisite: Instructor's permission. Fundamentals of computer graphics. Hands-on experience. Basic programming for still and animated images. System configurations and design applications.

DES 478
COMPUTER GRAPHICS FOR DESIGN
AND ART APPLICATIONS II

3, 0/6; offered based on staff availability

Prerequisite: DES 477. Continuation of DES 477. Structures of software design. Advanced programming skills. Overview of the state of the art.

DES 488
INTERNSHIP**DES 495**
PROJECT**DES 499**
INDEPENDENT STUDY

Distributive and Business Education

Offered by the Business Department
DR. MARY A. DAVIS, Chairperson
Chase Hall 306

OEC 301
PRINCIPLES OF OCCUPATIONAL
EDUCATION

3, 3/0; 1993-95

Introduction to the teaching of occupational education courses in public schools; principles, philosophy and objectives; historical development of occupational education and the development of current issues for an occupational education program. *Required of TED, Voc-Tec, and BUS majors.

OEC 302
CURRICULUM AND EVALUATION IN
OCCUPATIONAL EDUCATION

3, 3/0; 1993-95

Introduction to the teaching methods of occupational education courses in the public schools; introduction to test construction and evaluation techniques utilized in occupational education courses. *Required of TED, Voc-Tec, and BUS majors.

OEC 303
METHODS AND MATERIALS IN
OCCUPATIONAL EDUCATION

1, 1/0; 1993-95

Basic methods utilized in the teaching of occupational education courses in the public schools and the preparation of teaching materials to accomplish stated objectives. Utilization of teaching methods that take into consideration the role of race, gender, and the cultural as well as the individual with specific needs. *Required of TED, Voc-Tec, and BUS majors.

DED 410
METHODS OF TEACHING BUSINESS
SUBJECTS

3, 3/0; F 93, 94, 95

Prerequisite: Business Education major, junior or senior standing. Methods of teaching business subjects concentrating on the process of teaching others certain office-related skills. *Required of business education majors.

BUS 411
METHODS OF TEACHING BUSINESS
AND DISTRIBUTIVE EDUCATION

3, 3/0; Sp 93, 94, 95

Prerequisite: OEC 301. Basic principles and methods of teaching business and distributive education subjects. Prepares the student to effectively teach subjects in this area. *Required of distributive education majors.

DED 415
STUDENT TEACHING

12, 0/24; 1993-95

Prerequisite: DED 410/411, OEC 301, OEC 302. Successful completion of basic English and Mathematics college competency requirements, senior standing. Full-time teaching in a public school for one semester under the supervision of a master teacher and a college supervisor; daily and long-range planning, unit teaching; classroom management; individual and group instruction; participation in total school program; weekly on-campus seminar as assigned. *Required of business education and distributive education majors.

Earth Sciences

Offered by the Earth Sciences and Science
Education Department
DR. JILL K. SINGER, Chairperson
Science Building 271

All courses in earth sciences may include occasional field trips. Expenses for these trips are shared by the participants.

GES 101
INTRODUCTORY GEOLOGY

3, 3/0; 1993-95 CM

An introduction to physical geology; the earth

and the processes operating on and within it; the formation of rocks and minerals, volcanoes, earthquakes, mountain building, continental drift, plate tectonics, glaciers, and the ice ages. Concurrent registration in GES 103 is recommended for geology and geoscience majors. *Required for all majors.

GES 102
HISTORICAL GEOLOGY

3, 3/0; 1993-95 CM

An introduction to the history of the earth from its formation 4½ billion years ago, and the role of continental drift, seafloor spreading, and plate tectonics in its development. The evolution of life as shown in the fossil record. *Required for all majors.

GES 103
INTRODUCTORY GEOLOGY
LABORATORY

1, 0/2; 1993-95

Prerequisite: GES 101 (may be concurrent). Investigations and activities in identification of rocks and minerals, map and aerial photograph interpretation. *Required for all majors.

GES 111
GENERAL OCEANOGRAPHY

3, 3/0; 1993-95 CM

An introduction to the science of the sea. Includes biological, physical, chemical, geological and environmental aspects of oceanography. *Required for geoscience majors.

GES 131
INTRODUCTORY ASTRONOMY

3, 3/0; 1993-95 CM

A non-mathematical survey of the astronomical universe. A survey of the sun, planets, moons, and comets will precede an investigation of stars, galaxies, and finally the universe. Observation, planetarium, and laboratory sessions will supplement the lectures.

GES 223
ENVIRONMENTAL EARTH SCIENCE

3, 3/0; 1993-95 CM

A practical study of the interrelation of humans and earth systems. Energy resources, non-renewable earth materials, earthquake prediction and control, volcanoes, land movements, man's effect on weather and climate. *Included in environmental sciences minor.

GES 224
GEOLOGIC HAZARDS

3, 3/0; 1993-95 CM

A study of catastrophic geologic events with an emphasis on earthquakes, volcanism, and landslides. Includes causes, physical effects, prediction, and social implications.

GES 241
METEOROLOGY

3, 3/0; CM

An introduction to weather, including prediction, meteorological instruments, atmospheric

movements, humidity and precipitation, high and low pressure areas, air masses and fronts, heat balance, and climate past and present. *Required for geoscience majors.

GES 301
STRATIGRAPHY

3, 3/0; F 93, F 94

Prerequisite: GES 101; GES 102 (may be concurrent). Basic principles governing the nature, interpretation, nomenclature, and correlation of stratified rock units. *Required for geology majors.

GES 302
INVERTEBRATE PALEONTOLOGY

3, 2/2; Sp 94, Sp 95 EM

Prerequisite: GES 102, BIO 116 and one additional semester of biology. Invertebrate fossils and their stratigraphic distribution. *Required for geology majors.

GES 304
THE COMMON ROCKS AND MINERALS

3, 2/2; F 93, F 94 EM

Prerequisite: GES 101; CHE 112 or CHE 102 (may be concurrent). Study of the common rocks and minerals, emphasizing how they are identified, where they occur, and how they form. *Required for all majors.

GES 305
OPTICAL MINERALOGY

3, 2/2

Prerequisite: GES 304. The use of the petrographic microscope and the identification of minerals in crushed grains and thin section.

GES 307
GEOMORPHOLOGY

3, 3/0; Sp 94, Sp 95 EM

Prerequisite: GES 101 or GEG 101. A study of the structural controls and processes which affect the development of the surface of the earth. Emphasis on selected geologic environments. *Required for geoscience majors.

GES 308
STRUCTURAL GEOLOGY

3, 2/2; F 93, F 94

Prerequisite: GES 101; GES 103. Analysis of folds, faults, and other structural features in sedimentary and metamorphic terrains; introduction to rock mechanics; regional tectonics. *Required for all majors.

GES 314
GEOLOGICAL OCEANOGRAPHY

3, 2/2; EM

Prerequisite: GES 111. A description of the sediments, structure and history of the ocean basins.

GES 315
MARINE ENVIRONMENTS

3, 3/0; G

Prerequisite: GES 111 or equivalent. A survey of coastal and deep-sea environments with focus on

the interaction of physical, chemical, biological, and geological processes operating in each. Emphasis on coastal environmental issues including shoreline erosion and sea level rise; coastal development; and marine pollution.

GES 331
MODERN SOLAR SYSTEM ASTRONOMY

3, 3/0; EM

Prerequisite: GES 131 or equivalent. The moon and the planets, their appearance, atmospheres, and surfaces, planetary magnetic fields, asteroids, meteoroids, comets, theories of the origin of the planetary system, the possibility of life elsewhere in the solar system. Emphasis on recent problems in our understanding of the solar system.

GES 332
STELLAR AND GALACTIC ASTRONOMY

3, 3/0; Sp 94, Sp 95 EM

Prerequisite: GES 131 or equivalent. How astronomers have determined the properties of stars, the energy of stars, the masses and compositions of stars, stellar evolution, the structure of the galaxy, the movement of stars in the galaxy.

GES 335
METHODS OF OBSERVATIONAL
ASTRONOMY

3, 3/0; EM

Prerequisite: GES 131. Locating celestial objects in the night sky; use of astronomical telescopes to locate, observe, and photograph stars, nebulae, and galaxies; use of observing aids.

GES 337/SCI 337
ASTRONOMY AND THE ASTRONOMERS
TO 1650

3, 3/0; EM

Prerequisite: GES 131 or equivalent. The saga of man's developing understanding of his universe, beginning with pre-historic efforts to predict celestial events continuing through Grecian speculation on the nature of things, and culminating in the heliocentric revolution sparked by Copernicus and supported by Galileo.

GES 338/SCI 338
ASTRONOMY AND THE ASTRONOMERS
FROM 1650 TO THE PRESENT

3, 3/0; EM

Prerequisite: GES 131 or equivalent. A study of the men and women, the ideas and the forces which brought us from the heliocentric mechanical universe of Copernicus and Newton to an immense expanding universe of galaxies, quasars, and black holes.

GES 339
ASTRONOMY AND COSMOLOGY

3, 3/0; EM

Prerequisite: GES 131 or equivalent. Cosmology, the primeval fireball, quasars, pulsars, black holes, origin of the elements.

GES 401
IGNEOUS AND METAMORPHIC
PETROLOGY

3, 2/2; Sp 94, Sp 95

Prerequisite: GES 304 and CHE 112 or permission of instructor. Description, origin, and classification of igneous and metamorphic rocks. *Required for geology majors.

GES 403
GLACIAL GEOLOGY

3, 3/0; F 93, F 94

Prerequisite: GES 307. A study of glacial processes, landforms, and landscapes, with emphasis on New York State. Develops a model for the sequence of glacial events and the causes of climate change. Includes field trips.

GES 404
FIELD GEOLOGY

3, 2/2; Sp 94, Sp 95

Prerequisite: GES 101. Application of geological principles and techniques in the interpretation of earth features in the field.

GES 405
GEOLOGY OF NORTH AMERICA

3, 3/0

Prerequisite: GES 101, GES 102. Major physical provinces of the United States and adjacent areas; their geological history, structure, and topographic development.

GES 407
INTRODUCTION TO PETROLEUM
GEOLOGY

3, 3/0

Prerequisite: GES 301 or permission of instructor. Basic investigation of geologic processes concerning the origin, migration, and accumulation of oil and natural gas; techniques of the petroleum geologist; extent and distribution of petroleum reserves.

GES 409
FLUVIAL GEOMORPHOLOGY

3, 2/2

Prerequisite: GES 307. A study of the variables which influence the behavior of water flowing on the surface of the earth, the effects of flowing water on the landscape; emphasis on field and lab work.

GES 415
GEOLOGY FIELD CAMP

6, 0/35; offered based on staff availability
Fee: Group transportation and meals are arranged. Costs paid by the students.

Prerequisite: GES 404 and permission of instructor. Field mapping and field study of sedimentary rocks such as in Cody, Wyoming, and Lovell, Wyoming; igneous and metamorphic rocks such as in the Beartooth Mountains, Wyoming and Montana; Yellowstone National Park; and Craters of the Moon National Monument, Idaho.

**GES 421
DYNAMICS OF SEDIMENTATION**

3, 2/2; Sp 94, Sp 95

Prerequisite: GES 101; junior standing or permission of instructor. An introduction to the dynamics of erosion, transportation and deposition of sedimentary particles including formation of bedforms and sedimentary structures. Present-day sedimentary environments and facies analysis.

**GES 422
SEDIMENTARY PETROLOGY**

3, 2/2

Prerequisite: GES 421; GES 305 or instructor permission. Interpretation of ancient depositional environments, from the petrologic study of sedimentary rocks. Descriptive and predictive sedimentological models.

**GES 431
PLANETARIUM SEMINAR**

3, 3/0; Sp 94, Sp 95

Prerequisite: Two semesters of astronomy. The Celestial Sphere; operating, maintaining, and administering the planetarium; audio-visual aids in the planetarium; planetarium programming. Using the planetarium to teach. Includes supervised teaching experience.

**GES 452
HYDROGEOLOGY**

3, 3/0; F 93, F 94

This course will present fundamentals necessary to understand the occurrence, movement, and management of our largest resource of readily available fresh water. Groundwater protection and remediation of already contaminated supplies are included to increase environmental awareness.

**GES 488
GEOLOGY INTERNSHIP**

1-15, 0/2-30; 1993-95

Prerequisite: Senior standing as department major, a minimum of 3.0 GPA in major, and 2.5 GPA overall. Requires department application and approval. Practical work on an individual basis with a participating organization.

**GES 495
PROJECT**

1-3, 0/2-6; 1993-95

Prerequisite: Approval of a faculty sponsor must be secured prior to registration. Environmental, energy, geology, or astronomy-related areas.

**GES 498
HONORS RESEARCH**

3-6, 0/6; 1993-95

Prerequisite: Acceptance in Geology or Geoscience Honors Program. Includes completion of an honor's thesis and seminar. May be repeated for a maximum of six credits.

**GES 499
INDEPENDENT STUDY**

3-6, 0/6-12; 1993-95

Prerequisite: Approval of a faculty sponsor must be secured prior to registration. Environmental, energy, geology or astronomy-related areas.

**Economics and
Finance**

Offered by the Economics and Finance Department
DR. ALEX J. RATKOWSKI, Chairperson
Classroom Building B207

**ECO 101
THE ECONOMIC SYSTEM**

3, 3/0; 1993-95 CS

An overview course which presents fundamental economic concepts, basic economic institutions, and contemporary economic issues. Topics include supply and demand, markets, gross national product (GNP), inflation and recession, and the role of government. In addition, economic issues such as energy, environment, education, and health care will be included when appropriate. Will not count toward the credit hour requirement of majors. May not be taken concurrently with or subsequent to ECO 201 or 202.

**ECO 103
ECONOMIC HISTORY OF THE
UNITED STATES**

3, 3/0; F 93, 94 CS

Development of the U.S. economy, the role of government in the economy, and organized labor from the colonial era to the present.

**ECO 201
PRINCIPLES OF MACROECONOMICS**

3, 3/0; 1993-95 CS

A study of the major forces in the economic system—consumer expenditures, business investment, and government spending—to determine their influence on the level of national income. Includes a discussion of money and banking, monetary and fiscal policies, inflation and recession, economic growth, and international monetary problems. *Required for majors. Either ECO 201 or 202 may be taken first.

**ECO 202
PRINCIPLES OF MICROECONOMICS**

3, 3/0; 1993-95 CS

A study of the individual economic units in the economy—consumer, firms, and resource owners—to determine how their decisions influence market prices and industrial output. Includes a discussion of supply and demand, competition and monopoly, corporations, and capitalism and socialism, labor and international trade. *Required for majors. Either ECO 201 or 202 may be taken first.

**ECO 300
LABOR ECONOMICS**

3, 3/0; F 93, 94

Prerequisite: ECO 201 or ECO 202. This course will consider competing theories of how labor markets operate in market economies. It will address the problems in labor markets (such as unemployment and discrimination). The history of how labor markets have evolved in the U.S. and the role of government in affecting outcomes are also studied. Current issues such as the increasing international competition in both product and labor markets, the impact of technological change in altering skill and educational requirements of the work force, and structural change in the compensation and occupational distribution are analyzed.

**ECO 301
ECONOMICS OF LABOR RELATIONS**

3, 3/0; 1993-95 CS

A study of present-day techniques in labor management negotiations; the collective bargaining agreement; the development and structure of organized labor; labor law, and labor economics.

**ECO 302
WOMEN IN THE ECONOMY**

3, 3/0; Sp 94, 95

Prerequisite: ECO 201 or ECO 202 recommended. An examination of women's position in the U.S. economy, how it has changed, how it compares to men's position and to women's position in other countries. A study of the theoretical and empirical issues in analyzing women's economic status.

**ECO 304
MONEY AND BANKING**

3, 3/0; 1993-95 ES

Prerequisite: ECO 201, MAT 110, or consent of instructor. The nature and function of money; the American monetary system and the role of the banking system; the structure and functions of Federal Reserve System; fundamental monetary theory and its relation to monetary policy; current problems relating to the impact of monetary policy on the level of prices and employment.

**ECO 305
STATISTICS FOR ECONOMICS**

3, 3/0; 1993-95 ES

Introduction to elementary statistical principles, descriptive statistics and statistical inference; applications in economics, business, and criminal justice. *Required for majors.

**ECO 307
INTERMEDIATE MICROECONOMICS**

3, 3/0; 1993-95 ES

Prerequisite: ECO 202 and MAT 110 or equivalent. An advanced study of the individual economic units in the economy to determine how their decisions influence market prices and industry output. Topics include the theory of consumer demand, the theory of the firm, resource allocation, income distribution, and welfare economics. *Required for majors.

**ECO 308
INTERMEDIATE MACROECONOMICS**

3, 3/0; 1993-95 ES

Prerequisite: ECO 201 and MAT 110 or equivalent. An advanced study of aggregate economic activity to determine its influence on the level of national income. Topics include classical and Keynesian theory, monetary and fiscal policies, business cycles, forecasting, and economic growth. *Required for majors.

**ECO 314
CORPORATION FINANCE**

3, 3/0; 1993-95 ES

Prerequisite: ECO 201 or ECO 202, BUS 312. Introduction to corporate financial management, and the U.S. capital markets, including the stock market.

**ECO 317
ECONOMIC POLICY: BUSINESS
AND ECONOMICS**

3, 3/0; offered based on staff availability ES

Prerequisite: ECO 202 or ECO 101 and consent of instructor. An examination of government efforts to improve the economic performance of industries in the U.S. economic system. Topics include antitrust policy, regulation of utilities, conglomerates, and multinational corporations.

**ECO 320
MANAGERIAL ECONOMICS**

3, 3/0; 1993-95 ES

Prerequisite: ECO 202, ECO 305, MAT 110 or equivalent is recommended. The utilization of economic analysis to formulate and provide guides to the solution of management decision and control problems and the development of appropriate business policies.

**ECO 340
FEDERAL INCOME TAXATION**

3, 3/0; Sp 94

Prerequisite: Upperclass standing or consent of instructor. An examination of the tax principles and policies, drawn from public finance theory, that have shaped the federal income tax system. In addition, students will learn how to prepare individual income tax returns in conformity with the IRS codes.

**ECO 350
PUBLIC FINANCE**

3, 3/0; F 94 ES

Prerequisite: MAT 110; ECO 307 recommended. Analysis of the nature and growth of public expenditures; principles of taxation; federal, state and local revenue; introduction to fiscal policy and theory; significance of public debt; selected problems in intergovernmental fiscal relations.

**ECO 355
THE ECONOMICS OF ENERGY AND
THE ENVIRONMENT**

3, 3/0; offered based on staff availability; ES

Prerequisite: ECO 202 or consent of instructor. An examination of the micro and macroeconomic interrelationships between the flow of

economic activity and the constraints on the flow of economic activity imposed by the availability of energy resources and by environmental considerations. Alternative policy strategies relating to energy and the environment will be evaluated in terms of their economic impact.

**ECO 360
INTRODUCTION TO THE ECONOMIC
ANALYSIS OF LAW**

3, 3/0; Sp 95

Prerequisite: ECO 307 or permission of instructor. An introductory approach to the study of law from an economic perspective. No prior knowledge of law is necessary and all the economic concepts needed will be presented. The objective is to use economic concepts and reasoning to explain and predict the consequences of legal rules. For this purpose, important issues found in court cases involving, for example, contracts, property law, liability, and environmental law will be used.

**ECO 400
INTERNATIONAL FINANCE**

3, 3/0; Sp 94, 95

Prerequisite: ECO 201, ECO 202, ECO 314; ECO 308 suggested. Basic theories in international finance and applications are covered and include: analysis of exchange rate markets, international capital markets, multinational capital budgeting, cash management and international banking. This course is meant to provide the student with a strong background in international financial markets and international financial policy.

**ECO 401
INTERNATIONAL ECONOMICS**

3, 3/0; F 94 G

Prerequisite: ECO 201 and ECO 202; ECO 307 recommended. Basic theories of international trade; the international monetary mechanism and the institutions which facilitate its operation; foreign economic policy and contemporary problems relating to tariffs, payments, balances, devaluation, and gold as a means of settling international payments in balances.

**ECO 402
SEMINAR IN CURRENT ECONOMIC
PROBLEMS**

3, 3/0

Offered based on staff availability.
Prerequisite: ECO 307 and ECO 308. Readings, discussion and research on current economic problems. Topics to be selected by the seminar.

**ECO 403
COMPARATIVE ECONOMIC SYSTEMS**

3, 3/0; Sp 95 G

Prerequisite: ECO 201 and ECO 202 or consent of instructor. Essential characteristics of the market economy as it has evolved to the present time; increasing social control; its strengths and weaknesses; the contrast with the socialist system as it operates in the Soviet Union today; strengths and weaknesses of Soviet socialism.

**ECO 404
ECONOMIC DEVELOPMENT**

3, 3/0; F 93

Prerequisite: At least two economics courses, not including ECO 101. This course analyzes the difficulties of economic development, industrialization, and world-wide poverty, and considers competing theories of economic growth and structural change. It addresses problems of population, natural resources and environment, and the growing interdependency of U.S. and LDC economies. The crucial role of women in development, as well as that of ethnic, and other social and cultural relationships will be considered. Other topics include: The LDC debt crisis and international finance; macro- and micro-economic planning models, and the policy-making process; development strategies; and specific case studies of LDCs in Africa, Asia, and Latin America.

**ECO 405
HISTORY OF ECONOMIC THOUGHT**

3, 3/0; F 93, 94

Prerequisite: ECO 201 and ECO 202 or consent of instructor. A study of the attempts of key economic thinkers from Aristotle until the present time to analyze economic phenomena and to provide guidance for economic policy.

**ECO 409
GEOGRAPHY OF MANUFACTURING**

See description listed under GEG 409.

**ECO/GEG 411
REGIONAL ECONOMIC ANALYSIS**

3, 3/0; F 94

Prerequisite: ECO 201 and ECO 292 or consent of instructor; MAT 110 recommended. Analysis of location of economic activity, urbanization patterns, and regional growth and development. Techniques in measuring the level of economic activity of a region will be discussed. Particular emphasis will be given to the Western New York area and the impact of the Buffalo urban area on development of the surrounding region.

**ECO 412
URBAN ECONOMICS**

3, 3/0; Sp 94

Prerequisite: ECO 201 or ECO 202 or consent of instructor. An application of economic analysis to urban growth, land use, poverty, housing, segregation, pollution, congestion, and urban public finance.

**ECO 414
INVESTMENT MANAGEMENT**

3, 3/0; Sp 94, 95

Prerequisite: ECO 314. An examination and analysis of operating and efficiency characteristics of security markets. The application of institutional, technical, and theoretical approaches to security analysis and evaluation of investment portfolios.

ECO 415
CASES IN CORPORATE FINANCE

3, 3/0; F 93, 94

Prerequisite: ECO 314; ECO 307 recommended. An application of the case approach to problems in business finance. Topics include working capital financing, term borrowing, capital budgeting, mergers, and acquisitions.

ECO 416
ADVANCED CORPORATION FINANCE

3, 3/0; F 93, 94

Prerequisite: ECO 307 and ECO 314. An advanced study of the practice and theory of corporation finance, focusing on topics not covered in introductory corporation. Topics include advanced debt policy, options, leasing, mergers, international financial management, and pension plans.

ECO /GEG 420
ECONOMIC EVALUATION OF WATER RESOURCES

See description listed under GEG 420.

ECO 424
ECONOMETRICS

3, 3/0; 1993-95

Prerequisite: ECO 201 or ECO 202, ECO 305 or equivalent statistics course. Introduces students to applied statistical analysis with primary emphasis on business and economic applications. Provides quantitative background for graduate study in economics, business, public administration, and related social sciences as well as for many types of employment.

ECO 425
BUSINESS AND ECONOMIC FORECASTING

Offered based on staff availability.

Prerequisite: ECO 424. Introduces students to basic methods and problems in applied economic research and advanced econometric techniques. Is an extension of ECO 424 into the topics of organizing research projects, finding sources of data, selecting econometric techniques, using the computer, and writing research reports.

ECO 488
INTERNSHIP

3-6

Prerequisite: ECO 201, 202, and one relevant ECO elective; 2.5 GPA; junior/senior standing. The internship program is designed to provide an opportunity to apply and integrate economic concepts and methodologies in an off-campus, field setting, under the direction of a faculty sponsor with the cooperation of a designated field supervisor. A maximum of three hours of ECO 488, 499 may be used in the major.

ECO 495
PROJECT

Prerequisite: 3.0 GPA (in major and overall); ECO 307, 308, or approval by Curriculum Committee. A maximum of three hours of ECO 488, 495, 499 may be used in the major.

ECO 498
HONORS RESEARCH I

3

Prerequisite: Admission to honors in economics. A review of the literature and development of the theoretical issues relevant to the research topic.

ECO 498
HONORS RESEARCH II

3

Prerequisite: Honors Research I. Appropriate applied analysis relevant to the development and resolution of the research topic begun in Honors Research I prepared in written form and orally defended before the faculty mentor, economics Curriculum Committee, and interested students and faculty.

ECO 499
INDEPENDENT STUDY

Prerequisite: 3.0 GPA (in major and overall); ECO 307, 308, or approval by Curriculum Committee. A maximum of three hours of ECO 488, 495, 499 may be used in the major.

Elementary Education

Offered by the Elementary Education and Reading Department
DR. DAVID E. DAY, Chairperson
Bacon Hall 302

EDU 120
READING AND STUDY STRATEGIES

3, 3/0; 1993-95

A competency-based course designed to improve students' college reading and study skills. Classes include lecture and laboratory work. Students are encouraged to become aware of their own levels of competency in order to improve areas of weakness.

EDU 150
ADVANCED READING & STUDY STRATEGIES

3, 3/0; 1993-95

A course designed to help students improve their strategies for effective learning. Topics included in this course are study strategies, taking notes, taking exams, and time management.

EDU 300
INTRODUCTION TO TEACHING THE URBAN CHILD

3, 3/0; offered based on staff availability

An elective course offering the student an overview of the urban child, urban community and urban school. Each area will be treated as it relates to the school curriculum. Course affords opportunity for exposure to children in urban schools, guides appropriate career decisions. Each student will be involved in supervised field experience.

EDU 314
TEACHING READING AND THE OTHER LANGUAGE ARTS IN THE ELEMENTARY SCHOOL

6, 4/4; 1993-95

Prerequisite: EDF 203, 210; 302; cumulative avg. of 2.5 or higher; junior status; must have passed the English Composition and Math Requirement. Development of attitudes, knowledge, skills necessary to extend reading and other communication skills of elementary children; interrelationships of strands of language arts; exploration of diagnostic teaching and differentiated instruction. Experiences with children are provided in schools on a planned basis. *Required of EE and EXE majors.

EDU 315
THE TEACHING OF SOCIAL STUDIES, SCIENCE AND MATHEMATICS

6, 3/6; 1993-95

Prerequisite: EDF 203, EDF 210, EDU 314, EDF 302; cum. avg. of 2.5, C or higher in EDU 314. Basic curriculum course, selecting, organizing and presenting elementary school science, mathematics, and social studies material; evaluating pupil progress, observation and elementary school participation. *Required of all EE majors and EXE majors seeking dual certification.

ECS 329
TECHNIQUES AND PARTICIPATION IN EARLY CHILDHOOD

6, 4/4; 1993-95

Prerequisite: EDF 210 or equivalent, or by permission of instructor. Overview of the learning sequence of the young child; instructional materials and procedures for program development for groups of young children, e.g., creative play, art, music, science, mathematics, and language arts experiences. Students observe, record behavior, and participate in the teaching process with children two to six years of age.

EDU 401
PRACTICUM IN TEACHING

12, 0/30; 1993-95

Prerequisite: Grade of "C" or higher in EDU 314 and EDU 315; cumulative average of 2.5 or higher in all course work. Successful completion of math and English competency required as well as passing the required sections of the New York State Teacher Certification Examination. Teaching under supervision in elementary grades five days per week, individual conferences and seminars with the college supervisor; tutorial and group instruction; daily and long view planning; teacher-pupil planning; unit teaching; audio-visual aids; classroom management; record-keeping; evaluation techniques. *Required of EE majors or with special permission of the chairman. EE extending majors and EXE majors (MR/PH, LBD) are required to take EDU 404.

EDU 402
SEMINAR IN EDUCATION

3, 3/0; 1993-95

Nature and function of a philosophy of education; study of teaching research methods and techniques; crucial issues in education; problems of beginning teachers. To be taken concurrently with or preferably subsequent to EDU 401. *Required of all EE majors.

EDU 404
PRACTICUM IN ELEMENTARY SCHOOL TEACHING

6, 1/30; (½ sem)

Prerequisite: Grade of "C" or higher in EDU 314 and EDU 315; cumulative average of 2.5 or higher in all course work. Successful completion of math and English competency required as well as passing the required sections of the New York State Teacher Certification Examination. Teaching under supervision in elementary grades five days per week; individual conference and seminars with college supervisor, tutorial and group teaching; audio-visual aids; classroom management; record keeping, evaluation techniques. *Required of EE extended majors seeking dual certification.

ECS 405
PARENT-INFANT EXPERIENCE

3, 3/0; offered based on staff availability; Sp 94, Sp 95 ET

An overview of the infant period (birth to 36 months) and techniques and materials to be used with parents to facilitate infant development. Innovative infant programs will be examined and practical experience with parents and infants will be provided. Elective for juniors and seniors.

EDU 416/SED 305
TEACHING READING IN SECONDARY SCHOOLS

3, 3/0; 1993-95

An analysis of the special problems in reading encountered in the secondary school. Topics to be discussed as they relate to the secondary school include: the reading process, reading skills, and techniques for assessing developing reading skills. Special emphasis placed on critical reading in the content area. *Required of Secondary Ed. majors.

ECS 417
PARENTS AND EDUCATION

3, 3/0; 1993-95

Prerequisite: ENG 101, ENG 102 or exempt, junior standing. To develop an understanding of the parental role in education and develop empathy for parents with diverse cultural, ethnic, economic background and parenting styles. Parent education programs and methods of conducting parent/teacher conferences are stressed.

EDU 418
MEDIA IN EDUCATION

3, 2/2; Sp 94, Sp 95

Audio-visual materials in teaching; audio-visual equipment; selecting, securing and using films and other materials; audio-visual programs in the school; teacher and pupil-produced materials; photography.

EDU 419
METHODS AND MATERIALS IN THE ELEMENTARY SCHOOL

3, 3/0; offered based on staff availability

School curriculum in the common branch subjects; selecting and presenting curriculum material, adapting the curriculum to the varying needs, interest and abilities of the pupils; evaluating pupil progress in terms of school objectives. *Elective for juniors and seniors.

EDU 422
INTRODUCTORY LABORATORY PRACTICUM IN READING

3, 2/2; offered based on staff availability

Prerequisite: EDU 314. Supervised laboratory experience in tutorial work with children demonstrating mild reading disability. The student will review available school information and/or the child's diagnostic evaluation completed in the Reading Center and structure and implement a corrective reading program. An instructional report for the parent will be prepared.

EDU 426
TEACHING READING IN THE PRIMARY GRADES

3, 3/0; offered based on staff availability

Prerequisite: EDU 314. Recognition and development of reading readiness; approaches to primary reading; methods and materials of instruction; grouping plans; development of word recognition, comprehension/interpretation, and oral reading skills; evaluation of reading, and professional growth.

ECS 429
COGNITIVE AND SOCIALIZATION PROGRAMS FOR PRE-KINDERGARTEN CHILDREN

3, 3/0; 1993-95

Prerequisite: EDF 210 or equivalent, EDU 329, or by permission of instructor. Consideration of theories and research in cognitive development and their application in various model early childhood program. Elements of program design and assessment will be explored. *Upper division elective.

ECS 488
INTERNSHIP IN NON-SCHOOL SETTINGS

Credit hours vary.

Prerequisite: Junior or senior status, 2.5 cum. avg., and permission of advisor, faculty supervisor, and chairperson. The Internship component provide opportunities for students to integrate theoretical knowledge and practical experiences in non-classroom professional settings. Students

are supervised by college faculty and meet them regularly in the professional field setting and on campus.

EDU 495
PROJECT**EDU 499**
INDEPENDENT STUDY**Educational Foundations**

Offered by the Educational Foundations Department
DR. THOMAS J. QUATROCHE, Chairperson
Bacon Hall 306

EDF 202
CHILD DEVELOPMENT AND EDUCATION

3, 3/0; 1993-95

An introduction to the study of child behavior and development with emphasis on implications for teaching and learning. The focus will be on the child in school; from early childhood through preadolescence. Topics include child study and observation methods, theories of development, nature and sources of individual development from biological, cultural, and behavioral perspectives, with emphasis on the following areas of development as they apply to the classroom: cognitive, social, emotional, and physical. Required of EE majors and EXE majors according to program; elective for others beyond freshman level.

EDF 203
SCHOOL AND SOCIETY

3, 3/0; 1993-95

Education as a function of a democratic society; sociological and historical backgrounds of the schools; current issues and problems affecting the schools; objectives, control and financial support of education in the State of New York and the U.S.; directed observation. *Required of EE and EXE majors according to program; elective for others beyond freshman level.

EDF 206
INTRODUCTION TO THE GROUP EXPERIENCE

3, 3/0; 1993-95 CT

Exploration and development of basic attitudes, understandings and skills involved in democratic group participation through laboratory and academic experiences. Elective.

EDF 207
LEARNING IN COLLEGE ORIENTATION FOR UNDERGRADUATE

3, 3/0; 1993-95

This course is designed to acquaint students with the psychological and sociological understand-

ing necessary for college achievement and adjustment. Topics include human development during adulthood, higher education in the U.S., communication, self-awareness, learning, vocational goals, and the college as a sociocultural system.

EDF 210
INTRODUCTION TO HUMAN DEVELOPMENT

3, 3/0; 1993-95

An introduction to human behavior and development. Topics include a study of forces that shape human behavior and development, developmental characteristics during the life cycle, learning, development and the educative process, ways of studying children, and understanding self.

EDF 217
FOUNDATION OF EARLY CHILDHOOD EDUCATION

3, 3/0; F 93, 94

A study of the historical, sociological and psychological foundations of early childhood education and how they influenced child rearing practices and early childhood programs in 19th and 20th century Europe and America.

EDF/AAS 221
THE HISTORY OF BLACK EDUCATION IN AMERICA

3, 3/0; offered based on staff availability

An examination of the role of blacks in the American educational system. Relevant information on various changes that have taken place in order to improve or retard education for blacks. The course will explore approaches for providing meaningful education for blacks now and in the future.

EDF 222 (AAS 222)
THE DEVELOPMENT OF MODERN EDUCATION IN AFRICA

3, 3/0; offered based on staff availability

A phase of study of educational changes in Africa beginning with the colonial era to the present time. One important aspect of the course will be the examination of the effect of these changes on social and political issues in Africa and abroad.

EDF 225
ETHNIC STUDIES IN THE EDUCATIVE PROCESS

3, 3/0; F 93

This course is responsive to ethnic diversity in American life and education. Cultural minorities, e.g., Native American, blacks, Spanish-speaking, Jews, and white ethnic groups, and mainstream American life and education.

EDF 302
EDUCATIONAL PSYCHOLOGY: ELEM. ED.

3, 3, 3/0; 1993-95

Prerequisite: EDF 202, 2.5 GPA.

This course is designed to help prospective elementary education teacher understand learners,

the learning process, how to evaluate learning, and how to establish a classroom environment which will maximize learning. Required of EE majors and EXE majors according to program. Should be taken concurrently with EDU 314.

EDF 303
EDUCATIONAL PSYCHOLOGY

3, 3/0; 1993-95 ET

Psychological principles underlying learning and effective teaching, the effect of social and personality factors on learning, assessment and evaluation of individual progress; diagnosis of difficulties in learning, discipline, programming, and planning as related to instruction; directed observations. *Classification: Required for secondary education majors according to program.

EDF 309
ADULTHOOD

3, 3/0; F 93

Prerequisite: Junior or senior standing. The study of human development during the adult years. Includes a consideration of the physiological and psychological development of the individual from young adulthood through old age; changing roles, conflicts, adjustments, dilemmas, aspirations, potentials, responsibilities, rights, freedoms, as indicated in theory and research.

EDF 311/SOC 311
FAMILY VIOLENCE

3, 3/0; Sp 94, 95

This course provides a comprehensive overview and critical investigation into the field of Family Violence. Examination covers child abuse, courtship, spouse abuse, sibling violence, adolescent maltreatment, parent abuse and elder abuse. Explores history, prevalence, susceptibility factors, patterns of social interaction, demographics, sexual and emotional abuse and the violence-prone personality. Theoretical perspectives are brought to bear on family violence, including the cycle theory of violence, and are integrated within the broader social science perspectives.

EDF 338
OBSERVATION AND STUDY OF CHILDREN: NURSERY/PRIMARY

3, 3/0

Prerequisite: EDF 202 or equivalent.

Opportunity for students interested in early childhood education to study child behavior and development in nursery/preschool/day care/primary school or other settings; projects include observations and study experiences.

EDF 345
PARENTING

3, 3/0; F 1993-95 ET

This course explores the relevant issues facing parents and the professionals who work with them in today's changing society. It includes both classical and current research with emphasis on practical application and implication as well as a developmental approach to under-

standing parent-child relationships. Because of the diversity of contemporary families the course helps to prepare students to work more effectively with parents with varied cultural backgrounds, family structures, lifestyles, and at-risk factors.

EDF 346
TEENAGE SEXUALITY

3, 3/0; Sp 1993-95 ET

A critical examination of teenage sexuality and factors in influencing its emergence; considers how sexuality education can be incorporated in the teaching-learning process at home and in school, ways to facilitate cooperative efforts by parents and teachers. Offers opportunities to develop skills in communicating with teenagers about their sexuality and strategies whereby teens can deal with sexuality concerns more effectively. Surveys community resources for teens, parents, and teachers; examines special issues and problems.

EDF 350
HUMAN DEVELOPMENT DURING EARLY CHILDHOOD

3, 3/0

Prerequisite: EDF 202. A consideration of behavior and development during early childhood with emphasis on teaching/learning implication. Topics include a study of developmental processes during these ages, methods of studying young children, problems of child behavior and development, and an analysis of learning in home, pre-school, and primary school.

EDF 353
HUMAN DEVELOPMENT DURING EARLY ADOLESCENCE

3, 3/0; 1993-95

An introduction to the study of pre-adolescent and adolescent behavior and development with emphasis on implications for teaching. Includes a consideration of the nature of adolescence, developmental and behavioral characteristics, learning and education, problems and issues of adolescents in today's society, ways teachers can study adolescents and self-understanding.

EDF 403
HISTORICAL AND PHILOSOPHICAL FORCES INFLUENCING SECONDARY EDUCATION

3, 3/0; 1993-95

European influences in American education; religious influences in education; secular influences in education, evolving concepts of education in a democracy; social and economic pressures in education; development of the secondary school; conflicting philosophies in current education. *Required for secondary education majors according to program.

EDF 410
PHILOSOPHY OF EDUCATION

3, 3/0; F 93, F 94

Examination and evaluation of the more influential theories of education and their effect upon education, past and present, effect of

democratic, as opposed to authoritarian, concepts of the good life upon school policy and practice, nature and function of academic freedom, the public school and the religious dimension of life; importance of continuity between avowed values and actual school practices. *Elective for juniors and seniors.

EDF 412
COMPARATIVE EDUCATION

3, 3/0

Education as an influence in world affairs; comparison of educational problems and their solution, in various countries; relationship of education programs to the cultural heritage and its future; selection of program studies in terms of student interests and current developments. *Elective for juniors and seniors.

English

Offered by the English Department
DR. THERESA F. PLATEK, Chairperson
Ketchum Hall 326

ENG 099
DEVELOPMENTAL WRITING

0, 3/0; 1993-95

An introductory course designed to reinforce sentence and paragraph structure through emphasis on unity, consistency, order, and coherence. *Does not carry credit.

ENG 101
COLLEGE WRITING I

3, 3/0; 1993-95 E

Reading and analysis of expository prose; writing assignments emphasize rhetorical strategies and essay structure.

ENG 102
COLLEGE WRITING II

3, 3/0; 1993-95 E

Prerequisite: ENG 101 or exemption therefrom. Reading and analysis in various disciplines; writing assignments emphasize critical thinking and clear expression; introduction to research methods using multiple sources.

ENG 110
ENGLISH LITERATURE I: SELECTED TOPICS

3, 3/0; 1993-95 CH

A survey of topics, themes, and authors in English literature to 1700.

ENG 111
ENGLISH LITERATURE II: SELECTED TOPICS

3, 3/0; 1993-95 CH

A survey of topics, themes, and authors in English literature from 1700 to 1900.

ENG 130
BIBLICAL AND CLASSICAL LITERATURE

3, 3/0; 1993-95 CH

A study of Greek, Roman, and Biblical literature.

ENG 131
MEDIEVAL AND RENAISSANCE LITERATURE

3, 3/0; 1993-95 CH

A study of major European writers prior to 1600.

ENG 132
MODERN EUROPEAN LITERATURE

3, 3/0; 1993-95 CH

A study of major European writers after 1600.

ENG 140
AMERICAN LITERATURE I: SELECTED TOPICS

3, 3/0; 1993-95 CH

A survey of topics, themes, and authors in American literature prior to the Civil War.

ENG 141
AMERICAN LITERATURE II: SELECTED TOPICS

3, 3/0; 1993-95 CH

A study of major American writers after the Civil War.

ENG 151
INTRODUCTION TO POETRY

3, 3/0; 1993-95 CH

A study of the verbal and formal techniques of English and American poetry; prosody, verse forms, conventions, genres, diction, and imagery.

ENG 180
INTRODUCTION TO FOLKLORE

3, 3/0; Sp 94, 95 EH

A general introduction to the nature, form of folklore, and its function in society.

ENG 200
FIELD EXPERIENCE IN SECONDARY ENGLISH EDUCATION

3, 3/0; 1993-95

An introduction to the secondary school as an institution and to the teaching of English as a profession; required observations of teaching English and other areas, K-12; limited experimentation with teaching secondary English.

ENG 205
HISTORY OF CINEMA I

3, 3/0; 1993-95 CH

A broad survey of the development of the motion picture from its earliest form in the 1890s to the inception of sound.

ENG 206
HISTORY OF CINEMA II

3, 3/0; 1993-95 CH

A survey of the development of the motion picture from the inception of sound to the present.

ENG 230
COMPARATIVE LITERATURE

3, 3/0; 1993-95 CH

A study of recurring ideas, themes, and theories in world literature.

ENG 231
WOMEN IN LITERATURE: SELECTED TOPICS

3, 3/0; F 93, 94 EH

An examination of the images of women in literature as they reflect attitudes about women and their roles. Emphasis on authors and eras varies with instructors.

ENG 240
AFRO-AMERICAN LITERATURE TO 1940

3, 3/0; 1993-95 DEH

A survey of black American slave narratives, poetry, fiction, essays, and drama, noting the influence of the African oral tradition on the black American writer. The Harlem renaissance of the 1920s and its relation to the development of black revolutionary thought is emphasized.

ENG 241
AFRO-AMERICAN LITERATURE SINCE 1940

3, 3/0; 1993-95 DEH

A survey of black revolutionary thought and artistry in such writers as Richard Wright, William Demby, Ralph Ellison, LeRoi Jones, James Baldwin, Don L. Lee, Gwendolyn Brooks, Nikki Giovanni, John Henrik Clarke, and Ed Bullins.

ENG 250
LITERARY CRITICISM

3, 3/0; 1993-95

An introduction to the basic questions of theoretical and practical literary criticism. Intended primarily for those students who have or are considering a major or a concentration in English.

ENG 252
CONTEMPORARY LITERATURE I

3, 3/0; 1993-95 CH

A study of literature in English from 1900 to 1945.

ENG 253
CONTEMPORARY LITERATURE II
3, 3/0; 1993-95 CH
A study of literature in English from 1945 to the present.

ENG 260
CHILDREN'S LITERATURE
3, 3/0; 1993-95 EH
A study of the types of children's literature with attention to the principles of book selection and reading interests of children. *Sophomores, juniors, and seniors only.

ENG 280
AMERICAN FOLKLORE
3, 3/0; F 93, 94 EH
An introduction to American folklore and its uses.

ENG 300
WRITING FOR THE PROFESSIONS
3, 3/0; 1993-95 EH
Prerequisite: Fulfillment of the freshman writing requirement. Practice for students who wish to improve their competence in writing and editing for a variety of professions.

ENG 301
ADVANCED COMPOSITION
3, 3/0; 1993-95 EH
Prerequisite: Fulfillment of the freshman writing requirement. Practice in writing expository papers; writing assignments emphasize stylistic strategies, diction, and revision.

ENG 303
LITERATURE IN THE FILM
3, 3/0; 1993-95 EH
A study of the motion picture as a vehicle for literature. Analysis and composition of the verbal and pictorial forms.

ENG 304
FORMS OF THE FILM
3, 3/0; 1993-95 EH
A study of breadth and depth of selected film forms. Emphasis on the film as art, medium of communication, and social document. May be taken for credit more than once where content is different.

ENG 305
CREATIVE WRITING: NARRATIVE
3, 3/0; 1993-95 EH
Prerequisite: Fulfillment of freshman writing requirement; sophomore standing. A course emphasizing the writing of narrative.

ENG 306
CREATIVE WRITING: POETRY
3, 3/0; 1993-95 EH
Prerequisite: Fulfillment of freshman writing requirement; sophomore standing. A course emphasizing the writing of poetry.

ENG 309
TEACHING AND EVALUATING WRITING
3, 3/0; 1993-95
Prerequisite: Fulfillment of the freshman writing requirement. Methods for teaching and evaluating writing including theories of composition and rhetoric, approaches to teaching composition, ways to respond to writing-in-progress and completed texts, methods of measuring growth, and means to evaluate writing performance.

ENG 315
SHAKESPEARE I
3, 3/0; 1993-95 EH
Prerequisite: Sophomore standing or three hours of English. A study of the earlier comedies, tragedies, and histories.

ENG 316
SHAKESPEARE II
3, 3/0; 1993-95 EH
Prerequisite: Sophomore standing or three hours of English. A study of the later comedies, tragedies, and histories.

ENG 330
LITERATURE OF THE BIBLE
3, 3/0; 1993-95 EH
Prerequisite: Sophomore standing or three hours of English. A study of the Bible as literature.

ENG/FRE 331
FRENCH LITERATURE IN TRANSLATION
3, 3/0; See FRE for offerings. EH
Prerequisite: A literature course at the college level or permission of instructor. A study of selected masterpieces of contemporary French literature in translation. Knowledge of French not required. *Open to French majors only upon approval of both the department chairperson and the course instructor.

ENG 332
RUSSIAN LITERATURE IN TRANSLATION
3, 3/0; EH
Prerequisite: A literature course at the college level or permission of instructor. A study of writers such as Gogol, Pushkin, Turgenev, Goncharov, Tolstoy, Dostoevsky, and Chekhov. Knowledge of Russian not required.

ENG 334
POLISH LITERATURE IN TRANSLATION
3, 3/0; EH
Prerequisite: A literature course at the college level or permission of instructor. An introduction to Polish culture and literature through readings from the major dramatists and poets from the Middle Ages to the Post-Romantic Period. Lectures and readings to be enhanced by audio-visual material. Knowledge of Polish not required.

ENG 335
ITALIAN RENAISSANCE LITERATURE IN TRANSLATION
3, 3/0
Prerequisite: A literature course at the college level or permission of instructor. The development of humanism from Petrarch to Tasso. Knowledge of Italian not required.

ENG 336
MODERN ITALIAN LITERATURE IN TRANSLATION
3, 3/0; EH
Prerequisite: A literature course at the college level or permission of instructor. A survey of major writers since World War II. Knowledge of Italian not required.

ENG 338
RUSSIAN LITERATURE SINCE THE REVOLUTION
3, 3/0
Prerequisite: A literature course at the college level or permission of instructor. An examination of the state of Russian literature from the revolution to the present. Such writers as Gorky, Sholokhov, Terz, Solzhenitzyn, Pasternak, and Yevtushenko. Knowledge of Russian not required.

ENG 339
MODERN POLISH LITERATURE IN ENGLISH TRANSLATION
3, 3/0
Prerequisite: A literature course at the college level or permission of instructor. A study of selected masterpieces of Polish literature and culture from 1863 to the present: novels, short stories, drama, and poetry. Knowledge of Polish not required.

ENG 341
MODERN HEBREW LITERATURE IN TRANSLATION
3, 3/0; EH
A study of Israeli literature today, its background and influences. Poetry and fiction translated from the Hebrew.

ENG 345
WORLD LITERATURE AFTER 1945
3, 3/0; 1993-95 GEH
Post-World War II literature around the globe. A study of poetry and fiction along with the cultural background of at least two continents per semester.

ENG 350
CONTEMPORARY DRAMA I
3, 3/0; F 93, 94 EH
Prerequisite: Sophomore standing or three hours of English. A study of drama from the 1880s until the end of World War II of such playwrights as Ibsen, Strindberg, Chekhov, Lorca, Synge, O'Casey, and O'Neill.

ENG 351
DRAMA SINCE 1945
3, 3/0; 1993-95 EH
Prerequisite: Sophomore standing or three hours of English. A study of drama since World War II. Includes epic theater, absurdism, and theater of cruelty of such playwrights as Brecht, Ionesco, Beckett, Genet, Miller, Albee, Pinter, Baraka, and Arrabal.

ENG 354
ETHNIC-AMERICAN MINORITY LITERATURE
3, 3/0; 1993-95 DEH
A study of the background, development, and contemporary contribution of ethnic-American minority literature (folk, poetry, short story, novel, biography, and plays) and individual authors. A study of the literary characteristics of the literature, its contribution to the field of American literature, and its place in today's society.

ENG 355
THE SHORT STORY
3, 3/0; 1993-95 EH
Prerequisite: Sophomore standing or three hours of English. A study of major writers in the development of short fiction; may include stories of writers from Poe or Gogol to Pirandello, Joyce, Faulkner, Camus, Malamud, Boll, Sillitoe, or W.M. Kelley.

ENG 356
FUTURISTIC FICTION
3, 3/0; F 93, 94 EH
Prerequisite: Sophomore standing or three hours of English. A study of the background, development, and present status of futuristic fiction. Short story and novel forms. A study of the quality of the literature and its place in today's society.

ENG 357
COMEDY
3, 3/0; 1993-95 EH
Prerequisite: Sophomore standing or three hours of English. An exploration of the nature and forms of comedy in stage and television drama, poetry, fiction, jokes, and life situations. Relationship to respective cultures and periods from Aristophanes into the 1970s.

ENG 360
REALISTIC FICTION FOR CHILDREN
3, 3/0; Sp 94, 95
Prerequisite: ENG 260, or permission of instructor. A study of the literary characteristics, recurring themes, significant authors, and major categories of realistic fiction for children. Students will read and discuss classic and contemporary realism, and illustrations in realistic fiction will be viewed and evaluated in terms of relationship to literary elements.

ENG 377
INTRODUCTION TO SEMANTICS
3, 3/0; 1993-95 EH

An analysis of the relations between words and meaning, cognition and language, culture and connotation. Review of classic and contemporary semantic theories.

ENG 402
ADVANCED CREATIVE WRITING: NARRATIVE
3, 3/0; F 93, 94
Prerequisite: ENG 305, publication of fiction, or permission of instructor. A creative workshop for students who wish to attempt longer forms of narrative than the short story.

ENG 403
ADVANCED CREATIVE WRITING: POETRY
3, 3/0; Sp 94, 95
Prerequisite: ENG 306 or permission of instructor. A creative workshop for students experienced and/or talented in the writing of poetry.

ENG 404
STUDIES IN CINEMA
3, 3/0; 1993-95
Prerequisite: Minimum of one lower-level film course or permission of instructor. May be taken more than once where content is different. An analytical, in-depth study of a film genre, performer, director, or period.

ENG 411
CHAUCE
3, 3/0; Sp 94, 95
Prerequisite: Six hours of literature courses. A study of representative works of Geoffrey Chaucer.

ENG 413
MILTON
3, 3/0; Sp 95
Prerequisite: Six hours of literature courses. A study of representative works of John Milton.

ENG 415
SEVENTEENTH CENTURY ENGLISH LITERATURE
3, 3/0; Sp 94
Prerequisite: Six hours of literature courses. A study of the literature of 17th-century England.

ENG 416
EIGHTEENTH CENTURY ENGLISH LITERATURE
3, 3/0; Sp 95
Prerequisite: Six hours of literature courses. A study of the literature of 18th-century England.

ENG 417
ENGLISH NOVEL TO 1800
3, 3/0; F 93
Prerequisite: Six hours of literature courses. A study of the English novel prior to 1800.

ENG 418
ENGLISH NOVEL 1800-1900
3, 3/0; F 94

Prerequisite: Six hours of literature courses. A study of representative 19th-century English novels.

ENG 419
ROMANTIC MOVEMENT IN ENGLISH LITERATURE
3, 3/0; Sp 94
Prerequisite: Six hours of literature courses. A study of English Romantic writers.

ENG 420
EARLY VICTORIAN LITERATURE
3, 3/0; Sp 95
Prerequisite: Six hours of literature courses. A study of English writers, 1832-59.

ENG 421
LATER VICTORIAN LITERATURE
3, 3/0; F 93
Prerequisite: Six hours of literature courses. A study of English writers, 1859-1914.

ENG 422
JAMES JOYCE AND HIS CONTEMPORARIES
3, 3/0; F 94
Prerequisite: Six hours of literature courses. A study of the major fiction of James Joyce; supplemental readings in other writers of the period.

ENG 432
COMPARATIVE DRAMA: TRAGEDY
3, 3/0; F 94
Prerequisite: Six hours of literature courses. A study of the tragic drama from Aeschylus to the present.

ENG 441
ROMANTIC MOVEMENT IN AMERICAN LITERATURE
3, 3/0; F 93
Prerequisite: Six hours of literature courses. A study of American Romantic writers.

ENG 442
AMERICAN NOVEL TO 1900
3, 3/0; Sp 94
Prerequisite: Six hours of literature courses. A study of the 19th-century American novel.

ENG 450
STUDIES IN POETRY
3, 3/0; Sp 94, 95
Prerequisite: Six hours of literature courses. A study of a particular aspect of poetry: theme, motif, philosophy, concept, or literary movement in English, American, or world literature. May be taken more than once where content is different.

ENG 451
STUDIES IN FICTION
3, 3/0; 1993-95
Prerequisite: Six hours of literature courses. An analysis of selected aspects of the novel, novella, or short story: theme, motif, concept, or move-

ment in English, American, or world literature. May be taken more than once where content is different.

ENG 452 STUDIES IN DRAMA

3, 3/0; 1993-95

Prerequisite: Six hours of literature courses. A study of particular aspects of drama: theme, motif, philosophic content, or literary movement in English, American, or world literature. May be taken more than once where content is different.

ENG 454 CONTEMPORARY NOVEL I

3, 3/0; 1993-95

Prerequisite: Six hours of literature courses. A study of major British and/or American novels from 1914-1945.

ENG 455 CONTEMPORARY NOVEL II

3, 3/0; 1993-95

Prerequisite: Six hours of literature courses. A study of major British and American novels from 1945 to the present.

ENG 461 YOUNG ADULT LITERATURE

3, 3/0; 1993-95

Prerequisite: Six hours of literature courses. A study of literature appropriate to students in grades 7-12.

ENG 462 METHODS AND MATERIALS IN TEACHING SECONDARY-SCHOOL ENGLISH

3, 3/0; 1993-95

Prerequisite: ENG 470, EDF 303, ENG 200 and minimum cumulative average of 2.00. A study of secondary-school curriculum materials and methods of instruction. Only open to juniors and seniors majoring in secondary English or elementary majors seeking certification in English; to be taken the semester before student teaching.

ENG 464 STUDENT TEACHING IN SECONDARY- SCHOOL ENGLISH

12, 0/30; 1993-95

Prerequisite: Completion of ENG 462 with minimum grade of C. Cumulative average minimum of 2.00; 2.50 GPA in Professional Education courses with no grade below C. Full-time practice teaching, five days per week, for 14 weeks; seven weeks in a junior high school situation and seven weeks in a senior high school situation. College supervision bi-weekly. Elementary extension students teach one situation. *Required of juniors and seniors in secondary English and elementary extension students.

ENG 470 FOUNDATIONS OF LANGUAGE

3, 3/0; 1993-95

A study of the structure of language with empha-

sis on English, relation to speech and to writing; language families and their relationships; language change, significance of regional and social dialects.

ENG 472 ENGLISH GRAMMARS

3, 3/0; 1993-95

Prerequisite: ENG 470. A study of different approaches to the analysis of the English language; brief history of the development of the English language; historical survey of the study of language; detailed study of the contemporary scientific approaches to the study of English.

ENG 476 NON-VERBAL COMMUNICATION

3, 3/0; Sp 94, 95

Prerequisite: Six hours of English. A study of the history and development of non-verbal communication and communication systems including grimaces, gestures, posture, tone of voice.

ENG 490 ENGLISH SEMINAR

3, 3/0; 1993-95

Prerequisite: Six hours of English. A study of specific writers, genre, period, theme, etc.

ENG 495 PROJECT

ENG 499 INDEPENDENT STUDY

Exceptional Education

Offered by the Exceptional Education Department
DR. DON LOGAN, Chairperson
Ketchum Hall 201

EXE 100 NATURE AND NEEDS OF INDIVIDUALS WHO ARE EXCEPTIONAL

3, 3/0; 1993-95 DCT

The study of individuals who are exceptional due to factors of intelligence, physical development, behavior, and sensory abilities. The course examines the causes, characteristics, and implications — educational, social, and vocational — of individuals who deviate from the average or normal. Required of all exceptional education majors.

EXE 245 COMMUNITY SERVICE WITH INDIVIDUALS WHO ARE EXCEPTIONAL

1-3, 1-3/2-6/3-9; 1993-95 ET

Service in community agencies with individuals who are exceptional. May be taken for one, two, or three credits. Three credit hours required for majors in exceptional education.

EXE 306 BEHAVIOR MANAGEMENT

3, 3/1; 1993-95 CT

Prerequisite: EXE 100. Reviews various procedures and strategies for managing behavior of students in special education settings. The course focuses on the prevention of undesirable classroom behavior, the assessment and remediation of behavior problems, and the effective delivery of instruction. Students are required to complete a project in an approved educational setting. Required of all exceptional education majors.

EXE 314 PSYCHOLOGY OF INDIVIDUALS WHO ARE EXCEPTIONAL

3, 3/0; F 93, 94 CT

Examination of behavior trends common to various types of exceptionality; description, analysis, examination of educational implications.

EXE 320 EVALUATING INDIVIDUALS WHO ARE EXCEPTIONAL

3, 3/1; 1993-95

Prerequisite: EXE 100. Introduction to the educational assessment of students who are disabled. Models, issues, basic terminology and practice, interpreting scores, testing and test construction are included. Required of all exceptional education majors.

EXE 330 INDIVIDUALS WITH MILD DISABILITIES

3, 3/0; 1993-95

Prerequisite: EXE 100. This course provides in-depth consideration of the history, causes, personal and social factors, and needs of individuals exhibiting mild disabilities. Required of all exceptional education majors.

EXE 331 INDIVIDUALS WITH MODERATE/ SEVERE/AND MULTIPLE DISABILITIES

3, 3/0; 1993-95

Prerequisite: EXE 100. This course provides in-depth consideration of the history, causes, personal and social factors, and needs of individuals exhibiting moderate and severe disabilities. Required of all exceptional education majors.

EXE 340 CURRICULUM FOR INDIVIDUALS WITH MILD DISABILITIES

3, 3/1; 1993-95

Prerequisite: EXE 306; EXE 330. Basic curricular practices; procedures in developing, implementing, and revising programs for students who have mild disabilities. Required of all exceptional education majors.

EXE 341 CURRICULUM FOR INDIVIDUALS WITH MODERATE/SEVERE/MULTIPLE DISABILITIES

3, 3/1; 1993-95

Prerequisite: EXE 306; EXE 331. Curriculum methods, materials, problems, in educating students with moderate, severe or multiple disabilities in public school classes, residential settings, vocational programs, and other service programs. Required of juniors and seniors in exceptional education.

EXE 385 OBSERVATION AND PARTICIPATION IN SPECIAL EDUCATION

6, 2/12; 1993-95

Prerequisite: Minimum cumulative GPA of 2.00; EXE 320; EXE 340; EXE 341, EDU 315. Observation, classroom participation, selection, organization, presentation of curriculum material at different grade levels; evaluation of pupil progress in classes for students with disabling conditions. Required of juniors and seniors in exceptional education.

EXE 420 PRACTICUM IN SPECIAL EDUCATION

6, ½ semester; 1993-95

Prerequisite: Minimum grade of C in EXE 385. Minimum overall cumulative GPA of 2.5. Minimum cumulative GPA of 2.5 in the major. Practice teaching with students who are learning and behavior disordered, mentally retarded, and physically and neurologically impaired in public school special classes, private agencies, or residential settings. Required of seniors in exceptional education.

EXE 495 PROJECT

EXE 499 INDEPENDENT STUDY

Fashion Technology

Offered by the Nutrition and Food Science Department
ELLEN M. DeWIND, Acting Chairperson
Caudell Hall 106

Note: Students may be responsible for some minor expenses associated with some of the following courses. Consult the department or schedule of courses, published each semester, for details.

FST 108 FASHION FUNDAMENTALS

3, 2/2; 1993-95 CT

Students will be introduced to elementary principles of apparel design and color, fundamentals

of fibers and fabrics as they impact on apparel design, contemporary garment construction techniques, and quality analysis of ready-to-wear garments.

FST 109 DESIGN ROOM TECHNIQUES

3, 2/2; Sp 94, 95

Prerequisites: FST 108 or permission of instructor. Course focuses on design room techniques used in both couture and mass production of apparel. Emphasis will be placed on techniques used to achieve proper fitting garments, development of individual sloper, and mastery of selected couture and industrial construction processes.

FST 206 INTRODUCTION TO TEXTILES

3, 3/0; F 93, 94

An introduction to the consumer selection, use, and care of textile products. This course will be useful for non-majors as well as majors with little or no background in chemistry. Topics include the processes involved in producing textile products, properties of textiles, and the influences of these properties on textile utilization and performance.

FST 208 VISUAL DESIGN FOR THE FASHION INDUSTRY

3, 2/2; F 93, 94

Prerequisites: FST 108 and FST 206. Emphasis of the course will be placed on the development of the aesthetic aspects of apparel design and visual display. Focus will be on the application of design elements and principles to the apparel/fashion industry.

FST 303/THA 303 FASHION ILLUSTRATION

3, 3/0

Prerequisite: DES 105, CFS 108, or THA 311, or permission of instructor. Introduction to fashion drawing; development of drawing skills that will enable students to utilize a variety of media to present the fashion figure with contemporary fashion styles from rough sketch to finished rendering.

FST 306 TEXTILE SCIENCE

3, 2/2

Prerequisite: Chemistry 102 or 112 strongly recommended. Study of natural and man-made fibers as they relate to use, care, and consumer satisfaction.

FST 326 APPAREL DESIGN I: FLAT PATTERN

3, 2/2; Sp 94, 95

Prerequisites: FST 108, FST 109, FST 206, FST 208, FST 303. An introduction to the flat pattern method of pattern making. A basic sloper will be developed that will be utilized in further pattern development. Emphasis will be placed on the design and completion of selected items of apparel.

FST 327 APPAREL DESIGN II: ADVANCED PATTERNMAKING

3, 2/2; F 93, 94

Prerequisite: FST 326. Student is provided an opportunity for advanced apparel design via manual and computerized flat pattern experiences. Emphasis will be placed on the development of a seasonal apparel line using the Gerber PDS system.

FST 328 APPAREL DESIGN III: DRAPING

3, 2/2; Sp 94

Prerequisite: FST 108, 306, 327 or permission of instructor. Experience with the manipulation of a two-dimensional fabric to cover three-dimensional forms — both mobile and immobile — using a variety of fabrics to achieve individualized design.

FST 336 TEXTILE EVALUATION

3, 2/2; Sp 94, 95

Prerequisite: FST 306 or permission of instructor. Fibers, yarns, fabrics, and finishes emphasizing textile testing and utilizing test methods in relation to the consumer and the environment.

FST 340 INTRODUCTION TO FASHION MERCHANDISING

3, 3/0; 1993-95 CT

An introduction to Fashion Merchandising including basic market structure, operational patterns, and occupational roles.

FST 357 CONTEMPORARY FASHION ANALYSIS

3, 3/0; F 93, 94

Prerequisites: FST 108, FST 306, junior standing or permission. Analysis of fashion theory and designers' influence on fashion trends. Students will examine current fashion trends, the forecasting process and become familiar with designers and fashion terminology. Development of forecasting skills and personal fashion philosophy will be pursued.

FST 410 FUNDAMENTALS OF APPAREL PRODUCTION

3, 3/0; Sp 94, 95

Prerequisite: FST 108, 306 or permission of instructor. Apparel production provides students with an overview of the apparel industry. It includes a study of the structure and organization of the industry as well as the design sources, techniques of pattern development, selection of raw materials, manufacturing processes, costing, quality control, and marketing strategies of the finished product.

FST 411 APPAREL TECHNOLOGY I: COMPUTER AIDED MANUFACTURING

3, 2/2; F 93, 94

Prerequisites: FST 108, FST 410. Computer aided manufacturing simulates the production

of industrial apparel patterns for the ready-to-wear market. Emphasis is placed on computer aided graded, pattern plotting, and marker-making.

FST 412
APPAREL TECHNOLOGY II:
COMPUTERIZED APPAREL DESIGN

3, 2/2; Sp 94, 95

Prerequisites: FST 108 and FST 410. This course is an introduction to computerized design. Emphasis will be in three areas. First, the development of basic understanding and design skills on the "Gerber Creative Designer" CAD system. Second, the translation of previously acquired technical and aesthetic fashion design skills into a new media-industrialized computer design. Third, professional portfolio presentation.

FST 425
CLOTHING DESIGN THROUGH
TAILORING

3, 2/2

Prerequisites: FST 306, FST 307. Selection, design, fitting, and construction techniques pertaining to traditional and contemporary tailoring.

FST 434
PRINCIPLES AND PRACTICES IN
FASHION BUYING AND
MERCHANDISING

3, 3/0

Prerequisites: FST 340, BUS 117. Principles and practices in fashion buying provides students with marketing skills specific to fashion buying. Market segmentation, fashion merchandising objectives, and techniques used for buying and controlling fashion inventories will be explored.

FST 447
CLOTHING IN RELATION TO
HUMAN BEHAVIOR

3, 3/0; ET

An exploration of the cultural, communicative, sociological, and psychological functions of dress as they relate to human behavior. Topics include the cultural universalities and diversities of dress, the interpretation of the communicative language of clothing, psychological clothing needs of the life cycle, clothing needs of the disabled, and contemporary issues related to dress.

FST 448
HISTORY OF WESTERN DRESS

3, 3/0; F 93, 94 ET

Survey of western dress from earliest period of time to the present with emphasis on the societal influences that evoke changes and the recurrence of fashion trends.

FST 449
TEXTILES THROUGH THE AGES

3, 3/0

Prerequisite: FST 306 or permission of instructor. Survey of textiles from earliest period of time to the present, with concentration on the technological development of textile and its influence on today's design and culture.

FST 450
APPAREL/TEXTILE/FASHION
INDUSTRY

3, 3/0

Prerequisites: FST 306, 357, 447, FST 448 or 449. Overview of textile/apparel/fashion industry with emphasis on the inherent structural characteristics of the three segments, their interrelationships and current issues.

FST 451
SENIOR PROJECT

3, 3/0; F 93, 94

Prerequisite: FST 411 or FST 412. Culminating experience taken by senior level students after completion of all prerequisites. Projects will vary from year to year but will provide students the opportunity to integrate all previous academic experiences. Projects may include the design, production, and marketing of an apparel line, a major fashion production or individualized student projects depending upon interest and/or need.

FST 488
INTERNSHIP

Variable credit

Prerequisites: Upper division standing and permission of instructor. Designed to provide for the integration of theoretical knowledge with practical experience in an institutional, business, social, or governmental agency. Includes supervised field participation, meetings with instructor, and written or other production. Students must have at least a 2.5 GPA and a background within the area of interest to be considered for this experience. May be taken for maximum of nine credits with no more than six being in one agency.

FST 495
PROJECT

Credits vary

FST 499
INDEPENDENT STUDY

Credits vary

Fine Arts

Offered by the Fine Arts Department
PETER J. SOWISKI, Chairperson
Upton Hall 502

All studio courses in fine arts require at least three hours per week of outside preparation in addition to the regular class meetings.

Note: Students are expected to assume the costs of materials they use in their courses. All studio courses may have an additional instructional charge for materials used in class.

FAR 100
INTRODUCTION TO FINE ARTS

3, 0/6; 1993-95 CA

A study of the critical bases for procedures in the fine arts; introductory problems in studio performance. Lecture and studio experience. Note: For non-art majors only.

FAR 101
DRAWING I

3, 0/6; 1993-95 CA

Fundamentals of drawing based primarily on the study and representation of objects and nature forms, with problems of analysis, composition, and structure in various media; involves lecture and studio experience.

FAR 102
DRAWING II

3, 0/6; 1993-95 EA

Prerequisite: FAR 101. Drawing from the nude using various media with an emphasis on proportion anatomy and pictorial structure; involves lecture and studio experience.

FAR 103
MODELING

3, 0/6; 1993-95

Modeling as an introductory experience in the exploration of three-dimensional form; development of perceptual and analytical attitudes; involves lectures and modeled work dealing with the human figure; for B.F.A. first-year students only.

FAR 210
INTRODUCTORY PAINTING

3, 0/6; 1993-95 CA

Prerequisite: FAR 101. An introduction to the methods, techniques, standards, and values of painting; exploration of color, form, and compositional problems; includes lecture and studio experiences.

FAR 220
INTRODUCTORY PHOTOGRAPHY

3, 0/6; 1993-95 CA

Prerequisite: FAR 101. Basic technique: camera use, film development, enlarging, print finishing, and presentation. Emphasis will be placed concurrently upon image and technique to produce personal expressive images; includes lecture and studio experiences. Note: 35mm camera with meter and full manual controls required.

FAR 230
INTRODUCTORY PRINTMAKING

3, 0/6; 1993-95 CA

Prerequisite: FAR 101. An introduction to printmaking and its basic processes and techniques, involving demonstrations, lectures, and studio experiences in one or more areas such as intaglio, lithography, and relief.

FAR 240
INTRODUCTORY SCULPTURE

3, 0/6; 1993-95 CA

Prerequisite: FAR 101. Introduction to the fun-

damentals of sculptural form; exploration of additive, subtractive, and constructive approaches to sculpture through lecture and studio experiences.

FAR 250
ART HISTORY I

3, 3/0; 1993-95 CA

The history of painting, sculpture, architecture, and the related arts from Prehistoric times through the Gothic period.

FAR 251
ART HISTORY II

3, 3/0; 1993-95 CA

The history of painting, sculpture, architecture, and the related arts from the Renaissance to the modern period in Europe and the United States.

FAR 300
DRAWING III

3-6 (3 hrs./sem.) 0/6; 1993-95

Prerequisite: FAR 102. A continuation of FAR 102 with an emphasis on surface anatomy and pictorial structure; includes lecture and studio experience. Course may be repeated 2 times.

FAR 311
INTERMEDIATE PAINTING I

3, 0/6; 1993-95

Prerequisite: FAR 210. A continuation of the problems dealt with in Introductory Painting, working toward a greater awareness of a personal statement; includes lecture and studio experience.

FAR 312
INTERMEDIATE PAINTING II

3, 0/6; 1993-95

Prerequisite: FAR 311. A continuation of the problems dealt with in the first two painting courses, allowing the opportunity for more thorough fundamental awareness at a more intense concentration; includes lecture and studio experience.

FAR 313
ADVANCED PAINTING

3-9 (3 hrs./sem.) 0/6; 1993-95

Prerequisite: FAR 312. Advanced painting, with media, style, and content based on individual needs; concentration on individually-selected areas of painting; includes lectures and studio experience. Course may be repeated 3 times.

FAR 316
PAINTING IN SIENA

3, 0/6; 1993-95

Prerequisite: For art credit — FAR 210; For non-art credit — none. An upper-level course in painting taught in Siena, Italy. Students will work at the level of their experience and in the materials and techniques currently available in Siena.

FAR 321
INTERMEDIATE PHOTOGRAPHY I

3, 0/6; 1993-95

Prerequisite: FAR 220. A continuation of introductory photography with more in-depth studies; concurrent emphasis on technique and image to produce personal, expressive, and significant images; includes lecture, field and studio experience. Note: 35mm camera with meter and full manual controls required; tripod, hand meter, and flash desirable.

FAR 322
INTERMEDIATE PHOTOGRAPHY II

3, 0/6; 1993-95

Prerequisite: FAR 321. An advanced course in the photographic disciplines, stressing the individual, expressive, and creative approach to the making of significant photographic images. Includes lecture, field and studio experiences. Note: 35mm camera with meter and full manual controls, tripod, flash, hand meter required.

FAR 323
ADVANCED PHOTOGRAPHY

3-9 (3 hrs./sem.) 0/6; 1993-95

Prerequisite: FAR 322. An advanced course in which individual directions and advanced photographic concerns may be explored; includes lecture, field and studio experiences. Course may be repeated 3 times.

FAR 327
NON-SILVER PHOTOGRAPHIC
PROCESSES

3, 0/6; summer only

Prerequisite: FAR 220. An investigation of light-sensitive, non-silver photographic processes. Areas covered will be cyanotype, Vandyke brown, casein, and gum bichromate. Students will be given instruction in the basic processes then individually assigned problems. Papers, fabrics, and other working materials and supplies will be provided by the student.

FAR 331
INTERMEDIATE PRINTMAKING I

3, 0/6; 1993-95

Prerequisite: FAR 230. A continuation of the problems dealt with in Introductory Printmaking; emphasis on personal expression and creative possibilities; includes lecture, demonstrations, and studio experience.

FAR 332
INTERMEDIATE PRINTMAKING II

3, 0/6; 1993-95

Prerequisite: FAR 331. A continued exploration of printmaking with emphasis on personal expression and creative possibilities; includes lecture, demonstrations, and studio experience.

FAR 333
ADVANCED PRINTMAKING

3-9 (3 hrs./sem.) 0/6; 1993-95

Prerequisites: FAR 331 and 332. Advanced printmaking, media determined by the student

in consultation with the instructor; includes lectures and studio experiences. Course may be repeated 3 times.

FAR 335
PAPERMAKING

3-9 (3 hrs./sem.) 0/6; 1993-95 EA

Prerequisite: Any studio experience in FAR/DES. The theory and practice of hand-made papermaking involving demonstrations, lectures, and studio experience. Note: Required of B.F.A. printmaking majors (0165).

FAR 341
INTERMEDIATE SCULPTURE I

3, 0/6; 1993-95

Prerequisite: FAR 240. A further exploration of sculptural form with a more complete study of the numerous sculptural approaches and techniques; practice in planning and executing sculpture projects.

FAR 342
INTERMEDIATE SCULPTURE II

3, 0/6; 1993-95

Prerequisite: FAR 341. A continuation of Intermediate Sculpture I with further emphasis on exploration of the variations within each technique and approach; development of personal modes of expression.

FAR 343
ADVANCED SCULPTURE

3-9 (3 hrs./sem.) 0/6; 1993-95

Prerequisite: FAR 342. Concentration on individually selected areas of development in sculpture based on personal interests, needs, and experience. This course may be repeated 3 times.

FAR 345
FIGURE MODELING

3, 0/6; 1993-95

Prerequisite: FAR 240. Figure modeling as a basic sculptural discipline; portrayal and interpretation of the human form; includes anatomy lectures and work from the live model.

FAR 346
SCULPTURE IN SIENA

3, 0/6; 1993-95

Prerequisite: For art credit — FAR 240; For non-art credit — none. An upper-level course in sculpture taught in Siena, Italy. Students will work at the level of their experience and in the materials and techniques currently available in Siena.

FAR 354
GREEK ART

3, 3/0; F 93 EA

Prerequisite: FAR 250 and 251. A concentrated study of the architecture, painting, and sculpture of ancient Greece from Minoan and Mycenaean ages to the end of the Hellenistic period. Note: Required of art history majors.

FAR 355
ETRUSCAN AND ROMAN ART

3, 3/0; Sp 93 EA

Prerequisite: FAR 250 and 251. A concentrated study of the architecture, painting, and sculpture of the Etruscan civilization and of the Roman Republic and Empire. Special emphasis will be given to Roman sculpture and architecture of the Republican and Imperial periods.

FAR 356
EARLY MEDIEVAL ART

3, 3/0; Sp 94 EA

Prerequisite: FAR 250 and 251. A concentrated study of the art and architecture of western Europe in relation to the arts of the classical world and Byzantium from the 6th through the 11th centuries, emphasizing historical and religious meaning of art, architecture, manuscript illumination, and jeweled arts of the period. Illustrated lectures, extra class assignments.

FAR 357
GOTHIC ART

3, 3/0; Sp 93, 95 EA

Prerequisite: FAR 250 and 251. A comprehensive study of architecture, sculpture, painting, and the decorative arts of the Gothic era from the rise of the new aesthetic, through its international development to its culmination, from Abbot Suger and the Abbey Church of St. Denis to the Henry VII Chapel at Westminster Abbey. Note: Required of art history majors.

FAR 358
EARLY RENAISSANCE ART IN ITALY

3, 3/0; F 93 EA

Prerequisite: FAR 250 and 251 except in Siena. Survey of painting, sculpture, and architecture of 15th-century Italy. Special attention to Donatello, Brunelleschi, and Alberti. Consideration will be given to important earlier artists and movements as well as to the aesthetic implications of the rebirth of classical tradition in western civilization.

FAR 359
HIGH RENAISSANCE AND MANNERISM

3, 3/0; Sp 94 EA

Prerequisite: FAR 250 and 251. Survey of Italian art and architecture in the 16th century. Special attention to Bramante, Leonardo, Raphael, and Michelangelo, and the emergence of Mannerism.

FAR 360
NORTHERN RENAISSANCE ART

3, 3/0; Sp 93, 95 EA

Prerequisite: FAR 250 and 251. A concentrated study of the artistic production, including illuminated manuscripts, in the Netherlands, France, Germany, England, from the late 14th through the early 16th centuries.

FAR 361
ITALIAN BAROQUE ART

3, 3/0; F 94 EA

Prerequisite: FAR 250 and 251. A concentrated

study of the architecture, sculpture, and painting in Italy during the 17th and 18th centuries. Emphasis will be placed on key centers such as Rome, Venice, Turin, and Naples.

FAR 362
NINETEENTH-CENTURY ART

3, 3/0; F 93, 94 EA

Prerequisite: FAR 250 and 251. A concentrated study of architecture from neo-classicism of the Adam Brothers to the skyscraper; painting from David to Cezanne in France, the Nazarenes and Pre-Raphaelites in Germany and England; sculpture from Houdon and Canova to Rodin, in relationship to the social, political, economic, and intellectual climate of the times.

FAR 363
TWENTIETH-CENTURY ART

3, 3/0; Sp 94, 95 EA

Prerequisite: FAR 250 and 251. A study of the major trends and works of the twentieth century, with an emphasis on historical, artistic, judgmental, and cultural meanings as they reflect the twentieth century and past civilizations; includes painting, sculpture, architecture, and other areas.

FAR 365
AMERICAN ART I

3, 3/0; F 94 EA

Prerequisite: FAR 250 and 251. A comprehensive study of architecture, painting, and sculpture in the United States from the 17th century to WWI.

FAR 367
BAROQUE OF NORTHERN EUROPE

3, 3/0; Sp 95 EA

Prerequisite: FAR 250 and 251. A concentrated study of the architecture, sculpture, and painting in northern Europe during the 17th and 18th centuries. Major emphasis will be placed on developments in France, Holland, and Germany.

FAR 368
ROMANESQUE ART

3, 3/0; F 94 EA

Prerequisite: FAR 250 and 251. A comprehensive study of architecture, sculpture, painting, and the decorative arts of Europe from the origins of a Romanesque style in the 11th century through its culmination in the late 12th century—from the era of the Bayeux Tapestry and the churches of the Pilgrimage Road to the age of Abbot Suger.

FAR 372
MASTERWORKS OF ARCHITECTURE

3, 3/0; Sp 95

An introduction to masterworks of architecture, emphasizing architecture as a living organism. Buildings selected from various periods, cultures; styles from early civilization to the present day, including places of worship and interment, public and commercial structures, private residences.

FAR 400
DRAWING IV

3-6 (3 hrs./sem.) 0/6; 1993-95

Prerequisite: FAR 300. Advanced drawing with media and content based upon individual needs. Concentration on individually-selected areas of development in drawing; use of model; lecture and studio experiences included. This course may be repeated 2 times.

FAR 410
SENIOR STUDIO IN PAINTING

6, 0/12; 1993-95

Prerequisite: FAR 313. A six-credit-hour concentration of studio work by the senior major in painting; the student will plan and execute a series of problems and projects in consultation with major adviser. Note: B.F.A. painting majors only.

FAR 420
SENIOR STUDIO IN PHOTOGRAPHY

6, 0/12; 1993-95

Prerequisite: FAR 323. A six-credit-hour concentration of studio work by the senior major in photography; the student will plan and execute a series of problems and projects in consultation with major adviser. Note: B.F.A. photography majors only.

FAR 430
SENIOR STUDIO IN PRINTMAKING

6, 0/12; 1993-95

Prerequisite: FAR 333. A six-credit-hour concentration of studio work by the senior major in printmaking; the student will plan and execute a series of problems and projects in consultation with major adviser. Note: B.F.A. printmaking majors only.

FAR 440
SENIOR STUDIO IN SCULPTURE

6, 0/12; 1993-95

Prerequisite: FAR 343. A six-credit-hour concentration of studio work by the senior major in sculpture; the student will plan and execute a series of problems and projects in consultation with major adviser.

FAR 470
SENIOR SEMINAR IN FINE ARTS

3, 3/0; F 93, 94

Prerequisite: FAR 313, 323, 333, or 343. A final evaluative process regarded as a culminating experience in the program; discussions and lectures in major areas; theory and significance of selected problems; a critical analysis of the student's work resulting in the preparation of a professional portfolio. Note: B.F.A. majors only.

FAR 495
PROJECT**FAR 499**
INDEPENDENT STUDY**FOREIGN LANGUAGE****Foreign Language Requirement**

All students in B.A. degree programs must demonstrate proficiency in a single foreign language equivalent to the successful completion of the first two years of college-level study (101-202 level). Courses taken to satisfy the language requirement may be applied to the following sections of the B.A. degree audit sheet: Humanities (maximum of two courses), general education electives, all-college electives. Students who have successfully completed foreign language study on the high school level may register for the appropriate course or take a placement examination administered by the Foreign Language Department. Normally, one year of high school study is equivalent to one semester of college level work. Successful completion of one language through the fourth year in high school satisfies the requirement. Transfer students may apply language courses successfully completed at other institutions in fulfillment of the requirement. Foreign language courses currently numbered 201-202 shall carry upper-level credit, i.e., they may be applied toward fulfillment of the 45-credit upper-division requirement. For further information regarding placement or any aspect of the requirement, contact the Foreign Language Department, Bishop Hall 122, 878-5414.

Note: The four years of high school study which shall constitute fulfillment of the requirement are to be verified by the appearance of level IV on the high school transcript.

Major programs (B.A.) are offered in French, Italian, and Spanish. There are secondary education programs (B.S.) in French and Spanish. Minors are offered in French, German, Italian, and Spanish. Polish and Russian courses may be applied to the East European Studies Minor.

Offered by the Foreign Language Department
DR. JOSEPH V. NARDIELLO, Chairperson
Bishop Hall 122

FLA 461
LANGUAGE TEACHING WORKSHOP

3, 3/0

Prerequisite: Mastery of language to be taught and permission of instructor. A course in foreign language teaching at the college level; includes practice in techniques for teaching listening, speaking, reading, and writing skills. Student has responsibilities in small and/or large group instruction.

FLA 462
LANGUAGE TEACHING WORKSHOP

3, 3/0

Prerequisite: Mastery of language to be taught and permission of instructor. Continuation of FLA 461.

FLA 495
PROJECT

1-3 cr.; offered based on staff availability

Prerequisite: Permission of instructor.

FLA 499
INDEPENDENT STUDY

3 cr.; offered based on staff availability

Prerequisite: Permission of instructor.

See also:

Classics	Italian
Foreign Language	Latin
Education	Polish
French	Russian
German	Spanish
Greek	Swahili

Foreign Language Education**FLE/SED 200**
FIELD EXPERIENCE IN FOREIGN LANGUAGE EDUCATION

3, 6/0; 1993-95

Prerequisite: Sophomore; completion of 302 in language of specialization; GPA of 2.5 or above in language of specialization or GOOD on MLA scale; proficiency in English (FS1-3); permission of FLE coordinator. Ninety clock hours in a middle, junior high, or senior high school in observation and participation of various types. Conducted by school and college staff.

FLE/SED 405
METHODS AND MATERIALS FOR TEACHING FOREIGN LANGUAGES IN THE SECONDARY SCHOOLS

3, 3/0; F 93, 94

Prerequisite: Second semester junior; FLE/SED 200, EDF/SED 303, EDF/SED 403. Introduction to the elements of a foreign language curriculum. Selecting, organizing and presenting material; designing classroom activities; evaluating student progress; teacher-pupil relationships. Students in Foreign Language teacher certification programs should take this course immediately before FLE 407-408.

FLE/SED 406
TECHNIQUES FOR TEACHING AND EVALUATING FOREIGN LANGUAGES IN MIDDLE AND SECONDARY SCHOOLS

3, 3/0; F 93, 94

Prerequisite: FLE/SED 405, Methods and Materials for Teaching Foreign Languages in Secondary Schools or permission of instructor. A continuation of FLE 405. Refinement of the student's skill in teaching and testing foreign languages, with special emphasis on applying a communicative syllabus to middle and secondary school language programs.

FLE/SED 407
STUDENT TEACHING OF FOREIGN LANGUAGES IN THE MIDDLE/JUNIOR HIGH SCHOOL

6, 0/30; 1993-95

Prerequisite: All required courses in language of specialization; grade of C or higher in FLE 405; EDU/SED 416; satisfactory completion of SLA 100; permission of FLE coordinator. Teaching under supervision in a middle school or junior high school five days per week, with additional participation in school program. Evaluation by college and school personnel.

FLE/SED 408
STUDENT TEACHING OF FOREIGN LANGUAGES IN THE HIGH SCHOOL

6, 0/30; 1993-95

Prerequisite: All required courses in language of specialization; grade of C or higher in FLE 405; EDU/SED 416; satisfactory completion of SLA 100; permission of FLE coordinator. Teaching under supervision in a senior high school five days per week, with additional participation in school program. Evaluation by college and school personnel.

Classics

See also: Greek, Latin

Offered by the Foreign Language Department
DR. JOSEPH V. NARDIELLO, Chairperson
Bishop Hall 122

FLA 337
GREEK AND ROMAN MYTHOLOGY

3, 3/0; Sp 94, 95 EH

Prerequisite: A literature course at the college level or permission of instructor. The stories of the gods, goddesses, and heroes of Greece and Rome as presented in Greek and Roman literature, with emphasis upon determining the possible origins and meaning of the myths studied.

FLA 338
INTRODUCTION TO CLASSICAL GREEK DRAMA

3, 3/0; EH

Prerequisite: A literature course at the college level or permission of instructor. Study and discussion of selected ancient Greek plays in modern translations, with emphasis upon their uniqueness as cultural documents and their enduring quality as drama. Characteristics of Greek drama, the ancient theater, and theatrical conventions.

See also: Greek, Latin

French

Offered by the Foreign Language Department
DR. JOSEPH V. NARDIELLO, Chairperson
Bishop Hall 122

FRE 101 ELEMENTARY FRENCH

3, 3/0; 1993-95 CH
Fundamentals of French with emphasis on the spoken language.

FRE 102 ELEMENTARY FRENCH

3, 3/0; 1993-95 CH
Prerequisite: FRE 101 or equivalent. Continuation of FRE 101.

FRE 201 INTERMEDIATE FRENCH

3, 3/0; 1993-95 EH, upper level credit
Prerequisite: FRE 102 or equivalent. Further development of the basic skills with emphasis on reading and writing.

FRE 202 INTERMEDIATE FRENCH

3, 3/0; 1993-95 EH, upper level credit
Prerequisite: FRE 201 or equivalent. Continuation of FRE 201.

FRE 301 FRENCH CONVERSATION AND COMPOSITION

3, 3/0; 1993-95 EH
Prerequisite: FRE 202 or equivalent. Practice in spoken and written French.

FRE 302 FRENCH CONVERSATION AND COMPOSITION

3, 3/0; 1993-95 EH
Prerequisite: FRE 301 or permission of instructor. Practice in spoken and written French.

FRE 303 TRANSLATION

3, 3/0; Sp 94
Prerequisite: FRE 301-302. Study of problem words, idiomatic expressions, and contrastive English/French, French/French structures. Intensive work in translation from English to French and French to English of authentic texts.

FRE 305 SPOKEN FRENCH

3, 3/0; F 93, 94
Prerequisite: FRE 301 and FRE 302, or permission of instructor. Introduction to French phonetics and applied linguistics.

FRE 306 THE CIVILIZATION OF FRANCE

3, 3/0; Sp 94, 95 EH
Prerequisite: FRE 301, or permission of instructor. Survey of French civilization, its economic, social, and cultural aspects based on a review of the history of France.

FRE 307 SURVEY OF FRENCH LITERATURE

3, 3/0; F 94
Prerequisite: FRE 301 or permission of instructor. The Middle Ages through the Renaissance.

FRE 308 SURVEY OF FRENCH LITERATURE

3, 3/0; F 93, Sp 95
Prerequisite: FRE 301 or permission of instructor. Classicism and the Enlightenment.

FRE 309 SURVEY OF NINETEENTH AND TWENTIETH-CENTURY FRENCH LITERATURE

3, 3/0; Sp 94
Prerequisite: FRE 301 or permission of instructor. Introduction to representative works from a variety of genres. From Romanticism to contemporary writing.

FRE/ENG 331 FRENCH LITERATURE IN TRANSLATION

3, 3/0; Sp 95 EH
Prerequisite: A literature course at the college level or permission of instructor. Selected masterpieces of contemporary French literature in translation. Knowledge of French not required. *Open to French majors only upon approval of both the department chairperson and the course instructor.

FRE 341 FRANCOPHONE LITERATURE IN TRANSLATION

3, 3/0; Sp 94, 95
Prerequisite: A literature course at the college level or permission of instructor. Study of aspects of the Francophone world (French-speaking Europe, North America, Africa and the Caribbean) with particular emphasis on historical, political, economic, and social changes that have occurred as a result of the colonial, neo-colonial and anti-colonial periods.

FRE 401 CLASSICAL FRENCH THEATER

3, 3/0; F 94
Prerequisite: FRE 307-308 or permission of instructor. The French theater of the seventeenth century.

FRE 403 NINETEENTH-CENTURY FRENCH NOVEL

3, 3/0; Sp 95
Prerequisite: FRE 307-308 or permission of

instructor. A study and analysis of major works of the period.

FRE 404 CONTEMPORARY FRENCH NOVEL

3, 3/0; Sp 94
Prerequisite: FRE 307-308 or permission of instructor. A study and analysis of major works of the twentieth century.

FRE 408 CONTEMPORARY FRENCH THEATER

3, 3/0; F 93
Prerequisite: FRE 307-308 or permission of instructor. The French theater of the twentieth century.

FRE 410 FRENCH POETRY FROM BAUDELAIRE TO PRESENT

3, 3/0; F 94
Prerequisite: FRE 307, 308 or 309 or permission of instructor. French poetry from Baudelaire, the "Poetes maudits," Symbolism, Surrealism, feminine-feminist poetry to present poetic expression.

FRE 415 ADVANCED GRAMMAR AND COMPOSITION

3, 3/0; F 94, 95
Prerequisite: FRE 301-302. Systematic study of advanced topics of French grammar with work in French composition.

FRE 416 ADVANCED CONVERSATION AND COMPOSITION

3, 3/0; Sp 94, 95
Prerequisite: FRE 302 and 415, or permission of instructor. Advanced conversation dealing with contemporary French civilization and institutions. *Recommended for secondary education majors.

FRE 417 BUSINESS FRENCH

3, 3/0; Sp 94
Prerequisite: FRE 301-302. A study of areas of the French business world to develop competency in French commercial language. Practice in translating and writing business communiques.

FRE 496 SENIOR SEMINAR I

3, 3/0
Prerequisite: Permission of instructor. Topic to be chosen by the instructor.

FRE 497 SENIOR SEMINAR II

3, 3/0
Prerequisite: Permission of instructor. Topic to be chosen by the instructor.

German

Offered by the Foreign Language Department
DR. JOSEPH V. NARDIELLO, Chairperson
Bishop Hall 122

GER 101 ELEMENTARY GERMAN

3, 3/0; F 93, 94 CH
Fundamentals of German with emphasis upon speaking.

GER 102 ELEMENTARY GERMAN

3, 3/0; Sp 94, 95 CH
Prerequisite: GER 101 or equivalent. Continuation of GER 101.

GER 201 INTERMEDIATE GERMAN

3, 3/0; F 93, 94 EH, upper level credit
Prerequisite: GER 102 or equivalent. Further development of the basic skills with emphasis upon reading, aural comprehension, and speaking.

GER 202 INTERMEDIATE GERMAN

3, 3/0; Sp 94, 95 EH, upper level credit
Prerequisite: GER 201 or equivalent. Continuation of GER 201.

GER 301 GERMAN CONVERSATION AND COMPOSITION

3, 3/0; F 93, 94 EH
Prerequisite: GER 202 or equivalent. Practice in written and spoken German with emphasis upon the spoken language.

GER 302 GERMAN CONVERSATION AND COMPOSITION

3, 3/0; Sp 94, 95 EH
Prerequisite: GER 202 or equivalent. Practice in spoken and written German with emphasis upon the written language.

GER 306 GERMAN CIVILIZATION

3, 3/0; EH
Prerequisite: GER 201-202. Study of the growth of German civilization, with emphasis on the artistic and intellectual contributions to the Western world.

GER 308 HISTORY OF GERMAN LITERATURE II

3, 3/0
Prerequisite: GER 202 or permission of instructor. Reading of representative selections from the major authors of the Classical period and the nineteenth and twentieth centuries.

GER 401 TWENTIETH-CENTURY GERMAN LITERATURE

3, 3/0
Prerequisite: GER 202 or permission of instructor. A study of the chief literary trends and the major authors of German literature in the twentieth century.

Greek

Offered by the Foreign Language Department
DR. JOSEPH V. NARDIELLO, Chairperson
Bishop Hall 122

GRK 101 ELEMENTARY NEW TESTAMENT GREEK (KOINE)

3, 3/0; F 94 CH
Fundamentals of Koine Greek with emphasis upon reading.

GRK 102 ELEMENTARY NEW TESTAMENT GREEK (KOINE)

3, 3/0; Sp 95 CH
Prerequisite: GRK 101 or equivalent. Continuation of GRK 101.

See also: Classics

Italian

Offered by the Foreign Language Department
DR. JOSEPH V. NARDIELLO, Chairperson
Bishop Hall 122

ITA 101 ELEMENTARY ITALIAN

3, 3/0; 1993-95 CH
Fundamentals of Italian with emphasis on listening and speaking skills.

ITA 102 ELEMENTARY ITALIAN

3, 3/0; 1993-95 CH
Prerequisite: ITA 101 or equivalent. Continuation of ITA 101.

ITA 201 INTERMEDIATE ITALIAN

3, 3/0; 1993-95 EH, upper level credit
Prerequisite: ITA 102 or equivalent. Further development of the basic skills with emphasis on reading and writing.

ITA 202 INTERMEDIATE ITALIAN

3, 3/0; 1993-95 EH, upper level credit
Prerequisite: ITA 201 or equivalent. Continuation of ITA 201.

ITA 301 ITALIAN CONVERSATION AND COMPOSITION

3, 3/0; 1993-95 EH
Prerequisite: ITA 202 or equivalent. Practice in written and spoken Italian.

ITA 302 ITALIAN CONVERSATION AND COMPOSITION

3, 3/0; 1993-95 EH
Prerequisite: ITA 202 or equivalent. Practice in written and spoken Italian.

ITA 306 CONTEMPORARY ITALIAN CIVILIZATION

3, 3/0; F 94 EH
Prerequisite: None, if offered in English; if offered in Italian, the prerequisite is ITA 202 or equivalent. An examination of cultural, intellectual, and social developments in Italy past and present. To be offered in English or Italian as noted in master schedule. When offered in English, this course may not be applied to the ITA minor.

ITA 307 SURVEY OF ITALIAN LITERATURE

3, 3/0; F 94
Prerequisite: ITA 202 or equivalent. Readings and discussion of major works from the origins through the Cinquecento.

ITA 308 SURVEY OF ITALIAN LITERATURE

3, 3/0; Sp 95
Prerequisite: ITA 202 or equivalent. Readings and discussion of major works from the Seicento through the Ottocento.

ITA 401 DANTE'S DIVINA COMMEDIA

3, 3/0; F 93
Prerequisite: An upper-division Italian course or permission of instructor. Study of selected cantos as an introduction to Dante's work and times.

ITA 406 NINETEENTH-CENTURY ITALIAN LITERATURE

3, 3/0; F 93
Prerequisite: An upper-division Italian course or permission of instructor. Readings and discussions of representative works of poetry and novels.

ITA 410 MODERN ITALIAN LITERATURE

3, 3/0; Sp 94
Prerequisite: An upper-division Italian course or permission of instructor. Readings and discussions of representative novels and short stories of the twentieth century.

ITA 450
DIRECTED READINGS I

3, 3/0; Sp 94
Prerequisite: Permission of instructor. Variable topics.

ITA 451
DIRECTED READINGS II

3, 3/0; Sp 95
Prerequisite: Permission of instructor. Variable topics.

Latin

Offered by the Foreign Language Department
DR. JOSEPH V. NARDIELLO, Chairperson
Bishop Hall 122

LAT 101
ELEMENTARY LATIN

3, 3/0; F 93, 94 CH
Fundamentals of the Latin language with emphasis upon reading.

LAT 102
ELEMENTARY LATIN

3, 3/0; Sp 94, 95 CH
Prerequisite: LAT 101 or equivalent. Continuation of LAT 101.

LAT 201
INTERMEDIATE LATIN

3, 3/0; F 94 EH, upper level credit
Prerequisite: LAT 102 or equivalent. Further development of reading and writing ability, with continuing emphasis on the comprehension of the written language.

LAT 202
INTERMEDIATE LATIN

3, 3/0; Sp 95 EH, upper level credit
Prerequisite: LAT 201 or equivalent. Continuation of LAT 201.

See also: Classics

Polish

Offered by the Foreign Language Department
DR. JOSEPH V. NARDIELLO, Chairperson
Bishop Hall 122

POL 101
ELEMENTARY POLISH

3, 3/0; F 93, 94 CH
Fundamentals of Polish; speaking, reading, and writing.

POL 102
ELEMENTARY POLISH

3, 3/0; Sp 94, 95 CH
Prerequisite: POL 101 or equivalent. Continuation of POL 101.

Russian

Offered by the Foreign Language Department
DR. JOSEPH V. NARDIELLO, Chairperson
Bishop Hall 122

RUS 101
ELEMENTARY RUSSIAN

3, 3/0; F 93, 94 CH
Fundamentals of Russian: reading, speaking, and writing.

RUS 102
ELEMENTARY RUSSIAN

3, 3/0; Sp 94, 95 CH
Prerequisite: RUS 101 or equivalent. Continuation of RUS 101.

RUS 201
INTERMEDIATE RUSSIAN

3, 3/0; F 93, 94 EH, upper level credit
Prerequisite: RUS 102 or equivalent. Further development of the basic skills with emphasis upon reading and writing.

RUS 202
INTERMEDIATE RUSSIAN

3, 3/0; Sp 94, 95 EH, upper level credit
Prerequisite: RUS 201 or equivalent. Continuation of RUS 201.

Spanish

Offered by the Foreign Language Department
DR. JOSEPH V. NARDIELLO, Chairperson
Bishop Hall 122

SPA 101
ELEMENTARY SPANISH

3, 3/0; 1993-95 CH
Fundamentals of Spanish with emphasis on speaking and listening skills.

SPA 102
ELEMENTARY SPANISH

3, 3/0; 1993-95 CH
Prerequisite: SPA 101 or equivalent. Continuation of SPA 101.

SPA 201
INTERMEDIATE SPANISH

3, 3/0; 1993-95 EH, upper level credit
Prerequisite: SPA 102 or equivalent. Further

development of basic skills with increasing emphasis on reading and writing.

SPA 202
INTERMEDIATE SPANISH

3, 3/0; 1993-95 EH, upper level credit
Prerequisite: SPA 201 or equivalent. Continuation of SPA 201.

SPA 204
SPANISH FOR NATIVE SPEAKERS

3, 3/0; F 93, 94 EH
Prerequisite: Spanish for Spanish Speakers exam; contact E. Rosario, EOP, Ext. 4426 or 6029. An overview of the Spanish language and a study of Spanish grammar, lexicon, and sound system that will enhance bilingual students' effectiveness in oral and written communication in Spanish, especially in academic and formal style. Emphasis placed on spelling, sound system, mechanics, vocabulary, and reading. Student may not earn credit for both SPA 201 and SPA 204.

SPA 205
SPANISH FOR NATIVE SPEAKERS

3, 3/0; Sp 94, 95 EH
Prerequisite: Spanish for Spanish Speakers exam; contact E. Rosario, EOP, Ext. 4426 or 6029. An overview of the Spanish language and a study of Spanish grammar, lexicon, and sound system that will enhance bilingual students' effectiveness in oral and written communication in Spanish, especially in academic and formal style. Emphasis placed on oral expression, grammar, and composition, and differences between formal and informal language. Student may not earn credit for both SPA 202 and SPA 205.

SPA 301
SPANISH CONVERSATION AND COMPOSITION

3, 3/0; 1993-95 EH
Prerequisite: SPA 202 or equivalent. Practice in spoken and written Spanish with emphasis on the written language.

SPA 302
SPANISH CONVERSATION AND COMPOSITION

3, 3/0; 1993-95 EH
Prerequisite: SPA 202 or equivalent. Practice in spoken and written Spanish with emphasis on the spoken language.

SPA 305
SPANISH PHONETICS

3, 3/0; F 93, 94
Prerequisite: SPA 301-302 or equivalent. An analysis of the speech sounds of Spanish. A consideration of comprehension and pronunciation difficulties caused by differences in the sound systems of English and Spanish. Exercises aimed at improvement of pronunciation and intonation.

SPA 306
THE CIVILIZATION OF SPAIN

3, 3/0; F 94 EH
Prerequisite: SPA 301 or 302 or permission of instructor. A consideration of the culture of the Spanish people. A focus on their achievements, customs, and way of life as affected by geographic, historical, political, and economic factors.

SPA 307
SURVEY OF SPANISH LITERATURE

3, 3/0; F 94
Prerequisite: SPA 301 or 302 or permission of instructor. The Middle Ages through the Golden Age.

SPA 308
SURVEY OF SPANISH LITERATURE

3, 3/0; Sp 95
Prerequisite: SPA 301 or 302 or permission of instructor. The eighteenth century to the present.

SPA 309
THE CIVILIZATION OF LATIN AMERICA

3, 3/0; F 93 GEH
Prerequisite: When offered in Spanish, SPA 301 or 302 or permission of instructor. A consideration of the culture of the Latin American people. A focus on their achievements, customs, and way of life as affected by geographic, historical, political, and economic factors. When offered in English, this course may not be applied to Spanish major or minor programs.

SPA 310
SURVEY OF SPANISH-AMERICAN LITERATURE

3, 3/0; F 93
Prerequisite: SPA 301 or 302 or permission of instructor. The Colonial period through Romanticism.

SPA 311
SURVEY OF SPANISH-AMERICAN LITERATURE

3, 3/0; Sp 94
Prerequisite: SPA 301 or 302 or permission of instructor. Realism to the present.

SPA 317
BUSINESS SPANISH

3, 3/0; F 93
Prerequisite: SPA 301 or 302 or equivalent. An introduction to Spanish commercial language. Extensive practice in translating and composing Spanish business communiques.

SPA 405
OLD SPANISH

3, 3/0; Sp 94
Prerequisite: SPA 305 or permission of instructor. The development of Spanish from the Middle Ages to the 15th century, including study of the earliest documents in Spanish. Lectures, readings and student reports.

SPA 408
20th-CENTURY SPANISH LITERATURE: POETRY AND THEATER

3, 3/0; Sp 94
Prerequisite: SPA 308 or permission of instructor. A study in the appreciation, analysis, and criticism of the major trends in the development of Spanish poetry and theater of the twentieth century.

SPA 411
SPANISH-AMERICAN LITERATURE OF THE 19th AND 20th CENTURIES: NOVEL, SHORT STORY AND ESSAY

3, 3/0; F 94
Prerequisite: SPA 310, 311, or permission of instructor. Study of the major trends in these genres in the context of the cultural diversity of the hemisphere.

SPA 415
ADVANCED GRAMMAR AND COMPOSITION

3, 3/0; Sp 94, 95
Prerequisite: SPA 301-302 or permission of instructor. Elements of stylistics and selected grammar topics. Special attention given to common errors of English speakers.

SPA 496
SENIOR SEMINAR I

3, 3/0; F 93, 94
Prerequisite: Permission of instructor. Topic to be chosen by the instructor.

SPA 497
SENIOR SEMINAR II

3, 3/0; Sp 94, 95
Prerequisite: Permission of instructor. Topic to be chosen by the instructor.

Swahili

Offered by the Foreign Language Department
DR. JOSEPH V. NARDIELLO, Chairperson
Bishop Hall 122

SWA/AAS 101
ELEMENTARY SWAHILI

3, 3/0; F 93, 94 CH
A study of the fundamentals of Swahili with emphasis on the spoken language.

SWA/AAS 102
ELEMENTARY SWAHILI

3, 3/0; Sp 94, 95 CH
Prerequisite: SWA 101 (AAS 101) or permission of instructor. Continuation of SWA 101 (AAS 101), with emphasis on writing and reading.

SWA/AAS 201
INTERMEDIATE SWAHILI

3, 3/0; F 93, 94 EH, upper level credit

Prerequisite: SWA 102 (AAS 102), or permission of instructor. Further development of the basic skills, with emphasis on reading, writing, and casual conversation.

SWA/AAS 202
INTERMEDIATE SWAHILI

3, 3/0; Sp 94, 95 EH, upper level credit
Prerequisite: SWA 201 (AAS 201) or permission of instructor. Continuation of SWA 201 (AAS 201), with emphasis on casual and formal speaking as well as fast translation.

General Studies

Offered by the General Studies Interdisciplinary Unit
ROBERT J. STEPHEN, Coordinator
Twin Rise 100/878-5906

AEL 300W
ASSESSMENT OF EXPERIENTIAL LEARNING

3, 3/0; F 94, 95
Prerequisites: Permission of instructor. For matriculated students only. Designed for students who consider their previous learning experiences as college level creditable. Students will analyze those experiences which may qualify for college credit and prepare a portfolio to inventory college level learning gained through experience outside of college.

Geography

Offered by the Geography and Planning Department
ELBRIDGE A. RENNING JR., Chairperson
Classroom Building A 213

GEG 101
MAN'S NATURAL ENVIRONMENT

3, 3/0; 1993-95 CS
Nature of geography; earth-sun relationship; maps and map interpretation; and classification, distribution, and origins of the major elements of the natural environment: weather, climates, soils, natural vegetation, and landforms. *Required of geography majors and urban-regional analysis and planning majors.

GEG 102
MAN'S CULTURAL ENVIRONMENT

3, 3/0; 1993-95 GCS
Introduction to cultural geography and the cultural landscape. An examination of the distribution of value systems, ethnicity, religion, language, population, and politics as indices of human variety; an introduction to evolution of rural and urban socioeconomic patterns. *Required of geography majors.

**GEG 107
RESOURCES AND MAN**

3, 3/0; offered based on staff availability CS
A geographical analysis of man's use and misuse of natural resources; air, water, soils, vegetation, animal life, minerals, and energy sources. Problems are placed in a world context but emphasis is on the United States.

**GEG/SST/SOC 199
COMPUTER IN SOCIAL SCIENCE**

3, 3/0; F 93, 94
See description listed under SST 199.

**GEG 200
INTRODUCTION TO
REGIONAL GEOGRAPHY**

3, 3/0; offered based on staff availability GCS
An introduction to the geographic analysis of selected world regions. Emphasis is placed upon providing the student with an understanding of the regions' major natural environmental features (terrain, climate, natural vegetation, and soils) as well as how these features relate to and influence man's occupancy of each region.

**GEG 202
GEOGRAPHY OF THE UNITED STATES
AND CANADA**

3, 3/0; F 93, 94 ES
Analysis of the basic geographic elements of North America including the natural environment, natural resources, economic activities, population, and urbanization.

**GEG 203
GEOGRAPHY OF MIDDLE AMERICA**

3, 3/0; Sp 95 GCS
Physical, cultural, historical and regional geography of Mexico, Central America, and the West Indies; emphasis on man's relationship to the natural environment.

**GEG 205
GEOGRAPHY OF ASIA**

3, 3/0; offered based on staff availability GCS
Excludes the Soviet Union. Regional divisions; landform, climate, and natural resources; cultural and economic geography; social and political problems related to the natural environment; industrial development. *Open to sophomores, juniors, and seniors.

**GEG 206
GEOGRAPHY OF NEW YORK STATE**

3, 3/0; 1993-95 CS
Landforms, regions, climates, and natural resources; distribution of population; location and functions of the cities; development of transportation; utilization and conservation of soil, mineral, forest, wildlife, and water resources; industrial development.

**GEG 303
WORLD CLIMATOLOGY**

3, 3/0; Sp 94
Prerequisite: GEG 101. Discussion of world climatic regions. Fundamentals of climate classification systems. Classification, distribution, and comparative analysis of world climatic regions. *Required of Track 1 (physical geography/conservation) geography majors.

3, 3/0; F 94 ES
History of maps; types of maps; techniques of map interpretation; methods of developing map-reading skills.

**GEG 304
MAP INTERPRETATION**

3, 3/0; Sp 94, 95 ES
Prerequisite: Junior or senior and ECO 202. An introduction to the theoretical study of economic geography; utilizing the approach of location theory, the course develops a theoretical spatial distribution of economic activities, including: agriculture, manufacturing, urban land use, services, and transportation. *Required of urban-regional analysis and planning majors and geography majors.

**GEG 305
PRINCIPLES OF ECONOMIC
GEOGRAPHY**

3, 3/0; Sp 94, 95 GCS
Prerequisite: PLN 315; junior or senior. Analysis of the principles of land resource management with emphasis upon land use patterns, controls and policy. Attention is given to urban, suburban and rural land use situations. Required in the urban-regional planning track.

**GEG 307
CONSERVATION AND
ENVIRONMENTAL MANAGEMENT**

3, 3/0; 1993-95 CS
Spatial arrangement of land uses existing within the American city; differences of American cities of function, size and location; dynamics of change in city structures; central place theory and urban structures. *Required in the urban-regional planning track and of geography majors.

**GEG 309
INTRODUCTION TO URBAN
GEOGRAPHY**

3, 3/0; Sp 95
Geography of transportation introduces the comparative study of the modes of transportation, transportation planning and the benefits and effects of transportation, with special emphasis on application to urban transportation. It will study the importance of accessibility as a factor in the development of a modern metropolitan transportation system.

**GEG 310
GEOGRAPHY OF TRANSPORTATION**

3, 3/0; F 93 GCS
Prerequisite: Junior or senior. An introduction to the geography of Africa through a systematic discussion of selected prominent environmental and cultural characteristics of the continent and its people. Topics include the physical environment, historical development, population, and economic activities.

**GEG 313
AIR PHOTO INTERPRETATION**

3, 3/0; offered based on staff availability
Prerequisite: One of GEG 101, 102, GEG 101 or PLN 315. Techniques of aerial photography interpretation as applied to natural and man-made environments; technical aspects of obtaining and using aerial photographs and remote sensing.

3, 3/0; Sp 94 ES
The approach and methods of historical geography; exploration and discovery; regional variation of cultural landscapes; origin and dispersals of selected cultural traits.

**GEG 320
HISTORICAL GEOGRAPHY OF THE
UNITED STATES**

3, 3/0; offered based on staff availability GCS
Physiographic regions; landforms, climate, natural vegetation, soils, and drainage patterns; major economies and their relationship to the natural environment; problems resulting from changes in land use; interdependence of regions.

**GEG 322
GEOGRAPHY OF WORLD HUNGER**

3, 3/0; F 94
Prerequisite: PLN 315; junior or senior. Analysis of the principles of land resource management with emphasis upon land use patterns, controls and policy. Attention is given to urban, suburban and rural land use situations. Required in the urban-regional planning track.

**GEG 330
LAND RESOURCE ANALYSIS &
PLANNING**

3, 3/0; 1993-95 CS
Spatial arrangement of land uses existing within the American city; differences of American cities of function, size and location; dynamics of change in city structures; central place theory and urban structures. *Required in the urban-regional planning track and of geography majors.

**GEG 350
COMPARATIVE CANADIAN-U.S.
METROPOLITAN SYSTEMS**

3, 3/0; F 93 GCS
Prerequisite: Junior or senior. An introduction to the geography of Africa through a systematic discussion of selected prominent environmental and cultural characteristics of the continent and its people. Topics include the physical environment, historical development, population, and economic activities.

**GEG 351
GEOGRAPHY OF AFRICA**

3, 3/0; offered based on staff availability
Prerequisite: One of GEG 101, 102, GEG 101 or PLN 315. Techniques of aerial photography interpretation as applied to natural and man-made environments; technical aspects of obtaining and using aerial photographs and remote sensing.

**GEG 352
GEOGRAPHY OF EUROPE**

3, 3/0; offered based on staff availability GCS
Excludes the Soviet Union. Physiographic regions, landforms, climate, natural vegetation, soils, and drainage patterns; major economies and their relationships to the natural environment; interdependence of regions.

**GEG 353
GEOGRAPHY OF THE SOVIET UNION**

3, 3/0; summers only
Through lectures and walking tours, students gain firsthand exposure to geographic field work and analysis. Emphasis on impact of past landscapes on present land and relationship between economic, social and physical aspects of place.

**GEG 356
FIELD STUDIES IN BUFFALO AND
WESTERN NEW YORK**

3, 3/0; F 94
Prerequisite: PLN 315; junior or senior. Analysis of the principles of land resource management with emphasis upon land use patterns, controls and policy. Attention is given to urban, suburban and rural land use situations. Required in the urban-regional planning track.

**GEG 357
GEOGRAPHY OF BUFFALO AND THE
NIAGARA FRONTIER**

3, 3/0; Sp 94
Explores the people, problems, and interesting places of Buffalo and the Niagara Frontier. Emphasis on qualities of physical site and cultural situation. Studies the relationship of the urban Niagara Frontier with nearby urban areas in North America. A field trip experience is an integral part of the course.

**GEG 365
SOIL SCIENCE AND MANAGEMENT**

3, 3/0; F 93 ES
Prerequisite: Sophomore, junior or senior standing. An introduction to water resource planning in the United States. Emphasizes project management and planning processes utilized by federal water resources agencies. A field trip and group project are required.

**GEG 370
PRINCIPLES OF WATER RESOURCE
PLANNING**

3, 3/0; F 93 ES
Prerequisite: GEG 101 or permission of instructor. An introduction to the study of soils, including physical and chemical properties of soils; weathering and soil formation; productivity and management for agriculture; soil erosion and conservation; engineering properties of soils; soil classification. The course involves regular laboratory assignments and fieldwork to enhance understanding of soil properties.

**GEG 375
PRINCIPLES OF HYDROLOGY**

3, 3/0; F 93

Prerequisite: GEG 370 or permission of instructor. A course on the principles in hydrology and its relationship with water resources management. Emphasis is placed on describing the processes governing surface and groundwater movement. A field trip will provide an example of the practical application of hydrologic principles.

**GEG/ECO 411
REGIONAL AND ECONOMIC ANALYSIS**

3, 3/0; offered based on staff availability
See description listed under ECO 411.

**GEG 413
CARTOGRAPHY**

3, 3/0; Sp 94
Drafting set and tools required.
Prerequisite: GEG 101. History of cartography, use of drafting materials; the study and construction of map projections and cartograms; principles of map reproduction. *Required of geography majors.

**GEG 415
PROSEMINAR**

3, 3/0; offered based on staff availability
Prerequisite: Permission of instructor. One seminar, appropriate to the major's track, is required of Track 1 (physical geography/conservation) geography majors. Investigation, examination, and discussion of topics of current interest in geography. Techniques and analysis of geographic research.

**GEG 420/ECO 420
ECONOMIC EVALUATION OF WATER
RESOURCES**

3, 3/0; offered based on staff availability
Prerequisite: PLN 315 and ECO 202. An examination of the process, procedures and regulations affecting the evaluation of water resources projects as practiced by water resource planning and development agencies of the U.S. government. Emphasis will be placed upon the benefit-cost methodology.

**GEG 425
COMPUTER MAPPING AND
GEOGRAPHIC INFORMATION SYSTEMS**

3, 3/0; F 94
Prerequisite: GEG 199 or equivalent. An examination of the uses of computer mapping and geographic information systems (GIS) in geography, planning and related fields; preparation and presentation of studies for mainframe and personal computer systems; the creation and application of GIS. A project will be an integral part of this course.

**GEG/PLN 430
SEMINAR IN GEOGRAPHY AND PLANNING APPLICATIONS**

3, 3/0; Sp 94, 95
Prerequisite: Open only to senior geography and planning majors. Seminar to do research in geography or planning and presentation of selected research-related topics by the department faculty. Required of geography majors and urban-regional analysis and planning majors.

**GEG 495
PROJECT****GEG 499
INDEPENDENT STUDY**

Health, Physical Education, and Recreation

Offered by the Health, Physical Education and Recreation Department
DR. DONALD E. BARR, Chairperson
Houston Gym 205

Also see Recreation listings.

**PHYSICAL EDUCATION REQUIREMENT
HPR 100 Series**

The College requires the completion of two credits in physical education. This requirement can be met in any of the following three ways: (1) completion of two one credit HPR 100 level courses (except HPR 199 CPR); (2) completion of HPR 200; or (3) completion of one HPR 100 level course (except HPR 199) and HPR 215 Wellness Concepts. Each 100 level course meets the equivalent of two hours per week for one credit, includes instruction in theoretical aspects, involves written and skill evaluation, and are generally offered every semester except for II levels.

Those courses designated with "I" are for students with limited previous experience. Those designated "II" require previous experience in the form of a semester course or permission of instructor.

When HPR 200 (2 credits) is used to fulfill the physical education requirement, only this one course is needed.

Health science and other HPR 200 (except HPR 215), 300, and 400 level courses do not satisfy the above physical education requirement.

Students may elect up to four additional HPR 100 series courses for graduation credit.

HPR 100 Special Project

Limited selection for certain movement, exercise, and sport experiences not included in the HPR 100 level offerings. Necessary form must be completed and chairperson's approval must be secured. Forms are available in the HPER office.

Individual Activities

- 100 Special Project
- 101 Individual Physical Education
- 102 Archery
- 106 Bowling
- 110 Golf
- 114 Jogging

- 124 Skiing I (slopes) (Fee)
 125 Skiing II (slopes) (Fee)
 180 Physical Fitness for Women
 198 Strength Fitness

Dual/Team Sports

- 136 Badminton I
 137 Badminton II
 140 Fencing I
 141 Fencing II
 144 Tennis
 148 Volleyball I
 149 Volleyball II
 182 Racquetball (women)
 192 Fencing - Sabre & Epée
 196 Racquetball (men)

Aquatics

- 151 Swimming — Nonswimmers
 152 Swimming — Beginners
 153 Swimming — Intermediate
 154 Fitness Through Swimming
 155 Basic and Emergency Water Safety
 156 Basic SCUBA Diving (Fee)
 Prerequisite: see instructor
 157 Assistant SCUBA Instructor (Fee)
 Prerequisite: see instructor
 158 Lifeguarding
 Prerequisite: see instructor

Dance

- 160 Aerobic Movement
 162 Social Dance
 164 Folk Dance I
 165 Folk Dance II
 166 Jazz Dance I
 167 Jazz Dance II
 168 Tap Dance
 170 Modern Dance I
 171 Modern Dance II

**HPR 200
FITNESS FOR LIVING**

2, 2/0

A series of lecture/discussion sessions, laboratory experiences and specific movement experiences presenting the HOW, WHAT and WHY of physical activity and exercise. Fulfills the two-credit physical education requirement.

**HPR 215
WELLNESS CONCEPTS**

1, 1/0

Prerequisite: The student *must* be enrolled in an HPR 100 series course (except HPR 199) during the same semester he/she registers for this course. An introduction to wellness concepts including the study of factors in healthy lifestyle and basic concepts of exercise, nutrition, weight management, stress control, and lifestyle change. Students will develop an action plan for lifetime wellness. This course fulfills one credit of the two credit physical education requirement.

A course may not be repeated for credit. Students may challenge HPR 102, 106, 155 by applying to HPER Department by the second week of the semester, and following the assigned reading, knowledge test, and performance test procedure as scheduled.

ELECTIVE & PROFESSIONAL COURSES**HPR 199
CARDIOPULMONARY RESUSCITATION
(C.P.R.)**

1, 1/0; offered based on staff availability

To provide respiratory and cardiac emergency response training to recreation, education, and public safety professionals. This course will serve as a foundation for further training in life-guarding, first aid, and athletic training. This course does *not* partially meet the physical education requirement.

**HPR 201
TECHNIQUES AND THEORIES OF
COACHING SPECIALTY SPORTS**

3, 3/0; offered based on staff availability

A combination of a lecture/discussion analysis of athletic coaching, and a supervised independent study of the requirements for coaching an approved specialty sport.

**HPR 202
TECHNIQUES AND THEORIES OF
SOCCER**

3, 3/0; offered based on staff availability

A complete analysis of the sport of soccer with particular emphasis on history, present status, rules, techniques, and theories.

**HPR 203
TECHNIQUES AND THEORIES OF
FOOTBALL**

3, 3/0; offered based on staff availability

A complete analysis of the sport of football with particular emphasis on history, present status, rules, techniques, and theories.

**HPR 204
TECHNIQUES AND THEORIES OF
TRACK AND FIELD**

3, 3/0; offered based on staff availability

A complete analysis of the sport of track and field with particular emphasis on history, present status, rules, techniques, and theories.

**HPR 207
TECHNIQUES AND THEORIES OF
BASEBALL/SOFTBALL**

3, 3/0; offered based on staff availability

A complete analysis of the sport of baseball with particular emphasis on history, present status, rules, techniques, and theories.

**HPR 208
TECHNIQUES AND THEORIES OF
SWIMMING**

3, 3/0; offered based on staff availability

A complete analysis of the sport of swimming with particular emphasis on history, present status, rules, techniques, and theories.

**HPR 209
TECHNIQUES AND THEORIES OF
BASKETBALL**

3, 3/0; Sp 94, 95

A complete analysis of the sport of basketball with particular emphasis on history, present status, rules, techniques, and theories.

**HPR 210
WATER SAFETY INSTRUCTION**

3, 3/0 (2 cl. in pool); Sp 94, 95

Prerequisite: HPR 155 or current lifeguarding card. A course in the knowledge and techniques of aquatic instruction, principles of site selection, class organization, teaching progressions, drill, and skill instruction. Successful completion would lead to certification by the American Red Cross in water safety instruction. *Students may challenge HPR 210 by applying to HPER Department by the announced date each semester, and following the assigned reading and knowledge test procedure as scheduled.

**HPR 250
INTRODUCTION TO HUMAN
MOVEMENT**

3, 3/0; offered based on staff availability

CS Critical orientation to the discipline of physical education, philosophical and historical perspectives; psychological, sociological, physiological foundations.

**HPR 300
ATHLETICS IN EDUCATION**

3, 3/0; Sp 94, 95 CS

Prerequisite: Sophomore. A study of the philosophy and principles of athletics in education. A required course for students choosing either to meet minimal state standards for the coaching requirement or to concentrate in a selected area of coaching.

**HPR 301
FUNDAMENTALS OF KINESIOLOGY**

3, 3/0; F 91, 92

Prerequisite: — Majors: BIO 313 — Non-majors: Sophomore. Study of selected anatomical, physiological, and mechanical principles of movement and their application to human motion.

**HPR 302
EXERCISE PRINCIPLES AND
TECHNIQUES**

3, 3/0; Sp 94, 95

Prerequisite: HSC 204, BIO 313. Practical application of knowledge gained through general anatomy, physiology, and biomechanics. Covers principles and techniques related to fitness, metabolism and weight control, exercise, and training.

**HPR 303
PLANNING, MANAGEMENT AND
EVALUATION OF HEALTH/WELLNESS
FACILITIES**

3, 3/0; offered based on staff availability

Prerequisite: Junior standing. A course in the recent trends in construction, evaluation, and maintenance of health related facilities, such as gymnasias, swimming pools, outdoor play areas, weight training rooms, testing labs, etc. The criteria for selection and supervision of staff as well as necessary equipment purchase/maintenance, plus the legal aspects of health related facilities will be studied.

**HPR 307
EXERCISE FITNESS AND NUTRITION**

3, 3/0; offered based on staff availability

Prerequisite: HPR 302. This course will integrate basic concepts of relevant up-to-date scientific information related to the physiology of exercise. Exercise performance is related to one's capacity to generate energy, this capacity is related to food nutrients consumed in the diet and the metabolic and physiologic system of energy delivery and energy utilization.

**HPR 311
GAMES FOR SCHOOL AND
PLAYGROUND**

3, 3/0; offered based on staff availability

Participation in, analysis and recording of, a variety and progression of games, skill activities and sports lead-ups suitable for "play" situation in the home, school, and community setting.

**HPR 319/SOC 324
SOCIOLOGY OF SPORT**

3, 3/0; Sp 94, 95 ES

Prerequisite: SOC 100. The study of sport and related social phenomena of social statuses, norms, goals, values, and organizational network.

**HPR 325
PHYSICAL EDUCATION FOR
CHILDREN**

3, 4/0; offered based on staff availability

Prerequisite: Upperclass. Lecture and laboratory experiences stressing development of the child through physical education activities.

**HPR 335
PREVENTION AND CARE
OF ATHLETIC INJURIES**

3, 3/0; offered based on staff availability

Prerequisite: HPR 301 or permission of instructor. The study of the relationship between conditioning, performance and injury prevention. Includes techniques and programs of body conditioning for specific sports, as well as the possible treatment of athletic injuries.

**HPR 345
WELLNESS, FITNESS, AND AGING**

3, 3/0; Sp 94, 95 ES

Prerequisite: Junior. Designed to acquaint students of gerontology with the implications of exercise and physical fitness for the quality of life of older citizens. The course deals with the aging process and its relationship to physiological factors associated with exercise and fitness, differences in capacities for exercise, principles for guiding the selection, programming, and supervision of activities.

**HPR 401
ASSESSMENT AND EVALUATION IN
HEALTH WELLNESS**

3, 3/0; F 94, 95

Prerequisite: HPR 301, HPR 302. This course is designed to introduce concepts surrounding various aspects of fitness, assessment, and evaluation.

tion. Topics covered will include cardiovascular fitness, flexibility, muscular strength, and endurance. The course will also incorporate assessment and evaluation techniques in muscular imbalance related to posture, proper nutritional guidelines, and identification and coping techniques for stress.

**HPR 411
CRITICAL ISSUES IN HEALTH AND
WELLNESS**

3, 3/0; Sp 94, 95

Prerequisite: HPR 401 and senior standing. This course is a study of one's interaction with his/her many environments and the implications of this interaction for health behaviors. Emphasis is on current facts and attitudes important in confronting critical health issues.

**HPR 412
HEALTH/WELLNESS PROGRAMS**

3, 3/0; F 94, 95

Prerequisite: HPR 401 and senior standing. This course will provide the student an opportunity to utilize health/wellness concepts. The course covers general principles used in the development of health promotion programs. The specific procedures involved in a fitness profile analysis are presented as a vital step in any wellness program. The course incorporates guidelines for implementing physical fitness and nutrition and weight control programs. Procedures for stress management and smoking cessation programs are also presented. The student will utilize the principles presented in class during practical health planning experiences.

**HPR 488
INTERNSHIP**

Credit hours vary; offered based on staff availability

Prerequisite: Junior or senior standing and permission of the faculty. Additional prerequisites are established in selected areas of health, physical education, recreation, and athletics. They are available in the HPER Department upon request. Designed to provide for the integration of theoretical knowledge with practical field experience in related areas of Health, Wellness, Physical Education, Recreation, and Athletics.

**HPR 495
PROJECT****HPR 499
INDEPENDENT STUDY****Health
Sciences**

Offered by the Health, Physical Education and Recreation Department
 DR. DONALD E. BARR, Chairperson
 Houston Gym 205

**HSC 204
PERSONAL AND COMMUNITY HEALTH**

3, 3/0; 1994-96 CS

Develop a deeper understanding of the many problems and advances in medicine and public health as they affect the student's own personal health status and that of the individual, family, school, and community.

**HSC 310
ADVANCED FIRST AID AND
EMERGENCY CARE**

3, 3/0; Sp 94, 95

Prerequisite: BIO 311 or permission of instructor. This course is designed to promote Advanced First Aid training and competencies in various areas of emergency medicine including bandaging, splinting, victim examination and emergency childbirth. American Red Cross certification in Advanced First Aid and Cardiopulmonary Resuscitation will be awarded upon successful completion of the course.

**HSC 320
PSYCHOACTIVE DRUGS AND HEALTH**

3, 3/0; 1994-95 ES

Prerequisite: Sophomore standing. Emphasis is placed upon development of an understanding of the widespread effects of abusive use of drugs, their relationship to health and disease, and the implication and application for education and theory. *Students may challenge HSC 320 by applying to HPER Department by the announced date each semester and following the assigned reading and knowledge test procedure as scheduled.

**HSC 425
ALCOHOL PROBLEMS**

3, 3/0; offered based on staff availability

Prerequisite: Upperclass. A seminar designed for students as prospective citizens, teachers, supervisors, and voluntary governmental personnel concerned with individual and community health problems. Emphasis placed upon development of an understanding of the widespread effects of alcohol, its relationship to health and disease, and the implication for health and therapy.

**HSC 495
PROJECT****HSC 499
INDEPENDENT STUDY**

History

Offered by the History and Social Studies Education Department
DR. MONROE FORDHAM, Chairperson
Classroom Building C205

HIS 101 UNITED STATES IN THE TWENTIETH CENTURY

3, 3/0; 1993-95 CS

Political reform and reaction; isolationism, interventionism, and internationalism in foreign relations; big government, industry, and labor; revolution in foreign policy, national security in the nuclear age; social and intellectual ferment in a pluralistic society. Students may take either HIS 101 or HIS 107 but not both. They will only receive credit for one of these courses.

HIS 106 HISTORY OF AMERICAN LIFE I

3, 3/0; 1993-95 CS

Exploration and colonization; the meeting of cultures; Colonial America; prologue to independence; independence and the new nations; Jeffersonian Republicanism; nationalism and economic expansion; Jacksonian Democracy; religion and reform; expansion and sectional crisis; American life and culture in the mid-Nineteenth Century; a decade of crisis; the Civil War; aftermath of the war.

HIS 107 HISTORY OF AMERICAN LIFE II

3, 3/0; 1993-95 CS

The New South; reunion and readjustment; the end of the old frontier; the economic revolution; the urban society; American politics in the gilded age; America's emergence as a world power; the progressive era; World War I and its aftermath; abandonment of isolation; World War II; the cold war; the Eisenhower years; America since 1960. Students may take either HIS 101 or HIS 107 but not both. They will only receive credit for one of these courses.

HIS 110 HISTORY AND IDEAS

3, 3/0; offered based on staff availability

Topics and problems in history developed in an historical frame of reference with course attention devoted to methods and techniques of historical analysis articulating and writing critiques; class discussion and interaction.

HIS 115 FOUNDATIONS OF WESTERN CIVILIZATION

3, 3/0; 1993-95 CS

Major contributions of the Greek, Roman, and Medieval civilizations to the creation of our western heritage in philosophy, art, literature, science, political structure, economy and law.

HIS 116 EUROPE SINCE 1500

3, 3/0; 1993-95 CS

Growing concern of man and his relation to his world; development of nationalism, the concepts of freedom and democracy; increasing attention to the spirit of inquiry; scientific development and technology and their impact on society; the formulation of fascism, communism, socialism and the concern for political ideology.

HIS 117 TWENTIETH CENTURY EUROPE

3, 3/0; 1993-95 CS

Political, social, cultural, and intellectual history of twentieth-century Europe; factors contributing to World War I; the Versailles Settlement, the Russian Revolution and the rise of communism; collapse of collective security and the rise of fascism and national socialism; the western democracies between the wars; the road to World War II; restoration of the Atlantic Community, and the challenge of the nuclear age.

HIS 121 INTRODUCTION TO JEWISH HISTORY

3, 3/0; ES

The ancient Near East; the Bible as history; Moses and the prophets; daily life in Bible times; Jesus and the rise of Pauline Christianity; the fall of the Jewish state; Jews in exile.

HIS 155 WORLD WAR II

3, 3/0; Sp 94, 95 GES

Delineates the factors which led to the outbreak of the war; the conduct of the war from its continental phase through its spread to global dimensions. Campaigns, theaters of operations as well as the process of decision-making by both Allied and Axis Powers constitute the substance of the course.

HIS 201 THE AGE OF DISCOVERY

3, 3/0; Sp 94, 95 ES

Classical and Medieval background of the Age of Discovery; myth and reality of cosmography at the beginning of the Great Age of Discovery; early travellers; technological innovation; economic, social, and cultural forces supporting discovery and exploration; Portuguese, Spanish, French, and English voyages; impact of discovery on economic, literary, artistic, and cultural conditions; New World on the eve of period of colonization.

HIS 206 A HISTORY OF POLAND

3, 3/0; F 93, 94 ES

An examination of major Polish historical and cultural achievements through the ages; the growth and development of the nation and state; scientific, cultural and religious forces in Polish life.

HIS 207 IMPERIAL SPAIN

3, 3/0

Ferdinand and Isabella unify Spain; rise of the Spanish empire; Columbus, Cortes and the conquest of Spanish America; Charles V and Spain's domination of Europe; the Spanish colonial system in America; the problems of Philip II; war with England; revolt in the Netherlands; decline of Spain under the later Hapsburgs; reform and revolution in the 18th century. Spanish America's wars for independence.

HIS 208 HISTORY OF ENGLAND SINCE 1485

3, 3/0; ES

Rise and transition of representative, parliamentary government; commercial and industrial development; social, intellectual, and economic trends manifested through literature, art, the press, and other social agencies; transition from empire to commonwealth of nations; impact abroad of such concepts as mercantilism, laissez-faire, classical economics, and collectivism.

HIS 210 HISTORY OF MODERN ASIA

3, 3/0; 1993-95 GCS

China, Japan, and Southeast Asia in modern times; rise of nationalism, internal social and political conflict, response to western powers; impact of ideology and totalitarianism; industry and technology and the problems of international wars.

HIS 211 HISTORY OF MODERN AFRICA SINCE 1919

3, 3/0; F 93, 94 GCS

Partition of Africa by European nations; impact of colonial regimes; African resistance movements; drive toward independence; problems of economic and social change; cultural and intellectual currents in Modern Africa.

HIS 212 HISTORY OF THE JEWS IN EUROPE

3, 3/0; ES

A history of European Jews from 70 A.D. to the end of the nineteenth century. Considers Jewish communities in Roman and Byzantine Empires, in Reconquest Spain and feudal Europe, and during the Renaissance, Enlightenment and post-Napoleonic periods. Analyzes patterns of religious intolerance in European history.

HIS 213 HISTORY OF CITIES

3, 3/0

Cities and their development, the making of cities in a historical context, the geo-political impetus to development of cities as well as the historical economic necessities in a developing society; case examples of city development include the developing politics, the social structure, the relationship to environment, the impact of structure and location on attitudes, problems unique and general in modern cities.

HIS 215 HISTORY OF CHRISTIAN THOUGHT

3, 3/0; F 93 ES

An analysis of classic and current Catholic, Orthodox, Anglican and Protestant explanations of major Christian ideas. Such concepts as the nature of revelation; the nature of man; evil; authority; historicity and eschatology; and worship.

HIS 220 CLASSICAL GREECE AND ROME

3, 3/0; Sp 94 ES

An examination of the development of Greece, the western Hellenistic world and the Roman Empire with emphasis on cities, economic development, technology, social change, and ideas.

HIS 222 THE AMERICAN REVOLUTION

3, 3/0; ES

Historiographical approaches to the American Revolution; ideological origins of revolutionary America; the British Empire and the growth of American discontent after 1760; a decade of crisis, 1765-1775; America's war for independence, 1775-1783; the revolution's impact on American society; revolutionary politics, 1775-1787.

HIS 260 THE TURBULENT SIXTIES

3, 3/0; ES

Overview from the end of World War II (1945-1960); incisive political, economic, social, cultural and diplomatic analysis of the years 1960-1974. Topics covered include: the Black Revolution, Martin Luther King, Malcolm X and others; John F. Kennedy, the New Frontier, the Cuban Crisis, Berlin Wall, assassination; the Vietnam War; the Johnson administration; student protests, university take-overs and the commune movement; the Nixon administration, Watergate, the President's resignation; the oil crisis and the recession of 1974.

HIS 301 COUNTER CULTURE/UTOPIAS

3, 3/0; ES

The idea of utopian societies; the utopian communities; leaders and followers; relation of idealism to economic, social, political, and religious conditions; the phenomenon of modern commune development in the United States; young people and counterculture.

HIS 302 HISTORY OF WOMEN IN AMERICA

3, 3/0; F 93, 94 DES

The impact of women on American development from colonial time to the present; effects of history on the roles and status of women; changes in women's role in the family, economic contributions, legal status, struggle for equal rights; women and demographic changes; developing perceptions of women about society; political growth and women; our society's regard for women in an historical context; and the differences and/or similarities between women from various ethnic, racial, religious and socio-economic groups.

ious ethnic, racial, religious and socio-economic groups.

HIS 303 THE CITY IN AMERICAN HISTORY

3, 3/0

Topics covered include: historical background; colonial period; formation of a new nation; towns in westward expansion; industrialization; political machines; municipal reform; the city in American thought; twentieth century developments; the contemporary scene.

HIS 304 EUROPE FROM NAPOLEON TO THE FIRST WORLD WAR

3, 3/0; F 93 ES

Major influences in nineteenth-century Europe; nationalism, imperialism, Industrial Revolution, democracy, and socialism; causes of World War I.

HIS 305 SEX AND GENDER IN HISTORY

3, 3/0; ES

Prerequisite: Junior or permission of instructor. An examination of the background and sources of some of the major sex and gender issues of our own day. Topics to be analyzed include the influence of historical and cultural factors on attitudes, changing understanding of the nature of sexuality in the western world, influence of religion in moderating change, effect of disease in forming attitudes, and the development of the concepts of deviance, stigmatized behavior, and gender dysphoria.

HIS 306 HISTORY OF AFRICA TO 1919

3, 3/0; GES

Prerequisite: HIS 115 or permission of instructor. Indigenous developments and early empires of Africa; the impact of Islam; Western contact and the slave trade; the development of European colonialisms; the partition of Africa and colonial administrative policies of the European powers; the wanings of European power as a result of World War I.

HIS 308 HISTORY OF CANADA

3, 3/0; Sp 94, 95 ES

The establishment of France and England in Canada; the impact of national developments in the United States and the status of Canada; the social, ethnic, cultural, economic, and political growth of Canada; the significance of French Quebec in Canadian development; Canada's unique experience with democracy and nationalism under the influence of England, France, and the United States.

HIS 309 AMERICAN LEADERS

3, 3/0; Sp 94, 95

A study of selected leaders in critical periods or areas of American civilization, such as: Benjamin Franklin and revolutionary America;

John Marshall and federal power; Booker T. Washington and W. E. DuBois — contrasting Negro leaders; Lincoln Steffens and the muck-rakers; Henry Ford and mass production.

HIS 310 HISTORY OF THE FAR EAST: THE TRADITIONAL ERA

3, 3/0; F 93, 94 ES

Prerequisite: Junior or senior. China, Korea, and Japan before the coming of the West; traditional cultures, geography, political and religious institutions; impact of western ideas and colonialism.

HIS 311 AMERICAN IMMIGRATION AND EMIGRATION

3, 3/0; Offered based on staff availability

From colonial times to the present; American immigration policies; the people who came and who left the U.S.; the process of assimilation; problems of immigration and emigration.

HIS 312 HISTORY OF ITALY

3, 3/0

Italy after the barbarian invasions; the Empire and the Papacy; formation of Italian city states; Renaissance society and cultures; problems of Italian unification; Italian parliamentary democracy; the Fascist experiment; Republican Italy.

HIS 313/PSC 345 POLITICS AND HISTORY IN THE MIDDLE EAST

3, 3/0; offered based on staff availability CS

Analysis of political culture and geographic settings; historical development since the French invasion of Egypt; the disintegration of the Ottoman Empire and the rise of Western colonialism; nationalist movements, independence, and turmoil; the post-World War II political evolution, diversity and problems; emphasis upon the region's key industries.

HIS 314 MODERN LATIN AMERICA

3, 3/0; F 93, 94 GCS

Prerequisite: HIS 207 or permission of instructor. Movements for independence; early political apprenticeship; age of dictators; nationalism and national development; Hispanic-American interrelations; growth of inter-American system; Latin America in world politics; revolution of rising expectations, guerrilla movements, turmoil in Central America; contemporary problems.

HIS 317 HISTORY OF RUSSIA TO 1917

3, 3/0 ES

Prerequisite: Junior or senior. Social, political, and economic history of Russia from the Varangians state to the October 1917 Revolution; effects of geographic location; the Mongol conquest; retarded reorientation toward the West in the eighteenth and nineteenth centuries; partici-

pation in world politics, expansion in Europe and in the East, participation in World War I.

HIS 318 HISTORY OF THE SOVIET UNION

3, 3/0; F 93, 94 ES

Economic and historical forces behind the Communist Revolution of 1917; the governmental system and its political, social, and economic theories; the evolving economic system; Soviet foreign policy, impact of the Revolution and World War II; the church, the educational system, and other cultural developments.

HIS 319 COLONIAL HISTORY OF THE AMERICAN PEOPLE

3, 3/0; ES

Prerequisite: Junior or senior. Establishment and development of English, Spanish, French, Dutch, and Swedish colonies in North America; American Revolutionary period, colonial influence on early culture and institutions of the United States; subsequent contributions to the American heritage.

HIS 320 MODERN HISTORY OF JAPAN AND KOREA

3, 3/0; F 93 GES

History of Japan and Korea in the twentieth century; the rise of Japan as a modern nation; the rise and fall of the Japanese empire; Japan under new democracy; Korea under Japanese control; the liberation and division of Korea; the problem of reunification of Korea.

HIS 321 HISTORY OF MEDIEVAL EUROPE

3, 3/0; F 93, Sp 94 ES

Prerequisite: HIS 115 or permission of instructor. Transition from Graeco-Roman to Medieval civilization. Islam, Charlemagne and Feudal Europe; Crusades; cultural, economic, and political revival of the twelfth-century Medieval Church and Papacy; Medieval intellectual syntheses; rise of monarchies, decline of Papacy; decline of Medieval civilization.

HIS 322 AFRO-AMERICAN HISTORY

3, 3/0; 1993-95 DCS

Heritage of Black Americans; Afro-Americans existence under slavery; their role in influencing historical events; activity in the Civil War period; the freed men during reconstruction; migration to the north and adjustment to urban life; Afro-American leaders, institutions, ideas and their impact on modern America.

HIS 324 AMERICAN PRESIDENTS

3, 3/0; Sp 94, 95

Prerequisite: HIS 106 or HIS 107. A biographical approach to the study of the presidency from Washington to the current era. An examination of the background to and evolution of that office, and the roles that the best and worst presidents played in shaping its powers.

HIS 325 U.S. BUSINESS HISTORY

3, 3/0; Sp 94, 95 ES

The history of U.S. business and its societal and cultural contexts. Businessmen within mercantilism; merchants and craftsmen in the early republic; business and governmental action in the North and South; industrialization; rise of corporations and anti-trust; business, government, and science; managerial style; advertising; the multinational; Rust Belt and Sun Belt; high tech society.

HIS 330 U.S. ENVIRONMENTAL HISTORY

3, 3/0; F 93, 94 ES

The impact of Americans on their natural environment, and the influence of this natural and a developing social environment on Americans in the past. Aborigines and the earliest settlers; establishment of patterns and institutions; preservationists vs. conservationists, 1860-1940; the modern environmental movement, 1940-present.

HIS 331 AMERICAN WESTWARD EXPANSION

3, 3/0

Prerequisite: HIS 106 or junior. An examination of the gradual westward migration of Americans; their patterns of migration and settlement; the natural environment and peoples they encountered; and the influence of the frontier on the development of American institutions, thought and the American personality.

HIS 332 TECHNOLOGY AND U.S. HISTORY

3, 3/0; Sp 94 ES

Interaction of U.S. society with technology in the past, concentrating on the last 200 years. Background of western technology; the agricultural revolution; industrial technology; technology and culture, labor, the home, medicine, the government; post-industrial technology.

HIS 334 MODERN IRELAND SINCE 1800

3, 3/0; ES

Prerequisite: Junior or permission of instructor. An examination of the major factors that shaped Irish history in the nineteenth and twentieth centuries. Topics to be analyzed are the impact of the Union with Britain; the struggle for Catholic emancipation; the Great Famine and its aftermath; revolutionary movements like Young Ireland, the Fenians and Sinn Fein; the cultural revival and religion in Victorian Ireland. Also the question of Home rule and independence; the growth of the Free State and the establishment of the northern Ireland state; Ireland in World War II and the emergence of contemporary Ireland in the context of the European Economic Community.

HIS 335 HISTORY OF MEXICO

3, 3/0

Prerequisite: Junior or senior. Pre-Columbian Indian cultures; Spanish conquest of Mexico;

Spanish colonial administration in the Viceroyalty of New Spain; the Enlightenment and Mexican independence; Early National Period; the Mexican Revolution of 1910; Mexico today.

HIS 340 GEOGRAPHY AND PLANNING HISTORICAL-URBAN ANALYSIS OF THE BUFFALO METROPOLITAN AREA

3, 3/0; offered based on availability of staff in coordination with Geography and Planning Department.

An introductory course on the nature of the city, its growth and dynamics of urban development, the enduring impact of its historical past in relation to its geographical presence; a case study of Buffalo.

HIS 341 AFRO-AMERICANS AND CIVIL RIGHTS

3, 3/0; Sp 94, 95 DES

A history of the landmark court decisions, laws, and governmental policies in the area of the civil rights of Afro-Americans. The course will examine some of the historic relationship between race, racism, law, and public policy in America. The course will also focus on resistance, protest, and the quest for equality in America.

HIS 342 ENGLISH LEGAL HISTORY

3, 3/0; F 93 ES

Prerequisite: HIS 116. Origins of English law to 1066; growth of medieval common law; common law and its rivals in sixteenth and seventeenth centuries; consolidation and reform of law and courts; relation of law and equity; criminal and civil jurisdiction and procedure; the legal profession; changing legal concepts and the modern state.

HIS 343 INTRODUCTION TO AMERICAN LEGAL HISTORY

3, 3/0; F 94 ES

Prerequisite: HIS 342 or permission of instructor. Origins of ideas of law; English background of American law; colonial legal history — Puritanism, law and social goals, revolution; criminal and civil jurisdiction and procedure; 19th-century codification movements, legal profession, social changes and the law.

HIS 344 HISTORY OF AMERICAN CAPITALISM

3, 3/0; Sp 95 ES

Conservative reaction to reconstruction, decline of the presidency, the triumph of capitalism and industry, populist protest, the end of westward movement, socialization of immigrants, progressive impulse and leadership, rural vs. urban conflict, the U.S. and the race for empire; and the role of America in World War I.

HIS 345 HISTORY OF THE UNITED STATES SINCE 1941

3, 3/0; F 93, 95 ES

Prerequisite: HIS 101 or 107. Political, diplo-

matic, social, and cultural history of contemporary America; World War II and the advent of the Nuclear Age; the Cold War and the policy of Containment; the Korean War, McCarthyism and Domestic Reform; the New Frontier and the Great Society; Civil Rights, civil disobedience and the Greening America; War and Peace in Southeast Asia; Watergate and the Travail of Liberalism.

HIS 350 LEFT AND RIGHT IN EUROPEAN HISTORY

3, 3/0; F 93, 94 ES

Prerequisite: Junior standing. The evolution of Marxist, anarchist, state socialist and right radical ideologies in European thought and politics.

HIS 351 MODERN FRANCE

3, 3/0; ES

Selected problems in French political, social, economic and diplomatic history emphasizing historiography and interpretation of such periods as the restored monarch, the revolutions of 1848, the Second Empire, the Third Republic and its successors.

HIS 354 THE SPANISH CARIBBEAN

3, 3/0

Prerequisite: HIS 207 or permission of instructor. Spanish colonization of the Caribbean; pirates and the foreign threat; race relations and the development of colonial society; Cuba rebels against Spain; the Spanish-American War; Cuba and the United States; Castro's revolution; Puerto Rico under U.S. rule; rise of Puerto Rican nationalism; Puerto Rico today.

HIS 360 GERMANY AND HITLER

3, 3/0; 1993-95 ES

Political, cultural and social developments since the Reformation; Prussian kings and German emperors; nationalism and unification; Hitler's Austria; World War I; the challenge of democracy; the Nazi dictatorship; World War II; Germany after Hitler.

HIS 365 AMERICAN LABOR HISTORY

3, 3/0; Sp 94, 95 ES

Prerequisite: HIS 107. Readings and bibliography on the role of workers in American life; slaves; indentured servants, wage-earners and craftsmen. The rise of organized labor from colonial times; the history of the Knights of Labor, the American Federation of Labor, the Congress of Industrial Organizations and independent unions, with related issues of immigration, radicalism and political action, contemporary labor problems.

HIS 370 AMERICAN DIPLOMATIC HISTORY TO 1898

3, 3/0; F 93, 94 ES

Prerequisite: HIS 106. Independence from Bri-

tain and alliance with France; the constitution and the formation of foreign policies; neutral rights and war with Britain; rise of manifest destiny, commercial and territorial expansion, diplomacy of slavery and the Civil War; diplomacy and isolationism in the post-Civil War period.

HIS 371 AMERICAN DIPLOMATIC HISTORY SINCE 1898

3, 3/0; Sp 94, 95 ES

Prerequisite: HIS 101, 107 or permission of instructor. War with Spain and the rise to world power; Inter-American and Far Eastern relations; diplomacy of World War I; retreat to isolationism; road to World War II; global war and its aftermath; leadership in the United Nations and the Cold War; Inter-American and Far Eastern affairs.

HIS 372 AMERICAN FOREIGN POLICY IN THE FAR EAST

3, 3/0

Prerequisite: Sophomore, junior, or senior. Dawn of America's Asiatic interests; early relations with China; opening of Japan; missionary activity and influence; war with Spain; America becomes a Pacific power; World War I and the rise of Chinese nationalism; American gunboat diplomacy; inter-war naval conferences; Manchurian Incident; American-Japanese problems; road to war; Pearl Harbor and war in the Pacific; search for Pacific security; conflict in Korea; war and peace in Vietnam.

HIS 375 HISTORY OF THE BYZANTINE EMPIRE

3, 3/0; F 94

Prerequisite: HIS 115 or permission of instructor. The history of the Byzantine Empire, its influence on intellectual and cultural progress in Western Europe and among the Eastern and Balkan Slavs with special emphasis on internal, social, economic, political, and cultural developments.

HIS 380 INTRODUCTION TO THE MUSEUM

3, 3/0; F 93, 94; offered based on staff availability

Prerequisite: Permission of instructor. History, theory, and practices of the historical agency or museum; extensive reading, illustrated lectures, and exercises in museum and historical agency problems; a series of field trips to area museums and agencies.

HIS 381 THE ROLE OF THE HISTORY MUSEUM

3, 3/0; Sp 94, 95; offered based on staff availability

Prerequisite: HIS 380 or permission of instructor. Theory and practice of historical investigation and publication; uses and procedures of research in historical museums and agencies; evaluation of source materials; preparation of historical essays and exhibits.

HIS 389 HISTORICAL PERSPECTIVES (TOPICS)

3, 3/0

Examination of themes and unique developments in history that stand apart from the normal pattern; analytical and historiographical approach to such topics and phenomena as reform and reaction in American life; impact of ideology in European relations; clash of tradition and modernization in Asia; rise of nationalism in Latin America; emergence of a third world. Emphasis on class discussion of assigned materials and oral and written reactions to readings.

HIS 400* SENIOR SEMINAR IN HISTORY

3, 3/0; 1993-95

Prerequisite: Senior. Readings, discussion and research on selected problems in history — American, European, Third World. Subject and area to be covered will be noted in the schedule. *Fulfills seminar requirement for history majors and secondary social studies majors.

HIS 401 TWENTIETH CENTURY EUROPEAN DIPLOMACY

3, 3/0

Topics covered include: causes and diplomatic problems of World Wars I and II; the Paris Peace Conference and interwar diplomacy; peacemaking in the Cold War era; the European movement; Gaullism and its consequences.

HIS 404 SECTIONALISM AND THE CIVIL WAR

3, 3/0; Sp 94, 95

Prerequisite: Junior or senior. The structure of the American south, sectional development and states rights; slavery; the development of anti-slavery agitation and reform; the rise of Lincoln and the division of political parties; Civil War and the military; constitutional and diplomatic crises; economic and social impact of the war; reconstruction of the union.

HIS 405 THE RENAISSANCE AND REFORMATION

3, 3/0; Sp 94; offered based on staff availability

Prerequisite: Junior or senior. Impact of the Renaissance and Reformation on intellectual, artistic, economic, and political development of Europe; social and religious problems; humanism, secularism, classicism, individualism in Italy and Northern Europe; Protestant reform and reformers; Catholic Reformation.

HIS 406 THE FRENCH REVOLUTION AND NAPOLEON

3, 3/0; Sp 92

Prerequisite: Junior or senior. Political, social, economic, and intellectual fabric of the Old Regime; the Revolution; dictatorship of Napoleon and spread of revolutionary ideas; rise of modern nationalism.

**HIS 408
AMERICAN INTELLECTUAL HISTORY**

3, 3/0; Sp 94

Prerequisite: Junior or senior. Sources of major bodies of thought and ideas in American history; their impact upon American culture; the role ideas have played in producing a distinctive culture.

**HIS 415
HISTORY AND GOVERNMENT OF
NEW YORK STATE**

3, 3/0; offered based on staff availability

Prerequisite: Junior or senior. Aboriginal background, development of the colony; establishment of the state; rise of political parties; past and present structure and problems of New York State government; economic and social growth in the present time.

**HIS 419
CURATORSHIP**

3, 3/0; offered based on staff availability

Prerequisite: Junior or senior, HIS 380, or permission of instructor. An examination in detail of principles and techniques of collection and care of museum collection, the library, collections, audiovisual materials, archives, iconography, and historic sites; development of professional expertise in curatorship.

**HIS 420
ADMINISTRATION OF THE HISTORICAL
AGENCY OR ART MUSEUM**

3, 3/0; offered based on staff availability

Prerequisite: Junior or senior, HIS 380, or permission of instructor. Principles and practice of administration of museums; problems of organization, collection, exhibition, public services, finance, public relations, and trustee relations; special experience in the area of interpretation.

**HIS 422
TUDOR AND STUART ENGLAND**

3, 3/0

Prerequisite: Junior or senior. Henry VII and the new dynasty; religion and politics under the early Tudors; the age of Elizabeth I; the Stuarts and the Puritan revolt; restoration and revolution; limiting the monarchy and establishing the empire.

**HIS 430
UNITED STATES — THE NEW NATION**

3, 3/0; Sp 94

Prerequisite: Junior or senior. The United States following the American Revolution through Andrew Jackson's administrations. Federal authority, political parties, industrial and sectional economic development during a period of territorial, social, and diplomatic transformation. The formative and foundational structure of American society during the periods of Washington, Jefferson, and Jackson will be examined.

**HIS 450
MUSEUM INTERNSHIP**

6, 15/0; offered based on staff availability

Prerequisite: Junior or senior and permission of instructor. An intern program for students interested in gaining practical experience in museum work. Assignments to a particular museum will be made on the basis of the student's major related disciplines; students in areas such as history, anthropology, art history, education, and the natural sciences are eligible to participate.

**HIS 468
READINGS IN
AFRO-AMERICAN HISTORY**

3, 3/0; D

Prerequisite: Junior or senior. An examination of the major historical writings on selected periods and topics in Afro-American history. The class activities will include readings, discussion, and writing book reviews and bibliographical essays.

**HIS 469
BLACK PROTEST AND LEADERSHIP IN
THE U.S. IN THE TWENTIETH CENTURY**

3, 3/0; F 93, 94; offered based on staff availability D

Prerequisite: Junior or senior. An examination of the black protest movements and leaders in 20th-century America.

**HIS 495
PROJECT**

See chairperson or pertinent staff.

**HIS 498
HONORS RESEARCH**

3, 3/0; see chairperson or pertinent staff

Prerequisite: Students must have completed 12 credits in the history honors program. An advanced research course for students in the history honors sequence.

**HIS 499
INDEPENDENT STUDY**

See chairperson or pertinent staff.

Honors

Open only to students accepted into the All-College Honors Program
DR. JAMES GRUNEBaum, Coordinator
Bishop Hall 214

**HON 100
ALL-COLLEGE HONORS SEMINAR**

3, 3/0

Prerequisite: Acceptance into the All-College Honors Program. This introductory course for the All-College Honors Program provides students with the opportunity, in a seminar setting, to meet with faculty from across the disciplines and discuss how specific fields of study contribute to the betterment of human kind. This course

seeks to promote students' appreciation, critical examination, and application of interrelated concepts and values as defined by works of literature, art, music, scientific endeavor, technology, historical research, pedagogy, and political theory.

**HON 101
HUMANITIES SEMINAR**

3, 3/0; CA

Prerequisite: Acceptance into the All-College Honors Program. A humanities Core course designed for All-College Honor students as part of an integrated sequence of core courses which focus on the great ideas and works of various cultures.

**HON 301
VALUES AND ETHICS IN
THE PROFESSIONS**

3, 3/0

Prerequisite: Acceptance into the All-College Honors Program. Seminar course to explore the theories of value development, value dilemmas, and implications of legal aspects of the ethical practice of human service, educational, and health care professions. This course provides the opportunity to examine these topics from a personal and a professional viewpoint.

**HON 400
ALL-COLLEGE HONORS COLLOQUIUM**

3, 3/0

Prerequisite: Acceptance into the All-College Honors Program. This course is the culminating activity in the All-College Honors Program. Students will complete original works of scholarship and creativity and present their work in a colloquium forum to allow for the maximum exchange of ideas. This course provides closure to the objectives of the All-College Honors Program.

Library

Offered by the professional staff of
Butler Library
Butler Library 210

**LIB 100
LIBRARY RESEARCH METHODS AND
BIBLIOGRAPHY**

1, 1/0; 1993-95

Provides students with a basic understanding of the library so that materials and time may be used efficiently and effectively when doing library research. Students choose a research topic and, through a series of exercises demonstrating search strategy design and execution, prepare a bibliography. Research tools covered are the online library catalog, encyclopedias and dictionaries, periodical indexes, abstracting services, audiovisual and microform resources, and computer searching of CD-ROM databases. Open to all students. Recommended for freshmen and sophomores.

Mathematics

Offered by the Mathematics Department
DR. BETTY J. KRIST, Chairperson
Bishop Hall 317

The mathematics department suggests the following guidelines in selecting mathematics courses: Students with three and a half to four years of high school mathematics who plan to major in a mathematics-related area should enroll in MAT 161. A student with credit for only three years of high school mathematics may want to enroll in MAT 124 before electing MAT 161. A student who intends to major in mathematics should complete at least the required three-semester calculus sequence by the end of the sophomore year in order to fulfill the degree requirements within four years.

1. A declared mathematics major may not receive credit toward requirements for any mathematics course numbered below 141.

2. A student may receive general elective credit only, for a course numbered below 141, provided the course was taken before the student declared mathematics as a major.

**MAT 097
BASIC MATHEMATICS**

0, 3/0; 1993-95

Prerequisite: Must have failed Part 2 of Competency Test with a score below 9. A course which provides the necessary mathematics background needed to pass the algebra section of the College Proficiency Examination in mathematics; covers polynomials, rational expressions, exponents and roots, solving equations and inequalities.

**MAT 098
BASIC MATHEMATICS**

0, 0/1; 1993-95

Prerequisite: Must have failed Part 2 of Competency Test with score 9-13. This is a fully computer-based instruction presentation. The instructor interacts with the program by evaluating pretests and placing the student appropriately in the course continuum. Information is presented primarily by the computer program with instructor intervention. Students are encouraged to complete the entire course of study, but may exit the course when they achieve a score at or above the minimum competency exam. One hour per week attendance is required.

**MAT 103
INTRODUCTION TO CONTEMPORARY
MATHEMATICS**

3, 3/0; 1993-95 CM

Prerequisite: Must have passed Part 2 of Competency Test. Mathematics appreciation developed through such topics as: the nature and philosophy of mathematics, historical problems and personalities; mathematical systems; computers, statistics.

**MAT 107
CASINO GAMBLING**

3, 3/0; Sp 94, 95 CM

Prerequisite: Must have passed Part 2 of Competency Test. An intensive encounter with the phenomenon of chance and the theory of probability which governs it, through a critical examination of various casino gambling games including roulette, craps and blackjack.

**MAT 110
INTERMEDIATE COLLEGE ALGEBRA
AND TRIGONOMETRY**

3, 3/0; 1993-95 CM

Prerequisite: Must have passed Part 2 of Competency Test. A course which provides concepts and skills in intermediate algebra and right triangle trigonometry.

**MAT 111
ELEMENTARY PROBABILITY AND
STATISTICS**

3, 3/0; 1993-95 CM

Prerequisite: MAT 110 or three years of high school math. Empirical frequency distributions; measures of central tendency and dispersion; theory of probability of a finite sample space; application of statistical distributions.

**MAT 119
FINITE MATHEMATICS**

3, 3/0; F 93 CM

Prerequisite: MAT 110 or three years of high school math. Logic, sets, partitions, probability, vectors, matrices; linear programming.

**MAT 121
MATHEMATICS FOR ELEMENTARY
TEACHERS I**

3, 3/0; 1993-95 EM

Prerequisite: MAT 110 or three years of high school math. Natural numbers; logic, nature of deductive proof; elementary set theory; numeration systems; non-metric geometry; integers.

**MAT 122
MATHEMATICS FOR ELEMENTARY
TEACHERS II**

3, 3/0; 1993-95 EM

Prerequisite: MAT 121. Number theory, divisibility, division algorithm, Euclidean algorithm, fundamental theorem; rational numbers, real numbers; metric geometry, measure, finite mathematical systems.

**MAT 124
PRE-CALCULUS MATHEMATICS**

3, 3/0; 1993-95 EM

Prerequisite: MAT 110 or three years of high school math. Numbers, inequalities, functions graphing, polynomials, rational functions, circular functions, trigonometric identities, induction, sequences. A pre-calculus course in algebra and trigonometry designed primarily for those who have had eleventh-year high school mathematics. No credit given to students who have completed a college calculus course.

**MAT 126
CALCULUS**

3, 3/0; 1993-95 CM

Prerequisite: MAT 110 or three years of high school math. Functions; limits; continuity; techniques for differentiations; applications; summations; anti-derivatives; definite integrals; fundamental theorem of calculus; techniques of integration applications. Credit may not be earned for both MAT 126 and MAT 161 or equivalents.

**MAT 127
CALCULUS OF SEVERAL VARIABLES**

3, 3/0; 1993-95 CM

Prerequisite: MAT 126. A study of the calculus of several variables with emphasis on applications to the physical and social sciences. The level of the course is like that of MAT 126. Vectors; conic sections, surface in 3-space, functions of several variables and their graphs; partial derivatives; lines and planes in 3-space; tangent planes and normal lines and their applications; the differential and its applications; the directional derivative and its applications; introduction to differential equations and application. Credit may not be earned for both MAT 127 and MAT 162 or equivalents.

**MAT 141
COMPUTER MATHEMATICS I**

3, 3/0; 1993-95

Prerequisite: MAT 124 or four years of high school math, and CIS 101 or equivalent. Fundamental concepts of problem solving by computer as applied to mathematics. Computer organization, operations and functions; algorithm development; programming techniques. Numerical methods as used in calculus, linear algebra, differential equations, etc. Course will use a computer language to apply to this and other mathematics classes. Required of all mathematics majors.

**MAT 161
CALCULUS I**

3, 3/0; 1993-95 CM

Prerequisite: MAT 124 or four years of high school math. Functions, limits continuity, differentiation of algebraic functions, applications of the derivative, and differentiation. Credit may not be earned for both MAT 126 and MAT 161 or equivalents.

**MAT 162
CALCULUS II**

3, 3/0; 1993-95 CM

Prerequisite: MAT 161. The definite integral, the techniques of integration, logarithmic and exponential functions. Applications studied through algorithmic techniques and/or computer usage. Credit may not be earned for both MAT 127 and MAT 162 or equivalents.

**MAT 183
PROBLEM SOLVING IN MATHEMATICS**

3, 3/0; EM

Prerequisite: MAT 124 or four years of high school math. An introduction to the basic tech-

niques of problem solving, creative problem solving, the methods of Polya, Wickelgren, and others, and applications to the areas of algebra, geometry, analysis, and recreational mathematics. The emphasis is on process rather than on content.

MAT 202 **INTRODUCTION TO LINEAR ALGEBRA**

3, 3/0; 1993-95 EM

Prerequisite: One course in calculus. Vector and vector spaces; linear dependence, basis and dimension; matrices and determinants; linear systems; linear transformations; eigenvectors; and invariant subspaces.

MAT 263 **CALCULUS III**

3, 3/0; 1993-95 EM

Prerequisite: MAT 162. Vectors, partial differentiation, multiple integrals, and infinite series. Applications studied through algorithmic techniques and/or computer usage.

MAT 270 **DISCRETE MATHEMATICS**

3, 3/0; 1993-95

Prerequisite: One semester of calculus. Enumeration and graph theory. A wide variety of applications involving graphs and digraphs, trees, circuits, permutations and combinations, inclusion-exclusion principle, and recurrence relations.

MAT 301 **FUNDAMENTALS OF ABSTRACT ALGEBRA**

3, 3/0; Sp 94, 95 EM

Prerequisite: MAT 202 or MAT 270. An introduction to the fundamental concepts of abstract algebra, sets, mappings, binary operations, relations, and to algebraic structures of groups, rings, fields and applications.

MAT 302 **ALGEBRA II**

3, 3/0; F 93, 94

Prerequisite: MAT 301. Quotient fields of integral domains, polynomials rings, Euclidean domains, ideals, and factorization. Finite fields, extension fields, splitting fields, applications to geometric constructions and solvability, applications chosen from contemporary areas of coding theory, block designs, etc.

MAT 304 **GAMES AND LINEAR PROGRAMMING**

3, 3/0; Sp 95 CM

Prerequisite: MAT 110 or three years of high school math. Elementary techniques for finding optimal choices among games strategies and in linear programming problems using the fundamental minimax theorem and the simplex method. Applications in such areas as business, industry, economics, social sciences, and behavioral sciences. Not open to mathematics majors.

MAT 306 **PROBLEM-SOLVING IN BASIC**

3, 3/0; 1993-95 CM

Prerequisite: MAT 110 or three years of high school math. An introduction to the mathematical uses of computers in today's society. Background; typical uses; writing programs in BASIC; solution of problems in number theory, geometry, finance and algebra; mathematical games; sorting. Does not satisfy major requirements.

MAT 315 **DIFFERENTIAL EQUATIONS**

3, 3/0; Sp 94, 95 EM

Prerequisite: MAT 263 or permission of instructor. Preliminary ideas on order, degree, and solutions; formation of differential equations; differential equations of first order linear equations with constant coefficients; special high order equations; simultaneous equations; linear equations of the second order, series solutions.

MAT 316 **INTERMEDIATE DIFFERENTIAL EQUATIONS**

3, 3/0; F 93, 94 EM

Prerequisite: MAT 315. Laplace transform; inverse Laplace transform and applications; partial differentiation equations; Fourier series; boundary value problems; transform methods application.

MAT 322 **MODERN GEOMETRY**

3, 3/0; 1993-95 EM

Prerequisite: MAT 202 or MAT 270. Euclidean constructions; theorems of Menelaus and Ceva; cross ratio; harmonic points; orthogonal circles; isometries and similarities in the plane; introduction of projective geometry.

MAT 351 **ELEMENTARY THEORY OF NUMBERS**

3, 3/0; F 93, 94 EM

Prerequisite: MAT 124 or four years of high school math. Divisibility, Euclid's algorithm; numbers; prime factorization theorem; Euler's phi-function; Diophantine analysis; congruence; theorems of Fermat, Euler, and Wilson.

MAT 366 **COMPUTER MATHEMATICS II**

3, 3/0; Sp 94, 95

Prerequisite: MAT 141 and MAT 270. Structured programming, verification of program validity, data structures, combinatorial problems, flow network algorithms, random number generators, simulation of random and non-random processes.

MAT 370 **APPLIED NETWORKS**

3, 3/0; Sp 94, 95

Prerequisite: MAT 202 and MAT 270. Introduction to network and graph theoretic concepts. Considers properties with application in compu-

tational mathematics, social science decision making and physical science.

MAT 381 **PROBABILITY**

3, 3/0; 1993-95 EM

Prerequisite: MAT 270 and (MAT 127 or MAT 162). Probability models, discrete and continuous random variables, sampling distributions, estimation, tests of hypotheses and simple linear regression.

MAT 382 **TOPICS IN MATHEMATICAL STATISTICS**

3, 3/0; Sp 94, 95

Prerequisite: MAT 381 and MAT 263. Sampling distributions; the central limit theorem; point and interval estimation; tests of hypotheses.

MAT 401 **INTRODUCTION TO TURING MACHINES AND ABSTRACT COMPUTABILITY**

3, 3/0; offered based on staff availability

Prerequisite: MAT 301. An introduction to topics in finite automata and Turing machines; universal Turing machines; topics in abstract computability theory, and general unsolvability theory.

MAT 404 **APPLICATIONS OF LINEAR ALGEBRA**

3, 3/0; F 93, 94

Prerequisite: MAT 141 or permission of instructor, and MAT 202. Eigenvalue problems, diagonalizing matrices, Jordan Canonical form, Linear Programming, simplex method, game theory, applications in areas such as business, industry, economics, social sciences, and behavioral sciences.

MAT 411 **COMPLEX VARIABLES**

3, 3/0; F 93, 94

Prerequisite: MAT 263. Topics selected from the theory of functions of a real and/or complex variable: axioms of real numbers, geometry of complex numbers, point set topology differentiation, analytic functions, Cauchy-Riemann equations, power series, integration, special functions, and the calculus of residues.

MAT 417 **INTRODUCTION TO REAL ANALYSIS I**

3, 3/0; F 93, 94

Prerequisite: MAT 263. A rigorous treatment of elementary real analysis including: topology and Cartesian spaces, Heine-Borel theorem, sequences of numbers, sequences of functions, continuous functions, limits of functions, differentiation, mean-value theorem, Weierstrass approximation theorem.

MAT 418 **INTRODUCTION TO REAL ANALYSIS II**

3, 3/0; offered based on staff availability

Prerequisite: MAT 417 or equivalent. A continuation of MAT 417 with topics to be chosen

from: Riemann-Stieltjes integration, improper integrals, infinite series, series of functions, partial differentiation, Jacobians, implicit function, multiple integrals, and Fubini's Theorem.

MAT 461 **NUMERICAL ANALYSIS**

3, 3/0; Sp 94, 95

Prerequisite: MAT 141, MAT 202, and MAT 263. Fundamentals; finite differences; difference tables; tabulation of polynomials; difference operators; linear interpolation; classical polynomial formulas; inverse interpolation; Lagrange's formula; numerical integration; Gauss' formula; difference equations.

MAT 471 **INTRODUCTION TO TOPOLOGY**

3, 3/0; offered based on staff availability

Prerequisite: MAT 301 and MAT 417. Sets and functions; metric spaces; topological spaces, connectedness; compactness; separation.

MAT 490 **SEMINAR**

3, 3/0

Prerequisite: Senior mathematics major or permission of instructor. Investigation of some topics of current interest to mathematicians, such as group theory, game theory, differential geometry, measure theory, sampling theory, etc., emphasis is on oral presentations by the students and discussion.

MAT 495 **PROJECT**

MAT 499 **INDEPENDENT STUDY**

MED/SED 307 **USES OF TECHNICAL AIDS IN THE TEACHING OF MATHEMATICS**

3, 3/0; Sp 94, 95

Prerequisite: CIS 101 or MAT 141, or equivalent computer experience and (upper division status or permission of instructor). This course includes an introduction to the equipment and software available, ways in which it can be used effectively, a process for developing classroom lessons, and preparation for adoption of future developments in technology for teaching mathematics. Students will produce and evaluate projects for use in the mathematics classroom.

MED/SED 308 **METHODS IN THE TEACHING OF SECONDARY SCHOOL MATHEMATICS**

3, 3/0; 1993-95

Prerequisite: for 0721: Admission to the Secondary Education Bachelor of Science in Mathematics degree program; MAT 141, 161, 162, 202 or 301, 263, and 270 with a GPA of 2.5 in all math courses; at least three from SST/SED 200, EDF/SED 303, EDF/SED 403, MED 383 or two from the above group and one from MED/SED 307, EDF 321, EDF 346, EDF 353,

EDF 410, EDF 412 with a GPA of 2.5; at least 75 hours. **Prerequisite for 0222:** Minimum math GPA 2.5, EDF 202 and EDF 302 with grades of "C" or better, at least 75 hours. An introduction to the theory and practice of classroom teaching for the prospective secondary mathematics teacher. Actual field experience in classroom discipline, planning for instructor, curricular issues, evaluation and testing, and special learning techniques. Includes lectures, field observation, peer presentation, construction and critique of lesson plans, use of media, and research of teaching strategies.

MED 383 **LEARNING AND TEACHING PROBLEM SOLVING**

3, 3/0; 1993-95

Prerequisite: Two semesters of calculus and MAT 270. An introduction to the basic techniques of problem solving, creative problem solving, the methods of Polya, Schoenfeld, and others, with applications to the areas of algebra, geometry, analysis, and recreational mathematics. The course also considers strategies of teaching problem solving, as well as research in this area.

MED/SED 407 **STUDENT TEACHING OF MATHEMATICS IN JUNIOR HIGH/MIDDLE SCHOOL**

6, 30/0; 1993-95

Prerequisite: for 0721: Completion of MED/SED 308 with a grade of "C" or better; MAT 322, 381, and 6 hours of upper division mathematics; GPA of 2.5 in all math courses; senior status. **Prerequisite for 0222:** MED/SED 308 with grade of "C" or better, as many as possible of required math courses with minimum GPA of 2.5, senior status. Early secondary-school classroom laboratory experiences; goal of early secondary math. educ.; psychological influences; teaching models; testing and evaluation techniques; total involvement in early secondary school activities-practicum.

MED/SED 408 **STUDENT TEACHING OF MATHEMATICS IN SENIOR HIGH SCHOOL**

6, 30/0; 1993-95

Prerequisite: Completion of MED/SED 308 with a grade of "C" or better; MAT 322, 381, and 6 hours of upper division mathematics; GPA of 2.5 in all math courses; senior status. Secondary-school classroom laboratory experiences; goals of secondary mathematics education; psychological influences; teaching models; testing and evaluation techniques of instruction; total involvement in secondary school activities-practicum.

Music

Offered by the Performing Arts Department
DONNA E. MCCARTHY, Chairperson
Rockwell Hall 203

MUS 112 **APPLIED MUSIC**

1, 0 1/2; 1993-95 EA

Private lesson fee

Prerequisite: Previous performance with the instrument; audition required.

MUS 130 **COMPREHENSIVE MUSICIANSHIP I**

4, 3/3; F 93, 94

Introduction to sound, rhythm, melody, texture, and form through experiences in listening to music from a variety of cultures and historical periods, drilling on sight-singing and dictation, and composing and performing original music. Required for music majors, elective for others.

MUS 131 **COMPREHENSIVE MUSICIANSHIP II**

4, 3/3; Sp 94, 95

Prerequisite: MUS 130. Composing; listening and scholarship; vocal performing skills (e.g., sight-reading and dictation) based on concepts applicable to music of any time and place in the Western cultural tradition, emphasizing harmony as a structural principle in form.

MUS 140 **ETHNOMUSICOLOGY**

3, 3/0; Sp 93, 95 G

Lectures, reading, and recordings introducing the student to some principal music traditions in non-Western cultures, such as African, Indian, and Sinitic; also some consideration of the Afro-American tradition including jazz and rock.

MUS 161-164 **APPLIED MUSIC II**

1, 0/1; 1993-95 EA

Fee possible

Prerequisite: Audition. Courses must be taken in sequence. Class instruction in instrument or voice, I-IV.

MUS 165 **KEYBOARD HARMONY I**

1, 1/0; offered based on staff availability EA

Prerequisite: Permission of instructor. Applied music; keyboard harmony. Class instruction in piano, emphasizing playing chords for songs used in elementary schools. Not for beginning pianists.

MUS 171-172, 173-174, 271-272, 273-274, 371-372, 373-374 **APPLIED MUSIC**

1-2, 0 1/2-1; 1993-95 EA

Fee possible

Individual lessons for students of voice or instrument. *Required for music majors; audition required.

MUS 201 SYMPHONIC MUSIC

3, 0/3; 1993-95 CA

The understanding and enjoyment of the masterpieces written for symphony orchestra by Classic, Romantic, and Contemporary composers; attendance at selected concerts.

MUS 202 VOCAL MUSIC

3, 3/0

Class instruction and listening experience in the principal literature of choral and art song of the 17th to 20th centuries.

MUS 203 CHAMBER MUSIC

3, 3/0; CA

Class instruction and listening experience in the principal literature of small instrumental combinations by Baroque, Classic, Romantic, and Contemporary composers. Attendance at selected concerts.

MUS 204 DRAMATIC MUSIC

3, 3/0; CA

Class instruction and listening experience in the principal literature of opera.

MUS 205 AMERICAN POPULAR MUSIC IN THE 20TH CENTURY

3, 3/0; CA

Starts with colonial period but emphasis is on the 20th century. Class instruction and listening experience in the principal literature of American popular music.

MUS 206 JAZZ AND ROCK FOUNDATIONS

3, 3/0; 1993-95 DCA

A study of the roots of blues, jazz, and rock music in America, and a survey of the historical developments that helped formulate today's jazz and rock movements from 1920 into the 1990s.

MUS 208 SURVEY OF WORLD MUSIC CULTURES

3, 3/0; 1993-95 GCA

Comparative study through lectures and listening assignments of the major art music cultures of Asia, the Middle East, Indonesia, and the West.

MUS 210 MUSIC THEORY FOR NON-MAJORS

3, 3/0; 1993-95 CA

Music notation, aural and written; scales, intervals, triads, seventh chords, rhythms, simple and compound meters, triplets, elementary recitation, dictation, analysis, composition and computer applications.

MUS 211 INTRODUCTION TO CONDUCTING

1, 1/0

Prerequisite: Permission of instructor. A course in group conducting such as might be helpful to the classroom teacher.

MUS 217 EXPERIENCE IN MUSIC FOR BEGINNERS

3, 3/0; 1993-95 CA

For students who would like to experiment with making music, learn to play some simple instruments, receive guidance in listening to art music, begin to learn to read and understand music.

MUS 230 COMPREHENSIVE MUSICIANSHIP III

4, 3/3; F 93, 94

Prerequisite: MUS 130, 131. Composing, listening and scholarship, and keyboard performing skills (e.g., improvisation, four-part harmony progressions) based on concepts applicable to music of the 17th and 18th centuries in Europe.

MUS 231 COMPREHENSIVE MUSICIANSHIP IV

4, 3/3; Sp 94, 95

Prerequisite: MUS 230. Composition, analysis and theory based on musical practice of the 19th and 20th centuries. Keyboard skills, score reading and keyboard harmony.

MUS 301 INTRODUCTION TO MUSIC

3, 3/0; 1993-95 CA

Prerequisite: Junior or senior status. Listening to music from the Middle Ages through the present; an introduction to music forms, styles and composers as well as historical, cultural and social backgrounds, parallel developments in other arts.

MUS 302 MUSIC HISTORY, ANTIQUITY THROUGH BAROQUE

3, 3/0; EA

Prerequisite: Permission of instructor or one theory course. Emphasis on Medieval, Renaissance, and Baroque styles.

MUS 303 MUSIC HISTORY, CLASSIC AND ROMANTIC

3, 3/0; EA

Prerequisite: One theory course or permission of instructor. The 18th- and 19th-century opera, oratorio, solo song, chamber music, symphony, and other forms.

MUS 304 MUSIC HISTORY, 20TH CENTURY

3, 3/0; EA

Prerequisite: One theory course or permission of instructor. Sources and development of the idioms, style, and new sound media of music in the present century.

MUS 305 MODERN JAZZ

3, 3/0; EA

Prerequisite: MUS 206 or 205. A study of the history and development of modern jazz from 1941 to the present.

MUS 306 URBAN BLUES AND ROCK

3, 3/0; EA

Prerequisite: MUS 206 or 205. Sources and development of the idioms, style, and sound media of this music.

MUS 313 ENSEMBLE I

1, 0/2; 1993-95 EA

Prerequisite: permission of instructor; repeatable. Training and supervised performance in the literature for small music ensembles related to student's musical interest. Percussion, guitar, saxophone, and various chamber instrumental or vocal ensembles are offered. Audition required.

MUS 314 CONCERT BAND

1, 0/2; 1993-95 EA

Prerequisite: Permission of instructor; repeatable. Regular rehearsals and performances with the Buffalo State Concert Band. Audition required.

MUS 317 MUSIC FOR CHILDREN

3, 3/0; 1993-95

Prerequisite: Junior or senior standing. Music experiences and activities for the elementary grades.

MUS 319 AMERICAN FOLK MUSIC

3, 3/0; EA

Prerequisite: MUS 206, or 205. Lectures, reading and listening experience in the various idioms of American folk music.

MUS 321 ARRANGING VOCAL, INSTRUMENTAL POPULAR, AND JAZZ

3, 3/0

Prerequisite: Permission of instructor. Class instruction and supervised training in arranging music for dance, stage, and popular song, with study of representative examples of the literature. Traditional arranging methods are stressed.

MUS 322 CONDUCTING

3, 3/0

Prerequisite: Upper-level music major or equivalent or permission of instructor. Use of baton, reading and observation; attendance at selected concerts.

MUS 326 JAZZ ENSEMBLE

1, 0/2; 1993-95 EA

Prerequisite: Permission of instructor; repeatable. Training and supervised performance in jazz and dance band combinations. Audition required.

MUS 330 COMPREHENSIVE MUSICIANSHIP V

3, 2/2

Prerequisite: MUS 231. Composing and listening and scholarship based on concepts applicable to music of the Middle Ages, the Renaissance, and the Baroque, with emphasis on counterpoint.

MUS 331 COMPREHENSIVE MUSICIANSHIP VI

3, 2/2

Prerequisite: MUS 330. Composing, listening and scholarship based on concepts applicable to the music of the 20th century.

MUS 335 BUFFALO STATE COLLEGE SINGERS

1, 0/2; 1993-95 EA

Prerequisite: Permission of instructor; repeatable. Performance and rehearsal of choral arrangements of topical music, which includes jazz, pop, rhythm and blues, spirituals, and gospel music. Audition required.

MUS 150-450 DIRECTED STUDY SEMINAR, COMPOSITION

3, 3/0; 1993-95 (E through MUS 350)

Prerequisite: Permission of instructor and department. Supervised projects in an area of music study not addressed by current offerings, such as, but not restricted to, composition and theory, sound recording, computer music and computer music editing, with all students reporting to a common seminar. (MUS 450 is an all-college elective.)

MUS 155-455 DIRECTED STUDY SEMINAR, THEORY

3, 3/0

Prerequisite: Performance ability on musical instrument, knowledge of major scales. Supervised projects in the area of musical theory not addressed by current offerings, with all students reporting to a common seminar.

MUS 495 PROJECT

MUS 499 INDEPENDENT STUDY

Nutrition and Food Science

Offered by the Nutrition and Food Science Department
ELLEN M. DeWIND, Acting Chairperson
Caudell Hall 106

Note: Students may be responsible for some minor expenses associated with some of the following courses. Consult the department or schedule of courses, published each semester, for details.

NFS 100 MULTICULTURAL EXPERIENCE: INTRODUCTION TO FOOD SYSTEMS

3, 3/0; F 93, 94

A cultural overview of the foods and food habits of selected groups. Common foods, meal patterns, special occasion foods, and the role of food in society will be described and observed as well as the impact the group has had on the American lifestyle.

NFS 101 INTRODUCTORY FOOD

3, 2/2; Sp 94, 95 CT

Laboratory coat/apron required.

An introduction to the study of food with emphasis on the scientific principles that are involved in the identification and conservation of nutrients.

NFS 105 FOOD AND PEOPLE: INTERACTIONS AND ISSUES

3, 3/0; 1993-95 CT

An examination of the relationship people have with food including but not limited to consideration of basis for eating behavior and patterns, eating disorders and faddism, potential hazards associated with foods, dietary goals and guidelines for countries of world, and issues relating to world nutrition problems, especially hunger.

NFS 200 FOOD SERVICE SANITATION

2, 2/0; F 93, 94

Prerequisite: NFS 101. A presentation of the causes and conditions leading to foodborne illness. Students will learn how to evaluate food service operations for potential hazards and to implement measures to control them. At the completion of the course, students will take the sanitation certificate examination offered by the Educational Foundation of the National Restaurant Association.

NFS 230 FAMILY HEALTH AND NURSING — A HOLISTIC APPROACH

3, 3/0; ET

This course discusses family health through the logical approach of the developmental life cycle. Each stage of the life cycle will be considered holistically, stressing high-level wellness. The holistic approach will consider heredity, psychological, social-cultural, and environmental factors concurrently. Facts and procedures essential in preventing illness as well as maintaining and safeguarding the health of the individual and family will be presented.

NFS 279 FOOD MANAGEMENT EXPERIENCE

4, 1/9

Prerequisite: NFS 101. Introduction to the various positions and operational activities which exist in a food system; combines work experience in food management with theoretical principles in current literature and examines career paths.

NFS 300 QUANTITY FOOD PRODUCTION AND PURCHASING

4, 1/6; Sp 94, 95

Prerequisite: NFS 100. Students will have an opportunity to work in commercial, noncommercial, and/or community food service facilities. Students will be required to apply various food production, purchasing, and sanitation principles while participating in the labs. Emphasis is on preparing highest quality products and providing high quality service.

NFS 305 ADVANCED FOOD

3, 2/2; ET

Laboratory coat/apron required.

Prerequisite: NFS 101. Application of the principles of nutrition and quality food preparation as well as the principles of management and consumer economics to family food purchase, preparation, and service.

NFS 306 FOOD DEMONSTRATION TECHNIQUES

3, 2/2

Laboratory coat/apron required.

Prerequisite: Six hours NFS courses and junior standing. Uses and values of the lecture/demonstration method for the presentation of foods. Theory and practice.

NFS 320 TECHNIQUES IN ALCOHOL MANAGEMENT

2, 2/0; F 93, 94

Prerequisite: NFS 100, NFS 361. A study of the legal responsibilities of alcohol beverage service to the general public. Operational techniques for hiring and training will be discussed as well as the development of skills necessary for the conscientious service of alcohol through formal organizational policies.

**NFS 334
CONTEMPORARY NUTRITION**

3, 3/0; 1993-95 CT

An explanation of nutrition which covers the functions, requirements, food sources, and results of deficiency and excess for each nutrient, as well as a variety of topics of current interest, such as weight control. Food fads and government nutrition policies will also be evaluated.

**NFS 335
NUTRITIONAL NEEDS AND CONCERNS
DURING THE LIFE SPAN**

3, 3/0; 1993-95 ET

Prerequisite: NFS 334. A study of special nutritional needs and concerns during the life cycle, factors influencing them, and means of meeting them through proper food choices and nutrition education.

**NFS 337
HUMAN NUTRITION**

3, 3/0; Sp 94, 95

Prerequisite: BIO 311, CHE 321. A study of the nutrients required by humans for normal physiological function, with emphasis on nutrient requirements, sources, digestion, absorption, metabolism, storage, and function.

**NFS 338
NUTRITION AND THE LIFE CYCLE**

3, 3/0; F 93, 94

Prerequisite: NFS 337. The study of nutritional needs and concerns in the various physiological ages of mankind. Application of the principles of nutrition to pregnancy, lactation, infancy, the pre-school and school-age years, adolescence, adulthood, and later maturity, with appropriate discussion of nutrition services and programs available to the different age groups.

**NFS 340 (W)
INDUSTRY EXPERIENCE**

3, 0/9; Sp 94, 95

Prerequisites: NFS 100, completion of Writing Competency Requirement, major GPA of at least 2.0. An opportunity to integrate technical knowledge with industry experience in food service operations. Includes supervised field experience, meeting with instructor, and structured written assignments. This course may be taken for a maximum of 6.0 credits.

**NFS 350
COMPUTER APPLICATIONS IN FOOD
SYSTEMS MANAGEMENT**

3, 1/4; Sp 94, 95

Prerequisites: Major in food systems management, junior standing. Students will work with the latest versions of several software packages used in the hospitality industry. Software packages may include inventory management, employee scheduling, and menu planning. Students will also consider disk operating systems and be required to analyze selected hospitality case studies.

**NFS 361
PRINCIPLES OF MANAGEMENT IN
FOOD SERVICE**

3, 3/0; F 93, 95

The application of management principles in food service systems.

**NFS 364
DINING ROOM SERVICE**

3, 2/2

Laboratory coat/apron required.

Prerequisite: NFS 361 and NFS 363. A study of the techniques used in dining room activities; students will plan, prepare, and coordinate selected dining functions and will evaluate these events during the course.

**NFS 365
MENU PLANNING**

3, 3/0

Prerequisite: NFS 364. An in-depth study of the principles underlying the menu planning process; role of menu in the relationship to a food operation's success.

**NFS 366
PURCHASING AND COST CONTROL IN
FOOD SYSTEMS**

1, 1/0; F 93, 94

Prerequisite: NFS 361. An understanding of the technical operations involved in the procurement, receiving, and storage of food and how these relate to the principles of cost control in a food service operation.

**NFS 370
COST CONTROLS IN HOSPITALITY
INDUSTRY**

3, 3/0; Sp 94, 95

Prerequisites: NFS 300 and completion of college math competency. Students will be exposed to relevant accounting and financial concepts and procedures. Students will learn the interrelationships between different costs and their impact on gross margins and net incomes. Strategies to control fixed and variable costs in the hospitality industry will be discussed.

**NFS 380
ADVANCED TRAINING IN FOOD
SYSTEMS MANAGEMENT**

3, 3/0; Sp 94, 95

Prerequisite: NFS 360 or BUS 360. A review of the training principles to the design, implementation, and evaluation of programs for the hospitality industry. An opportunity to apply theoretical concepts to hospitality-related situations.

**NFS 390
MARKETING FOR THE HOSPITALITY
INDUSTRY**

3, 0/3; Sp 94, 95

Application of marketing principles to the hospitality industry with emphasis on planning and promotion for new and established organizations.

**NFS 400
FOOD SCIENCE**

4, 3/2; Sp 94, 95

Laboratory coat required.

Prerequisite: CHE 321; NFS 101. A study of the characterization, analysis, and identification of the components of food, the effect of processing on food and the inter-relationship of various aspects of food science to nutrition.

**NFS 410
FUNDAMENTALS OF NUTRITION
EDUCATION**

3, 3/0; Sp 94

Prerequisite: NFS 335 or NFS 338. Students will learn about methods and issues relating to the development of nutrition education programs. Particular emphasis will be placed on instructional strategies. Each student will gain experience by preparing a nutrition project aimed at a population group of his or her choice.

**NFS 420
FRANCHISING AND ENTREPRENEUR-
SHIP IN HOSPITALITY INDUSTRY**

3, 3/0; Sp 94, 95

Prerequisite: NFS 361. Students will have an opportunity to understand franchising and its role in the hospitality industry. Various franchise systems will be analyzed for marketing effectiveness and financial performance. Differences between entrepreneurship and franchising will be presented. Students will also learn how to select a franchise.

**NFS 430
THEORY AND CONCEPTS OF SERVICE**

3, 3/0; F 93, 94

Prerequisites: NFS 300 and NFS 361. Students will have an opportunity to understand service process and its role in the hospitality industry. Various service systems will be analyzed for marketing effectiveness and financial performance. Emphasis is on understanding service gaps and developing strategies for long term survival.

**NFS 439
NUTRITIONAL BIOCHEMICAL
ANALYSIS**

1, 0/2

Prerequisite: CHE 322, NFS 337. An introduction to some basic techniques used in the analysis of food, excreta, and blood in nutrition experiments. Experiments will be performed to determine the roles of nutrients such as protein, glucose, cholesterol, or ascorbic acid in human and animal metabolism.

**NFS 440
APPLIED NUTRITION, PART I**

3, 3/2; F 93, 94

Prerequisite: NFS 337, CHE 322; corequisites: NFS 445, NFS 338. First of three-course sequence examining the interrelationships of physiology, biochemistry, and nutrition as it relates to nutritional practice. Consideration of

the role of nutrients at the cellular level with emphasis on intermediary metabolism of carbohydrate, protein, and lipid. Laboratory sessions are given on nutritional assessment including anthropometric, clinical, biochemical and dietary with application to nutritional practice. Role of nutrition in selected conditions or disorders/diseases with emphasis on rationale of nutritional emphasized.

**NFS 441
DIETARY MODIFICATIONS IN DISEASE**

4, 4/0; F 93, 94

Prerequisite: CHE 322, NFS 337. Physiological basis for diet modification, with special emphasis on normal metabolism of nutrients and deviations from normal metabolism in disease.

**NFS 442
APPLIED NUTRITION, PART II**

4, 3/2; Sp 94, 95

Prerequisite: NFS 440; corequisite: NFS 446. Second of a three-course sequence examining the interrelationship of physiology, biochemistry, and nutrition as it relates to nutritional practice. Emphasis will be given to the role of nutrition in treating and preventing diseases/disorders: diabetes mellitus, hypoglycemia, cardiovascular, gastrointestinal, biliary, pancreatic, and musculo-skeletal.

**NFS 443
APPLIED NUTRITION, PART III**

4, 3/2; F 93, 94

Prerequisite: NFS 442; corequisite: NFS 447. Third part of a three-course sequence examining the interrelationship of physiology, biochemistry, and nutrition as it relates to nutritional practice. Emphasis will be given to the role of nutrition in treating and preventing diseases/disorders: malnutrition, stress states, nutritional support, renal, cancer, liver, chronic obstructive pulmonary disease, and AIDS.

**NFS 444
COMMUNITY NUTRITION**

3, 2/2

Nutrition as a component of health care is viewed and discussed through the various nutrition services provided for individuals and groups throughout life cycle within a community.

**NFS 445
NUTRITIONAL CARE A**

3, 0/9; F 93, 94

Clinical dress required.

Prerequisite: NFS 337, 338. This course is the first of a series of nutritional care courses promoting professional development of the student for dietetic practice. The emphasis of study is on basic skills for a professional role and application of normal nutrition knowledge. Development of basic interviewing skills, utilization of dietary tools and techniques, planning and teaching of nutrition education classes and applying normal nutrition knowledge is fostered through observation and practice. Clinical experiences with well individuals throughout the life span provide opportunities for students to learn and evaluate their knowledge and skills.

**NFS 446
NUTRITIONAL CARE B**

4, 0/12; Sp 94, 95

Clinical dress required.

Prerequisite: NFS 445; corequisite: NFS 442. The student is assigned patients in an acute care setting to correlate with Applied Nutrition II theory. The student assesses the nutritional status, defines nutritional needs, plans for nutritional care, and implements care on a beginning level after establishing criteria for evaluation of care on selected patients.

**NFS 447
NUTRITIONAL CARE C**

5, 0/15; F 93, 94

Clinical dress required.

Prerequisite: NFS 446; corequisite: NFS 443. Opportunities for the student to learn, refine, apply knowledge and skills in providing nutritional care for individuals (adults and children) with acute and chronic nutritional problems or diseases.

**NFS 448
NUTRITIONAL CARE D**

5, 0/15; Sp 94, 95

Prerequisite: NFS 447. The emphasis is placed on the student's ability to provide nutritional care to groups of patients. On an assigned hospital patient unit, the student learns to establish priorities among activities that must be accomplished to provide that care. The student integrates pertinent information regarding an individual patient with theoretical knowledge to develop an appropriate nutritional care plan. The student integrates pertinent information regarding an individual patient with theoretical knowledge to develop an appropriate nutritional care plan. The student makes appropriate use of available resources. By the completion of this course the student is able to provide the appropriate level of nutritional care to patients independently, and in concert with the existing nutrition care system.

**NFS 449
NUTRITIONAL CARE E (Nutritional Care of
Long-Term Patients)**

2, 0/6; Sp 94, 95

Clinical dress required.

Prerequisite: NFS 447. Provides a basic understanding of long-term care as a health delivery system. Students participate in providing nutritional care to chronically ill patients in a long-term care facility.

**NFS 450
SENIOR PRACTICUM IN DIETETICS**

4, 0/12; Sp 94, 95

Prerequisite: NFS 447 and approval of clinical faculty. The student, under guidance, plans, implements and evaluates professional practice goals in a selected area of dietetic practice such as an acute-care specialty practice, long-term care, nutrition education, and community service programs. Ability to function under minimal supervision is required.

**NFS 451
SPECIALTY PRACTICE**

1, 0/3; Sp 94, 95

Prerequisite: NFS 447, 443. The student participates in dietetic practice for a selected area.

**NFS 460
CASES IN STRATEGIC MANAGEMENT**

3, 3/0; F 93, 94

Prerequisites: NFS 370 and NFS 390. Students will be presented the concepts of strategic planning process, strategy implementation, and strategic control in hospitality industry. Students will learn the importance of environmental scanning in strategic management. An opportunity to analyze cases from the hospitality industry will be offered.

**NFS 463
MANAGEMENT SYSTEMS FOR
DIETETICS**

3, 3/0; Sp 94, 95

Prerequisite: NFS 363, 366. Concepts of quantitative methods of management science applied to decision making concerning policies, design, and procedures for control and evaluation of food service operations. Emphasis on management of human resources and systems concept.

**NFS 466
ADVANCED HUMAN RESOURCE
MANAGEMENT IN FOOD SYSTEMS
MANAGEMENT**

3, 3/0; F 93, 94

Prerequisite: NFS 361. An exploration of strategies utilized by food service managers to create a more effective work environment. Application of advanced human resource concepts useful for problem solving and decision making needed in the diverse and competitive hospitality industry.

**NFS 468
MANAGEMENT OF FOOD SERVICE
OPERATIONS**

3, 3/0; Sp 94, 95

Prerequisite: NFS 361. Focuses on food service systems and related subsystems including an in-depth analysis of the procurement process, menu development, food production and delivery, quality standards and financial management.

**NFS 469
INSTITUTIONAL FOOD SERVICE
SYSTEMS**

3, 3/0

Prerequisite: NFS 364. A study of food service organizational systems with emphasis on the institutional area.

**NFS 470
LEGAL ISSUES IN FOOD SYSTEMS
MANAGEMENT**

3, 3/0; Sp 94, 95

Prerequisites: NFS 100, NFS 361, NFS 380 and NFS 390. An overview of the local, state and federal laws and regulations which promote policies for effective hospitality organizations. An

opportunity for multiple case study analysis activities.

NFS 471 EXPERIENCES IN HEALTH CARE FOOD SERVICE SYSTEMS

3, 0/9; Su 94, 95

Prerequisite: NFS 468, 361. The student applies knowledge and principles of food systems management in a health care facility. Emphasis is on functions of food service system, human resource management, quality assurance program and cost analysis activities.

NFS 475 (W) RESEARCH METHODS

3, 3/0; F 93, 94

Prerequisites: Junior standing; knowledge of word processing and statistics recommended; completion of college writing competency requirement. An introduction to the research process including the opportunity to develop a research question including testable hypotheses. Students will have the option to work with a topic of their own interest.

NFS 480 CAPSTONE COURSE IN FOOD SYSTEMS MANAGEMENT (ADVANCED HOSPITALITY ADMINISTRATION)

4, 1/6; Sp 94, 95

Prerequisites: NFS 300, NFS 370, NFS 390, NFS 466 and senior standing. A culminating experience in hospitality administration in an actual food service setting which requires students to apply various theories and concepts learned in previous courses. Students will be required to develop marketing, and strategic and financial plans for a specific restaurant. Students will experience group dynamics and cultural diversity.

NFS 485 SEMINAR IN DIETETICS

1, 0/2

Prerequisite: NFS 400; seniors only. A consideration of contemporary topics of interest in dietetics via seminar format. Each student will be required to give a formal, oral presentation after reviewing current literature on a specific topic in the field.

NFS 486 (W) ADVANCED FOOD SYSTEMS MANAGEMENT SEMINAR

1, 1/0; Sp 94, 95

Prerequisites: NFS 361, NFS 390, NFS 466, NFS 470, and senior standing. Completion of college writing competency requirement. An investigation of contemporary issues relevant to the hospitality industry. Students will do research and a presentation on a topic of their choice.

NFS 495 PROJECT

Variable credit; 1993-95

Prerequisite: Registration with permission of

instructor and chairman, using department forms available in Caudell 106A.

NFS 499 INDEPENDENT STUDY

Variable credit; 1993-95

Prerequisite: Registration with permission of instructor and chairman, using department forms available in Caudell 106A.

Performing Arts

Offered by the Performing Arts Department
DONNA E. MCCARTHY, Chairperson
Rockwell Hall 203

PAR 100 THE LIVELY ARTS

3, 3/0; 1993-95 CA

Through lectures, reading, and live and recorded performances, the student is introduced to the world of the performing arts. Extensive concert attendance required.

PAR 200 PERFORMANCE LABORATORY

1, 0/3; 1993-95 CA

A laboratory experience in the performing arts chosen through faculty consultation dependent upon the interests and previous experiences (if any) of the student.

PAR 325 THE BUSINESS OF PERFORMING ARTS

3, 3/0; offered based on staff availability

A comprehensive overview of the numerous aspects of business relating to the performing arts of drama, dance, and music.

PAR/PHI 327 AESTHETICS AND THE ARTS

3, 3/0; EA

Some major concepts and theories selected from the philosophy of art applied to some major works of art selected each semester from some but not all of the following fields: architecture, dance, drama, film, music, painting, and sculpture.

PAR 350 THE AMERICAN MUSICAL

3, 3/0; EA

An historical study of the American musical focusing on the inter-relationship between the disciplines of music, theater, and dance.

PAR 495 PROJECT

3, 3/0; 1993-95

PAR 499 INDEPENDENT STUDY

Philosophy and Religious Studies

Offered by the Philosophy and Religious Studies Department
DR. GEORGE T. HOLE, Chairperson
Bishop Hall 233

PHI 101 INTRODUCTION TO PHILOSOPHY

3, 3/0; 1993-95 CH

An introduction to the literature and problem of philosophy.

PHI 102 INTRODUCTION TO MORAL AND SOCIAL PHILOSOPHY

3, 3/0; 1993-95 CH

An examination of various views about how we ought to live and how society should be organized. These views will be considered in the context of discussions about the good life and the good society. Sample questions are: Does virtue lead to happiness? Under what conditions can punishment be justified?

PHI 103 INTRODUCTION TO LOGIC

3, 3/0; 1993-95 CH

An introduction to practical reasoning and argument relevant to everyday life. Among the subjects covered are uses of language, informal fallacies, elementary deductive arguments, and the nature of scientific thinking.

PHI 104 INTRODUCTION TO THE STUDY OF RELIGION

3, 3/0; 1993-95 CH

An introduction to the rational study of religion. Religious practices and philosophies will be studied as well as concepts basic to religious experience.

PHI 105 INTRODUCTION TO CHRISTIAN THOUGHT

3, 3/0; 1993-95 EH

A study of Christianity, the historical Jesus, his teachings, life, and action; primary sources such as the gospels, epistles, as well as excerpts from the Christian Fathers, the Monastics, Mystics, and Reformists will be used to trace the development of this thought to present society.

PHI 121 INTRODUCTION TO JEWISH THOUGHT

3, 3/0; F 93, 94 EH

Basic Judaism; major divisions in Jewish thought and practice; Torah and the problems

practice; the epistemological basis of Jewish sectarianism; God and the problem of knowledge; God and revelation; the good life; Israel and the Nations; Jewish law, practices, and institutions; the world to come; Judaism and Christianity; Judaism and Islam.

PHI 201 PHILOSOPHIES OF CAPITALISM, SOCIALISM AND DEMOCRACY

3, 3/0; F 93, 94 CH

An examination of various philosophical theories and moral justifications of democracy. Also, a moral evaluation of the values of capitalism and socialism centering upon their implications for democracy.

PHI 204 PHILOSOPHY OF RELIGION

3, 3/0; Sp 94, 95 CH

A critical analysis of the philosophical assumptions that support religious belief. The course will focus on some of the problems arising from philosophical assumptions such as God's existence, omnipotence, omniscience, foreknowledge, and the existence of evil.

PHI 205 INTRODUCTION TO THE OLD TESTAMENT

3, 3/0; F 93, 94 EH

An introduction to the Old Testament which investigates the backgrounds and the cultures out of which it grew, the philosophies in it, and the kinds of literature it contains.

PHI 206 INTRODUCTION TO THE NEW TESTAMENT

3, 3/0; F 94, 95 EH

An introduction to the study of the New Testament with emphasis on the literary content, the societies from which it emerged, the structures and varieties of the literatures contemporaneous with it, and the tools necessary for understanding it.

PHI 207 PHILOSOPHY IN LITERATURE

3, 3/0; F 93, 94 CH

An examination of the relation of philosophy to literature through a consideration of the nature of language, the methods of language analysis, the relation of knowledge to fiction, and the function of myth and metaphor in presenting philosophical ideas. Each semester a number of works of literature are read and analyzed for philosophical content.

PHI 208 WOMEN AND RELIGION

3, 3/0; Sp 94, 95 EH

An introduction to the study of women and religion with special attention to their contributions to religious thought and practice. Barriers and advantages to women introduced by religion in various societies will be discussed.

PHI 210 EXISTENTIALISM

3, 3/0; Sp 94, 95 EH

A consideration of the problem of the meaning and value of life in a context of various philosophical and literary works of religious and nonreligious existentialists, including Kierkegaard, Nietzsche, Heidegger, and Sartre.

PHI 300 PROBLEMS OF PHILOSOPHY

3, 3/0; EH

An analysis of selected problems in epistemology, metaphysics, ethics, and certain movements in contemporary philosophy.

PHI 301 POLITICAL PHILOSOPHY

3, 3/0; Sp 94, 95 EH

Prerequisite: Completion of English 102 requirement and junior or senior or one course in philosophy. A study of the great modern political philosophers: Hobbes, Locke, Rousseau, Hume, Marx, and Mill. It deals with their answers to the two questions: "Why have government at all?" and "What are the proper forms and limits of government?" The course involves close textual analysis as well as discussion of the important issues of consent, ownership, justice, freedom, and equality.

PHI 302 PHILOSOPHY OF ART AND BEAUTY

3, 3/0; Sp 94, 95 CH

Prerequisite: Completion of English 102 requirement and junior or senior or one course in philosophy. An analysis of the basic concepts presupposed in any critical examination of the arts, including painting, literature, and music.

PHI 304 PHILOSOPHY OF LAW

3, 3/0; 1993-95 EH

Prerequisite: Completion of English 102 requirement and junior or senior or one course in philosophy. A general inquiry into the nature and justification of legal institutions, with special emphasis on the problem of legal punishment and on the legal enforcement of morality.

PHI 305 ANALYTIC PHILOSOPHY I: PHILOSOPHY OF LANGUAGE

3, 3/0; Sp 94, 95 EH

Prerequisite: Completion of English 102 requirement and junior or senior or one course in philosophy. An examination of recent works by analytical philosophers in the foundations of language. Such topics as meaning, reference, and necessity will be covered.

PHI 306 WRITINGS OF JOHN

3, 3/0; Sp 94, 95 EH

Prerequisite: Completion of English 102 requirement and junior or senior or one course in philosophy. The historical and literary back-

grounds of St. John's Gospel, the letters of John, and the Book of Revelation will be studied. Emphasis will be placed on the content of the Gospel itself, its major theological themes, and its distinctive contributions to Christian thought.

PHI 307 BEGINNING SYMBOLIC LOGIC

3, 3/0; 1993-95 CH

Prerequisite: Completion of English 102 requirement and junior or senior or one course in philosophy. First order logic as a system for understanding argumentation in ordinary language; the structure and use of truth-functional logic and quantification theory, including identity, will be covered.

PHI 308 PHILOSOPHY OF LOVE AND SEX

3, 3/0; 1993-95 EH

Prerequisite: Completion of English 102 requirement and junior or senior or one course in philosophy. An examination of classic and contemporary philosophic theories of the nature, value, and purpose of human love and sexuality, including such thinkers as Plato, Aquinas, Ortega, Sartre, and Kierkegaard. The course will also focus on the nature and validity of the value judgments implicit in the concepts of "perversion," "good sex," and "true love," as well as on the problems encountered in finding clear definitions for such terms. Certain moral arguments found in such areas as abortion and premarital intercourse will be considered.

PHI 309 KNOWLEDGE AND TRUTH

3, 3/0; EH

Prerequisite: Completion of English 102 requirement and junior or senior or one course in philosophy. Functional analysis of the central concepts of the general logic of scientific activity as the study of the foundations and limits of knowledge and truth are examined. The problem of knowledge, belief, appearances, sense data, and traditional theories of perception will be studied through the literature of philosophy of science and theories of knowledge.

PHI 310 THE HISTORY OF ETHICS

3, 3/0; F 93, 94 CH

Prerequisite: Completion of English 102 requirement and junior or senior or one course in philosophy. An historical study of the great western writers on ethics as they examine questions about self-interest, freedom, duty, and happiness in regard to the moral life. Writings will be selected from the texts of Plato, Aristotle, Kant, Mill, Hume, and others.

PHI 312 ANALYTIC PHILOSOPHY II: PHILOSOPHY OF MIND

3, 3/0; F 93, 94

Prerequisite: Completion of English 102 requirement and junior or senior or one course

in philosophy. Investigation of recent work by analytic philosophers in the philosophy of mind. Among questions to be considered: What validates an inference from bodily states to mental ones, or vice versa? What are the criteria for personal identity? Are we machines that think?

PHI 314 CONTEMPORARY ETHICAL THEORY

3, 3/0; Sp 94, 95 EH

Prerequisite: Completion of English 102 requirement and junior or senior or one course in philosophy. An historical and analytical study of important developments in twentieth century ethical theory; to include Naturalism, Non-cognitivism, Prescriptivism, Rationalism, and the ideas of Rawls, Nozick, Gauthier, and Gewirth.

PHI 315 EARLY MODERN PHILOSOPHY

3, 3/0; F 94 EH

Prerequisite: Completion of English 102 requirement and junior or senior or one course in philosophy. A study of the philosophic systems of the 14th, 15th, and 16th centuries and their influence on the emergence of twentieth century technology and science. The shift from metaphysical perspectives of a qualitative world to a natural science based on quantitative analysis of the world as physical process. The emergence of the twentieth century challenged to deal anew with the qualitative perspectives of the human world, transformed by technology through quantitative analytical method and the industrialization which emerged in the early modern period.

PHI 317 THE HISTORY OF PHILOSOPHY I: THE GREEKS

3, 3/0; F 93, 94 CH

Prerequisite: Completion of English 102 requirement and junior or senior or one course in philosophy. Readings in selected original texts of the leading philosophers of ancient Greece, specifically Heraclitus, Parmenides, Plato, Socrates, and Aristotle. The course will concentrate on developing the original visionary contributions of each thinker to the intellectual development of western thought.

PHI 318 THE HISTORY OF PHILOSOPHY II: THE 17th and 18th CENTURIES

3, 3/0; Sp 94, 95 EH

Prerequisite: Completion of English 102 requirement and junior or senior or one course in philosophy. Readings in selected original texts from Hobbes, Locke, Berkeley, Hume, Descartes, and Kant. The course will concentrate on elucidating the original visionary contribution of each thinker to the intellectual development of western thought. Learning how to read a philosophical work will be a key part of what is required.

PHI 319 MIDIEVAL PHILOSOPHY

3, 3/0; F 93 EH

Prerequisite: Completion of English 102 requirement and junior or senior or one course in philosophy. An examination of some central philosophical ideas developed by medieval philosophers and the relationships of those ideas to their use and development by modern and contemporary philosophers. Emphasis will be placed upon the original writings of such philosophers as Augustine, Boethius, Damian, Anselm, Bonaventure, and Aquinas.

PHI 321 WORLD RELIGIONS

3, 3/0; 1993-95 GCH

Prerequisite: Completion of English 102 requirement and junior or senior or one course in philosophy. A study of various religions such as Hinduism, Buddhism, Taoism, Shinto, Confucianism, Judaism, Christianity, and Islam, together with Native American, African, Samoan, and Aboriginal Australian religion.

PHI 323 MORAL ISSUES

3, 3/0; 1993-95 CH

Prerequisite: Completion of English 102 requirement and junior or senior or one course in philosophy. An examination of contemporary moral issues. Several moral theories will be analyzed in order to provide a foundation for examining specific moral problems. Moral issues related to genetic engineering, war and peace, discrimination, censorship, etc., will be examined.

PHI 324 ZEN BUDDHISM

3, 3/0; Sp 94, 95

Prerequisite: Completion of English 102 requirement and junior or senior or one course in philosophy. An examination of Zen as a paradoxical method by means of which a person's suffering of existence is transformed into everyday enlightenment. Contemporary practices of Zen will be studied as well as its historical origins in Buddha's "complete and unexcelled" enlightenment and in Lao Tzu's living in harmony with the Tao.

PHI 325 PHILOSOPHY OF THE FUTURE

3, 3/0; 1993-95 EH

Prerequisite: Completion of English 102 requirement and junior or senior or one course in philosophy. This course will attempt to help students anticipate change by developing future-oriented attitudes. The course will explore ideas, images, and models of the human future and allow students to integrate their studies from other departments.

PHI 327 AESTHETICS AND THE ARTS

3, 3/0; 1993-95 EH

Prerequisite: Completion of English 102 requirement and junior or senior or one course in philosophy. Some major concepts and theories selected from the philosophy of art applied to some major works of art selected each semester from some but not all of the following fields: architecture, dance, drama, film, music, painting, and sculpture.

PHI 328 BUSINESS AND ETHICS

3, 3/0; Sp 94, 95 EH

Prerequisite: Completion of English 102 requirement and junior or senior or one course in philosophy. An examination of moral problems many businessmen face in their working experience. Several moral theories will be analyzed in order to provide a theoretical foundation for examining specific moral problems. Moral problems related to advertising, ecology, and pollution, the pricing of goods and services, bribery, etc., will be examined.

PHI 329 CONTEMPORARY CHRISTIAN THOUGHT

3, 3/0; Sp 94, 95 EH

Prerequisite: Completion of English 102 requirement and junior or senior or one course in philosophy. An examination of worship, ministry, and theology of various Christian traditions in the context in which they developed from the 16th to the 20th centuries. The course will also consider some contemporary challenges to Christianity.

PHI 331 RELIGION AND MEDIA

3, 3/0; Sp 94, 95 EH

Prerequisite: Completion of English 102 requirement and junior or senior or one course in philosophy or communications. Religious issues and events will be discussed from the viewpoint of print journalism and broadcast media. Sectarian newswriting and media presentations as well as techniques and sources of interviews will be analyzed.

PHI 332 MYSTICISM

3, 3/0; Sp 94, 95 EH

Prerequisite: Completion of English 102 requirement and junior or senior or one course in philosophy. An introduction to some of the major mystical disciplines of the world and the underlying philosophies, such as Zen, Christian Jewish, Sufi, European, Far Eastern, African, and Native American mysticism.

PHI 350 HOLOCAUST

3, 3/0; Sp 95 EH

Prerequisite: Completion of English 102 requirement and junior or senior or one course in philosophy. This course will examine the fact of the Holocaust (Europe 1933-45) against the background of Jewish religious thought and religious thought in general, with special attention to how the Holocaust has affected present religious and philosophical thinking.

tion to how the Holocaust has affected present religious and philosophical thinking.

PHI 401 PROBLEM IN PHILOSOPHY SEMINAR

3, 3/0

Prerequisite: Junior or senior or one course in philosophy. Intensive analysis of selected topics in philosophy.

PHI 402 SEMINAR IN HISTORY OF PHILOSOPHY

3, 3/0; 1993-95

Prerequisite: Completion of English 102 requirement, PHI 317 and 318. Intensive study of figures and periods in the history of western and eastern philosophy.

PHI 488 INTERNSHIP

1-3; Sp 94, 95

Prerequisite: Junior or senior standing, 2.5 GPA or higher, with at least one-third of the philosophy major or religious studies minor completed. Internship programs provide students with supervised field experiences (experiential learning). An internship shall consist of supervised on-site activities for qualified students and an academic component consisting of training sessions, seminars, and reports.

PHI 495 PROJECT

PHI 499 INDEPENDENT STUDY

Physics

Offered by the Physics Department
DR. JAMES WELLS, Chairperson
Science Building 271B

The Physics Department offers courses of general interest such as PHY 100, PHY 103 and PHY 200, as well as technical courses for students who plan to major in all sciences.

PHY 100 PHYSICS FOR NON-SCIENCE MAJORS

3, 3/0; 1993-95 CM

A one-semester, non-mathematical consideration of historical world views in physics and their relevance to society. May not be substituted for PHY 107, 108, 111, 112. *Not open to majors.

PHY 103 UNDERSTANDING SOUND

3, 3/0; 1993-95 CM

A one-semester, non-mathematical consideration of sound and noise. Discussion of musical sounds, noise pollution, fidelity of sound reproduction, and other topics related to the quality of

the audible environment. *Designed for non-science majors. May not be substituted for PHY 101, 102, 111, 112. *Not open to majors.

PHY 107 GENERAL PHYSICS

3, 2/2; 1993-95 CM

Algebra based study of mechanics, heat, wave motion, and sound; selection of laboratory experiences based on lecture material. *Not open to majors.

PHY 108 GENERAL PHYSICS

3, 2/2; 1993-95 CM

Prerequisite: PHY 101. Algebra based study of light, electricity, and magnetism, circuits and optics; selection of laboratory experiences based on lecture material. *Not open to majors.

PHY 111 UNIVERSITY PHYSICS I

4, 3/2; 1993-95 CM

A calculus-based treatment for science majors of particle mechanics, dynamics, rotational motion and equilibrium concepts, with an introduction to gravitation and oscillations. Includes laboratory. *Required for majors.

PHY 112 UNIVERSITY PHYSICS II

4, 3/2; 1993-95 CM

Prerequisite: PHY 111 or equivalent. A continuation of PHY 111; a calculus-based introduction to heat, electricity, magnetism, and optics. Includes laboratory. *Required for majors.

PHY 200 CREATORS OF THE ATOMIC AGE

3, 3/0; Sp 94, 95 EM

Conceptual analysis of ideas and contributions of the physicists related to the development of nuclear energy and weapons. The what, how, and why of both military and civilian applications. Designed for non-science majors and includes multimedia presentations.

PHY 213 UNIVERSITY PHYSICS III

3, 3/0; F 93, 94 EM

Prerequisite: PHY 112 or equivalent. A continuation of PHY 111 and 112; a calculus-based introduction to physical optics, kinetic theory, classical wave motion, and interference phenomena; introduction to special relativity. *Required of majors.

PHY 305 MODERN ATOMIC PHYSICS

4, 3/0; Sp 94, 95

Prerequisite: PHY 111-112 or equivalent, and calculus. Wave particle duality and atomic spectra and structure. Introductory concepts of quantum theory; selected topics in nuclear, atomic, and solid state physics. *Required for all majors.

PHY 308 OPTICS

3, 3/0; F 93, 94

Prerequisite: PHY 111-112 or equivalent, and calculus. Fundamentals of geometrical and physical optics, the nature and propagation of light; Fraunhofer and Fresnel diffraction, polarization; and single, double slit and grating diffraction, lasers and holography.

PHY 310 INTERMEDIATE LABORATORY

2, 0/4; F 93, 94

Prerequisite: PHY 111-112. Corequisite: PHY 213. Theory of data presentation in laboratory, including error propagation, statistics, and graphing techniques applied to intermediate mechanics, thermodynamics, optics, and electricity and magnetism experiments.

PHY 315 HEAT AND THERMODYNAMICS

3, 3/0; F 93, 94

Prerequisite: PHY 111-112 or equivalent, and calculus. First, Second Laws, entropy, chemical potential, enthalpy, free energy, Gibbs function, Maxwell relations, phase transitions and statistical mechanics of classical and quantum distributions. *Required for B.S. program.

PHY 320 INTRODUCTION TO THEORETICAL PHYSICS

4, 4/0; Sp 94, 95

Prerequisite: PHY 111-112 plus MAT 263. Introduction to advanced mathematical applications; partial differential equations, complex numbers, special functions, boundary value problems, orthogonal functions and expansions, matrices, and integral transform techniques. *Required of all B.S. majors.

PHY 325 ELECTRONICS

3, 0/6; F 93, 94

Prerequisite: PHY 320, and junior standing. Principles of filters and resonant circuits, semiconductor devices and integrated circuit chips. Analog and digital lab work included. *Required for B.S. program.

PHY 403 X-RAYS

3, 3/0; Sp 94, 95

Prerequisite: PHY 111-112 or equivalent. Production and measurement of X-rays; absorption and wave properties; Bragg's Law and crystal lattices; emission and absorption spectra; scattering.

PHY 410 ADVANCED PHYSICS LABORATORY

2, 0/4; 1993-95

Prerequisite: PHY 305 or equivalent. Selected experiments chosen from the area of mechanics, heat, sound, light, electricity and magnetism, and modern physics. *Required of majors.

**PHY 412
PHYSICS SEMINAR**

1, 1/0; Sp 94, 95

Prerequisite: 15 semester hours credit in Physics and MAT 162 or the equivalent. Readings, reports and discussion of current job opportunities and/or problems and research in Physics. *This course may be taken three times.

**PHY 425
CLASSICAL MECHANICS**

4, 4/0; F 93, 94

Prerequisite: PHY 320 or equivalent. Vectorial particle mechanics in one, two, and three dimensions; rigid body motions in three dimensions; motion in central force fields; moving reference frames, forced harmonic oscillators and introduction to mechanics in Lagrangian and Hamiltonian formulation. *Required for all majors.

**PHY 435
INTRODUCTION TO
QUANTUM PHYSICS**

3, 3/0; Sp 94, 95

Prerequisite: PHY 305, PHY 320, or equivalent. Postulates of quantum mechanics with selected examples includes uncertainty principle, operator formalisms, Heisenberg and Schroedinger representations, angular momentum, and spin. *Required for B.S. program.

**PHY 440
ELECTRICITY AND MAGNETISM I**

3, 3/0; F 93, 94

Prerequisite: PHY 320, MAT 263 or equivalent. Coulomb forces, electric fields and potentials. LaPlace Equation, boundary value problems and dielectrics. Multipole distributions and magnetic induction, with an introduction to Maxwell's equations. *Required of B.S. majors.

**PHY 441
ELECTRICITY AND MAGNETISM II**

3, 3/0; Sp 94, 95

Prerequisite: PHY 430. This course is a continuation of PHY 430; vector potentials, Faraday's Law, magnetism, electromagnetic wave propagation and radiation.

**PHY 445
NUCLEAR PHYSICS**

3, 3/0; Sp 94, 95

Prerequisite: PHY 305, PHY 320 or equivalent. The basic properties of nucleons and nuclei, radioactivity, detectors, the interaction of nuclear radiation with matter, nuclear reactions, nuclear models and gamma emission, and an introduction to high-energy physics.

**PHY 448
INTRODUCTION TO SOLID STATE
PHYSICS**

3, 3/0; Sp 94, 95

Prerequisite: PHY 320 or equivalent. Theory of the structure of solids; unit cell, lattice dynamics and phonons, specific heats, band theory, superconductivity, electron dynamics and statistics.

**PHY 450
SUPERVISED PHYSICS LABORATORY
TEACHING**

1-2, 0/2-4; 1993-95

Prerequisite: Junior or senior standing in Physics, 3.25 GPA in major, 3.0 GPA overall. **Approval of Physics faculty based on academic performance, maturity, and potential.** A supervised in-classroom introduction to college laboratory teaching techniques and procedures for selected, qualified upper division physics majors.

**PHY 495
PROJECT**

1-3, 0/2-6; 1993-95

Prerequisite: Approval of a faculty sponsor must be secured prior to registration. Physics and physics-related areas.

**PHY 499
INDEPENDENT STUDY**

3-6, 0/6-12; 1993-95

Prerequisite: Approval of a faculty sponsor must be secured prior to registration. Physics and physics-related areas.

Planning

Offered by the Geography and Planning Department
ELBRIDGE A. RENNING JR., Chairperson
Classroom Building A213

**PLN 315
INTRODUCTION TO COMMUNITY
PLANNING**

3, 3/0; 1993-95 ES

Introduction to various aspects of community planning, historical survey, origin and growth of city planning movement; role of the various levels of government in community planning; and factors currently involved in community planning theory and practice. *Required of urban-regional analysis and planning majors.

**PLN 325
MAP AND AIR PHOTO
INTERPRETATION**

3, 3/0; F 93, Sp 95

Prerequisite: GEG 101 or PLN 315 or permission of instructor. Fundamental elements of maps and air photographs and the methodology of interpreting both. Lecture topics and laboratory work include data sources, data presentation, globe and map grids, and the use of maps and air photos to present, identify, and study spatial phenomena. *Required of urban-regional analysis and planning majors; not acceptable in the BA geography major.

**PLN 380
NEIGHBORHOOD REVITALIZATION**

3, 3/0; Sp 94

Prerequisite: PLN 315 or permission of instructor. A study of neighborhood housing conditions, population displacements, gentrification and historic preservation. Past, present and potential housing programs from various government agencies will be analyzed.

**PLN 412
COMMUNITY PLANNING AGENCIES &
ISSUES**

3, 3/0; F 93, 94

Prerequisite: PLN 315. The role of the professional planner in a range of government and private agencies; introduction to the tools needed by the professional planner; discussion of planning techniques and issues. Emphasis is on professional ethics and the functions of staff in a variety of planning agencies. *Required of the urban-regional planning track.

**PLN 415
SEMINAR IN PLANNING**

3, 3/0; Sp 95

Prerequisite: Permission of instructor. Investigation, discussion and research on topics of current interest in planning or economic development. Techniques and methods of analysis used in the planning process. Topics will vary from semester to semester.

**PLN/GEG 430
SEMINAR IN GEOGRAPHY AND
PLANNING APPLICATIONS**

3, 3/0; Sp 94, 95

See description listed under GEG 430.

**PLN 488
INTERNSHIP**

Hours vary with credit.

Prerequisite: Junior or senior and PLN 315. Internships provide students with guided and supervised field experience which complement the academic program. Students must have at least a 2.5 GPA and a background of courses or experiences within the area of interest. Approval of the placement must be obtained from the student's adviser and the department chair.

**PLN 495
PROJECT****PLN 499
INDEPENDENT STUDY**

Political Science

Offered by the Political Science Department
DR. ABDUL J. RAOOF, Chairperson
Classroom Building 218

**PSC 101
INTRODUCTION TO GOVERNMENT
AND POLITICS**

3, 3/0; 1993-95 CS

Survey of the nature and the scope of political science; ideological foundations of politics; comparative study of the governments of constitutional, totalitarian and developing systems; the dynamics of politics and functions of political institutions.

**PSC 102
INTRODUCTION TO
AMERICAN GOVERNMENT**

3, 3/0; 1993-95 CS

The Constitution and its principles; functions and roles of the federal executive, legislative and judicial branches; citizen participation; problems of individual liberty and governmental authority; problems of national security, economic regulation and social welfare. *PSC 102 required of Secondary Social Studies majors.

**PSC 103
GREAT POLITICAL ISSUES**

3, 3/0; 1993-95 CS

Examination of some of the great political issues such as ideology, freedom, equality, political obligation, civil disobedience, law, and morality.

**PSC 210
THE AMERICAN PRESIDENCY**

3, 3/0; F 93, 94 ES

Examination of the contemporary presidency; constitutional roles; political powers and the factor of personality; the executive and other political and social institutions; problems and prospects for the Presidency in the last decade of the 20th century.

**PSC 215
URBAN GOVERNMENT**

3, 3/0; Sp 94, 95 CS

An introduction to the political economy of urban areas in U.S. Focus on explanation of current urban public policies through study of such topics as public vs. private political power; bureaucracy; citizen organization.

**PSC 218
AFRICAN-AMERICAN POLITICAL
CULTURE**

3, 3/0; F 93, 94 DCS

An urgent evaluation and critical reevaluation of political beliefs, attitudes, and practices that pertain to African-American politics in the cultural context; focus on the causality and linkage inherent on the reciprocal relationship between African-Americans and the American political system.

**PSC 220
THE DEVELOPMENT OF AMERICAN
CONSTITUTIONAL LAW**

3, 3/0; Sp 94, 95 ES

Foundations of American constitutionalism; judicial review and its use through history; the Supreme Court in interaction with Congress,

president and states; evolving concepts of federalism; development of civil rights and liberties policies.

**PSC 225
WOMEN IN AMERICAN POLITICS**

3, 3/0; F 93, 94 DCS

Defines influences on female participation in the American political system; analyzes the political behavior of American women; and examines the implications of these influences and behaviors.

**PSC 230
INTERNATIONAL RELATIONS**

3, 3/0; F 93, 94 GCS

Elements of national power, religion and global balance of power and collective security systems, instruments of international politics-diplomacy, propaganda and war, forces of nationalism.

**PSC 240
EUROPEAN POLITICAL SYSTEMS**

3, 3/0; Sp 94, 95 CS

Examination of the structure and dynamics of politics in the major European countries with emphasis on political behavior and political processes of decision making.

**PSC 300
POLITICAL ANALYSIS**

3, 3/0; 1993-95

Systematic study of the design, execution, and interpretation of research in the several fields of political science; emergence and development of the discipline; common assumptions and controversies. Required of all political science majors.

**PSC 306
POLITICS OF ENERGY**

3, 3/0; offered based on staff availability ES

Study of the energy situation in both the U.S. and the international community from political viewpoints; analyze the U.S. energy policy and process and strategies within their economic, physical, and political settings; and examine the issues of conflict and cooperation among nations over the rational utilization of energy resources.

**PSC 307
POLITICAL ALIENATION**

3, 3/0; offered based on staff availability ES

Deals with political disillusionment and alienation as the combination of several distinct factors; distrust of government and politicians, a sense of the meaninglessness of electoral politics and political choices or personal powerlessness to influence the course of politics. The students are encouraged to sort out these feelings, to comprehend their extent and to locate the sources and probable effects.

**PSC 309
POLITICS OF INTERNATIONAL
BUSINESS**

3, 3/0; Sp 94, 95 GES

A study of international economy of business.

Viewed from international relations, the course focuses on trade, monetary, and technology policies of countries; transfer of capital and human resources; international organizations of economic policies.

**PSC 310
AMERICAN POLITICAL PARTIES**

3, 3/0; F 93, 94 ES

The American two-party system; suffrage rules and the electoral process; shifting patterns of organization, nomination, and finance; the role of party in government; and parties in the future of American politics.

**PSC 311
PRESSURE POLITICS**

3, 3/0; F 94 ES

Introduction to the political process as practiced in democratic systems; the methods and operations of various interest groups; and the roles played by citizen groups involved.

**PSC 312
LEGISLATIVE PROCESS**

3, 3/0; Sp 94, 95 ES

An examination of the state and national legislatures with emphasis on the determinants of legislative decision-making, the committee system, and the policy outputs of the legislative branch.

**PSC 315
STATE AND LOCAL GOVERNMENT
POLITICS**

3, 3/0; 1993-95 ES

Functions of state and local governments; constitutional and governmental structures; inter-governmental relations; decision-making, effects of metropolitanization; contemporary issues and problems; future trends and prospects.

**PSC 316
URBAN ETHNIC POLITICS**

3, 3/0; F 93, 94 DES

Study of the political life of ethnic groups in urban areas of the United States. Includes consideration of a number of both white immigrant and "third world" groups including Irish, Italian, Polish, Black, and Native American. Emphasis on contemporary patterns of organization, leadership, strategy and participation, and on relations among ethnic groups, and between ethnic groups and both local and national government.

**PSC 320
U.S. CIVIL LIBERTIES**

3, 3/0; F 93, 94 ES

In-depth study of the legal principles influencing the origin and development of our criminal laws and the way these principles have evolved by court interpretation to accommodate social change and attitudes over the years. The Bill of Rights and "due process" clause of the United States Constitution will be the focal point of this course. *Alternate course selection to PSC 420, Contemporary Constitutional Issues.

**PSC 325
POLITICS OF WELFARE**

3, 3/0; Sp 94, 95 ES

To provide the student with knowledge and insight into America's mixed system of capitalism and socialism; to introduce the student to many of our major welfare programs including social security, veterans benefits, tax expenditures, food stamps, subsidized education, military retired pay, etc.; to analyze the costs and benefits of America's welfare system.

**PSC 326
POLITICS AND MEDIA**

3, 3/0; 1993-95 ES

Examines the relationship between the mass media and contemporary American politics. It analyzes the impact of the media on voting behavior and focuses on the role of the media in the presidential and congressional elections.

**PSC 327
PRACTICAL POLITICS**

3, 3/0; offered based on staff availability

A non-classroom structured activity which allows students to receive college credit while participating in a meaningful way in politics. Activities include participation in quasi-political organizing as well as in campaigns and elections. Students who register for this course should first get the permission of the instructor.

**PSC 330
AMERICAN FOREIGN POLICY**

3, 3/0; Sp 94, 95 ES

Analysis of basic ideas that shape American foreign policy; isolationism, overinvolvement and neo-isolationism; domestic and international pressures; cold war, peaceful coexistence and detente; major area problems.

**PSC 333
AFRICAN INTERNATIONAL RELATIONS**

3, 3/0; Sp 94, 95

This course promises to examine African international politics vis a vis international relations theory, models, and concepts. Included in such an examination would be the following: power, multipolarity, bipolarity, pan-Africanism, North-South debate, approaches to international politics, and state and international organizations as international actors.

**PSC 335
INTERNATIONAL RELATIONS OF THE MIDDLE EAST**

3, 3/0; F 93, 94 GES

Study of the patterns of interaction within the Middle East and with other states; problems of security and peace in the region; ideology, nationalism, and economic interests as factors influencing the behavior of the states.

**PSC 340
POLITICS OF DEVELOPING COUNTRIES**

3, 3/0; F 93, 94 GCS

Comparative analysis of the major problems of

the developing countries; political process and its relation to societal transformation; patterns of political process; the role of the army and bureaucracy in political development; problems of nation-building and democracy in developing countries.

**PSC 345/HIS 313
POLITICS AND HISTORY OF THE MIDDLE EAST**

3, 3/0; Sp 94, 95 CS

Analysis of the geographic, cultural, and political settings; historical development since the 19th century; the disintegration of the Ottoman Empire and western colonialism; nationalism, independence and turmoil, Arab-Israeli question, oil, its impact and problems; great power and inter-area politics.

**PSC 348
GOVERNMENT AND POLITICS OF THE FAR EAST**

3, 3/0; offered based on staff availability CS

An introductory survey of the governmental institutions and political processes of contemporary China and Japan. Major emphasis is placed on Japanese democratic reform since World War II and Chinese communist revolution, as well as the governmental structures, party systems, and foreign policies of the countries concerned.

**PSC 350
INTRODUCTION TO LEGAL THOUGHT**

3, 3/0; 1993-95 ES

An examination of the main concepts, theories, and issues that constitute the framework of legal thought (such as the nature of law, the nature of legal reasoning, the limits of law, and the justification of punishment).

**PSC 351
HISTORY OF POLITICAL THEORY I**

3, 3/0; Sp 94, F 94 ES

An exposition and critical analysis of the main problems of political theory by an examination of the writings of major political thinkers from Plato to Aquinas.

**PSC 352
HISTORY OF POLITICAL THEORY II**

3, 3/0; F 93, Sp 95 ES

An exposition and critical analysis of the main problems of political theory by an examination of the writings of major political thinkers from Machiavelli to Marx.

**PSC 355
AMERICAN POLITICAL THOUGHT**

3, 3/0; Sp 94, 95 ES

This is a survey of American political thought from colonial to contemporary time. The main emphasis will be on: the development of political values and beliefs that have persisted; how interpretations and applications of these values and beliefs have changed through different periods; and the roots of contemporary American political culture and ideology.

**PSC 360
PUBLIC ADMINISTRATION**

3, 3/0; F 93, 94 ES

Introduction to the study of public administration; analysis of the relations of government administration to its social, economic, and political settings; the role of public administration in formulating public policy; organization and management in public service; personnel and financial management.

**PSC 364
AMERICAN PUBLIC POLICY**

3, 3/0; Sp 94, 95 ES

An examination of governmental policy with emphasis on the sources of policy, the policy-making process in national-level political institutions, and the social impact of policy choices.

**PSC 368
COMPARATIVE PUBLIC ADMINISTRATION**

3, 3/0; Sp 94, 95 GCS

An introduction to the cross-cultural, cross-national or cross-institutional study of public administration institutions and practices. Particular emphasis is given to the administrative systems of European countries and to the processes of administrative change in developing countries. The evolution of bureaucracy is also explored.

**PSC 370
CANADIAN PUBLIC ADMINISTRATION**

3, 3/0; offered based on staff availability

A survey of Canadian Public Administration institutions and processes and the development of public policy. Particular emphasis is placed on the Federal level with secondary attention to provincial and local administration and policy. Similarities and differences with other administrative systems — particularly the U.S. — are explored.

**PSC 389
TOPICS IN POLITICAL SCIENCE**

3, 3/0; offered based on staff availability

In-depth study of current issues of substantial political significance. Several sections may be offered each semester. Topics will vary from semester to semester. Recent examples: public personnel administration, defense policy, computers and political science, environmental policy. Student should consult current course listings for specific offering.

**PSC 410/SOC 440
POLITICAL BEHAVIOR AND PUBLIC OPINION**

3, 3/0; F 93, 94

Conditions of democratic political behavior; opinion formulation in democratic systems; voting behavior and party affiliation in the United States; political behavior in governmental institutions; political behavior in selected western European societies.

**PSC 420
CONTEMPORARY CONSTITUTIONAL ISSUES**

3, 3/0; Sp 95

Examination of recent developments in American constitutional law; comparison of the Warren, Burger, and Rehnquist Courts; focus upon First Amendment liberties and rights; the rights of the accused and criminal due process; equal protection and black Americans; reapportionment and representation; the president and national security.

**PSC 450
CONTEMPORARY POLITICAL THOUGHT**

3, 3/0; S 94

An exposition and critical analysis of the central problems of political philosophy (such as equality, freedom, justice, and political obligation) as discussed by contemporary philosophers.

**PSC 470
HONORS SEMINAR IN POLITICAL SCIENCE**

3, 3/0; offered based on staff availability

Prerequisite: Junior or senior with 3.00 average. Selected topics in political science will be examined and analyzed in depth.

**PSC 495
PROJECT****PSC 497
WASHINGTON SEMESTER**

(Daily) 16, 16/0; 1993-95

Each semester one student from this college is chosen to participate in the State University of New York's Washington Semester Program. The program involves a full-time internship in Washington, D.C. Selection is based on college-wide competition. Interested students should contact the department chairman for information and appropriate application forms.

**PSC 499
INDEPENDENT STUDY**

Psychology

Offered by the Psychology Department
DR. JERRY F. CATALDO, Chairperson
Classroom Building C312

The Psychology Department offers B.A. and B.S. degrees. Psychology 101 is a prerequisite for all other psychology courses.

**PSY 101
INTRODUCTION TO PSYCHOLOGY**

3, 3/0; 1993-95 CS

The objective of this course is to introduce students to the scientific study of psychology. Top-

ics covered include: research methodology, genetic and environmental influences on the development of behavior, perception, learning, motivation and emotion, personality, social processes, and psychopathology.

**PSY 205
INDEPENDENT READING**

1, 1/0; 1993-95

Prerequisite: PSY 101 and permission of the instructor. Supervised readings project on a specific topic in psychology to be chosen by mutual agreement of student and faculty supervisor at the time of registration.

**PSY 304
PSYCHOLOGY OF LEARNING**

3, 2/2; 1993-95 CS

Prerequisite: PSY 101. Major emphasis in this course will be on the scientific analysis of learning rather than on the application of learning principles. Topics covered include: psychological correlates of learning and memory, empirical laws of learning derived from research on humans and animals, and theoretical explanations of the learning process.

**PSY 306
STATISTICS IN PSYCHOLOGICAL RESEARCH**

3, 2/2; 1993-95 ES

Prerequisite: PSY 101 and completion of the Basic Mathematics Requirement. Intensive study of the major descriptive and inferential statistics used in psychological research. Practice in the use of statistical tests of significance. Topics covered include: graphic and tabular presentation of data, measures of central tendency and dispersion, probability theory, t-tests, analysis of variance, chi-square, correlation techniques, and experimental design. *Required for psychology majors.

**PSY 308
BASIC CONCEPTS OF PERCEPTION**

3, 3/0; 1993-95 CS

Prerequisite: PSY 101. This course covers the major facets of perceptual functioning from sensory processes to complex perceptual integrative processes. Emphasis on basic concepts such as physiological correlates of perception, empirical laws and principles, theoretical explanations of perceptual processes and their determinants.

**PSY 310
BEHAVIOR MODIFICATION I**

3, 3/0; Sp 94, 95 ES

Prerequisite: PSY 101. This course covers major learning principles as applied in behavior-modification techniques. The premises, ethics, and assessment of behavioral methods of behavior control are studied. Topics covered include: reinforcement, extinction, punishment, modeling, and cognitive change as methods of changing human behavior.

**PSY 311
PERSONALITY: THEORY AND RESEARCH**

3, 3/0; 1993-95 CS

Prerequisite: PSY 101. This course will examine and evaluate major theories and related research on personality development and functioning. The focus is on normal personality. Topics covered include: problems of theory development and evaluation, major theoretical approaches, and personality determinants. Empirical research will be discussed.

**PSY 321
COMPARATIVE ANIMAL BEHAVIOR**

3, 3/0; Sp 94, 95 ES

Prerequisite: PSY 101. The study of animal behavior as viewed from a psychological perspective. Emphasis is placed on current theoretical models of animal behavior. Topics covered include: the evolution and adaptive functions of sexuality, predator-prey interactions, evolution of social organization, territoriality, dominance, aggression, learning, and instinct.

**PSY 325
SOCIAL BEHAVIOR**

3, 3/0; 1993-95 CS

Prerequisite: PSY 101. A theoretical and empirical examination of the role of social factors in the individual's behavior. Topics covered include: theory and research on attitude formation and change, affiliation, attribution process, interpersonal attraction, small group dynamics, aggression, conformity, leadership, and competition.

**PSY 327
ADULT DEVELOPMENT AND AGING I**

3, 3/0; 1993-95 ES

Prerequisite: PSY 101. An introduction to how humans develop and change throughout early, middle, and late adulthood. Current psychological theory and empirical evidence concerning patterns of aging, problems of aging, and benefits of aging will be considered. Topics covered include: social, psychological, and biological determinants of adult development, cognitive change, personality change, family relations, life satisfaction, and the stigma of old age.

**PSY 340
COGNITIVE PSYCHOLOGY**

3, 3/0; F 93, 94 CS

Prerequisite: PSY 101. A basic introduction and survey of the research and theoretical issues in cognitive psychology. Topics covered include: history of memory and thought, acquisition of information, attention, short-term and long-term memory, pattern recognition, speech perception, space perception, and higher-order mental processes.

PSY 355
LIFE-SPAN DEVELOPMENTAL
PSYCHOLOGY

3, 3/0; 1993-95 CS

Prerequisite: PSY 101. Examines the psychological, biological and social factors that affect psychological development throughout the life-span from the prenatal infant to the elderly adult. Topics covered include: cognitive development, language acquisition, formation of sex roles, development of personality, emotion, morality, and the stages of the life-span.

PSY 365
INDUSTRIAL PSYCHOLOGY

3, 3/0; 1993-95 ES

Prerequisite: PSY 101. A study of the theoretical and social functions of industrial psychology emphasizing personnel selection, classification, placement, training, merit review, and development. Work motivation, job satisfaction, factors which influence productivity, leadership, and organizational theory are also considered.

PSY 367
BEHAVIOR IN ORGANIZATIONS

3, 3/0; 1993-95 CS

Prerequisite: PSY 101. The course examines organizational behavior from a psychological perspective. Emphasis is placed on theories and methods in organizational behavior and relevant research. Topics covered include: issues related to behavioral research in the organizational setting, motivation, leadership, group dynamics, communication, and organization analysis and development.

PSY 370
ENVIRONMENTAL PSYCHOLOGY I

3, 3/0; 1993-95 ES

Prerequisite: PSY 101. An introduction to the study of environmental psychology. The course examines major features of the role of physical environment on behavior. Topics covered include: theories of physical environment-behavior relations, research methods, territoriality, privacy, crowding, environmental perception and attitudes, pollution and behavior, buildings and behavior.

PSY 382
PSYCHOLOGY OF THE CONSUMER

3, 3/0; F 94 ES

Prerequisite: PSY 101 plus 42 additional college credits. An introduction to the field of consumer behavior from a psychological point of view. This course will emphasize psychological theory and measurement techniques as tools for understanding consumer behavior. Relevant material from learning, perception, attitude formation, personality, and motivation as they describe consumer decision-making will be presented.

PSY 383
THE PSYCHOLOGY OF HUMAN
SEXUAL BEHAVIOR

3, 3/0; 1993-95 ES

Prerequisite: PSY 101 plus 42 additional college

credits. This course will focus on the psychosexual aspects of human sexuality. Topics covered include: historical views of human sexuality, sex research, physiology of sex, gender identity and role, puberty, early learning of sexuality, heterosexuality, homosexuality and bisexuality, ways of sex, sexual minorities, social and legal issues of sex, portrayal and handling of sex in the media, sexual difficulties, eroticism, social psychological attitudes toward sex, and future trends of sexuality.

PSY 385
PSYCHOLOGY OF PERSONAL
ADJUSTMENT

3, 3/0; 1993-95 ES

Prerequisite: PSY 101. This course examines personal growth and adjustment. Topics covered include: theories of adjustment, characteristics of the healthy personality, interpersonal relations and adjustment, role of work in adjustment, and strategies for adjustment.

PSY 386
PSYCHOLOGY OF STRESS, COPING
AND HEALTH

3, 3/0; 1993-95 ES

Prerequisite: PSY 101 plus 42 additional college credits. This course will introduce theory and empirical research in the psychology of stress, coping, and health. Topics covered include: introduction to health psychology, major physiological systems, components of stress, relationship of stress to health, physical and psychological consequences of stress, social support systems, coping with life crises, relaxation techniques, psychological intervention and treatment, and the holistic health model.

PSY 387
PSYCHOLOGY OF WOMEN

3, 3/0; F 94 ES

Prerequisite: PSY 101 plus 42 additional college credits. This course focuses on the empirical and theoretical issues related to the psychology of women. Topics covered include: the biological bases of sex differences, the effects of body states on the psyche, gender identity, women's adult development, female personality, women and interpersonal power and self-esteem.

PSY 388
PSYCHOLOGY OF DEATH AND DYING

3, 3/0; 1993-95 ES

Prerequisite: PSY 101 plus 42 additional college credits. This course will provide students with an objective coverage of the relevant issues pertaining to death and dying. Topics covered include: the stages of dying, counseling the dying person, attitudes of and reactions to death, psychological needs served by funeral and burial rituals, suicide, euthanasia, the right to die, grief and bereavement.

PSY 411
ABNORMAL PSYCHOLOGY

3, 3/0; 1993-95

Prerequisite: PSY 311. This course will examine the dimensions, theories, and empirical findings in psychopathology. Topics covered include: the concept of abnormality, problems and schemes of classification, and theories of etiology, classification, and treatment for selected disorders.

PSY 412
COMMUNITY PSYCHOLOGY

3, 3/0; Sp 94

Prerequisite: PSY 101 plus six additional hours of psychology; PSY 411 is recommended. This course provides a systematic coverage of the theoretical and empirical literature regarding community mental health. Topics covered include: historical perspectives on the community mental health movement, assessment of psychological dysfunction, levels of evaluating institutional change, consultation, and program evaluation.

PSY 415
COMPETENT INFANT

3, 3/0; F 93, 94

Prerequisite: PSY 355. An examination of the psychological world of the normal human infant. Topics covered include: biological processes of development, prenatal development, birth, physical and psychological characteristics of the neonate, research methods with newborns, infant speech and language, cognition and learning in infancy, infant interactions and socialization, sex differences in behavior, and theoretical models of early development.

PSY 416
ABNORMAL CHILD PSYCHOLOGY

3, 3/0; F 94

Prerequisite: Nine hours of psychology, including PSY 355; PSY 411 recommended. This course will focus on the significant issues and problems related to child psychopathology. Topics covered include: the taxonomy of childhood behavior disorders, role of the family, assessment of psychopathology in children, mental retardation, aggressive behavior, poverty and psychopathology, learning disorders, neurosis in children, childhood psychosis, developmental disorders, and therapeutic approaches.

PSY 417
THE ATYPICAL INFANT

3, 3/0; Sp 94, 95

Prerequisite: PSY 355. An introduction to the psychological effects of developmental delay in infants. Screening, assessment and intervention of high-risk infants will be surveyed. Topics covered include: definition of at-risk and high-risk infants, biological traumas and defects, prenatal traumas, birth and perinatal traumas, psychological crises in infancy, psychological assessment of developmental delay in newborns and infants, psychoeducational treatment of

high-risk infants and their families, psychological issues of parenting the high-risk infant. Students will be required to complete a two-week practicum in a community program serving high-risk infants.

PSY 421
PHYSIOLOGICAL PSYCHOLOGY

3, 2/2; F 93, 94

Prerequisite: PSY 101 plus 12 additional hours of psychology and/or biology. This course describes the brain, nervous system, and endocrine system and their relationship to animal and human behavior. Topics covered include: psychosurgery, and the physiological basis of language, intelligence, emotion, motivation, learning, sexuality, abnormal behavior, perception, and motor behavior.

PSY 427
ADULT DEVELOPMENT AND AGING II

3, 3/0; F 93, 94

Prerequisite: PSY 327; PSY 304 recommended. This course is a continuation of PSY 327 and will critically review and evaluate the methodology and theory in the psychology of adult development and aging. An in-depth analysis of the empirical literature pertaining to adult and elderly intelligence, learning, memory, personality and social functioning will be provided.

PSY 430
PSYCHOLINGUISTICS: LANGUAGE
STRUCTURES AND PROCESSES

3, 3/0; Sp 95

Prerequisite: PSY 101 plus six additional hours of psychology; PSY 340 recommended. This course is a systematic coverage of the theoretical and empirical literature regarding human language processes. Topics covered include: animal versus human communication, language acquisition, grammar, sentence production and comprehension, and the relationship between language and cognition. This course will integrate language processes into the general framework of cognitive psychology.

PSY 432
HUMAN MOTIVATION AND EMOTION

3, 3/0; Sp 94

Prerequisite: Nine hours of psychology including PSY 304. This course examines the concept of motivation and considers the fundamental and empirical and logical basis for its postulation and its use in psychological explanations of animal and human behavior. Emphasis is placed on what determines motives and how motivational processes interact with other psychological processes.

PSY 441
INTRODUCTION TO
NEUROPSYCHOLOGY

3, 3/0; F 93, 94

Prerequisite: PSY 101 plus six additional hours of psychology. Human neuropsychology concerns itself with the study of relationships between human brain function and behavior.

Students will be introduced to the functional anatomy of the brain and to the experimental and clinical techniques employed by the neuro-psychologist to uncover brain-behavior relationships. Students will be shown how observation of individuals with abnormal or injured brains provide understanding of normal human behavior.

PSY 445
HISTORY AND SYSTEMS OF
PSYCHOLOGY

3, 3/0; 1993-95

Prerequisite: Nine hours of psychology or six hours of psychology and PHI 309. This course provides a survey of the history of the emergence of modern psychology from pre-Socratic thought to the present day. An emphasis is placed upon a systematic examination of psychology's historical roots as expressed in contemporary theories and models.

PSY 450
EXPERIMENTAL PSYCHOLOGY I:
INTRODUCTION TO EXPERIMENTAL
PSYCHOLOGY

3, 2/2; 1993-95

Prerequisite: Nine hours of psychology including PSY 306. An introduction to laboratory investigation in the behavioral sciences. Topics covered include: higher order correlational and parametric statistics, various approaches to research, and the interpretation and communication of research findings. Laboratory experiences are included to illustrate course content. Students will be required to complete at least five laboratory exercises and reports. *Required for psychology majors.

PSY 453
EXPERIMENTAL PSYCHOLOGY II:
METHODS IN SOCIAL PSYCHOLOGY

3, 2/2; F 93

Prerequisite: PSY 450; PSY 325 recommended. This course is a continuation of PSY 450 and focuses on the research methods used in social psychology. Topics covered include: artifacts in social psychological research, the rights of subjects and the responsibilities of experimenters, and the problem of generalizing results to the "real" world. Students will be required to complete at least four research exercises and reports, including the formulation of at least one original experimental design.

PSY 454
EXPERIMENTAL PSYCHOLOGY II:
METHODS IN PHYSIOLOGICAL AND
COMPARATIVE PSYCHOLOGY

3, 2/2; Sp 94

Prerequisite: PSY 450; PSY 321 or PSY 421 recommended. This course is a continuation of PSY 450 and focuses on the research methods used in comparative and physiological psychology. Topics covered include: principles of behavioral observations, quantification of behavior, methods employed in the investigation of the nervous system, surgical and histological tech-

niques, and the application of physiological methods in the understanding of behavior. Students will be required to complete at least four research exercises and reports, including the formulation of at least one original experimental design.

PSY 455
EXPERIMENTAL PSYCHOLOGY II:
METHODS IN COGNITION

3, 2/2; F 94

Prerequisite: PSY 450; PSY 340 recommended. This course is a continuation of PSY 450 and focuses on the research methods used in studying cognitive processes. Topics covered include: short- and long-term memory, language, concept formation, and attention and thinking. Students will be required to complete at least four research exercises and reports, including the formulation of at least one original experimental design.

PSY 456
EXPERIMENTAL PSYCHOLOGY II:
METHODS IN SENSATION AND
PERCEPTION

3, 2/2; Sp 95

Prerequisite: PSY 450; PSY 308 recommended. This course is a continuation of PSY 450 and focuses on the research methods used in sensation and perception. Topics covered include: classic psycho-physical methods as well as recent advances in methodology. Emphasis will be placed on the visual modality. Students will be required to complete at least four research exercises and reports, including the formulation of at least one original experimental design.

PSY 457
EXPERIMENTAL PSYCHOLOGY II:
METHODS IN CLINICAL PSYCHOLOGY

3, 2/2; F 94

Prerequisite: PSY 450; PSY 411 recommended. This course is a continuation of PSY 450 and focuses on methods and analyses of data used in clinical research. Topics covered include: history of clinical psychology, ethical issues, special problems in clinical measurement and research, statistical procedures, the use of tests, case study and group designs, analogues, social interaction measures, and genetics. Students will be required to complete at least four research exercises and reports, including the formulation of at least one original experimental design.

PSY 458
EXPERIMENTAL PSYCHOLOGY II:
METHODS IN DEVELOPMENTAL
PSYCHOLOGY

3, 2/2; Sp 95

Prerequisite: PSY 450; PSY 355 recommended. This course is a continuation of PSY 450 and focuses on the research methods used in studying developmental psychology. Topics covered include: methods used in studying life-span development in the areas of perception, learning, personality, cognition, and attention. Students will be required to complete at least four

research exercises and reports, including the formulation of at least one original experimental design.

PSY 466 PERSONNEL PSYCHOLOGY

3, 3/0; Sp 94

Prerequisite: PSY 365 or PSY 367 plus 42 additional college credits. This course will provide students with basic coverage of problems, tools, and strategies involved in applying psychological principles to personnel selection, placement, training and assessment in organizations. Topics covered include: the roles of personnel psychologists, job analysis, developing performance criteria for jobs, performance appraisal, interviewing, the uses of employment testing, predicting job success, training programs, and social and ethical issues in personnel psychology.

PSY 470 ENVIRONMENTAL PSYCHOLOGY II

3, 3/0; Sp 94

Prerequisite: PSY 370 and permission of instructor. This course is a continuation of PSY 370, but at a considerably advanced level. Topics covered include: theory building in the area of physical-environmental behavior relations, innovative and unobtrusive measures, individual human needs in the physical environment, and basic processes and their relationship to the physical environment.

PSY 472 SEMINAR ON PSYCHOLOGY

3, 3/0; 1993-95

Prerequisite: Experimental Psychology II or 15 hours of psychology and permission of the instructor. The specific area of psychology selected for study varies from one seminar course to another. Topical areas for each course are announced prior to student enrollment. Coursework involves the study of basic theoretical principles and empirical laws of different content areas. Students are expected to make individual presentations on relevant topics. *Required of psychology majors.

PSY 480 PSYCHOTHERAPY: THEORY, RESEARCH AND PROCEDURES

3, 3/0; F 94

Prerequisite: Nine hours of psychology including PSY 311; PSY 411 recommended. This course will examine a variety of issues pertaining to psychotherapy. Emphasis will be placed upon integrating theory, research, and clinical applications. Topics covered include: history of psychotherapy, relationship of psychotherapy to the scientist-professional model in clinical psychology, major parameters of the therapeutic enterprise, ethical considerations in psychotherapy, and systems of individual, group, family, and marital psychotherapy.

PSY 481 PSYCHOLOGICAL TESTS AND MEASUREMENTS

3, 2/2; Sp 94, 95

Prerequisite: Nine hours of psychology including PSY 306. This course will discuss many of the issues and problems surrounding psychological testing. Topics covered include: test reliability, validity, construction, administration, norms, and interpretation. Students will examine the most commonly used intelligence, personality, and other psychological tests. Limited practicum experiences are also provided.

PSY 488 INTERNSHIP

Credit varies; 1993-95

Prerequisite: Approval of the faculty supervisor must be obtained prior to registration.

PSY 495 PROJECT

Credit varies; 1993-95

Prerequisite: Approval of the faculty supervisor must be obtained prior to registration.

PSY 496 HONORS THESIS I

3, 0/3; 1993-95

Prerequisite: PSY 450, 72 additional hours of college credit and permission of instructor prior to registration. The honors psychology student will initiate the research that will later be formally presented in thesis form. Students will complete extensive library research in their areas of interest, and will present a formal research proposal (oral and written) to their supervisor and honors thesis committee. Any necessary research will also be carried out. *Required of students in the department honors program.

PSY 498 HONORS THESIS II

3, 0/3; 1993-95

Prerequisite: PSY 496 with a minimum grade of B and permission of instructor prior to registration. The honors psychology student will carry out the research proposed in PSY 496 and submit a formal thesis in written form. The student will also orally defend his/her work before the faculty supervisor, thesis committee, and interested faculty members. *Required of students in the department honors program.

PSY 499 INDEPENDENT STUDY

Credit varies; 1993-95

Prerequisite: Approval of faculty supervisor must be obtained prior to registration.

Recreation

Offered by the Health, Physical Education and Recreation Department
DR. DONALD E. BARR, Chairperson
Houston Gym 205

Also see Health, Physical Education, and Recreation listings.

REC 204 PRINCIPLES AND PRACTICES OF RECREATION LEADERSHIP

3, 3/0; offered based on staff availability

Problems and practices in organization and leadership of school and/or community recreation programs; history; principles; conducting specific activities; area and facilities; programming; modern trends.

REC 306 ORGANIZATION AND ADMINISTRATION OF INTRAMURAL SPORTS

3, 3/0; F 94, 95

Prerequisite: Sophomore. A critical analysis of organization and administration of intramural sports program.

REC 495 PROJECT

REC 499 INDEPENDENT STUDY

Science Education

Offered by the Earth Sciences and Science Education Department
DR. JILL K. SINGER, Chairperson
Science Building 271

These interdisciplinary science courses cut across and integrate scientific knowledge from a wide variety of disciplines. They are designed to improve the liberal education and scientific awareness of non-science majors and place emphasis on scientific literacy and scientific process as well as scientific understanding. Also included here are science courses for prospective science teachers, and courses in the environmental sciences minor.

SCI 100 CONTEMPORARY SCIENCE

3, 3/0; 1993-95 CM

An introduction to the role of science in contemporary society. Emphasis on the process of science for solving problems and organizing information to understand science and technology. Contemporary issues and case studies will be used to illustrate the methods of science.

SCI 105 PHYSICAL SCIENCE FOR NON-SCIENCE STUDENTS

3, 3/0; CM

An activity-centered approach to the physical sciences. Extensive use of materials designed for students not intent on careers in science but interested in a non-technical analysis of the procedure of science.

SED 200 FIELD EXPERIENCE IN SECONDARY SCIENCE EDUCATION

3, 2/2; F 93, 94

Provides classroom and field experience designed to help students make a better-informed decision if they are contemplating a career in secondary science education. For students the course provides important background for their roles as both citizens and parents. *Required for all secondary science education majors.

SCI 231 POLLUTION, THE ENVIRONMENT AND SOCIETY

3, 2/2 or 3/0; 1993-95 GCM

From ecology to global warming, population to pesticides, a survey of the scientific and societal implications of present-day global environmental problems. The causes, effects and possible solutions of world-wide environmental problems with implications from conservation, chemistry, health and sociology. *Option in env. sci. minor.

SCI 232 ENERGY, THE ENVIRONMENT AND SOCIETY

3, 2/2 or 3/0; GCM

An examination of regional and global energy use and issues. Includes environmental, economic, individual and societal perspectives. Major energy alternatives will be discussed.

SED 307 TECHNIQUES FOR TEACHING LABORATORY ACTIVITIES IN THE SECONDARY SCIENCE CLASSROOM

3, 0/6

Prerequisite: Twenty-four credit hours in science. Science Education majors will learn selected laboratory techniques necessary to teach New York Regents or non-Regents secondary science classes. Topics for each content area include ordering and maintaining supplies/equipment, storage, safety, preparation of materials, lab set-up, and measurement techniques.

SED 308 METHODS AND MATERIALS IN TEACHING SECONDARY SCHOOL SCIENCE

3, 2/2; 1993-95

Prerequisite: EDF 303, EDF 403, EDU 416, SST/SED 200; (may be concurrent). Cumulative 2.0 or higher average; approval by Earth Sciences and Science Education chairperson.

Components of the teaching-learning situation in a science classroom. Construction of components for an effective teaching-learning situation. Also, the interrelationships of secondary science programs. *Required in all secondary science (7-12) programs, and the elementary education extension in science program (7-9).

SCI 311 PHYSICAL SCIENCE FOR ELEMENTARY SCHOOL TEACHERS

3, 3/0; EM

Prerequisite: A college-level course in a science other than biology. An activity-oriented course for elementary preservice teachers. In addition to practical demonstrations of appropriate physical science concepts, student will "do" physical science activities of elementary school age children. *Option in el. ed., science concentration.

SCI 312 LIFE SCIENCE FOR ELEMENTARY SCHOOL TEACHERS

3, 3/0

Prerequisite: A college-level biology course. An activity-oriented course for elementary preservice teachers. Reviews science content from State Elementary Science Syllabus. Also includes curriculum and pedagogy as related to the life sciences. *Option el. ed., science concentration.

SCI 313 EARTH SCIENCE FOR ELEMENTARY SCHOOL TEACHERS

3, 3/0; EM

Prerequisite: A college-level course in earth science. Activity-oriented course for students interested in elementary school teaching. Practical demonstrations of concepts in geology and meteorology. Students will "do" earth science activities of elementary school age children. *Option in el. ed., science concentration.

SCI 323 SCIENCE AS INQUIRY

3, 3/0; EM

The procedures of science as a search for knowledge of natural phenomena; comparison with other methods of inquiry; implications for non-scientists. *Option in el. ed., science concentration.

SCI 327 THE DEVELOPMENT AND IMPACT OF ATOMIC SCIENCE

3, 3/0; 1993-95 CM

The development of atomic science in the twentieth century will reveal the dynamic interaction of the atom with humanistic activity.

SCI 335 OUTDOOR SCIENCE EDUCATION

3, 2/2; EM

Prerequisite: An introductory environmental science course. An interdisciplinary approach to outdoor science education. Basic concepts of natural history in classroom and field will be covered. Will include an extended field trip to

the college camp. *Option in environmental science minor.

SCI/GES 337 ASTRONOMY AND THE ASTRONOMERS TO 1650

3, 3/0; EM

Prerequisite: GES 131 or equivalent. The saga of man's developing understanding of his universe, beginning with pre-historic efforts to predict celestial events, continuing through Grecian speculation on the nature of things, and culminating in the heliocentric revolution sparked by Copernicus and supported by Galileo.

SCI/GES 338 ASTRONOMY AND THE ASTRONOMERS FROM 1650 TO THE PRESENT

3, 3/0; EM

Prerequisite: GES 131 or equivalent. A study of the men and women, the ideas and the forces which brought us from the heliocentric mechanical universe of Copernicus and Newton to an immense expanding universe of galaxies, quasars, and black holes.

SCI 340 SCIENTIFIC STUDIES IN ENVIRONMENTAL POLLUTION

3, 2/2; F 93, F 94 EM

Prerequisite: Nine hours of science, at least three hours in an environmental science course or permission of the instructor. A scientific, in depth, examination of selected environmental pollution. Each semester a variety of types of pollution will be explored. A field-based project will be used to illustrate data collection techniques. *Option in env. sci. minor.

SED 408 PRACTICE TEACHING SCIENCE IN THE SECONDARY SCHOOL

12, 5/30; 1993-95

Prerequisite: SED 308 with 'C' or better; cumulative 2.5 grade point average; successful completion of English and mathematics basic skills competency; if referred, satisfactory completion, or exemption from SLA 100, Student Speech Clinic; approval by Earth Science and Science Education Department Chair. Teaching under supervision at least five days a week for two eight-week periods (6 credits each); individual and group instruction; planning unit teaching; classroom management and routine procedure; audio-visual aids; evaluation procedures; participation in total school program. *Required for upperclassmen in all secondary science programs.

ENS 410 SEMINAR IN ENVIRONMENTAL STUDIES

3, 3/0; Sp 94, Sp 95

Prerequisite: Completion of all the courses for the environmental science minor (may be concurrent) or instructor consent. Within traditional seminar setting, the student will explore several works of classical environmental literature.

ture, update the status of selected state and federal environmental legislation, and research and report on an environmental issue of interest.

SCI 410 SCIENCE IN THE ELEMENTARY SCHOOL CURRICULUM

3, 3/0

Prerequisite: Junior. Purposes and scope of science in the elementary school; selection of teaching objectives, analysis of the objectives and presentation of teaching-learning activities that are favorable to achieving the objectives.

SCI 495 PROJECT

1-3, 0/2-6; 1993-95

Prerequisite: Approval of faculty sponsor must be secured prior to registration. Environmental, energy, science/society, and science education related areas.

SCI 499 INDEPENDENT STUDY

3-6, 0/6-12; 1993-95

Prerequisite: Approval of faculty sponsor must be secured prior to registration. Environmental, energy, science/society, and science education related areas.

Social Studies Education

Offered by the History and Social Studies Education Department
DR. MONROE FORDHAM, Chairperson
Classroom Building C205

SST 102 PROBLEM-SOLVING IN THE SOCIAL STUDIES

3, 3/0; 1993-95 CS

The methods of interdisciplinary problem-solving and emphasis upon the application of the method to selected contemporary problems.

SST/GEG/SOC 199 SOCIAL SCIENCE COMPUTER APPLICATIONS

3, 3/0; offered based on staff availability

Prerequisite: CIS 101 or equivalent or permission of instructor. A hands-on introduction to the application of computers to applied social research problems including a review of past practices, current uses, and future trends. Students will become involved in the computer analysis of data for the purpose of developing insights into the ways people can use computers to perform needed social improvements in society.

SST 200 FIELD EXPERIENCE IN SECONDARY EDUCATION

3, 3/0; 1993-95

Provides classroom and field experience designed to help the student make a better informed decision if he is contemplating a career in secondary social studies education. For the general student the course provides important background for his role as both a citizen and parent. *Required for social studies education majors.

SST 303 TECHNIQUES FOR TEACHING SOCIAL STUDIES IN THE SECONDARY CLASSROOM

3, 3/0; 1993-95

Prerequisite: Six (6) hours in professional education courses. Attention focuses on the problems of the teacher, techniques for teaching, analyzing classroom behavior, self-evaluation and peer evaluation of teaching practices. To be taken concurrently with SSE 409, Student Teaching of Social Studies in the Secondary School.

SSE 309 METHODS AND MATERIALS IN TEACHING SECONDARY SOCIAL STUDIES

3, 3/0; 1993-95

Prerequisite: Junior; completion of EDF 303; cumulative average of 2.5 or higher. A study of the purposes, goals, curricular materials, methodologies and instructional techniques of social studies education. A major emphasis will be for the student to develop a competency in designing and practicing instructional strategies drawn from the methodologies and of the curricular materials of social studies education and the disciplines of history and the social sciences.

SST 355 SOCIAL STUDIES SEMINAR IN CONFLICT RESOLUTION

3, 3/0; offered based on staff availability.

There are now many more strategies for resolving conflicts than are generally used. These strategies will be reviewed with particular emphasis upon international and interpersonal problems. Coursework will be drawn from political science, law, sociology, and social psychology.

SST 370 THE MICROCOMPUTER IN THE SOCIAL STUDIES CLASSROOM

3, 3/0

A course designed to familiarize students with relevant software and methodology for its utilization in the social studies classroom. All students will have the opportunity to participate on the microcomputer.

SSE 404 SEMINAR IN ELEMENTARY SOCIAL STUDIES

3, 3/0; offered based on staff availability

Prerequisite: EDU 210 and EDU 352. To help the student to utilize more efficiently his social science preparation for the purpose of early secondary and elementary social studies instruction. The student will make decisions concerning his tentative positions, the purpose of social studies and the available alternatives to teachers in the areas of methodology and curriculum.

SSE 409 STUDENT TEACHING OF SOCIAL STUDIES IN THE SECONDARY SCHOOLS

12, 30/0; 1993-95

Prerequisite: Minimum 2.5 cumulative GPA; minimum 2.5 GPA in major; grade of "C" or higher in SSE 309; must have satisfied English and math competency requirements; if referred, satisfactory completion or exemption from SLA 100; all other coursework must be completed prior to student teaching. Teaching under supervision five days per week; individual and group instruction; daily and long-view planning; unit teaching; classroom management and routine procedures; audio-visual aids; community resources; record keeping, evaluation procedures; participation in total school program. *Required of juniors or seniors majoring in social studies.

SST 450 INTERDISCIPLINARY FIELD RESEARCH SEMINAR IN SOCIAL STUDIES METHODS

3, 3/0

Prerequisite: 6 credits in upper-division social science courses. A study of the nature of interdisciplinary research, the design, fielding, and analysis of social surveys. Particular attention is paid to school settings and the attitudes and relationships of the community to policy decisions regarding the format of secondary school social studies curriculum.

SST 495 PROJECT

See coordinator or pertinent staff.

SST 499 INDEPENDENT STUDY

See coordinator or pertinent staff.

Social Work

Offered by the Social Work Department
ELLEN T. KENNEDY, Chairperson
Classroom Building, C115

SWK 105 INTERPERSONAL RELATIONS

3, 3/0; 1993-95 ET

This course examines the process by which individuals attempt to reconcile their needs with the needs and demands of significant others in various settings. *Required for all social work majors.

SWK 220 INTRODUCTION TO SOCIAL WORK

3, 3/0; 1993-95 CT

A survey of the profession of social work and settings in which social workers work. This course is designed to provide students with a basis for reaching career decisions regarding interest in a social work career. The course is an introduction to the social work program, a professional social work education program preparing students for beginning professional social work practice. Volunteer work required. *Required for all social work majors.

SWK 307 HUMAN BEHAVIOR AND THE SOCIAL ENVIRONMENT I

3, 3/0; 1993-95

Prerequisite or Corequisite: BIO 100. A study of life span development in preparation for learning the skills of case assessment and case planning. The course establishes for the social work student the requisite knowledge of working with individuals as clients. *Required for all social work majors. Junior status required.

SWK 308 HUMAN BEHAVIOR AND THE SOCIAL ENVIRONMENT II

3, 3/0; 1993-95

Prerequisite: SWK 307. The requisite knowledge for social work students in preparation for learning the skills of case assessment and case planning is presented. The family, small group, organization and community as the potential social work client are the subjects of the course. *Required for all social work majors; junior status required.

SWK 310 SEXUALITY IN HUMAN DEVELOPMENT

3, 3/0; F 93, 94 ET

A course for future human service professionals which examines and analyzes human sexuality as part of human development. *For juniors and seniors only.

SWK 317 RESEARCH IN SOCIAL WORK

3, 3/0; 1993-95

The application of research methodologies and evaluative techniques to the field of social work. *Required of social work majors. Upper Division status.

SWK 319 SOCIAL DYNAMICS OF POVERTY

3, 3/0; 1993-95 DCT

An analysis of the effects of poverty upon individual, family, and community development reflected in various cultural groupings including American Indian, Appalachian White, Blacks,

Migrant Workers, and Puerto Ricans. This course is designed for students working or planning to work with people in poverty. *Required for social work majors. Juniors and senior standing.

SWK 320 ORGANIZATION OF COMMUNITY SERVICES

3, 3/0; 1993-95

Prerequisite: SWK 220. A survey of the growing, changing, and complex network of community social service agencies established to help people solve their problems and reach personal goals. This course is designed primarily for social work, urban studies, criminal justice, and other students seeking an understanding of social service agencies, their mandates, purpose, structure, functions, and funding. *Required for social work majors.

SWK 321 THE ELDERLY AND SOCIAL SERVICES

3, 3/0; offered based on staff availability

Prerequisite: SWK 307 or equivalent. This course is designed to introduce junior and senior students to the needs and services for the elderly. The course will include knowledge building about services and programs for the aging, policy issues regarding the aging such as health, housing and finances. The physical, emotional, social and economic needs of the elderly will be studied as well. Some intervention strategies for working with this population will be presented also.

SWK 335 MENTAL HEALTH AND SOCIAL WORK

3, 3/0; offered based on staff availability

Prerequisites: Junior/senior status; PSY 101. This course introduces students to theoretical perspectives concerning mental health and mental illness. The history of the mental health movement, institutional and community mental health services, and the roles and functions of social workers and other personnel in the mental health system are fundamental course topics.

SWK 337 SOCIAL WORK WITH GROUPS

3, 3/0; offered based on staff availability

Prerequisite: SWK 105 or equivalent. A survey of group work in a variety of social work settings. The course will broaden the students' theoretical knowledge of group dynamics and group leadership. The focus is on the application of intervention strategies and skills necessary for leading groups. Students will be exposed to a variety of types of groups utilized by social workers including community action groups, work groups, activity groups, discussion groups, committees, work teams, educational groups, and therapy groups.

SWK 345 CHILD WELFARE SERVICES

3, 3/0; offered based on staff availability

This course will present child welfare as a field of practice in social work. It will give the student a

broad view of the field including an understanding of the historical and philosophical bases; an awareness of the impact of culture, ethnicity, and race on practice, and specific knowledge about the current delivery of services and the skills needed to practice in the field. Upper division status.

SWK 346 CHILD ABUSE AND NEGLECT

3, 3/0; offered based on staff availability ET

A survey of the major issues in child abuse and neglect from a social work viewpoint. In addition to presenting the nature of abuse and neglect, the actual incidence, and the workings of the current child protection system, the course will address intervention and treatment issues, as well as the role of other disciplines and the larger society.

SWK 419 SOCIAL WELFARE POLICY

3, 3/0; 1993-95

Prerequisite: SWK 320, concurrent with field. Consideration of the institutional response of American social welfare to individual and societal issues, problems, through a study of current issues, policies, and programs viewed in their historic and philosophic context, with emphasis on analysis of alternative policy choices affecting individuals, families, and communities.

SWK 422 INTERVENTIVE METHODS I

3, 3/0; 1993-95

Prerequisite: SWK 105, 220, 307. A course for students preparing for careers in community/social services, covering principles, concepts, and methods of generalist practice of social work and community mental health and their application in communities, agencies, and institutions. *Required for social work majors. Restricted to social work majors.

SWK 423 INTERVENTIVE METHODS II

3, 3/0; 1993-95

Prerequisite: SWK 308, 422. A course designed for students to develop skills based on the theory and application of intervention methods utilized by social service and mental health professions. Emphasis will be placed on application of selected approaches with reference to specific problems and client systems, including individuals, groups and communities. *Restricted to social work majors.

SWK 425 SOCIAL WORK WITH FAMILIES

3, 3/0; offered based on staff availability

Prerequisite: SWK 308 and SWK 422. This course will focus on the family and family intervention by social workers. The course will present families in specialized problem contexts to help the student integrate family theory with practice principles.

**SWK 485
SENIOR SEMINAR**

3, 3/0; offered based on staff availability
Intensive analysis of selected topics in SWK.

**SWK 493-494
FIELD INSTRUCTION**

12, 3/14; 1993-95
Prerequisite: SWK 422 for SWK 493; SWK 493 for SWK 494. Supervised field experience in social services and mental health agencies in Buffalo and environs which meet standards of preparation for professional practice. Courses taken two consecutive semesters. On campus integrative seminar. *Restricted to social work majors.

**SWK 495
PROJECT****SWK 499
INDEPENDENT STUDY**

Sociology

Offered by the Sociology Department
DR. ROSALYN A. LINDNER, Chairperson
Classroom Building B307

**SOC 100
INTRODUCTION TO SOCIOLOGY**

3, 3/0; 1993-95 CS
An introduction to the study of human society, its culture, institutions, processes, and change, including an examination of socialization, relationships between and among individuals and groups in society. *This course is equivalent to a prerequisite for all other undergraduate courses in sociology and is required of all sociology majors.

**SOC/SST/GEG 199
SOCIAL SCIENCE COMPUTER APPLICATIONS**

3, 3/0; Sp 94, 95
A hands-on introduction to the application of computers to applied social research problems including a review of past practices, current uses, and future trends. Students will become involved in the computer analysis of data for the purpose of developing insights into the ways people can use computers to perform needed social improvements in society.

**SOC 210
INTRODUCTION TO WOMEN'S STUDIES**

3, 3/0; Sp 94, 95 DCS
An interdisciplinary analysis of women in society. Students will be exposed to women's issues in relation to the social sciences, biology, psychology, and the arts, and will be encouraged to examine critically the development of modern societies in light of the emergence of women's issues.

**SOC 240
ANALYZING SOCIAL PROBLEMS**

3, 3/0; Sp 94, 95 DCS
Prerequisite: SOC 100. The analysis of several major social problems will be selected according to faculty and student needs and interests. A variety of approaches, techniques, and theories will be used in an analysis of selected social problems.

**SOC 300
METHODS IN SOCIAL RESEARCH**

3, 3/0; 1993-95
Prerequisite: SOC 100, SOC 301. The nature of scientific evidence; induction and deduction; the application of the scientific methods to sociological data; the use of statistics, and other means of data collection; case histories, narrative and descriptive methods; methods of writing for publication; use of the social materials from journals and books as illustrative material.

**SOC 301
SOCIAL STATISTICS**

4, 4/0; 1993-95
Prerequisite: SOC 100. Statistical methods and reasoning will be used to analyze and clarify sociological information.

**SOC 310
SOCIOLOGY OF SEX ROLES**

3, 3/0; F 93, 95 DCS
Prerequisite: SOC 100. A critical examination of the roles women and men play in various societies, with particular emphasis on changes in contemporary America. Social statuses of women and men will be analyzed historically, and biologically, with particular attention given to the sociological implications of sexual inequality in the economy and political systems, as well as in marriage and family relationships.

**SOC 320
SOCIOLOGY OF THE FAMILY**

3, 3/0; 1993-95 CS
Prerequisite: SOC 100. Family as a social institution; its historical development, function, and structure; cross-cultural comparison; subcultural analysis of the contemporary American family system. Discussion of alternatives to living in families and of sex roles and sex role change.

**SOC/AAS 321
THE BLACK FAMILY IN AMERICA**

3, 3/0; S 94, 95 DES
Prerequisite: SOC 100. May be used for Sociology or Afro-American Studies at the choice of the student. An exploratory study of the effects of the American social institution upon Black American family life, with emphasis on inter-familial relations.

**SOC 322
SOCIOLOGY OF CHILDHOOD AND YOUTH**

3, 3/0; F 93, 94 ES
Prerequisite: SOC 100. An analysis of the socialization of children and adolescents as they

emerge into adulthood. The impact of the family, the school, peer groups and mass media, subcultural differences are examined. Intergenerational conflict and other social problems of childhood and youth are analyzed.

**SOC 323
SOCIOLOGY OF EDUCATION**

3, 3/0; F 94 ES
Prerequisite: SOC 100. An examination of the social organization of education in the U.S. and elsewhere with emphasis on the role of education in preserving and changing our culture; the school as a social system; non-school factors that influence educational aspirations and achievement; the role of the teachers, student subcultures, and administrative behavior patterns on student performance in school; changing and alternative educational forms; and changing relationships in colleges and universities.

**SOC 324/HPR 319
SOCIOLOGY OF SPORT**

3, 3/0; F 93, 94 ES
Prerequisite: SOC 100. The primary purpose of this course is to attempt a coherent and integrated application of the sociological perspective(s) to sport. Focus is on the social organization of sports-related activities and implies an interest in formal and informal organizational networks of social statuses, norms, goals, and values. Sport and related phenomena will be studied using theoretical frameworks and empirical tools of the social sciences.

**SOC 330
SOCIAL PSYCHOLOGY**

3, 3/0; 1993-95 CS
Prerequisite: SOC 100. Motivation and nature of attitudes; attitude change and stability; interpersonal perception and behavior; role prescriptions and role conflict; prejudice; conflict resolution.

**SOC 331
SOCIOLOGY OF GROUP DYNAMICS**

3, 3/0; Sp 94, 95 ES
Prerequisite: SOC 100. An examination of the social structure and social dynamics of social groups including such essential features as the division of labor, types of leadership, communication and authority structures, social conflict, and social control mechanisms. Special attention will be given to the relationship of the individual to the group, comparisons of different types of "natural" groups such as family, peers, work groups, and the use of "experimental" groups to investigate various aspects of group life.

**SOC 333
SOCIAL MOVEMENTS**

3, 3/0; F 93, 94 DES
Prerequisite: SOC 100. The analysis of various social movements. Relationships between individual discontent and social movements. Functional and dysfunctional aspects of different types of social movements.

**SOC 340
SOCIOLOGY OF THE CITY**

3, 3/0; Sp 94, 95 ES
Prerequisite: SOC 100. The social organization of urban life in the U.S. and elsewhere, with emphasis on the growth and development of cities and metropolitan areas; life styles in the city and suburbs; the relationship of power and social control to urban stratification and the distribution of wealth; racial and ethnic distribution and relationships in urban settings; such urban problems as poverty, blight, crime and violence, and urban planning and redevelopment.

**SOC 341
SOCIOLOGY OF HUMAN ECOLOGY**

3, 3/0; Sp 95
Prerequisite: SOC 100. The study of interaction of man and his environment and the effect of his interaction on the quality of living, especially upon such social problems as poverty, crime, physical and mental illness, and various types of pollution.

**SOC 350
POWER, CLASS, AND INEQUALITY**

3, 3/0; Sp 94, 95 DES
Prerequisite: SOC 100. Historical and contemporary social inequality in the U.S. Survey of research areas such as income distribution, social structure in consciousness, inequality and the state, and race and gender inequality. Contrasting theoretical interpretations of the origins and significance of social inequality. Analysis of current trends.

**SOC 351
SOCIOLOGY OF RACE AND ETHNICITY**

3, 3/0; F 94, 95 DES
Prerequisite: SOC 100. The analysis of the status of racial and ethnic groups in American and other societies; forms, causes, and effects of prejudice, and ethnic conflicts and the changing relationships of these groups to the larger society.

**SOC 352
THE AGED IN URBAN SOCIETY**

3, 3/0; F 93, 94 ES
Prerequisite: SOC 100. The changing status of the aged in urban society with emphasis on the U.S. Differing status roles of aged women and men. The aged in different cultures and subcultures. The problems of the aged including poverty, physical decline and socio-psychological difficulties. Prejudice and discrimination against the aged. Public and private services to the aged. Aging in different living environments including retirement communities and nursing homes.

**SOC 360
SOCIOLOGY OF WORK**

3, 3/0; F 93, 94 CS
Prerequisite: SOC 100. Developments in work and workers' movements in modern America. Changes in the labor process. Discussion of such contemporary problems as occupational health

and safety, deskilling, the disappearance of occupational cultures, and the upheaval caused by capital flight and plant closings.

**SOC 361
INDUSTRIAL SOCIOLOGY**

3, 3/0; Sp 95 ES
Prerequisite: SOC 100. The modern factory, with emphasis on the workers' point of view. The social relations of industrial work; co-workers, supervision, union, and management. The social and philosophical origins of modern industrial organization in the work of Taylor. Contemporary developments such as quality of work life programs, the "Japanese model," and the team concept.

**SOC 362
SOCIOLOGY OF ORGANIZATIONS**

3, 3/0; Sp 94, 95 ES
Prerequisite: SOC 100. The primary purpose of this course is to analyze organizations. This analysis should contribute to our understanding of the world around us, not only in regard to the operation of organizations and their members, but also in terms of the impact of organizations on their environments and the environment's impact on organizations.

**SOC 370
THE SOCIOLOGY OF DEVIANT BEHAVIOR**

3, 3/0; F 93, 94 ES
Prerequisite: SOC 100. The study of deviant behavior in American society, its nature, theoretical perspectives, and societal reactions. Emphasis will be placed on deviance as both an interactive and political process, with special attention paid to the development of deviant identities. Attention will be given to such specific behavior as substance abuse, sexual deviance, crime and delinquency, mental illness and social protest.

**SOC 380
SOCIOLOGY OF CRIME**

3, 3/0; 1993-95 CS
Prerequisite: SOC 100. Crime; controversies concerning its nature, variation, causation, and means of prevention, re-education and the treatment of offenders. Covers theoretical perspectives in social and historical content. Some sections also present data regarding the extent of crime.

**SOC 381
THE SOCIOLOGY OF VIOLENCE**

3, 3/0; Sp 95 ES
Prerequisite: SOC 100. An analysis of various manifestations of violence. Theories of violence will be presented, as well as investigation into such specific topics as child abuse, battered wives, rape, violence in schools, and collective violence. Some insights shall be provided as to various programs which deal with violence.

**SOC 382
SOCIOLOGY OF LAW**

3, 3/0; F 93, 94 ES
Prerequisite: SOC 100. A study of the structure and function of law in the American culture, with particular reference to the legal profession and the situations in which the law arises and has an effect on the social system.

**SOC 383
SOCIOLOGY OF PUNISHMENT AND CORRECTIONS**

3, 3/0; Sp 94, 95 ES
Prerequisite: SOC 100. An inventory and assessment of recent theories and research findings regarding correctional practice. Review of the nature and forms of treatment, obstacles to treatment, and offender typologies.

**SOC 384
SOCIOLOGY OF MASS MURDER**

3, 3/0; Sp 95
Prerequisite: SOC 100. A summary and assessment of sociological findings and theory concerning mass murder (genocide, serial killing, and simultaneous killing). Included are sociological profiles of mass murderers and discussion and analysis of social factors conducive to mass murders.

**SOC 390
JUVENILE DELINQUENCY**

3, 3/0; 1993-95 ES
Prerequisite: SOC 100. The nature of delinquency; delinquency and normal behavior of youth; the search for causes and the state of sociological research in this area; the role of treatment agencies, the children's court, training schools; methods of prevention; use of case histories and field trips.

**SOC 391
SOCIOLOGY OF ADDICTION**

3, 3/0; F 93, 94 ES
Prerequisite: SOC 100. Narcotic addiction as a social problem and a sociological phenomenon. The nature of narcotic addiction, the situations in which this behavior occurs, the characteristics of addicts. Legal, medical, and other efforts made to influence addicts.

**SOC 392
SOCIOLOGY OF SEXUAL BEHAVIOR**

3, 3/0; Sp 94, 95 ES
Prerequisite: SOC 100. A summary and assessment of recent sociological findings concerning sexual behavior as a social process. Review of the nature of various sexual practices, such as homosexuality, sado-masochism, etc., in the light of sociological theory. Examination of the sociological literature concerning sexual behavior with special emphasis on the interactionist approach and the labeling process with reference to sexual conduct.

SOC 393
SOCIOLOGY OF MENTAL ILLNESS

3, 3/0; Sp 95 ES

Prerequisite: SOC 100. An extensive examination of sociological perspectives on mental health and illness, including their social histories. Evaluation of social factors and processes involved in modern approaches to the causes and treatment of mental illness with special attention to problems of definition and diagnosis. Review of research findings in areas of epidemiology, institutional care and control of mentally ill, the career of mental patients, and social issues.

SOC 400
FOUNDATIONS OF SOCIOLOGICAL THOUGHT

3, 3/0; F 93, 94

Prerequisite: SOC 100 and six additional hours in sociology. A study of selected ideas developed over the past century by major sociologists such as: Thomas Malthus, Karl Marx, Herbert Spencer, Charles Cooley, Thorstein Veblen, Max Weber, Emile Durkheim.

SOC 408
CONTEMPORARY SOCIOLOGICAL THEORY

3, 3/0; Sp 94, 95

Prerequisite: SOC 100 and six additional hours of sociology. The significance and uses of sociological theory. The major current approaches to understanding society and social life, such as contemporary Marxism, conflict theory, functionalism, and other order theories, and the interpretive sociologies. The construction and testing of sociological theories.

SOC 415
POPULATION ANALYSIS

3, 3/0; F 93, 94

Prerequisite: SOC 100. A course in applied formal, social, and economic demography. Includes treatment of birth, death, and migration; the social and economic structure of populations, especially in the United States; methods of population measurement and projection; and sources of demographic data. Students will receive hands-on experience in computer analysis of population data using general statistical packages and/or programs customized for use in population analysis.

SOC 420
SOCIOLOGY OF RELIGION

3, 3/0; Sp 95

Prerequisite: SOC 100. Theories in sociology of religion will be examined. Emphasis upon religion and social change; religion in society; church and sect; social class and religion; the role of the minister, priest and rabbi.

SOC 440/PSC 410
POLITICAL BEHAVIOR AND PUBLIC OPINION

3, 3/0; offered based on staff availability

Prerequisite: SOC 100. Conditions of demo-

cratic political behavior; option formation in democratic systems; voting behavior and party affiliation in the United States; political behavior in selected Western European societies. *May be used for sociology or political science at the choice of the student.

SOC 460
SOCIOLOGY OF OCCUPATIONS AND PROFESSIONS

3, 3/0; F 94

Prerequisite: SOC 100. The social structure of American occupations and professions. Careers and career lines examined from the point of view of careerists. The effects of race, social class, and education on career chances. The career viewed as a life process involving changes in cultural values and personal orientation. Mental stress examined as an accompaniment of occupational mobility and shifting role requirements. Emphasis is placed on managerial and professional careers.

SOC 488
INTERNSHIP IN SOCIOLOGY

3, 3/1-15; 1993-95

Prerequisite: Permission of faculty intern supervisor.

SOC 490
SEMINAR IN SOCIOLOGY

3, 3/0; Sp 94, 95

Prerequisite: SOC 100 and SOC 300. Research in selected area(s) of sociology. *Required for B.A. sociology majors with senior standing.

SOC 491
TOPICAL SEMINAR IN SOCIOLOGY

3, 3/0

Prerequisite: SOC 100 and six hours of sociology in a related field. Consent of instructor. This course is intended to permit students and faculty to explore in some depth special problems in sociology. Students wishing such a course should contact a member of the sociology faculty. The faculty member will secure approval for the student to undertake the course from the Sociology Department. The course will then be listed in the Master Schedule with a subtitle indicating the area of special concentration.

SOC 495
PROJECT**SOC 499**
INDEPENDENT STUDY**Speech Language Pathology**

Offered by the Speech Language Pathology and Audiology Department

DR. CHAD NYE, Chairperson
Ketchum Hall 208

SLA 100
STUDENT SPEECH CLINIC

Offered based on need

Speech therapy for students with speech language or voice disorders. Open to all students. Hours by arrangement.

SLA 206
LANGUAGE DEVELOPMENT

3, 3/0; F 93, 94 CT

Analysis of language, its development; understanding how children learn language, speech sounds, words, sentence structure, meaning; factors that influence language development. Not open to majors in speech language pathology and audiology except by advisement.

SLA 220
INTRODUCTION TO COMMUNICATION DISORDERS

3, 3/0; S 94, 95 CT

Classification and cause of speech language and hearing disorders in children and adults. Methods of treatment for minor disorders as well as suggestions for prevention; basic information on normal and abnormal speech, language and hearing development; observation of individuals presenting various communication disorders. Not open to majors in speech language pathology and audiology except by advisement.

SLA 302
CLINICAL PHONETICS

3, 3/0; F 93, 94

Production, acoustic analysis, representation of English (American) speech sounds; application of phonetics to deviation in speech. *Required of speech language pathology and audiology majors.

SLA 303
LANGUAGE ACQUISITION

3, 3/0; Sp 94, 95

Prerequisite: SLA 302. Analysis of child's acquisition of phonology, morphology, syntax, semantics and pragmatics, identifying structure, function of language of normal children at different levels of development; theories of language acquisition compared and contrasted. Required of speech language pathology and audiology majors.

SLA 304
ANATOMY & PHYSIOLOGY OF SPEECH AND HEARING MECHANISMS

3, 3/0; F 93, 94

Anatomy, physiology of normal speech, hearing mechanisms, introduction to possible deviations; embryonic development, neurology, production and reception of oral language. Required of speech language pathology and audiology majors.

SLA 306
SPEECH PATHOLOGY I

3, 3/0; Sp 94, 95

Prerequisite: SLA 302. Introduction to disorders of speech; etiology, diagnosis and remedial procedures for treatment of articulation disorders. *Required of speech language pathology and audiology majors.

SLA 307
SPEECH PATHOLOGY II

3, 3/0; F 93, 94

Prerequisite: SLA 304, 306. Etiology, diagnosis and remediation of organic speech language problems. *Required of speech language pathology and audiology majors.

SLA 312
SPEECH ACOUSTICS AND PERCEPTION

3, 3/0; Sp 94, 95

Prerequisite: SLA 302. A study of the scientific principles underlying the physiology, acoustics and perception of normal speech production as a basis for subsequent understanding of disordered speech. Topics include basic concepts of sound, motor and acoustic theories of speech production, speech perception, instrumentation used to measure speech processes and application to speech pathology. *Required of speech language pathology and audiology majors.

SLA 325
CLINICAL PRACTICUM IN COMMUNICATION DISORDERS

3, 1/4; 1993-95 or concurrent enrollment in SLA 307

Prerequisite: SLA 306, 307. Cumulative average 2.8 or higher in SLA courses. An introduction to the clinical procedures and techniques used in therapeutic intervention for communication disorders. Includes practicum assignment in the Speech-Language-Hearing Clinic supervised by program faculty, coordinated with discussion of the clinical relationship, techniques, selection of instructional aids and materials, and evaluation of clinical skills.

SLA 405
PRACTICUM IN SPEECH AND HEARING

6, 0/25 (1/2 semester); 1993-95

Prerequisite: Thirty hours in speech-language pathology. Cumulative average of 2.8 or higher in all college courses and in major sequence; grade of B or better in SLA 325. Clinical practice in schools under supervision of a teacher of the speech and hearing handicapped. *Required of all seniors in speech language pathology and audiology.

SLA 411
LANGUAGE DIAGNOSIS AND REMEDIATION

3, 3/0; F 93, 94

Prerequisite: SLA 303. Introduction to diagnosis, therapy methods, and children who have language problems; formal, informal testing

procedures reviewed, evaluated. Therapy programs analyzed, designed to fit needs of children. *Required of speech language pathology and audiology majors.

SLA 414
AUDIOLOGY

3, 3/0; F 93, 94

Prerequisite: SLA 304. Hearing and hearing disorders for speech-language pathologists. Anatomy and physiology of the ear and pathologies of the auditory mechanism, decibel notation, and pure tone audiometry and tympanometry. Clinical practicum hours required. *Required of speech language pathology and audiology majors.

SLA 415
AURAL REHABILITATION

3, 3/0; Sp 94, 95

Prerequisite: SLA 414. Aural rehabilitation for speech language pathologists. Identification, referral, habitation techniques for hearing-impaired. Emphasis on auditory training, speech reading. Clinical practicum hours required. *Required of speech language pathology and audiology majors.

SLA 416
STUTTERING

3, 3/0; F 94, 95

Prerequisite: SLA 306. Therapeutic procedures for treatment of stuttering, tests for diagnosis and evaluation of individuals with fluency problems. Observations of stuttering clinic. *Required of speech language pathology and audiology majors.

SLA 424
ORGANIZATION & ADMINISTRATION OF SCHOOL SPEECH AND LANGUAGE PROGRAMS

3, 3/0; 1993-94

Prerequisite: Thirty hours in communication disorders. Study of organization of school speech language programs, including laws and regulations, case selection, caseload, scheduling, records, facilities. *Required of speech language pathology and audiology majors.

SLA 425
DIAGNOSIS OF COMMUNICATION DISORDERS

3, 3/0; 1993-99

Prerequisite: SLA 325, 307, 411. The study and practice of diagnosis of communication disorders. Included is discussion of interviewing, report writing, methods and materials in performing diagnosis, and clinical practice of diagnostic skills. *Required of speech language pathology and audiology majors.

SLA 429
CLINICAL ACTIVITY

1, 0/3; 1994-95

Observation and participation in clinical activities. Appropriate section should be selected with advisement. May be repeated for a total of up to 6 credits.

SLA 495
PROJECT**SLA 499**
INDEPENDENT STUDY**Technology**

DR. CHARLES A. BEASLEY, Chairperson
Upton Hall 315

ENGINEERING TECHNOLOGY INDUSTRIAL TECHNOLOGY SAFETY STUDIES TECHNOLOGY EDUCATION VOCATIONAL TECHNICAL EDUCATION**ENGINEERING TECHNOLOGY**

Offered by the Technology Department

DR. CHARLES A. BEASLEY, Chairperson
Upton Hall 315

DR. PETER S. PAWLIK, Coordinator
Upton Hall 315

ENT 300
ANALYTICAL METHODS FOR TECHNOLOGISTS

3, 3/0; 1993-95

Prerequisite: MAT 126. Application of calculus and analytic geometry to problems in technology. Introduction to the ordinary differential equations used to analyze mechanical and electrical quantities in technology. *Required for engineering technology majors.

ENT 301
MECHANICS I

3, 3/2; 1993-95

Prerequisite: PHY 111. A study of the basic principles and applications of statics and strength of materials. Topics include equilibrium of rigid bodies, friction, centroids, properties of areas, trusses, frames, tension/compression stresses in bars, and beam bending stress. *Required of all engineering technology majors.

ENT 302
MECHANICS II

3, 3/2; 1993-95

Prerequisite: ENT 300, ENT 301. A study of the principles and applications of dynamics. Topics include principles of dynamics, translation, rota-

tion, dynamic equilibrium, work-energy methods, and impulse-momentum methods. *Required of all engineering technology majors.

ENT 303 KINEMATICS

3, 3/2; Sp 94, 95
Prerequisite: ENT 302. A study of the relative motions of machine parts. Both graphical and analytical techniques are presented for position, velocity, and acceleration analysis of linkages, chains, rolling bodies, gears, and miscellaneous mechanisms. *Required of mechanical engineering technology majors.

ENT 311 THERMODYNAMICS

3, 3/2; F 93, 94
Prerequisite: ENT 300, PHY 111. An introduction to the principles of classical thermodynamics. Technical applications of heat-power systems, refrigeration systems, and fluid machinery. *Required of mechanical and electrical (power machines option) engineering technology majors.

ENT 312 FLUID MECHANICS

3, 3/2; Sp 94, 95
Prerequisite: ENT 311. Application of fluid mechanics to analysis of fluid circuits, channel flows, and fluid machines. Analysis, design and operation of instrumentation for measuring pressure and flow. Theory of dimensionless groups for models and prototypes. Hydraulic flow controllers and pressure controllers. *Required of mechanical and electrical (power machines option) majors.

ENT 313 COMPUTER METHODS FOR TECHNOLOGISTS

3, 3/0; 1993-95
Prerequisite: ENT 300, ISM 111. The application of computers and numerical methods to problems in engineering technology. Emphasis will be on actual student use of the computer. *Required of all engineering technology majors.

ENT 331 ELECTRICAL CIRCUITS AND DEVICES I

3, 3/2; 1993-95
Prerequisite: PHY 112. Study of the basic concepts of electrical circuits and systems both DC and AC. Includes loop and node analysis, superposition, maximum power transfer, alternating current analysis, phasors, inductors, capacitors, resonance, transformers. *Required of all engineering technology majors.

ENT 332 ELECTRICAL CIRCUITS AND DEVICES II

3, 3/2; 1993-95
Prerequisite: ENT 300, ENT 331. Study of magnetic fields and the magnetic circuit. The ideal transformer. Realistic power transformers. Direct current machinery-three phase generator. The rotating magnetic field and alternating cur-

rent machinery. Single phase and polyphase motors. Synchronous motors and generators. *Required of all engineering technology majors.

ENT 341 ELECTRONICS

3, 3/2; F 93, 94
Prerequisite: ENT 300, ENT 331. Introductory analysis of electronic circuits, with emphasis on semiconductor devices. *Required of electrical engineering technology majors.

ENT 342 NETWORKS

3, 3/0; 1993-95
Prerequisite: ENT 300, ENT 331. Network analysis methods, generalized waveform analysis, electrical circuit parameters, equivalent circuits, initial circuit conditions, steady state and transient solutions. Laplace transform methods and applications to network analysis, transform methods in linear system analysis, transfer function concepts and sinusoidal steady state analysis. *Required of electrical engineering technology majors.

ENT 351 ELECTRONIC CIRCUIT ANALYSIS AND DESIGN I

3, 3/2; 1993-95
Prerequisite: ENT 341, ENT 342. Analysis and design of electronic circuits, discrete and integrated, with emphasis on linear analog applications. *Required of electrical engineering technology majors (electronics option).

ENT 352 ELECTRONIC CIRCUIT ANALYSIS AND DESIGN II

3, 3/2; 1993-95
Prerequisite: ENT 351. Analysis and design of electronic circuits, discrete and integrated, with emphasis on non-linear analog applications. *Required of electrical engineering technology majors (electronics option).

ENT 371 ELECTROMECHANICAL MACHINES

3, 3/2; F 93
Prerequisite: ENT 332. DC machines, AC machinery and transformers, as an integral part of electric power systems. Study of three-phase synchronous machines and induction motors, fractional horsepower AC motors, electrical machines in control systems. *Required of electrical engineering technology (power/machines option) majors.

ENT 401 STRESS ANALYSIS

3, 3/2; F 93, 94
Prerequisite: ENT 301, ENT 313, ENT 331, INT 311. An advanced course in strength of materials which focuses on the analytical, numerical, and experimental methods of stress analysis as applied to structures and machine elements. Topics covered included axial stresses and deformation, bending and torsion of beams and shafts, plane

stress, plane strain, elastic stability, yield criteria, combined stresses, and energy methods. *Required of mechanical engineering technology majors.

ENT 402 SHOCK AND VIBRATION ANALYSIS

3, 3/2; Sp 94, 95
Prerequisite: ENT 302, ENT 401. A study of the theoretical, analytical, and experimental methods used in the analysis of shock and vibration in machine elements and structures. Topics covered include free and forced vibration of one- and multi-degree of freedom systems with an introduction to lumped parameter systems and continuous systems. The laboratory will stress familiarization with the instrumentation and experimental techniques used in vibration analysis. *Required of mechanical engineering technology majors.

ENT 411 HEAT TRANSFER

3, 3/2; F 93, 94
Prerequisite: ENT 312. A study of the process of heat transfer and its applications to the fields of processing technology, energy conversion, and machine design. Topics covered include conduction, convection, radiation, heat exchanger design, combined modes of heat transfer, and applications to machine design. *Required of mechanical engineering technology majors.

ENT 421 MACHINE DESIGN I

3, 3/2; F 93, 94
Prerequisite: ENT 303. A study of the techniques used to design and specify machine elements, i.e., shafts, springs, fasteners, belts, clutches, brakes, chains, bearings, gears, cams, etc. *Required of mechanical engineering technology majors.

ENT 422 MACHINE DESIGN II

3, 2/3; Sp 94, 95
Prerequisites: ENT 421, ENT 401. Advanced topics in machine design including numerical control. Each student will be required to complete a major design project which includes preliminary analyses, working drawings, fabrication and testing of a prototype. *Required of mechanical engineering technology majors.

ENT 431 DIGITAL SYSTEMS I

3, 3/2; F 93, 94
Prerequisite: ENT 341. The course includes Boolean algebra, combinational circuit analysis and design, gates, sequential circuits, flip-flops, counters, logic types and interfacing, A/D inverters, encoders/decoders, mux/demux, and memory devices. The experiments are designed to develop facility in analyzing, testing, troubleshooting and designing digital circuits. *Required of electrical engineering technology majors.

ENT 432 DIGITAL SYSTEMS II

3, 2/3; 1993-95
Prerequisite: ENT 431. Theory and application of microprocessors and microcomputers, composition, programming, interfacing, prototyping and troubleshooting. *Required of electrical engineering technology majors.

ENT 433 MICROPROCESSOR APPLICATIONS AND ROBOTICS

3, 3/2; F 93, 94
Prerequisite: ENT 432. This course provides a theoretical and practical background of the technology used in the application of microprocessors. The programming, hardware, interfacing, and application of microprocessors is covered. The "8086" microprocessor is used as the basis for laboratory study. Subsequently, the elements of robotics are presented with emphasis on the use of the microprocessor for control of the robot. In addition, construction and programming of robots is covered.

ENT 441 ELECTROMAGNETIC FIELDS AND WAVES

3, 3/2; F 93, 94
Prerequisite: ENT 332, ENT 300. Description of traveling waves on transmission lines and waveguides. Introduction to RF and microwave technology for measurement of frequency, wavelength, power and impedance — Use of Smith Chart for circuit analysis. Characteristics of sources and amplifiers used in RF and microwave systems. *Required of electrical engineering technology (electronics option) majors.

ENT 442 MICROWAVE TECHNIQUES

3, 3/2; Sp 94, 95
Prerequisite: ENT 441. Continues the study of RF and microwave technology. Topics include receivers, noise, antennas, modulation and demodulation, and propagation. Systems and applications are emphasized. *Required of electrical engineering (electronics option) majors.

ENT 461 CONTROL TECHNOLOGY I

3, 3/2; F 93, 94
Prerequisite: ENT 342. Introduction to control systems and components, control system analysis, transient and steady-state evaluation, transfer functions, block diagram algebra, stability analysis, system classification, use of laboratory simulation techniques, experimental testing of type 0 and type 1 servo systems. *Required of electrical engineering technology majors.

ENT 462 CONTROL TECHNOLOGY II

3, 2/3; Sp 94, 95
Prerequisite: ENT 461. The analysis and design of feedback control systems, objectives and methods, frequency response plots, feedback

control system performance based on frequency response analysis, stabilization techniques, control system design using Bode and Nichol's chart design method, digital control systems and digital interfacing techniques. Experimental investigation of d.c. servo stabilization using rate feedback of network compensation, experimental evaluation of a.c. servo systems. *Required of electrical engineering technology majors.

ENT 471 ELECTRICAL POWER SYSTEMS I

3, 3/2; F 93
Prerequisite: ENT 342. Operating strategies and control of single phase and polyphase electric power systems. Integration of electrical machinery including transformers, synchronous machines and induction motors in the power system. Both single phase and polyphase machines are considered. *Required of electrical engineering technology (power/machines option) majors.

ENT 472 ELECTRICAL POWER SYSTEMS II

3, 3/2; Sp 94
Prerequisite: ENT 471. A systems approach to electrical power systems analysis, control of power and frequency; control of voltage and reactive power, load flow analysis, fault analysis and unbalanced operation, over-voltage and insulation requirements. Underground cable transmission systems. *Required of electrical engineering technology (power/machines option) majors.

INDUSTRIAL TECHNOLOGY

Offered by the Technology Department
DR. CHARLES A. BEASLEY, Chairperson
Upton Hall 315

See Technology courses for description of courses listed in Industrial Technology major.

SAFETY STUDIES

Offered by the Technology Department
DR. CHARLES A. BEASLEY, Chairperson
Upton Hall 315

Industrial Technology Program
Upton Hall 314

The safety studies area provides an opportunity for students from the various specialized degree programs to also acquire a safety minor, teacher preparation in driver education, and a variety of elective courses of a general as well as specialized nature to satisfy personal interest or career goals.

SAF 300 THE HIGHWAY TRANSPORTATION SYSTEM

3, 3/0; offered based on staff availability
Prerequisite: N.Y. State driver's license. An introduction to and an analysis of the highway transportation system, with emphasis placed on the vehicle operator task for the purpose of facilitating improved operator performance. The lab phase of the course conducted in automobiles.

SAF 305 FUNDAMENTALS OF SAFETY

3, 3/0; 1993-95 CT
An analysis of the fundamentals of accident prevention as they apply to the numerous areas of living, with consideration given to the human and environmental factors, legal aspects and home and fire safety. *Required of safety minor. **Required to teach high school driver education.

SAF 310 PERSONAL SAFETY AND FIRST AID

3, 3/0; F 93, 94
Personal accident-prevention skills and techniques that can reduce potential threats to life, with emphasis on activities involving recreational, occupational, industrial, and daily life routines. Basic instruction in emergency medical care of the sick and injured. A standard first aid and personal safety certificate will be awarded upon successful completion of the course.

SAF 320 PRODUCT SAFETY

3, 3/0; Sp 94, 95 ET
A study of product safety; agencies that control the manufacture and distribution of dangerous products; product safety laws and legal liability; product injury data; evaluative criteria; product testing; determining standards for safety.

SAF 333 OCCUPATIONAL SAFETY

3, 3/0; Sp 94, 95
An analysis of hazards in the work place, with emphasis on various accident-prevention methods and techniques that can be utilized by both the employee and management to reduce the accident toll. The Occupational Safety and Health Act of 1970 will be discussed in detail. *Required for safety minor.

SAF 340 COMMUNITY SAFETY

3, 3/0; F 93, 94 ET
A study of human and environmental factors affecting community safety; accident prevention and control principles; agencies and organizations; safety laws and ordinances; standards and codes; legal liability and insurance; disaster and emergency medical care; safety in places of public assembly; recreational facilities; transportation systems. *Required for safety minors.

SAF 360 INDUSTRIAL HYGIENE

3, 3/0; F 93, 94
An introduction to the profession of industrial hygiene. Includes the detection, recognition, evaluation and control of those factors emanating from the working place which may impair health, cause discomfort, illness, disease and reduce efficiency among workers and the community as a whole.

SAF 431 ORGANIZATION, ADMINISTRATION, AND SUPERVISION OF INDUSTRIAL ACCIDENT PREVENTION PROGRAMS

3, 3/0; offered based on staff availability
Prerequisite: TEC 465. A study of the practical application of methods and techniques of efficient industrial accident prevention programs. Emphasis will be placed upon corporate responsibility, employee responsibility and the complex psychological relationships that affect the typical program.

SAF 450 MOTOR FLEET SAFETY MANAGEMENT

3, 3/0; offered based on staff availability
 A study of the various fleet management techniques and their application. Includes the scope and function of the motor fleet safety supervisor; federal, state, and local laws and regulations; selection and maintenance of equipment; customs and public relations.

TECHNOLOGY COURSES Offered by the Technology Department DR. CHARLES A. BEASLEY, Chairperson Upton Hall 315

TEC 101 TECHNICAL DRAWING

3, 2/3; 1993-95
 Survey of projection theory; multiview projection; special relationships and visualization of point, lines, planes and solids; size and shape description through sketching and instrument drawing; industrial applications, standards and conventions; auxiliary views, revolutions, developments and intersections. *Required of TEC and TED majors.

TEC 123 PRINCIPLES OF MANUFACTURING

3, 2/2; 1993-95; offered based on staff availability CT
 A study of the operative principles common to the majority of manufacturing industries. In-depth classroom discussion including presentations by leading industrialists. Consideration will be given to research and development, manufacturing, organization and management, industrial relations, engineering, production, labor, financial control, marketing, quality control.

TEC 150 THE SHAPE OF THINGS

3, 3/0; 1993-95; offered based on staff availability CT
 A study of mechanics and design; concepts of strength of materials; the influence of shape, size, and choice of materials on the strength and rigidity of structures; presentation of the elements of mechanism.

TEC 201 MATERIALS PROCESSING

3, 2/3; 1993-95
Prerequisite: TEC 101. A study of the processes

and problems associated with the conversion of materials into useful forms and goods. Practical experience is acquired through laboratory activities exemplifying the major processes studied. *Required of TEC and TED majors.

TEC 202 PRODUCTION DRAWING

3, 2/3; 1993-95; offered based on staff availability
Prerequisite: TEC 101. Idea development, sketching, design concepts, working drawings, reproductions, manufacturing processes and operations, illustrations, and drafting-room procedures.

TEC 260 DEVELOPMENT OF TECHNOLOGY

3, 3/0; 1993-95; offered based on staff availability CT
 A chronological study of the development of man's technology; emphasis on prevailing ideas, known physical materials and processes, and pressures of the natural and social surroundings; consideration of man's technological future based on his historical development.

TEC 301 MATERIALS PROCESSING II

3, 2/3; 1993-95; offered based on staff availability
Prerequisite: TEC 201. A continuation of the conceptual patterns introduced in TEC 201. Emphasis is placed upon numerical controlled and computerized numerical controlled materials processing. Practical experience is acquired through laboratory activities to enhance understanding of the processes studied.

TEC 303 PLASTICS

3, 2/3; 1993-95; offered based on staff availability
Prerequisite: TEC 201. Fundamentals of injection, compression, transfer, rubber, and blow molding; heat sealing; vacuum forming; casting and spraying of form welding of plastics; properties of polymers and elastomers; mold construction.

TEC 305 CREATIVE ARTS FOR INDIVIDUALS WITH SPECIAL NEEDS

3, 2/3; 1993-95; offered based on staff availability
Prerequisite: TEC 101. Experiences in creative arts and crafts and elementary industrial arts for children who present exceptional problems of learning; techniques in preparing handicapped children for occupations through activities in Tech. Ed.; job analyses and occupational guidance related to the education of exceptional children. *Elective for EXE majors.

TEC 311 MATERIALS SCIENCE AND TESTING

3, 2/3; 1993-95
Prerequisite: TEC 101. A study of the origin of composition of industrial materials including metals and their alloys, woods, fuels, lubricants, cutting fluids, solvents, protective compounds or coatings, inks, adhesives, plastics, and ceramics; application of testing

procedures for identification and determination of physical and chemical properties suitable for specific industrial uses. *Required of TEC and TED majors.

TEC 312 PRODUCTION PLANNING AND CONTROL

3, 2/3; 1993-95
Prerequisite: TEC 201. Provides working knowledge of the production planning and control functions in industry, basic coverage of the techniques and procedures of production planning, scheduling, dispatching and control. *Required of TEC and TED majors.

TEC 313 STATISTICAL QUALITY CONTROL

3, 3/0; 1993-95
 Fundamentals of probability; sample space, events, probability; probability distributions; binomial, poisson and normal. Application of probability in quality control; Shewhart Control Charts, process capability studies, acceptance sampling, standard tables for sampling plans. *Required of TEC majors.

TEC 314 ELECTRO-MECHANICS

3, 2/3; 1993-95
 Fundamental laws of electric circuits, analysis of D.C. and A.C. circuits, application to electric power systems and electronics industry. Fundamentals of electrical machinery and introduction to three phase systems. Laboratory experiments on electrical circuit and devices. *Required of TEC and TED majors.

TEC 318 METAL-FORMING

3, 2/3; 1993-95; offered based on staff availability
Prerequisite: TEC 201. Advanced study of metal working processes exemplified by casting, shaping, welding, forging, and finishing techniques, emphasis on individual experience in contemporary metal working technology.

TEC 319 TECHNOLOGY AND VALUES

3, 3/0; 1993-95; offered based on staff availability CT
Prerequisite: Junior standing. Investigation of the social and ethical impacts of technology to enable increased understanding of the often conflicting roles of the historical and current creators and users of technology, and to enable more informed future assessment and control. Examination of selected current technical-ethical issues of societal importance.

TEC 325 DEVELOPMENT OF AMERICAN INDUSTRIES

3, 3/0; 1993-95; offered based on staff availability
 Study of America's technological society. The relationship of people and machines in the increasingly complex world of work. Understanding industry as a basis of culture.

TEC 326 OCCUPATIONS IN AMERICAN INDUSTRY

3, 3/0; 1993-95; offered based on staff availability
 Overview and analysis of the wide range of occupations in the major industries with emphasis on the role of federal, state, and local agencies, their services and available reference material.

TEC 327 SURVEY OF INDUSTRIAL POLLUTION CONTROL PROBLEMS

3, 3/0; 1993-95; CT
 Overview and analysis of problems pertaining to pollution generation and abatement by industry during procurement, product development, production, distribution and utilization.

TEC 350 GRAPHIC COMMUNICATIONS

3, 2/3; 1993-95
 An introduction to the major principles of technical graphic communications; a study of industrial information conveyance in a contemporary civilization; application of modern industrial reproduction processes to the solution of graphic problems. *Required of TEC and TED majors.

TEC 351 ENERGY SYSTEMS

3, 2/3; 1993-95
 A study of energy and power from sources through conversion systems and mechanisms to the application of power for manufacturing. *Required of TEC and TED majors.

TEC 352 FOREST PRODUCTS

3, 2/2; 1993-95; offered based on staff availability
 Study and experience in the use of solid and composition wood processes through activities of the production and construction. Special emphasis upon wood identification, utilization, and finishing.

TEC 360 PRODUCTION DRAWING I

3, 2/3; 1993-95; offered based on staff availability
Prerequisite: TEC 101. Application of the fundamental principles of orthographic projection and the further development of drawing skills required in the preparation of selected types of working drawings; increased emphasis on technical sketching skills and dimensioning practices; tolerancing standards; sectional views; basic design concepts; materials and processes in manufacturing surface finishing standards; fundamentals of threads and fasteners; preparation of welding, stamping and piping drawings.

TEC 370 PRODUCTION DRAWING II

3, 2/3; 1993-95; offered based on staff availability
Prerequisite: TEC 360. Graphic description as applied to the management of industrial production with concentration on working drawings and illustrations.

TEC 400 MARKETING

3, 3/0; 1993-95 ET
Prerequisite: Junior or senior standing. The establishment of conceptual framework for marketing; the movement of goods and services through channels from source to consumer; consideration of product formulation, market research, prudent pricing, distribution channels, and promotion systems. *Required of TEC and TED majors.

TEC 401 MANAGEMENT SCIENCE

3, 3/0; 1993-95 ET
Prerequisite: Junior or senior standing. An investigation of the conceptual framework of management science leading to a detailed study of the major managerial functions of planning, organizing, actuating, and controlling. An introduction to the tools of modern management relating to forecasting, organizational concepts, motivation, quantitative decision making, measurement and evaluation of performance, and the several concepts of control; consideration of the economic environment; use of the case study method. *Required of TEC and TED majors.

TEC 402 ERGONOMICS

3, 3/0; 1993-95
Prerequisite: Junior or senior standing. The interaction of people and machines; development and use of human factors information including sensory, cognitive, and psychomotor processes as these influence the design of displays, controls, and work space; environment and safety consideration necessary to achieve desired machine outputs. *Required of TEC and TED majors.

TEC 403 SYSTEMS ANALYSIS

3, 3/0; 1993-95
Prerequisite: TEC 401. A study of fundamental concepts and analytical techniques of systems analysis; stress will be placed on the quantitative methods and their use in decision-making in practical situations involving industrial, managerial, and technological settings; trends will be treated as related to modeling, and computer technology, feedback and information systems. *Required of TEC majors.

TEC 405 MANUFACTURING TECHNOLOGY

3, 2/4; 1993-95
Prerequisite: TEC 312 and last semester senior standing. A senior project course that provides a hands-on experience in the total manufacturing cycle of a product from the ideal inception stage through planning, product design, processing studies, actual and simulation of large-scale production, and experience in setting time standards and taking time studies. *Required of TEC and TED majors.

TEC 406 INVESTIGATION OF FOREST MATERIALS AND PRODUCTS

3, 2/3; 1993-95; offered based on staff availability
Prerequisite: TEC 352. Study of wood structure and properties through laboratory investigation and testing. Experimentation with advanced processes and evaluation of forest products. Identification of the field of forest product technology and wood technology.

TEC 407 GRAPHIC REPRODUCTION PROCESSES

3, 2/3; 1993-95; offered based on staff availability
Prerequisite: TEC 350. The photomechanical processes as related to offset lithography, screen process printing and gravure printing.

TEC 408 ELECTRONICS COMMUNICATION

3, 2/3; 1993-95; offered based on staff availability
Prerequisite: TEC 314. Advanced study of general electricity with emphasis on alternating current theory; electronic test equipment; service repair and construction of complex A.C. devices and projects; service repair and construction of radio receivers and electronic equipment.

TEC 409 INTRODUCTION TO THE CERAMIC INDUSTRIES

3, 2/3; 1993-95; offered based on staff availability
 Introduction to the major ceramic industries that utilize earthy, inorganic, nonmetallic materials which are usually heat treated at high temperatures. Laboratory experiences to achieve breadth understandings of major manufacturing industries; ceramic raw materials, stone refractories and kilns, gypsum, lime, Portland cement and concrete, clay (structural products and whitewares), glaze, porcelain enamels, glass, abrasives, carbon and graphite, and electronic ceramics.

TEC 411 ARCHITECTURAL DRAWING

3, 2/3; 1993-95; offered based on staff availability
Prerequisite: TEC 101 or permission of instructor. Locations, restrictions, building codes, facilities, floor plans, elevations, and specifications of structures; materials, equipment, and methods of construction.

TEC 417 DESCRIPTIVE GEOMETRY

3, 2/3; 1993-95; offered based on staff availability
Prerequisite: TEC 101. Solutions of space problems involving points, lines, and planes. Surface developments and intersections, conic section, vector geometry, and practical applications.

TEC 421 OCCUPATIONAL AND PRACTICAL ARTS EDUCATION FOR INDIVIDUALS WITH SPECIAL NEEDS

3, 2/3; 1993-95; offered based on staff availability
Primary emphasis placed on providing a wide range of guided exploratory experiences which relate to planning, delivering, coordinating and evaluating manipulative activity specifically designed for occupational and practical arts education programs, classrooms, laboratories, activity centers, sheltered workshops, nursing homes, hospitals, vocational rehabilitation centers, and summer camp activity programs; development of methods and techniques for teaching and assessing the activity potential of individuals with special needs. *Advanced technical credit.

TEC 428 MANUFACTURING TECHNICAL SEMESTER

3-6 cr. - days in industry by arrangement; offered based on staff availability

Prerequisite: Junior or senior status/permission of instructor. Technical courses and/or in-plant participation in manufacturing; emphasis on production planning, technology of industry, and technology in industry; conceptual approach and practical experience in the organization, planning, production, and evaluation of the industrial manufacturing enterprise.

TEC 430 INTRODUCTION TO COMPUTER-AIDED DRAFTING (CAD)

3, 2/3; 1993-95

Prerequisite: TEC 101/DES 105 or permission of instructor. An introduction to computer-aided drafting. A study of the principles and concepts of microcomputers as utilized in the preparation of working drawings. Utilize various devices for data entry; perform basic editing; storage and retrieval tasks; perform selected file management tasks; operate CAD output hardware.

TEC 465 SAFETY MANAGEMENT

3, 3/0; 1993-95

Prerequisite: Junior or senior standing. Development of the industrial safety movement; psychology in accident prevention; appraisal of accident cost factors, severity, and frequency; job safety analysis and corrective measures; plant inspection and preventive maintenance; storage and handling of materials; fire prevention; education and training of employees. *Required of TEC majors. Elective for safety minors.

TECHNOLOGY EDUCATION

Offered by the Technology Department
DR. CHARLES A. BEASLEY, Chairperson
Upton Hall 315

ROBERT J. ZUERCHER, Coordinator
Upton Hall 128/314

OEC 301 PRINCIPLES OF OCCUPATIONAL EDUCATION

3, 3/0; 1993-95

Introduction to the teaching of occupational education courses in public schools; principles, philosophy, and objectives; historical development of occupational education and the development of current issues for an occupational education program. Required of TED, VOC-TEC, and BUS majors.

OEC 302 CURRICULUM AND EVALUATION IN OCCUPATIONAL EDUCATION

3, 3/0; 1993-95

Introduction to the teaching methods of occupational education courses in the public schools; introduction to test construction and evaluation techniques utilized in occupational education courses. Required of TED, VOC-TEC, and BUS majors.

OEC 303 METHODS AND MATERIALS IN OCCUPATIONAL EDUCATION

1, 1/0; 1993-95

Basic methods utilized in the teaching of occupational education courses in the public schools and the preparation of teaching materials to accomplish stated objectives. Utilization of teaching methods that take into consideration the role of race, gender, and culture, as well as the individual with special needs. Required of BUS majors. Elective for TED and VOC-TEC.

TED 360* TECHNOLOGY EDUCATION METHODS AND EVALUATION

3, 2/2; 1993-95

Prerequisite: OEC 301, OEC 302, and EDF 303. Basic principles and methods of teaching technology education subjects; strategies utilized in planning for instruction; strategies utilized in evaluating students, course content, and overall program; teaching and evaluating students with special needs; and the preparation of instructional materials.

TED 450* PROFESSIONAL SEMESTER

12, 5/0 (15 wks.); 1993-95

Prerequisite: EDF 303, OEC 301, OEC 302, and TED 360; cumulative average 2.5 or higher. Full-time assignment in a junior and/or senior high school as a student-teaching intern working with a supervising teacher and a college supervisor; seminars on campus and in public schools to study teaching techniques, organization, management and other aspects of teaching Technology Education; guided full-time teaching experience including the use of videotape to analyze teaching; participation in school and professional activities. Students must be prepared to accept assignment at any center; have completed a minimum of 105 semester hours including all

(33 semester hours) technology core courses of approved credit applicable for the Technology Education Certification Program; students may not enroll for any other college courses.

*Required of Technology Education majors.

See Technology (TEC) courses for description of courses listed in the Technology Education major.

VOCATIONAL TECHNICAL

Offered by the Technology Department
DR. CHARLES A. BEASLEY, Chairperson
Upton Hall 315

FRANK E. SHARKEY JR., Coordinator
Upton Hall 220

VTE 100 COMPREHENSIVE THEORETICAL TRADE OR TECHNICAL SKILLS

15 cr.

VTE 200 COMPREHENSIVE TRADE OR TECHNICAL PERFORMANCE

15 cr.

These credits are awarded for satisfactorily completing the trade theory and performance examinations. Admission to these examinations is based on verification of four years of work experience in a trade normally taught in vocational high school programs. Graduates of community college technical programs in appropriate trades are required to verify two years of work experience. The National Occupational Competency Testing Institute Examination is used to determine credit of 15 semester hours for each area.

OEC 301 PRINCIPLES OF OCCUPATIONAL EDUCATION

3, 3/0; 1993-95

Introduction to the teaching of occupational education courses in public schools; principles, philosophy, and objectives; historical development of occupational education and the development of current issues for an occupational education program. Required of TED, VOC-TEC, and BUS majors.

OEC 302 CURRICULUM AND EVALUATION IN OCCUPATIONAL EDUCATION

3, 3/0; 1993-95

Introduction to the teaching methods of occupational education courses in the public schools; introduction to test construction and evaluation techniques utilized in occupational education courses. Required of TED, VOC-TEC, and BUS majors.

VTE 302 COURSE ORGANIZATION

3, 3/0; 1993-95

Techniques for analyzing a trade. Developing content for preparing students for employment. The organization of the New York state approved curriculum for occupational education. Developing course material utilizing the New York state TOP Product.

VTE 306 LABORATORY MANAGEMENT

3, 3/0; 1993-95

Organizational factors that influence the success of the vocational teacher including facility planning, redesign, and all managerial phases of the vocational teacher's responsibilities.

VTE 404 METHODS OF TEACHING VOCATIONAL TECHNICAL SUBJECTS

3, 3/0; 1993-95

Basic principles and methods of teaching vocational technical subjects. Prepares the craftsman, technician, or engineer to effectively impart his knowledge to the learner.

VTE 413 PRACTICE TEACHING AND OBSERVATION

3, 6/0; 1993-95

Prerequisite: VTE 404 and NOCTI examination or equivalent. Supervised teaching in vocational technical classes in selected vocational schools. Conferences and reports based upon teaching assignments will be required. Students should be prepared to accept an assignment at any school designated by the student teacher coordinator.

VTE 415 PROFESSIONAL DEVELOPMENT SEMINAR

3, 3/0; 1993-95

Opportunity to synthesize the pedagogical courses and practice-teaching experience and to analyze the problems which confront the teacher.

VTE 421 OCCUPATIONAL EDUCATION FOR INDIVIDUALS WITH SPECIAL NEEDS

3, 3/0; 1993-95

Primary emphasis on providing a wide range of experiences which relate to planning, delivering, coordinating, and evaluating occupational education programs for individuals with special needs found in secondary and postsecondary schools, rehabilitation centers, and correctional facilities; development of methods and techniques for teaching and assessing the work potential of individuals with special needs; development of self-help devices/adaptive equipment; and identifying instructional resources.

VTE 450 ORGANIZATION OF DIVERSIFIED COOPERATIVE WORK-STUDY PROGRAMS

3, 3/0; offered based on staff availability

Provides information for technology education or occupational education majors interested in establishing diversified cooperative programs. Included are procedures for promoting a new program, working with advisory boards, developing employment opportunities, arranging trainee outlines, planning instructional facilities, and securing regents accreditation.

VTE 455 OPERATION OF DIVERSIFIED COOPERATIVE WORK-STUDY PROGRAMS

3, 3/0; offered based on staff availability

A course for those interested in conducting effective instruction in diversified cooperative programs, including how to interview employers; supervise trainees; interpret legal aspects; prepare records and reports, and conduct classes in related theory.

Theater Arts

Offered by the Performing Arts Department
DONNA E. MCCARTHY, Chairperson
Rockwell Hall 203

THA 100, 101, 102 PLAY READING

1 cr. ea. up to 3 cr.; offered based on staff availability; EA

Reading and analysis of a variety of plays containing scenes appropriate for use in the various aspects of play production.

THA 106 INTRODUCTION TO THEATER ARTS

3, 3/0; 1993-95 CA

An introduction to all aspects of theater. Includes discussion of professional, educational, and community theater.

THA 200 VOICE AND DICTION

3, 3/0; 1993-95 CA

A comprehensive study of the speech mechanism and voice production.

THA 207 PLAY PRODUCTION

3, 1/4; F 93, 94 CA

A hands-on introduction to all aspects of producing a play. Discussions include theater management, publicity, theatrical design, stage properties, and makeup. Participation on at least one preparation or run crew for performing arts productions is required.

THA 208 TECHNICAL THEATER

3, 1/4; Sp 94, 95 EA

Prerequisite: THA 207 or consent of instructor. Continuation of THA 207 with emphasis on the technical elements of costume, scenery, and lighting design. Participation on at least one preparation or run crew for performing arts productions is required.

THA 226 ACTING: THEORY AND PRACTICE

3, 1/4; Sp 94, 95 EA

Prerequisite: THA 106 or consent of instructor. An examination of the actor's art, the relationship of theory to practice.

THA 260 BASIC MOVEMENT FOR ACTORS

3, 2/2; offered based on staff availability; EA

Prerequisite: THA 106 or consent of instructor. Designed to give student actors a knowledge and awareness of their bodies so they can more fully incorporate the physical dimensions of acting into their character portrayals. (Appropriate for non-majors.)

THA 300 ADVANCED VOICE

3, 3/0; offered based on staff availability; EA

Prerequisite: THA 200. Further application and appreciation of vocal production methods with a special emphasis on individualized projects.

THA 310 ADVANCED TECHNICAL PROBLEMS

3, 2/2; offered by contract

Prerequisite: THA 208. Supervisory techniques and scene planning techniques. Examination of special problems; theories and the trends in technical theater; independent projects in technical theater and design.

THA 311 COSTUME FOR THE THEATER

3, 2/2; offered based on staff availability; EA

Prerequisite: THA 207 or permission of instructor. A hands-on introduction to costume construction and design. Discussions include design theory, script analysis, fabric selection. Studio sessions on shop equipment. Costume construction for performing arts productions is required.

THA 312 LIGHTING TECHNIQUES

3, 2/2; offered based on staff availability; EA

Prerequisite: THA 207 or permission of instructor. An introduction to lighting design for theater, dance, studio, and industrial applications. Discussions include principles of optical systems, stage lighting equipment, color media, electricity, control systems, stage lighting, history, and the McCandless stage lighting system. Assigned practical experience required.

THA 315
PERIOD STYLES FOR THE THEATER

3, 3/0; Sp 94 EA

A study of fashion and the decorative arts and how they relate to the period styles of theatrical productions.

THA 317
HISTORY OF THEATER:
ANCIENT TO RENAISSANCE

3, 3/0; F 93, 94 CA

An examination of the origins and development of the physical theater; the consideration of dramatic literature in its theatrical context.

THA 318
HISTORY OF THEATER:
RENAISSANCE TO MODERN

3, 3/0; Sp 94, 95 CA

The emergence of the modern theater, the consideration of dramatic literature in its theatrical context.

THA 319
PLAYWRITING

3, 3/0; offered based on staff availability; EA
Prerequisite: THA 106 or permission of instructor. Development of critical capacities in reference to the student's own work and that of his or her classmates; productive work in playwriting.

THA 326
SCENE STUDY

3, 3/0; F 93, 94

Prerequisite: THA 226 or equivalent. Scene analysis and role development with special attention to the interaction of characters in a dramatic scene.

THA 360
ADVANCED MOVEMENT
FOR THE ACTOR

3, 1/4; offered based on staff availability

Prerequisite: THA 260. Continued exploration and development of the body as an organic tool for the actor. Concentration will be on the physical dynamics of the characterization and their integration into the total acting experience of voice, body, and mind.

THA 370
STAGE MAKEUP

3, 2/2; offered based on staff availability

Prerequisite: THA 207 and THA 226. Study of the principles and techniques of theatrical makeup application and design.

THA 407
ENSEMBLE THEATER

3-9, 0/6-18

Prerequisite: Audition. An examination of ensemble theatrical production through the preparation and performance of plays.

THA 411
ADVANCED COSTUME DESIGN
FOR THEATER

3, 3/0; offered based on staff availability

Prerequisite: THA 311 or permission of instructor. Advanced studies in costume design and rendering techniques. Drawing skills necessary; design and construction project for performing arts productions required.

THA 426
ADVANCED ACTING

3, 3/0; Sp 94

Prerequisite: THA 326 and permission of instructor. Styles, periods, and methods of acting.

THA 450
DIRECTING

3, 3/0; Sp 94, 95

Prerequisite: THA 226 and THA 208 or permission of instructor. An examination of the responsibilities of the play director.

THA 495
PROJECT

THA 496
SEMINAR IN THEATER ARTS

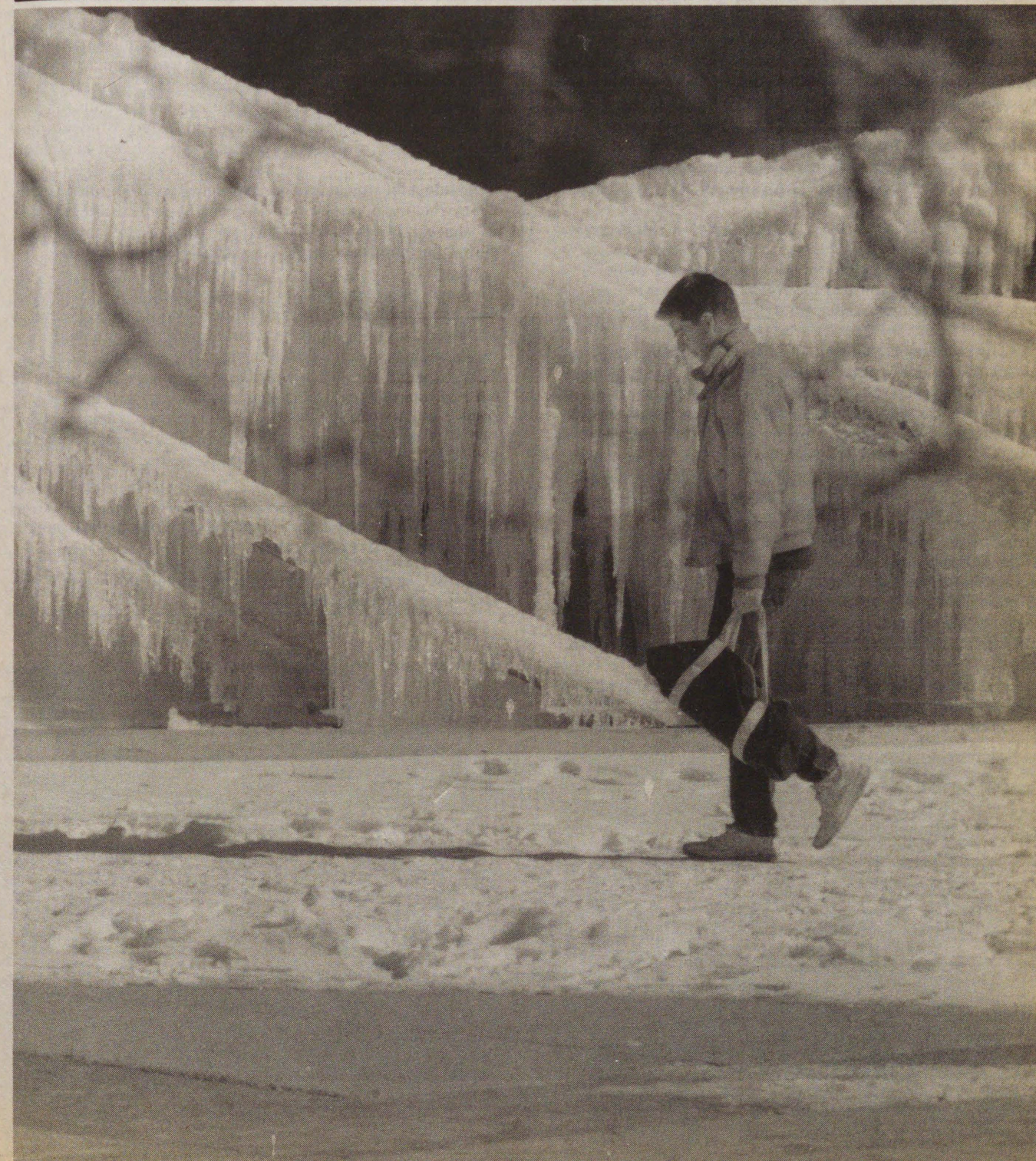
3, 3/0; offered based on staff availability

Prerequisite: 24 hours completed in theater arts. Examination of attitudes, sharpening of critical capacities; production of scholarly and creative works.

THA 499
INDEPENDENT STUDY

6

Academic Policies



Academic Policies

The following college academic regulations apply to all students and all college sessions. Students are responsible for determining their academic programs and for meeting every degree requirement. Faculty members who act as advisers are obligated only to assist students in meeting this responsibility. Clarification of any requirements for the baccalaureate degree may be obtained from the faculty adviser, department chairperson or academic dean. Check with the Academic Standards Office, Twin Rise S110, 878-5222, for clarification of other regulations or procedures.

Registration

The registrar has established the following registration procedures which all students must follow.

All currently registered students who will continue their studies during the next regular semester are required to register at advance registration.

Procedures for registering are published in the class schedule each semester. Class schedules are available for the fall semester in April, for spring in November, and for summer in March. Students are responsible for obtaining a schedule each semester according to the procedures established by the Records and Registration Office.

Students are responsible for notifying the Records and Registration Office of any change of address so that registration mailings can be properly directed.

Students subject to possible dismissal under probation regulations should register, but they are not officially enrolled until their official status has been determined by the appropriate dean.

Academic advisement is mandatory for all matriculated students. Students who have declared a major must seek advisement by contacting the chairperson of the department responsible

for their major. Advisement for all other students is available in the New Student Programs and Academic Advisement Office, Twin Rise S100. This advisement can take place anytime during the semester prior to registration. The adviser must sign the student's advisement card. A student may remain "uncommitted" for three semesters or 45 semester hours. Students must declare a major prior to registering for work beyond 45 semester hours.

Schedule Adjustment Period is designed to accommodate students who find it necessary to drop or add a course after the start of classes. Dates and instructions for schedule adjustment period are published in the class schedule each semester.

The average course load for most undergraduates is 15-16 hours a semester. A student's class schedule may not exceed 19 hours a semester. This policy may be waived by submitting a petition to the Academic Appeals Board through the Academic Standards Office, Twin Rise S110. It will take a minimum of two weeks for the board to respond to the petition. Students seeking a waiver of this policy should have an above average academic record. All requests for waiver of this policy must be submitted two weeks prior to the beginning of the semester.

Students with outstanding financial obligations will not be allowed to register at any time.

Students clearly subject to dismissal should not begin a new semester or summer session.



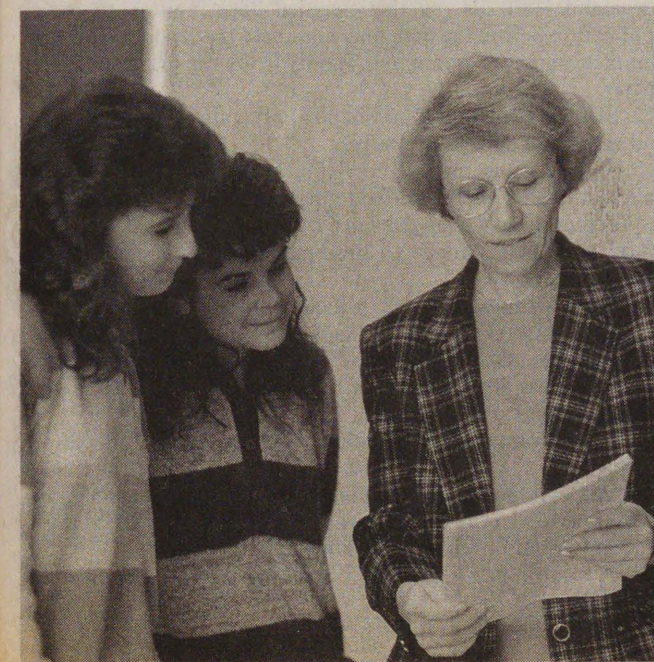
Academic Advisement: Role of Students and Faculty

Effective academic advisement is the interaction between a qualified adviser who is knowledgeable and sympathetic and a serious student who is motivated and receptive, as together they evaluate and plan the student's course of study.

The task of the adviser is to provide the guidance and information necessary for the student to make efficient progress in the pursuit of an academic goal. The adviser is responsible for being well-informed and ready to provide aid in the selection of specific areas and courses, and for helping the student fulfill academic regulations and interpret administrative policies. The task of the student is to seek advisement, to understand, and to be responsible for decisions. The student should be familiar with the sources of information on requirements, regulations, and policies. The college bears the responsibility for establishing procedures and providing a setting conducive to good advisement.

The student must be convinced that the adviser is interested, informed, and caring. The adviser must foster open two-way communication and be willing to share greater experience without attempting to impose value systems on the student. Therefore, advisement requires an environment of mutual respect, trust, and cooperation.

The adviser should maintain a view of the student's progress and be aware of any difficulties the student encounters. Personal, financial, health, study habits, and a host of other factors may directly affect the progress of a student's academic career. The good adviser should be willing to listen sympathetically to any problems arising from these factors and help the student to arrive at informed decisions. The adviser should be prepared to inform the student of options and campus sources available for the solutions of the problems that may affect academic performance. Since the academic adviser is often the only person on campus to whom the student can turn in times of indecision or stress, it is incumbent upon the adviser to ensure that the student's problems are treated with seriousness and concern.



Attendance

There is no uniform attendance policy set by the college. Attendance regulations are established by each instructor and will be distributed at the start of each semester.

Auditing Courses

Students may audit or take courses without earning credit provided they have the approval of the department chairperson and the instructor of the course. A person auditing a course will attend without formal recognition, not be on the official class list in the Records and Registration Office for such courses, not be required to meet the requirements of the course, and not be charged tuition or fees for the course.

Exception: Auditing is not permitted in any study-abroad program.

Special audit: Persons over 60 years old may audit courses if there is space available. Arrangements can be made through the Admissions Office, Cleveland Hall 206, 878-5511.

Dropping or Withdrawing from a Course

Dropping Courses

Students may completely drop their registration in one or more courses during schedule adjustment period each term. Dropping a course at that time removes all record of the course from the student's transcript.

Withdrawal from Courses

Students who wish to leave a course after the schedule adjustment period and before the final withdrawal date (the end of the 10th week of the semester or fifth week of a summer session) may file withdrawal forms signed by the appropriate instructor with the Records and Registration Office, Cleveland Hall 204. Withdrawals remain on the transcript and are recorded as Ws, but do not count in credit hours or grade point average.

Instructors are required to apprise students of their academic standing not later than the end of the ninth week of the semester or the fourth week of a summer session. If a student does not officially withdraw from a course and stops attending, a grade of E will be recorded.

Students withdrawing from some course work may be eligible for a refund in accordance with the bursar's refund schedule. Beyond the end of the bursar's time limit full charges are assessed.

Declaring a Major

All students who have started as freshmen at the college must decide on an academic major before the completion of 45 semester hours. Transfer students who have completed more than 30 credits must declare a major at the time of application for admission. Before declaring a major, students should seek the advice of the chairperson of the department or division responsible for the major. A change of major form, available from the chairperson, must then be completed and sent to the Records and Registration Office.

Some academic programs have special requirements which the student must meet before being admitted as a major. For example, fine arts candidates must submit a portfolio of representative work. The department chairperson or program coordinator can provide information on specific requirements.

Changing a Major

Students who have completed at least one semester at Buffalo State may change their major by going to the department office of the new major and filling out a change of major form. It is recommended that they seek the advice of the department chairperson before deciding to change a major. If the change is approved by the chairperson, the form will be forwarded to the Records and Registration Office for recording. Such changes should be made at least four weeks before registration for the next semester so that students are not restricted from registering for any course in their new major.

A student on probation will not be permitted to transfer to a new major without the approval of the faculty responsible for the new major.

Second Major, Single Degree

A student may fulfill the requirements for two majors and receive a designation on the official transcript indicating the completion of a baccalaureate degree with a major and the fulfillment of requirements of a second major. The student must identify a primary major in which the degree will be awarded. In fulfilling the requirements of a second major, the student will make careful use of electives. The student files for a degree in the Records and Registration Office indicating on the degree form the degree major and the second major. Upon receipt of the degree, the student's transcript will contain two entries: (1) the major degree and (2) a second notation that "this student has also completed all requirements for a second major in the appropriate area."

Regular advisement of the student is done by the primary major adviser. Students opting for a second major should contact the department involved, request a review of their progress and academic advice concerning the second major, and complete a declaration of second major form. Only one baccalaureate degree may be awarded for a four-year, 123 credit hour program.

Dual Baccalaureate Degrees

The awarding of two degrees at the baccalaureate level may occur under given circumstances. Course work in fulfillment of requirements for two baccalaureate degrees (B.S. or B.A. or both) may be undertaken simultaneously or concurrently, but requires significant additional course work (at least 32 hours—usually one additional year) in distinctly different fields. Exceptions to this requirement are the bachelor of fine arts and bachelor of technology, in which instances two degrees may be awarded upon the fulfillment of requirements of each degree. Students must earn a minimum of 155 credit hours to qualify for two baccalaureate degrees. Advisement should be sought from the Academic Standards Office, Twin Rise S110.

Leave of Absence/Withdrawal from College

Leave of Absence

Matriculated students who wish to leave the college for personal or financial reasons may be granted leaves of absence of up to one full year as long as they are in good standing with at least a 2.00 cumulative average. They may take up to two full semesters beyond the one which they are completing when applying for a leave. A leave will not be granted to study at another college or university.

Students wishing to begin a leave during a semester already in progress must make application before the end of the first 10 weeks of the semester. These approved leaves will begin at the date of the request, and the semester will be included in the one full year allowed for the leave. Notification to resume studies must be made by the student to the Records and Registration Office.

Emergency medical leaves of absence of varying lengths of time are granted for documented serious injury or illness.

An application for leave of absence form is used to apply for a leave. It can be obtained in the Academic Advisement Office, Twin Rise 100, 878-5336, or in the appropriate dean's office. Begin the application by conferring with the department chairperson.

Withdrawal

To maintain good standing and eligibility for readmission to the college, students finding it necessary to withdraw must do so officially. Refunds of tuition will be made on a prorated basis up to the fourth week of classes of the semester.

To officially withdraw, a student must:

1. Consult the department chairperson and obtain an Application for Withdrawal From College form from the appropriate dean's office.

2. File the form with the Records and Registration Office, Cleveland Hall 204, and complete the withdrawal procedure as outlined by that office.

Failure to file for withdrawal will result in the recording of an E grade in each course in which the student is registered. Where it is impossible to withdraw in person, it must be done by a letter from the student or parent to the dean. Students withdrawing officially with no outstanding obligations or commitments to the college are considered to be in good standing.

Graduation/Commencement

All students expecting to qualify for a degree must fulfill certain requirements. They are:

1. File application with Records and Registration Office, Cleveland Hall 204, by the specified date. Failure to make application before the date may eliminate the student from the commencement program and unduly delay the granting of the degree.

2. Students must meet all financial obligations to the college and return all college property.

3. Students must meet all curricular requirements. They must have completed the prescribed curriculum for their major. If requirements have changed since they were admitted to a program, they may choose to graduate under the old or new requirements.

a. Students must maintain a 2.00 cumulative average for all course work taken at the college. The cumulative average for the courses taken in the major field must also be at least 2.00. All students must satisfy the English composition and basic mathematics requirements.

b. Students must have taken 60 hours in the general education area.

c. All candidates must have completed a minimum of 45 hours of upper-division course work, courses generally considered advanced and numbered 300-499.

d. A minimum of 32 hours, including the last 16, must be completed at the college.

e. Foreign language requirement, where appropriate, must be fulfilled.

f. All students must take two one-credit HPR 100-level physical education activity courses or a two-credit course HPR 200 Fitness for Living.

g. A minimum of 121 academic credit hours must be completed for graduation. This, in addition to the two credits of physical education activity courses, makes 123 credits, the minimum needed for graduation.

h. Students who entered this college in the fall 1987 semester or later are required to successfully complete two "writing intensive" courses indicated by the designation "W" following the course number.

i. Students who entered this college in the fall 1991 semester or later are required to successfully complete three credits each in Global Issues and Diversity.

4. Elementary education majors must fulfill a drug education requirement (described elsewhere in this section) and must file an application for a certificate in teacher education. This application can be picked up at and returned to the Academic Standards Office, Twin Rise S110.

5. No student will be cleared for graduation until all symbols of I, N, or X have been replaced with an appropriate grade.

Commencement

Commencement is held each year at the end of the spring semester. All degree requirements must have been completed before students may participate in commencement exercises.

Grading

The college uses letters to indicate the status of a student at the completion of a course. All grades are awarded at the sole discretion of the faculty member in charge of the course. A grade must be submitted for every student on the course roster at the end of the semester. Students will be apprised of evaluation policies in each class at the beginning of every semester. Instructors will inform students of their standing in each course by the end of the ninth week of the semester, the fourth week of a summer session, or the second week of a summer module. Questions regarding grading policies or an individual grade received in a particular course should be addressed to the instructor or to the instructor's department chairperson.

Grades awarded by the college are:

- A — Superior work
- B — Above average
- C — Average
- D — Below average, but passing
- E — Failure or unofficial withdrawal from a course
- S — Satisfactory
- U — Unsatisfactory
- P — Pass
- F — Fail

The following letters are used to indicate status:

- I — Incomplete
- N — Grade delayed
- X — Grade not submitted
- W — Withdrawn

Explanation of Grades

Satisfactory and unsatisfactory grades are reserved for student teaching or other field experience which is not readily evaluated by the normal letter grades and basic skills courses. P (Pass) and F (Fail) grades are given for courses taken on a pass-fail basis (see description below). They may be submitted only under

proper authorization. A "W" may be submitted only when a student has formally withdrawn from a course. An "I" may be submitted only when the department chairperson or program coordinator has been properly notified. An "N" may be given when course work normally carries over from one semester to another and when it is necessary to delay grading to a subsequent semester. This is intended for graduate theses/projects and internships. The "N" may be submitted only with the permission of the department chairperson or program coordinator.

Incompletes: An instructor may grant an incomplete only when circumstances leading to a student's failure to complete course requirements are known to be beyond the student's control, for example, serious illness or unavailability of material. An Incomplete Course Contract form must be completed and signed by both the student and the instructor granting the I grade.

Incompletes must be converted to a letter grade by the tenth week of the following spring or fall semester. Anyone not completing the course requirements within this time will automatically have an E recorded. In the event the instructor who granted the incomplete is not able to evaluate the student's fulfillment of course requirements during the stipulated time period, the chairperson or program coordinator will take responsibility for changing the grade.

Pass-Fail System

The pass-fail option permits any matriculated student with at least sophomore standing and a 2.20 cumulative average to take a course for credit without receiving a letter grade of A, B, C, D, or E. Students may enroll in one course each semester or summer session on a pass-fail basis. All modules and sessions combined make up the summer semester. A pass P provides credit but no quality points and is not counted in total hours used to determine cumulative average. A fail F is treated as a failure although the hours are not used in computing the cumulative average. A pass-fail cannot be used as an E-repeat. No more than 18 hours of pass-fail credit may be applied toward a degree. Courses required for the student's major and minor cannot be taken on a pass-fail basis.

Any course, except English composition 100-level courses or any course required for completion of a major or a minor, may be taken on a pass-fail basis. Students must declare their intention to do so by the end of the seventh week of classes in any semester or by the end of the first half of classes in the summer. After receiving the approval signature of the student's adviser, a declaration of intent must be filed with the Records and Registration Office, Cleveland Hall 204. An instructor may choose to substitute a letter grade for the pass if written consent from the student is received and the form is submitted with final grades. Once an application for pass-fail has been submitted, the pass-fail option for that semester has been exhausted. Subsequent filing of a substitution form to receive a letter grade does not allow submission of another pass-fail application for that semester.

NOTE: Students are cautioned that the amount of pass-fail work permitted may jeopardize their chances for admission to graduate or professional school or for career placement.

Quality Point System

The quality point system is used for determining all cumulative averages. A student receives four quality points for each hour of A earned; three points for each hour of B; two points for each

hour of C; one point for each hour of D; and zero points for each hour of E or F. No other letters carry quality point value. The instructor may choose to assign plus or minus grades as well. The possible grades and corresponding quality points are as follows:

A = 4.0	C = 2.0
A- = 3.67	C- = 1.67
B+ = 3.33	D+ = 1.33
B = 3.0	D = 1.0
B- = 2.67	E = 0.0
C+ = 2.33	

A student's cumulative average is computed by dividing the total number of quality points awarded by the total number of semester hours attempted in which a grade carrying quality points is earned.

An example may be useful. A student has the following courses and grades at the end of a semester:

Course	Grade	Credit	Quality Point Value	Quality Points
MAT 161	B-	4	(x2.67)	= 10.68
SOC 101	A	3	(x4)	= 12
ENG 250	E	3	(x0)	= 0
HPR 101	C	1	(x2)	= 2
PHI 220	D+	3	(x1.33)	= 3.99
		14		28.67

The student has attempted 14 credits, successfully completed 11 and earned 29 quality points. The cumulative average is $28.67 \div 14$ or 2.05.

If the student had taken an additional three-credit course, DES 371, and received a P, the cumulative average would not change. If the student received an F in DES 371, using the pass-fail option, the cumulative average would not change.

Change of Grade

Grades submitted at the end of the semester are considered final and may be changed only under these special circumstances:

1. In the event of a clerical error resulting in an incorrect grade, the instructor must submit a written request to the office of the appropriate faculty dean requesting a grade change. Requests will be accepted only during the period before April 1 for fall and summer courses and Nov. 15 for spring courses. The appropriate dean must approve all grade changes.

2. Any other request for a grade change will be considered by the appropriate dean only if accompanied by a full written justification from the instructor.

Repeating Courses

The course must have exactly the same prefix, number, title, and credits to be repeated to earn a passing grade. A student may repeat a course for which an E grade was earned. If the student subsequently passes, only a passing grade and those semester hours completed will be used in determining the cumulative average. If a course is failed more than once and subsequently passed, then the passing grade will replace only one failing grade in the determination of the cumulative average. All grades remain on the permanent record. Students may not use pass-fail to E-repeat a course. A passing grade will not replace an F or U grade. Courses with grades A, B, C, or D cannot be repeated.

Honors

Dean's List

Students earning a one-semester grade point average of 3.50 or higher for a minimum of 12 credit hours will be named to the Dean's Honors List for that semester. Grades of S and P will not be counted. Students are ineligible for honors if they are student teaching or have incomplete course work I, N, X or a grade of U in a course for that semester.

Part-time matriculated students (students carrying less than a 12-hour course load per semester) may be considered for Part-Time Dean's List only after completing 12 credit hours of letter grade work (A-E) at Buffalo State College. The Dean's List designation will be determined once a year at the end of the spring semester for courses taken during that semester and the preceding fall semester.

An honors citation is given graduating students who have maintained a 3.50 or higher average for all work completed here. Students with an average of 3.80 to 4.00 will be designated summa cum laude; 3.65 to 3.79 magna cum laude; and 3.50 to 3.64, cum laude. To be considered for an honors citation, a student must complete at least 60 credits at the college.

No students with outstanding grades of I, U, X, or N may be considered for honors. (See section explaining grades.)

All-College Honors Program

The All-College Honors Program is designed to address the needs of academically gifted students within the framework of the 60-hour general education requirement. The All-College Honors Program requires 30 hours of honors credits earned across disciplines in the arts, humanities, social sciences, math/science, and applied science and technology. Students must maintain a 3.50 cumulative grade point average overall and a 3.25 average in honors courses to remain in the All-College Honors Program.

Students interested in this program should contact the Admissions Office or the coordinator of the All-College Honors Program.

Honors in Majors

Many departments have programs leading to baccalaureate degrees with honors. Generally these departments require special criteria for admission to the departmental major and six credits of predetermined honors work to earn the distinction.

Students interested in Departmental Honors Programs should contact the department of their choice to determine if there is a Departmental Honors Program in the major. Currently, the following majors can be pursued as baccalaureate degrees with honors: Anthropology, Biology, Criminal Justice, Design, Economics, Geography, Geology, Geosciences, History, Journalism, Broadcasting, Performing Arts, Philosophy, Physics, Psychology, and Urban Regional Analysis and Planning.

Honors Convocation

This recognition of academic excellence is held every spring semester. Students with a cumulative grade point average of 3.50 or higher after 45 credit hours are invited to attend the Honors Convocation with family members and a faculty guest. (Transfer students are eligible after completion of 30 credit hours.)

Academic Probation/Dismissal

Good Academic Standing

The term "in good standing" means that a student is eligible or has been allowed to register for and undertake academic course work at the college for the term in question. In some instances a student may be defined as being "on academic probation." The mechanism of academic probation, including any accompanying constraints upon a student's activities, is intended merely as an educational device designed to encourage greater effort on the part of a student who appears to be having difficulty in meeting certain academic standards. Placement on academic probation may precede denial of the right to register for academic course work if certain conditions are not met, but a student on academic probation is considered to be in good academic standing. Any questions concerning whether or not an individual student is in good academic standing will be determined by the campus committee on academic standards.

Probation

A student whose cumulative average falls below a 2.00 is automatically classified as on academic probation. The cumulative average is determined at the end of each semester and is included on the term grade report. A student on probation has until the completion of the next regular semester to raise the cumulative average to 2.00. Failure to do so by that time may result in dismissal from the college.

A student facing dismissal because of a low cumulative average may appeal that status by seeking a hearing before the appropriate Probations Appeal Board. An appointment may be made in the dean's office of the faculty responsible for the student's major program. Uncommitted students (who have not enrolled in major programs) can make such an appointment in the Academic Standards Office, Twin Rise S110. The dean or director of Academic Standards may extend the period of probation according to the merits of the individual student's case.

Each student on probation must report grades to the appropriate office cited above at the end of the semester. The student grade and average report form is available for this purpose.

Academic Dismissal

A student may be dismissed from the college for:

1. Failing any course for the third time.
2. Failing one-half or more of a semester's work.
3. Failure to satisfy the probation regulations.
4. Failure to complete basic skills requirements by the end of the sophomore year.

A student who has been academically dismissed must wait one full year from the time of dismissal before being considered for readmission. If readmitted, all course work taken previously will be considered in computing the cumulative average.

Readmission forms are available in the Admissions Office, Cleveland Hall 206.

Academic Misconduct

All students at the college are expected to display honesty and integrity in completing course requirements and college academic regulations. "Academic misconduct" refers to plagiarism or cheating on examinations or assignments, and is inconsistent with the aims and goals of Buffalo State College. Specifically, students may neither use the work of another individual without proper acknowledgement nor perform work for another individual. Other examples of inappropriate academic conduct

include prior acquisition or possession of an examination or submission of false data. As a result of a sustained allegation of academic misconduct, a low or failing grade for part or all of the course work may be given to the student, at the discretion of the instructor. No penalty for an alleged instance of academic misconduct may be imposed unless the student has been apprised of the allegation, the penalty, and the procedures of due process that are available.

A statement outlining formal college policies and procedures to be followed in cases of alleged academic misconduct will be on file in each dean's office, in the Academic Standards Office, and in the Student Life Office.

Cases of severe infractions of acceptable standards may be brought before the Academic Misconduct Board, chaired by the director of Academic Standards, and may result in academic dismissal.

Academic Eligibility for Financial Aid

Financial aid guidelines require that to continue to receive financial aid a student must show evidence of making satisfactory academic progress toward a degree.

The state (TAP) and federal Title IV (Pell, NDSL, SEOG, CWSP, and Stafford Student Loan/NYSHESC) regulations for eligibility are basically concerned with **program pursuit** for each semester and **satisfactory academic progress**, which is a cumulative item. These regulations affect all students regardless of the date of their first award. (Note Title IV chart on following page.)

Good Academic Standing — is defined as the eligibility charts below suggest. To be in good academic standing a student must have completed the minimum number of credit hours for the appropriate semester of enrollment AND have maintained at least the cumulative grade point average listed for that semester.

Reasonable Progress Toward a Degree — In addition to good academic standing requirements, it is necessary for recipients to be full-time students and to pursue an academic program at a minimum rate of progress.

The charts below indicate the minimum criteria for pursuit of a program and satisfactory academic progress. TAP allows a one-time waiver for students who may be temporarily below the standards of good academic standing. Title IV regulations allow a student to continue receiving aid when mitigating circumstances prevent the student from remaining in good academic standing.

Undeclared Students — To be eligible for TAP or Title IV funds, an undeclared student must declare a major no later than the beginning of the junior year or after the accumulation of 57 credits.

Critical questions may be directed to the Academic Standards Office, Twin Rise S110, 878-5222.

Level Codes (Academic)

Students are given class designations according to the number of credit hours they have earned. Undergraduate levels are:

- Freshmen — 0 to 28 hours
- Sophomores — 29 to 56 hours
- Juniors — 57 to 88 hours
- Seniors — 89 hours and over

TAP Academic Eligibility Chart

		Award Terms										
		Semester	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th
EACH SEMESTER	Pursuit of Program											
	1. No. of credit hours enrolled	12	12	12	12	12	12	12	12	12	12	12
	2. No. of credit hours completed in the previous semester with a passing or failing grade	0	6	6	9	9	12	12	12	12	12	12
CUMULATIVE	Satisfactory Academic Progress											
	3. No. of credit hours through end of previous semester	0	3	9	21	33	45	60	75	90	105	
	4. Cumulative grade point average through end of previous semester	0	1.00	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	

Title IV Academic Eligibility Chart

		Award Terms										
		Semester	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th
EACH SEMESTER	Program Pursuit											
	1. No. of credit hours enrolled	12	12	12	12	12	12	12	12	12	12	12
	2. No. of credit hours completed in the previous semester with a passing or failing grade	0	6	6	9	9	12	12	12	12	12	12
CUMULATIVE	Satisfactory Academic Progress											
	3. No. of credit hours accrued through end of previous semester	0	3	9	21	33	45	60	75	90	108	
	4. Cumulative grade point average through end of previous semester	0	1.50	1.80	1.80	1.90	1.90	2.00	2.00	2.00	2.00	

Alternate Methods of Earning College Credit

Advanced Placement Examinations

Credit may be granted for acceptable scores in approved advanced placement examinations, provided the subjects meet the curricular requirements of the specialized units of the college. Approved examinations include: New York State College Proficiency Examinations (CPEP), College Entrance Examination Board Advanced Placement Examinations (AP), College Entrance Examination Board College Level Examinations (CLEP).

Students receiving the lowest passing grade may be admitted to an advanced course but will receive no credit for the beginning course that was exempted. All other passing grades carry college credit. Before taking such an examination for credit, students already enrolled at the college must receive advance approval from the appropriate department chairperson. When the examination subject is the same as or overlaps a college course already credited, no new credit will be granted.

Course Challenge

Each department determines which courses may be challenged by examination. Matriculated undergraduate students may

earn college credit by challenging the specially designated courses. The following rules apply:

1. Total challenge credit may not exceed 30 credit hours.
2. A course in which a student is currently enrolled may not be challenged.
3. A course may not be challenged more than once.
4. Credit earned will be recorded as credit (CR) only rather than by grade.
5. No credit will be awarded when the challenged area duplicates an area for which credit already has been awarded.
6. A student *must* be a matriculated student to register for a course challenge.

Contract

Taking a course by contract is one form of independent study open to students who have reached sophomore level and are in good academic standing. Students are provided with a course outline, bibliography, statement of responsibilities, and dates by which responsibilities are to be met. Students may then pursue the course independently under the guidance of a faculty member. The number of conferences, type of evaluation, and culminating activity will be decided by the faculty member and the student before registration for the course. These requirements must be filed with the department chairperson.

Freshmen are also eligible to take courses by contract under special circumstances. They may do so if:

1. They are in their second semester of a one-year course and have a grade of **A** or **B** in the first semester part of the course.
2. They have successfully challenged the preceding course in the sequence.
3. They have entered the college with excellent high school school records or have done honors work in pertinent fields in high school.

Application forms are available in the academic department and the Records and Registration Office, Cleveland Hall 204, and must be filed with that office by the deadline date published in the class schedule each semester. Applications must be signed by both the instructor and department chairperson.

Credit for Experiential Learning

Credit for college-level experiential learning is available. Matriculated students who consider their previous learning experience as college-level creditable may enroll in AEL 300, Educational Assessment and Portfolio Development, a three-credit course. Enrollment in AEL 300 will be granted only with permission of the Lifelong Learning Office. Permission is contingent upon the interested individual being a matriculated student and attending an information session which is conducted each August. This information session is designed to familiarize individuals with the portfolio development process. In AEL 300, students will conduct a self-appraisal and inventory of all potentially creditable prior learning. The portfolio will be treated as an application to appropriate departments for the award of college credit.

Within the guidelines noted below, credit for experiential learning follows essentially the same principle as transfer credit — students may receive credit for knowledge gained elsewhere that conforms to existing college courses. Students may receive a maximum of 30 credit hours. Credit will be awarded on the basis of its correspondence to existing Buffalo State College courses. Credit earned will be recorded as credit (CR) only, rather than by grade.

For information, contact the Lifelong Learning Office, Twin Rise 100, 878-5906.

Cross Registration

Students who have reached the sophomore level may take courses at any public or private college in Western New York with which Buffalo State has a cross-registration relationship for degree credit as long as they maintain a 12-hour credit load at Buffalo State. They may enroll for no more than one course elsewhere in any semester. Students who fall below the 12-hour load at the college will forfeit any credits earned at another institution that semester under the cross-registration procedure.

Students wishing to take a course on another campus that will apply toward a major must receive permission from the department chairperson. Cross-registration approval forms are available at the Records Registration Office, Cleveland Hall 204, and must be signed by the department chairperson and returned to the Registration Office for signature. Students must then take the signed cross-registration approval to the appropriate campus where they must register according to the registration procedure of that campus.

Off-Campus Study

Courses may be taken at other institutions locally or elsewhere for transfer credit as long as approval from the department chairperson is obtained and the proper forms from the Records and Registration Office, Cleveland Hall 204, are filled out and returned to that office.

Students are urged to have transcripts of all course work completed elsewhere forwarded to the Records and Registration Office as soon as possible. Any credits taken at a two-year institution after a student has achieved upper-division status cannot be applied to degree requirements. Course work undertaken elsewhere, other than by cross registration, will be recorded as credit on the college transcript.

Independent Study (499)

Independent study provides students with the opportunity to pursue a topic that may be covered only briefly or not at all in regular course offerings. Students may choose a faculty sponsor who is an expert in the selected topic, and together they work out all aspects of the study, including the method of evaluation. The description of the study must be approved by the chairperson of the department sponsoring the study.

Students electing to do independent study should have a degree of knowledge in the area they have chosen in addition to a strong motivation to work alone much of the time. Independent study is never a substitute for a course already being offered that term.

Specific requirements for independent study are:

1. Sophomores, juniors, and seniors who have satisfactorily completed basic courses or their equivalent in the area of study chosen are eligible to participate. They need a minimum cumulative average of 2.00 and an average of at least 2.00 the previous semester plus a better than 2.00 average in work completed in the selected area. Freshmen who have successful advanced preparation in the selected area may also be allowed this option.

2. The study must be relevant to the student's total program, and it must be such that the student will derive special benefit from supervision by the college staff. The study must meet standards established for such programs by the department or program.

3. No independent study may be undertaken for fewer than three credit hours. A maximum of 30 credit hours in all areas may be taken independently by a student. No more than two independent studies may be taken in one semester.

Further information is available from the department chairpersons and program coordinators. Application forms are available in the academic department and the Records and Registration Office, Cleveland Hall 204, and must be filed with that office by the deadline date published in the class schedule each semester.

Project (495)

Upperclassmen may undertake a project related to a required course for up to three credit hours per project. No more than six semester hours of academic project work is allowed. Application forms are available in the academic department and the Records and Registration Office, Cleveland Hall 204, and must be filed with that office by the deadline date published in the class schedule each semester.

Internship (488)

Internship programs provide students with guided and supervised field experiences (experiential learning) as part of their degree programs. Students who wish to participate in the program MUST have at least a 2.00 GPA and a background of courses or experience within the area of interest. Approval for experiential learning situations must be obtained from either the student's adviser or the chairperson of the department within which the student is a major, the supervising faculty member, and a chairperson of the department within which credit will be granted. An individual student will be permitted to apply a maximum of 15 credit hours toward the baccalaureate degree.

Topics Courses (189 and 389)

The topics format provides the opportunity for in-depth study and examination of rapidly and significantly changing disciplinary issues, topics, or practices and may also be used to accommodate requests of external agencies or the specialized resources of visiting faculty members. An individual student may accumulate a maximum of nine credit hours in one discipline.

Military Service Educational Experience

College credit may be awarded for education received through military service, specialty schools, technical training schools, and basic training programs. Request for such credit should be made to the Admissions Office, Cleveland Hall 206. Documents showing completion of such courses should accompany all requests.

The maximum credit allowed from such sources is 15 hours. Evaluation of this experience is based on its relation to college degree requirements and recommendations suggested by the American Council on Education Credit Manual.

Credit by Evaluation

Up to 45 credit hours may be accepted from the following sources:

Source	Maximum Credit Hours
1. Published examinations	30
No more than 18 may be in general examinations	
2. Course challenge	30
3. Military service courses	15
4. Non-collegiate institutions	15
5. Proprietary institutions	15

Published Examinations: Included in this category are nationally given subject and general examinations sponsored by the College Level Examination Program (CLEP), Advanced Placement Program (APP), and College Proficiency Examinations (CPE). Passing grades are required for credit.

Course Challenge: Requirements are outlined above.

Military Service Courses: Requirements are outlined above.

Courses from Non-Collegiate Organizations: For credit to be granted, the institution must be approved by the State Education Department and listed in its "A Guide to Educational Programs in Non-Collegiate Organizations." Non-collegiate organizations are those whose primary function is not education, such as the American Institute of Banking. Such credit applies primarily to the major and is determined by the appropriate department.

Courses from Proprietary Institutions: The institution must be approved by the State Education Department and listed in its official publication of approved institutions. Proprietary institutions are privately owned and profit-making such as Bryant & Stratton Business Institute. Such credit is applied primarily to the major and is determined by the appropriate department.

Transcript of Record

Official transcripts of records are not issued directly to students but will be forwarded upon request to authorities whom the student may designate.

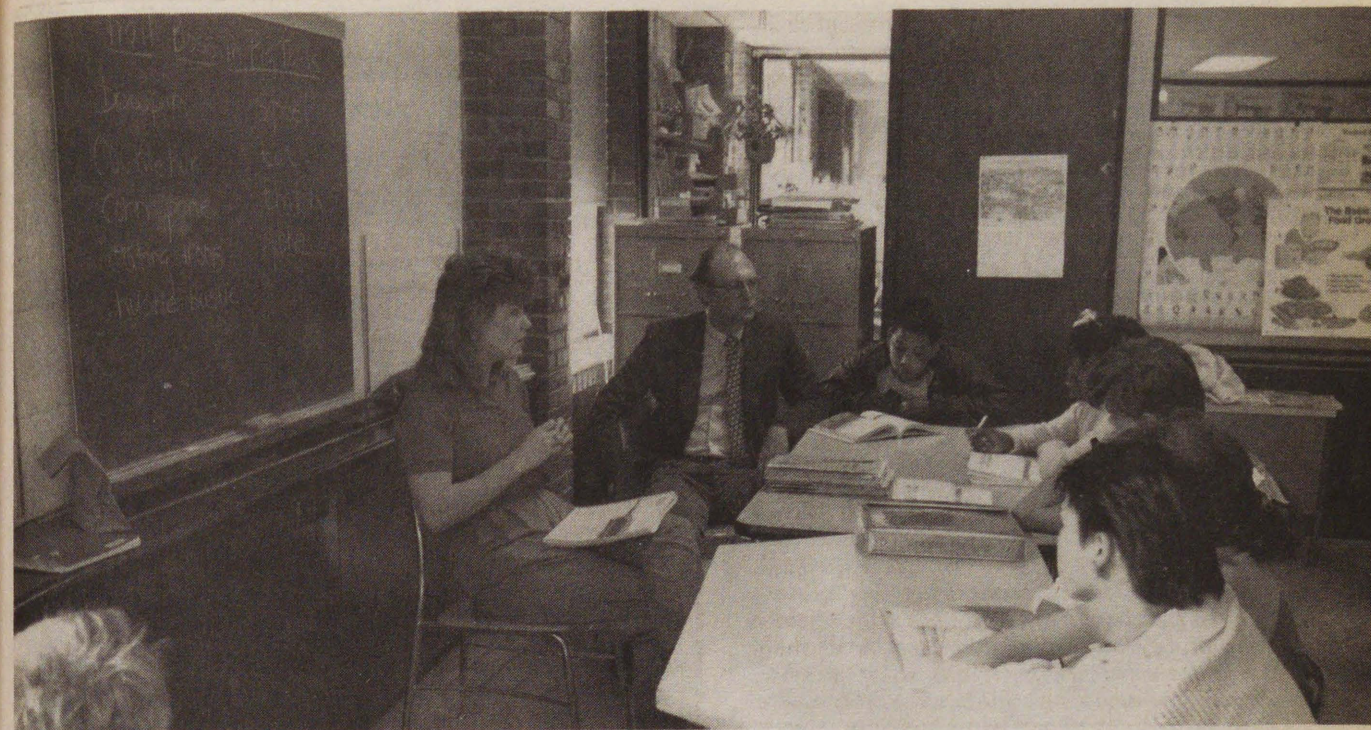
A student copy may be ordered for personal use. A \$5 fee must be paid for each transcript requested. Proper photo identification and 24-hour notice is required when picking up the student copy. Transcript request forms are available in the Records and Registration Office, Cleveland Hall 204.

Transcripts will not be furnished for students who have incurred a financial obligation to the college.

Transcript requests sent by mail include the student's name, current address, student (Social Security) number, dates of attendance, graduation date (if applicable), name and address of the party to whom the transcript is to be sent, the student's signature authorizing release of the transcript, and a \$5 check or money order payable to State University College at Buffalo. All checks or money orders must include student (Social Security) number.

Transcript requests by telephone cannot be honored.

All requests are acted upon in the order in which they are received. Sufficient time is necessary for processing. Requests for transcripts should be made well in advance of the date on which the transcript is needed.



Teacher Certification

New York Certification

All students who successfully complete an approved program in teacher education will be recommended to the New York State Education Department for a certificate of qualification. Applications for certification can be obtained from the Teacher Certification Office in Caudell Hall 108.

The New York State Education Department regulations require an examination. A satisfactory performance on this exam is necessary before a certificate can be issued.

Teacher Certification Examination

Starting September 1993, successful completion of the New York State Teacher Certification Examination is required for New York state certification in K-6 or 7-12 in an academic area. Teacher certification in other areas requires successful completion of either the New York State Teacher Certification or the National Teacher Examination. Information concerning the examinations can be obtained from the Teacher Certification Office in Caudell Hall 108.

Dual Certification

Certification in two teaching areas — such as high school English and social studies or elementary education and special education — gives students wider career possibilities. Like a dual major, dual certification may require a student to complete more credits than the 123 required for graduation. A list of possible dual certification combinations is available in the Teacher Certification Office, the office of the dean of the Faculty of Applied Science and Education, the office of the dean of the Faculty of Natural and Social Sciences, and the office of the dean of the Faculty of Arts and Humanities.

Interstate Certification

As a participant in the Interstate Certification Project, Buffalo State has reciprocity agreements with a number of other states allowing its graduates to be certified there. These include reciprocity with 32 states for classroom teachers, with 10 states for vocational teachers, and with 14 states for administrative personnel. These lists are posted near the Teacher Certification Office in Caudell Hall 108.

Drug Education

All persons certified to teach in the public elementary schools of this state are required by state law to have had sufficient background in the area of drug education so they are prepared to give adequate instruction which will discourage the misuse and abuse of alcohol, tobacco, and other drugs and promote attitudes and behavior that enhance health, well being, and human dignity. Students should check with their advisers about ways of fulfilling this requirement.

Secondary Education Professional Core

All secondary education programs include a 24-credit hour professional core. The core is intended to fulfill the requirements of Buffalo State's registered programs in secondary education, State Education Commissioner's Regulations, and National Council for Accreditation of Teacher Education (NCATE). Therefore, the following courses represent the professional core of the certification requirements in all secondary education programs.

SST 200/SED 200	Field Experience: Secondary Education and Related Careers
EDU 303/SED 303	Educational Psychology for Adolescents
EDU 403/SED 403	Forces Influencing Secondary Education

EDU 416/SED 416 Teaching Reading in the Secondary Schools*
 XXX XXX/XXX XXX Methods in the Content Area
 XXX XXX/XXX XXX Student Teaching and Professional Seminar in Content Area

*Mathematics majors substitute MAT 181-182

(Teacher education programs offered by Buffalo State College are accredited by the National Council for Accreditation of Teacher Education.)

For more information regarding certification procedures, contact the Teacher Certification Office in Caudell Hall 108.

Certification for B.S./B.A. Degree Holders

Holders of a B.S. or B.A. degree may complete certification requirements in secondary education programs. It is advised that they commit to the appropriate major. Otherwise, there is no guarantee that required course work will be available. The following requirements apply.

1. The secondary education professional core, as described above, must be completed.
2. A department may require subject matter courses in the major area to remove deficiencies.
3. All requirements listed in the professional core and all subject matter courses must be completed before the student teaching semester.
4. A full semester of student teaching (12-15 credit hours) must be successfully completed. Student-teaching placements will be based on availability of faculty resources after the program majors are assigned.

Holders of a B.S. or B.A. degree interested in certification for elementary or exceptional education are advised to commit to the appropriate major. Otherwise, there is no guarantee that required course work will be available.

Student Teaching

Student-teaching experiences are coordinated through the departments. Each student must fulfill the requirements in the Student Teaching Handbook, which may be distributed prior to student teaching or obtained from the Teacher Certification Office in Caudell Hall 108. Evidence of successful completion of the General Knowledge and Communication Skills portions of the NTE must be presented to the department by June 1 for a fall semester placement or by October 1 for a spring semester placement.

Transportation to Off-Campus Instructional Sites

Students have the responsibility for providing their own transportation to off-campus sites for required courses, including student teaching and participation.

Unit of Credit

The semester hour is the unit of course credit. It represents completion of one 50-minute class period per week for one semester. A course having the three class periods a week will earn three semester hours of credit. Studio, laboratory, and shop classes usually earn one credit for each two hours of attendance unless otherwise indicated. The college expects student preparation of two hours for each hour in class.

Waiver of Academic Regulations

Students are expected to adhere to all regulations of the college. However, unusual and extenuating circumstances may warrant a modification of certain regulations.

Students should not request a waiver of any regulation without very strong evidence to justify the waiver. No retroactive requests will be honored.

The director of Academic Standards makes decisions on requests for waivers which do not relate to a student's major after consulting with the Academic Appeals Committee. The director's decision is final. A minimum of one month is necessary to process academic appeals.

Decisions on requests for a waiver related to a student's major are made by the appropriate department chairperson in accordance with procedures established by the department or area faculty.

Transfer Students

Credits previously earned will be evaluated for all transfer students upon receipt of official transcripts, and all transfers will receive a copy of this evaluation. A maximum of 91 semester hours may be transferred from other accredited institutions, no more than 65 hours of which may be transferred from two-year colleges.

No credits will be accepted from a two-year institution after a student has earned an associate's degree or its equivalent (57) from a four-year institution.

All passing grades will be evaluated on the same basis as grades earned by students at this college.

Most credits from another institution will be accepted, although the college cannot guarantee how credits earned at a two-year institution will relate to bachelor's degree requirements. The most common cases in which transfer credits are not accepted are:

1. Secretarial science courses (except for transfers in the business education or office administration majors).
 2. Developmental courses in mathematics, English and learning skills.
 3. Courses in theology or religion with sectarian emphasis.
- Only credit is transferable. Grades, quality points, and cumulative averages do not transfer.

The evaluation of transfer credits is recorded on an audit sheet. Each department has such a form arranged to reflect all of the major and general college requirements which have already been fulfilled and those which remain.

Departments reserve the right to refuse to accept transfer credits in fulfillment of their own major requirements. Whether or not a course fulfills a major requirement may be open to discussion with the department chairperson or academic adviser, and it is useful to have a copy of the catalog from the previous institution available.

7

Special Academic Programs and Facilities



Special Academic Programs and Facilities

Academic Skills Center

The Academic Skills Center offers students professional support by developmental education specialists to facilitate educational and academic growth. The center is designed to provide developmental and enrichment assistance to students who are referred for or seek services. Created to meet the needs of the diverse college population, the center works with student services and academic departments to help students acquire and strengthen college-level academic and study skills. The center is responsible for services to individuals with disabilities required by the Americans with Disabilities Act. The specific services of the Academic Skills Center include:

1. Improvement and development of academic skills, especially reading, math, and writing, through course work and tutoring.
2. Development and implementation of support programs for probationary students and students identified as at risk.
3. Instruction, reinforcement, and enhancement activities to maximize academic potential.
4. Diagnosis of academic skills deficiencies with basic skills testing and appropriate placement.
5. Supplemental instruction activities to promote success in selected courses.
6. Computer-assisted instruction in reading, writing, math, selected courses, and preparation for the math competence examination, the GRE, and the New York State Teacher Certification Examination.
7. Non-credit instruction in word processing.
8. Individual and group instruction in English as a second language.
9. Support services for students with disabilities.
10. Intensive advisement for students in the special consideration program.

Burchfield Art Center: The Museum for Western New York Arts

Established in 1966, the Burchfield Art Center is both a dedicated and a regional museum. It collects, conserves, exhibits, and cultivates the achievements of Western New York artists, with an emphasis on the work of renowned American watercolorist Charles E. Burchfield (1893-1967).

Because Burchfield had a deep and abiding interest in the arts and education, the center also has become a multifaceted cultural forum for the literary arts and for music. The museum serves as a resource center for studies in American art through its educational programs, lectures, symposia, and archives.

The center serves the college community as a teaching museum. The exhibitions and collections curator teaches an Exhibition Techniques course, enabling students to participate in planning, developing, and installing exhibitions. The education curator trains students to become docents — guides who can knowledgeably teach others about the collection and lead tours of the exhibitions.



Located in Rockwell Hall at the Elmwood Avenue entrance to the campus, the center is open from 10 a.m. to 5 p.m. Tuesday through Saturday and from 1 to 5 p.m. on Sunday. A visit reveals the talent and artistic heritage of Western New York, from the traditional to the cutting-edge.

E. H. Butler Library

Located in the center of the campus, Butler Library provides seating for 1,200 and houses a diverse collection of more than 500,000 books. In addition, 600,000 microforms, more than 10,000 audiovisual items, and subscriptions to 2,100 journals are maintained. The library is an up-to-date research facility with Sherlock, the online catalog, accessible from any terminal on the campus network, by dial-up, or from terminals in the library. Information Services provides skilled reference librarians to assist students using the catalog, CD-ROM indexes, traditional indexes, and the many other specialized reference tools. Learning Systems provides multimedia, self-instructional facilities, including computers for student use. Archives/Special Collections contains information about the college, student organizations, and special collections. The Curriculum Lab houses elementary- and secondary-level books, including current textbooks, and children's literature. There is also a Creative Studies collection. Informational handouts detailing library services, hours, maps, and other important data are available upon request in the Information Services Department.

Computing Services

Computing Services provides computing hardware and software support for instructional and research activities on campus. The computer hardware includes capabilities of supporting over 200 ports on large mainframe computers: locally Digital (DEC) VAXes and an IBM 3090 at the State University of New York at Binghamton. Terminals located across the campus, which number over 300, access these computers over a local area network. Access to computers at over 1,500 colleges and universities is provided by INTERNET, BITNET, and Decnet network connections. Students and faculty members can obtain a user code through classes and departments. There are more than 300 microcomputers for student and staff use, including Zenith (IBM compatible) PC/XT/AT, Apple II, and Macintosh. Administrative computing support is being converted from a Unisys A-10 mainframe to the Digital (DEC) VAX environment (scheduled to be completed by August 1993).

Available software consists of all major programming languages, such as APL, BASIC, C, COBOL, FORTRAN 77, Lisp, Pascal, and IBM Assembler and JCL under MVS; a variety of sophisticated software packages, such as SPSSX, SAS including ETS and SAS/GRAPH, Oracle, RDB, Minitab, IMSL, Ansys, and DI-3000 and Tellgraf for Graphics; and WordPerfect and WPS for word processing. Lotus and dBASE are also available in the PC student lab.

The Instruction and Research section of Computing Services offers seminars and workshops to introduce students and faculty to new and existing computing facilities. Help with resolving software and system problems is also available. The Remote and Central Operations section conducts tours of the computer facilities.

A faculty workroom in Twin Rise 112 has six DEC VT330 terminals, a Macintosh and Zenith microcomputer, and peripheral equipment connected to the VAX through our local area network. This facility is available for use 24 hours a day, seven days a week.

Administrative Information Systems support student records, financial, personnel, alumni, and other miscellaneous campuswide operational systems.

Educational Opportunity Program

The Educational Opportunity Program is an academic and student support service program designed to assist students who have been both traditionally underrepresented in higher education and in need of financial assistance.

Initiated in 1967, it is the largest special program in the SUNY system and has become a model for other colleges and universities.

The primary goals of the Educational Opportunity Program are:

1. To provide an opportunity for underrepresented (e.g., African-American, Native American, Hispanic, and Asian-American) and disadvantaged students to gain admission to Buffalo State College.
2. To provide sufficient support services necessary to enhance the ability of students to successfully complete a baccalaureate degree.
3. To develop a positive relationship between Buffalo State College and the Buffalo community and to better communicate our goals, objectives, and service to the community.

By virtue of enrollment in the Educational Opportunity Pro-

gram, every student is entitled to all the rights and privileges accorded to all Buffalo State College students in addition to special services designed to enhance their success. Each student is assigned a counselor who not only helps the student learn more about himself and the academic environment, but also serves as a communication link between the Educational Opportunity Program and college administration. Counselors are skilled at providing academic and financial aid advisement, personal and social counseling, and career planning and advisement.

To assist students in overcoming specific academic problems, the college offers developmental courses in English, reading, and mathematics. All such courses below the 100 level are non-degree courses and may not be counted toward fulfilling degree requirements. In addition, Educational Opportunity Program students encountering difficulty in a particular course may take advantage of the Academic Resource Center, where qualified tutors and instructional staff work on a one-to-one basis or with small groups.

The Educational Opportunity Program provides a six-week summer program for new students and participates in freshmen and transfer programs with the New Student Programs Office. The orientation programs are designed to assist freshmen and transfer students prepare for academic advisement and registration.

There are a variety of social, cultural and educational activities planned by the college to add a further dimension to the college experience. Annually, the Educational Opportunity Program sponsors an honors convocation to recognize achievement and academic excellence in the classroom.

The Educational Opportunity Program counseling, tutorial, and administrative offices are located in Twin Rise South on the 5th, 6th, and 7th floors. The Educational Opportunity Program Admissions Office is located in Cleveland Hall 207. Admissions information can be obtained by calling 878-4415/878-4429. General information regarding EOP eligibility and application can be found in the SUNY Application Guidebook.



Great Lakes Center for Environmental Research and Education

Implemented in the fall of 1989, the Great Lakes Center for Environmental Research and Education is charged with increasing the college's role in environmental Great Lakes research while focusing its efforts on more effective protection and development of Western New York resources. The center's four units are: the Division of Environmental Toxicology and Chemistry, which continues the work of the highly respected Great Lakes Laboratory; the Division of Aquatic Biology; the Division of Water Resource Management; and the Division of Environmental Education. The center's divisions maintain several modern laboratories on the campus devoted to biological and chemical research. A field station located at the confluence of Lake Erie and the Niagara River is a part of the Aquatic Biology Division, which maintains several research vessels. An extensive library of publications is available on the Great Lakes, water pollution, pesticides, toxic chemicals, and aquatic organisms.

Whitworth Ferguson Planetarium

Students taking astronomy courses have the opportunity to use the planetarium as a laboratory. They assist in maintaining, improving, and operating the equipment and in developing presentations about the planets, stars, and the constellations in our universe. The planetarium schedules a number of different public shows and programs during each school year. All students may attend these presentations for a small fee. The planetarium also arranges educational programs attended by thousands of area school children and adults annually, and students are welcome to attend these daily shows on a space-available basis.

Health Professions: Preparation and Advisement

The health professions require a strong undergraduate preparation in science. Buffalo State College offers all the necessary and appropriate courses needed for admission to the health professions schools. A vigorous advisement system is offered for students interested in such professions as medicine, dentistry, optometry, osteopathic medicine, podiatry, veterinary medicine, chiropractic medicine, and allied health professions. Students also have successfully transferred into upper-level programs in nursing, physical therapy, pharmacy, and medical illustration. Guidance is offered in helping students prepare for national aptitude exams and in assembling applications for health professions schools.

There is no specific degree required by the health professions schools. Students may major in any degree program that is of interest, but most health professions candidates are biology, chemistry, or psychology majors. It is recommended that students interested in health careers begin chemistry early in their program at the college.

Highly recommended are the following areas of study and courses:

Area of Study	Courses
Biology (8 credits)	BIO 115, 116, 214
Inorganic Chemistry (8 credits)	CHE 111, 112

Organic Chemistry (8 credits)	CHE 201, 202
General Physics (6-8 credits)	PHY 111, 112
Math-Calculus (3-6 credits)	MAT 126, 127
English (6 credits)	ENG 101, 102

Students planning a career in the health professions should contact the pre-health adviser or secretary for advisement information. Most medical, dental, and other professional schools require pre-health professions committee evaluation as part of a student's application.

For further information, contact the pre-health committee secretary, Pam Cercone, Biology and Chemistry Departments, Science Building 313, 878-5204.

Instructional Resources Center

The Instructional Resources Center provides media support for classroom instruction, scholarly activities, and research. The center assists faculty, administration, and staff through a one-stop production facility, from scripting to the finished production.

The IRC produces professional slide shows, photography, graphics, transparencies, and television and audio productions. It provides audiovisual equipment in support of instruction. Also, the IRC provides a full range of satellite programming, e.g., educational programs and videoconferences via four college satellite dishes. Programming is transmitted by the college's 12-channel cable TV system to over 300 locations throughout the campus.

In addition, lectures and special events may be audio or videotaped and made available for future use. Another service provided by the IRC is the repair of all college-owned AV, TV, and computer equipment. Moreover, the center's professional staff is available to assist in recommending equipment for departmental purchases.

The facilities are located in the Communication Center, 878-4104.

Interdisciplinary Units

The college has a number of interdisciplinary units designed to give expanded attention to areas of particular importance. The **African and African-American Studies** Unit coordinates academic programs related to the study of the history and culture of African and African-American peoples. The **General Studies** Unit coordinates a program directed, primarily, at working adults. The **Secondary Education** Unit encourages excellence in secondary teacher education while serving as a line of communication linking the many secondary education programs on campus. The **Women's Studies** Unit coordinates and initiates activities with other academic and community groups involved with women's issues.

Performing Arts Center

The Buffalo State College Performing Arts Center coordinates the use, by both on- and off-campus groups, of the college's two auditoriums — Upton Hall auditorium and Rockwell Hall auditorium. In addition to its administrative function, the center brings a wide variety of programs and events — many with an international flavor — to Rockwell Hall's beautifully refur-

bished and acoustically acclaimed auditorium. Tickets to Performing Arts Center events at both campus venues are available at the Rockwell Hall box office, 878-3005.

Prelaw Advisement

To assist students who eventually plan to attend law school, the college provides a prelaw advisement service. Faculty members familiar with the legal profession are available for consultation on such matters as recommended undergraduate courses, LSATs, law school admission practices and related areas. An undergraduate moot court program, one of the few of its kind in the country, is available during the spring semester. It is strongly recommended that students interested in law take advantage of this service by contacting the chairperson of the advisement committee, Classroom Building B215, 878-6205.

Research in Aquatic Biology

Several biology faculty conduct research in various aspects of aquatic sciences. Much of this research involves work on Lake Erie and the Niagara and Buffalo Rivers, and is based at the college's field station located on the Buffalo waterfront. This field station, currently undergoing major expansion and renovation, supports several research vessels including the 42-foot R/V Hutchinson.

General faculty research interests involve microbial ecology, parasitology, evolutionary genetics, limnology, ichthyology, wetland ecology, biotelemetry, phycology, behavior and physiological ecology, and ornithology. Ongoing research projects include biology of zebra mussels, role of bacteria in Buffalo River sediments, energetics of fish migration, predator-prey interactions in plankton communities, and conservation genetics and biology of endangered wildlife.

Special Study Options

International Education

Buffalo State College is strongly committed to providing all students the opportunity to develop a better understanding of different cultures. Students have a rich opportunity to expand their educational experience through study abroad. They can apply for any one of about 220 SUNY-sponsored programs. Of these, Buffalo State sponsors six: two in Australia and one each in England, Italy, Japan, and Spain. The program in Salamanca, Spain, is jointly sponsored with SUNY at Buffalo. The development of additional programs is in progress.

Credits earned while abroad are placed on the student's official transcript and all grades are included in computing the GPA. Specific information regarding overseas programs, costs, application procedures, and other information can be obtained in the International Education Office, Cleveland Hall 416.

Students planning to go overseas are encouraged to make preparations early. Foreign language knowledge is frequently very beneficial, even if it is not required for many of the programs abroad. Programs are subject to change without notice.

Buffalo State College-sponsored overseas academic programs are as follows:

Australia

The University of South Australia-Adelaide, South Australia
Fall semester only. Program runs from mid-July through late November.

Courses available in a variety of academic fields such as aboriginal studies, education, business, technology, arts, liberal arts, science, and culture.

The University of Newcastle, Callaghan, New South Wales
Fall, spring, or academic year. Fall: mid-July through late November; spring: late February through early June; academic year: late February through late November.
Courses available in a wide variety of academic fields such as aboriginal studies, education, humanities, technology, business, visual and performing arts, social welfare, English, and culture.

England

Manchester Polytechnic

Fall semester only. Program runs from mid-September through late December.

Courses available in a wide variety of academic fields such as education, social work, technology, humanities, science, psychology, management, and business.

Italy

Siena Program associated with the University of Siena

One semester of college-level Italian required. Fall or spring semester. Fall semester runs from early September through mid-December; spring semester runs from late January through early May.

Courses available: Italian Language, Contemporary Italian Civilization, History of Italy, Sculpture in Siena, Painting in Siena, Art and Architecture in Siena, Ceramics I and II. (Courses offered based on enrollment.)

Japan

Kansai University of Foreign Studies, Osaka

Academic year only. Program runs from late August through late May. Asian Studies program. No language required. Courses available: Japanese Language, History, Culture, Management, Marketing, Economic Development, Japanese Literature, Japanese Art, Japanese Theater, Religion, Ceramics, and others.

Spain

University of Salamanca (Jointly sponsored by SUNY at Buffalo)

Summer only. Program runs from late June through late July or early August. One year of college-level Spanish required. Five-week program with first week in Madrid. Language competency test administered by the University of Salamanca. Courses available: Language, Culture.

National Student Exchange

A program designed to expand the scope and variety of academic, social, and cultural experiences available to students, the National Student Exchange enables qualified students to spend a semester or a year at more than 100 colleges and universities in nearly 50 states and U.S. territories. To be eligible, a student must be in good standing and have a minimum GPA of 2.50.

The program, organized through the National Student Exchange Consortium, provides an inexpensive means of studying in another state by paying tuition at Buffalo State College or at the host school at the resident rate.

For further details, visit or call the Special Programs Office, Cleveland Hall 416, 878-4328.

Visiting Student Program

Through the Visiting Student Program, Buffalo State students may attend other participating colleges and universities for a semester or a year. Interested students should consult with their academic advisers about institutions that may best meet their educational goals. Applications are available from the Special Programs Office, Cleveland Hall 416, 878-4328. Departmental approval is required as part of the application process. Deadlines are May 1 for the fall semester and November 1 for the spring semester. There is no Visiting Student status during the summer.

A variety of paid internship opportunities in Albany are also available to undergraduates in most fields of study through the following programs: The Albany Semester Program, the New York State Senate Session Assistant Program, and the New York State Assembly Intern Program.

A cooperative semester is also available in Washington, D.C. through American University.

Cooperative Education

Cooperative Education is a collegewide program which gives students the opportunity to gain career experience while pursuing classroom studies. Periods of classroom study are alternated with periods of employment on a job or internship which is related to academic and career objectives.

This is a voluntary program available to all undergraduate students who have completed a minimum of one year on campus and are in good academic standing. College credit may be earned for each cooperative experience. Cooperating organizations and institutions cover a broad spectrum of disciplines and careers including government agencies, profitmaking organizations and not-for-profit organizations. Further information can be obtained from the appropriate dean's office for students seeking credit.

Creative Studies

The Center for Studies in Creativity is a learning laboratory where developing, exchanging, and disseminating resources for understanding and applying creativity is focused on empowering people, transforming knowledge, and enhancing the quality of life. The center's mission is to provide an educational program, conduct research and inquiry, and offer a range of special services to facilitate the development of creative individuals, teams, and organizations.

The center offers a variety of academic classes that assist students in maximizing their creative potential. The focus of course work in creative studies is on increasing students' awareness and understanding of the nature/nurture of creativity and on learning about creative problem-solving methods and techniques.

In addition to individual course options, the center offers an undergraduate minor for students who are interested in pursuing in-depth study. The minor provides students with experience in a variety of creative problem-solving approaches and leadership situations. Graduate work leading to certification or a master of science degree in creative studies is also available.

In conjunction with Butler Library the center provides one of the most comprehensive compilations of print and non-print material on creative thinking and creative problem solving in the United States. In addition, the center maintains a Creativity-Based Information Resources (CBIR) database of annotated periodical literature relating to the study of creativity and innovation.

Institute of Jewish Studies

Special credit and non-credit courses are available to Buffalo State students through the Institute of Jewish Studies at the Jewish Center of Greater Buffalo's Amherst Building, 2640 N. Forest Rd., Amherst, N.Y. 14228. The institute is operated by the Buffalo Bureau of Jewish Education. There is a nominal materials fee.

All courses are subject to minimum registration. Credit-bearing courses are PHI 121, 205, and 350 in the Philosophy and Religious Studies Department. Further information can be obtained by consulting the course descriptions of the department or by calling the institute at 689-8844.

Paul G. Bulger Lifelong Learning Center

The Lifelong Learning Center coordinates and facilitates services for the college's evening and adult students. These services include information sessions, short courses, and open houses presented in cooperation with other college offices. The center publishes an evening bulletin each semester and administers the credit process for experiential learning. The Lifelong Learning Center's Evening Student Assistance Center is open until 9 p.m. Monday through Thursday and until 4:30 p.m. Friday when classes are in session throughout the academic year. Students are encouraged to visit the center anytime they require information, college forms, or whenever they encounter difficulties. The Evening Student Assistance Center is responsible for providing evening students with academic and student services similar to those provided for the college's daytime students. The general studies degree program is handled through the Lifelong Learning Center.

The Lifelong Learning Center is located in Twin Rise 100, (716) 878-5906 (fax: 878-5930).

ROTC

Students may enroll in Army ROTC at neighboring Canisius College by cross-registering for the appropriate courses.

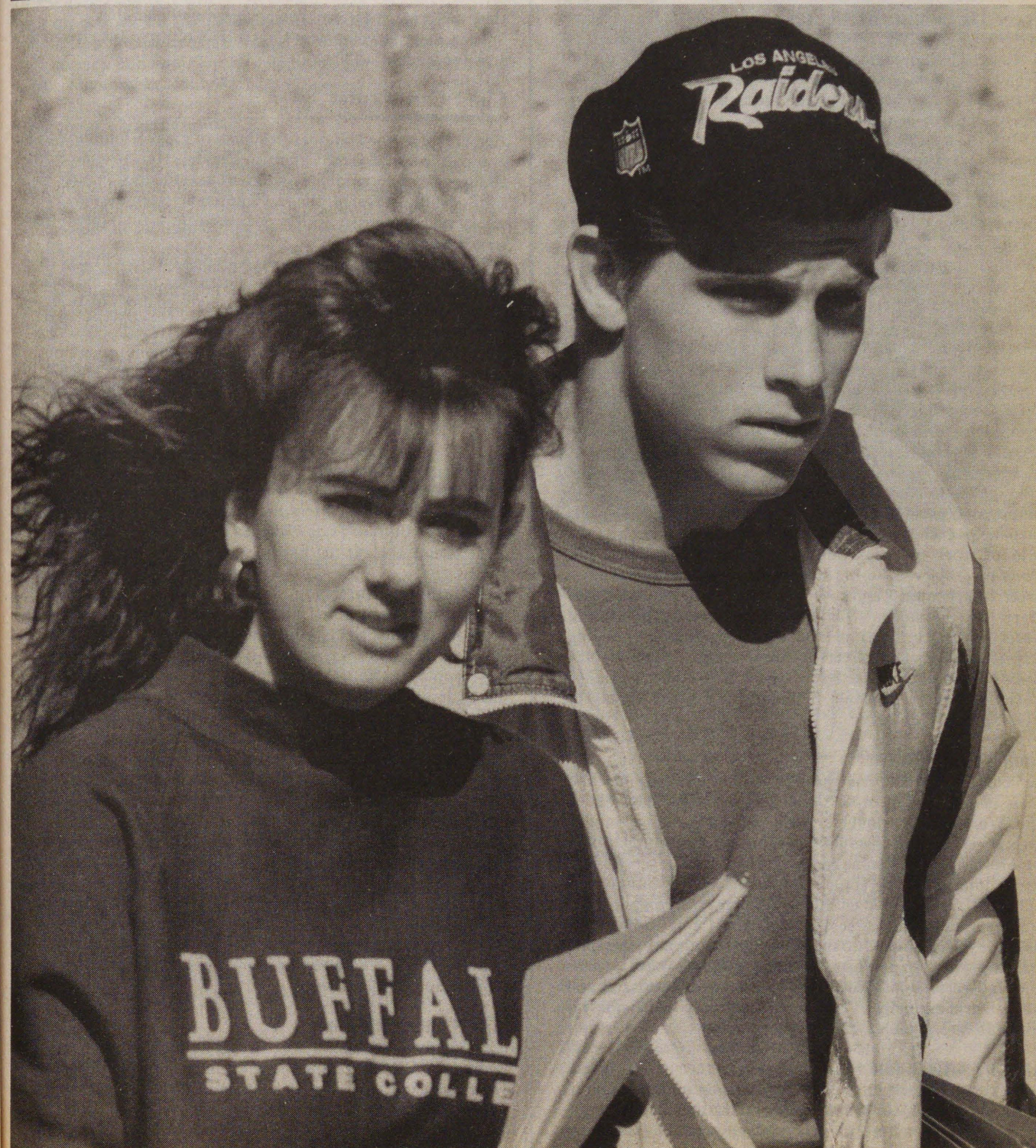
Uncommitted Academic Advisement Center

The Uncommitted Academic Advisement Center, a division of the New Student Programs and Academic Advisement Office, located in Twin Rise S120, (878-5223) is responsible for providing academic advisement for all uncommitted (0900) students. The center also offers general academic counseling, helps to interpret academic policies, and provides students with assistance in solving academic problems. The center is staffed with faculty who are especially interested in helping students.

Each semester, uncommitted students will receive letters reminding them that academic advisement is required for all Buffalo State students prior to course registration. Students are requested to schedule individual appointments for advisement. Students are also welcome to walk in or call the center for assistance at any time.

8

Student Services



Student Services

Career Development Center

The Career Development Center (CDC) is not just for seniors. Freshmen, sophomores, juniors, seniors as well as graduates all turn to the CDC for help in making decisions about majors and careers and for assistance in finding jobs. Located in Cleveland Hall 306, the CDC is open year-round, including some evening hours.

Making Decisions About Majors and Careers

Students use the CDC to learn what their options might be in the world of work. They can learn how their own unique qualities translate into careers and occupations. They also can find out about careers and occupations that relate to each Buffalo State major. A series of "Careers In..." handouts gives specific information regarding various fields. Finally, the CDC makes sure students learn methods for making good decisions about careers and majors. The services offered by the CDC that help students explore careers and make decisions are:

Career Counseling — Students may meet individually with a career counselor to discuss career decisions.

Career Assessment Inventories — Students may be given inventories for help in assessing their interests and personality traits as they relate to careers.

Computer-Assisted Career Guidance (DISCOVER) — This system helps each student see where he or she would fit into the world of work by displaying the majors, occupations, and careers most relevant to the student's own special qualities.

Career Information Center — This is an up-to-date reference library used by students to find detailed information about careers they are considering. Information is available regarding entry occupations and careers for every Buffalo State major.

Career Fairs — Representatives of career fields come on campus to offer students a personal firsthand look into a variety of career options.

Finding Employment

The center teaches students how to go about finding jobs and assists in uncovering professional opportunities available to them. Workshops, current literature, and free handouts on such topics as resume and cover letter writing, interview preparation and job searching, a resume and cover letter critique service, and a mock interview program are among the services offered.

Through the Employment Referral Program, a computerized database system, the Career Development Center brings Buffalo State job candidates to the attention of national, state, and local employers. In addition, large recruitment events, such as Teacher Recruitment Days and the Summer Camp and Job Fair, are held annually. A references file service is available for use in job and graduate school applications.

Selecting a Graduate School

Resources, including advisement concerning graduate school programs, a graduate school fair, applications for graduate admissions tests, and a complete graduate school library com-

plete the center's services for postgraduate planning.

The Career Development Center is an office of the vice president for student affairs.

Child Care Center

Accredited by the National Academy of Early Childhood Programs, the Child Care Center in Caudell Hall is open to the children of undergraduate and graduate students, faculty, and staff of Buffalo State College. Children between the ages of six weeks and five years will be accepted on a first-come, first-served basis.

The center is open year-round Monday through Friday from 7:30 a.m. to 5 p.m. It provides nutritious meals and snacks prepared under the supervision of a qualified dietitian or nutritionist. Meals include a morning snack, a hot lunch, and an afternoon snack.

A weekly charge is established for each family based on daily usage of the center. Check with the center for a current sliding fee schedule. Phone 878-5335.

Commuter Services

Commuter Services offers many services to help commuter students at Buffalo State College. The office is located in Student Union 311, off the Fireside Lounge, 878-5533.

Off-Campus Housing

Apartments, rooms for rent, roommates wanted, subletter wanted, tenants' rights information: Commuter Services provides off-campus housing listings as a service for students. College employees do not inspect, approve, or supervise the premises described, and the college does not become involved with landlord/tenant disputes. Tenants' rights manuals, sublet leases, and inspection forms are a sample of the information available to students. An off-campus manual containing information about living in the Buffalo area is also available.

Carpool Program

Reserved parking on campus: Commuter Services offers a computerized carpool program. Carpooling is the answer for students who need a ride to school, want to drive or share the ride in, or already have three people in a car. Commuter Services will match up students who live in close proximity to each other. All registered cars with three students in the car are guaranteed parking in Lot Y between the hours of 7 and 11 a.m. Pick up an application in the office.

The Volunteer Center

Get involved on campus or in the community through the Volunteer Center. Volunteering can meet your needs, whether you want experience in your field, need to earn college credit, or just want to explore career options. Volunteering can be an exciting and rewarding experience. There are a variety of volun-

teer opportunities both on campus and off campus. You may volunteer for a couple of hours, one day, or a semester. Placements are individualized to meet your needs, interests, and schedule. Each spring semester, the Volunteer Center holds a Volunteer Recognition Reception to recognize the efforts of Buffalo State College volunteers.

Commuter Dining Card

Food for less with a Faculty-Student Association Commuter Dining Card. Purchase as little as \$5 on your card, and pay no tax with each purchase. This is deferrable against financial aid awards. Eat now, pay later! Pick up an application in the office.

Leadership Clearinghouse

The Leadership Clearinghouse is a coalition of individuals interested in leadership development at Buffalo State. A number of workshops pertaining to leadership are offered to all students each semester. Another event is the leadership experience offered at a corporate site each semester to students who are nominated by campus faculty and staff. Each spring the clearinghouse offers a recognition lunch for students who have participated and faculty and staff who have nominated students for the corporate experience. The clearinghouse also publishes "The Student Lifeline" newsletter each semester. Individual students and student organizations interested in leadership are encouraged to take advantage of the clearinghouse's offerings. Students interested should call the office to find out how to get involved.

The Commuter Locker Room is designed for students who are tired of carrying around all those books and supplies. Students must supply their own lock. Lockers can be signed out in the office, free of charge.

Electronic typewriters with correction tape are available free of charge in the office during office hours. Students need their BSC ID. Students must supply their own paper.

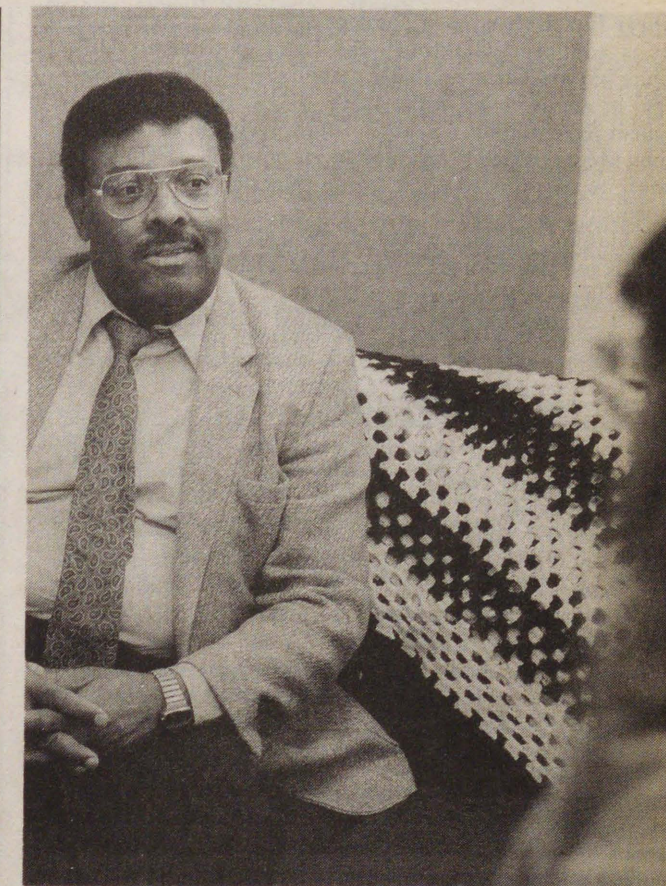
Information regarding transportation is available at the Information desk located in the lobby of the Student Union. Metro Bus/Rail schedules are available. Students may also purchase Metro Bus passes and tokens at reduced rates. The Ticket/Travel Center offers Amtrak, airline, and bus tickets.

Counseling

The Counseling Center provides professional psychological services to students experiencing developmental or situational difficulties which may interfere with their ability to take advantage of the educational opportunities offered by the college. The staff includes licensed psychologists, counselors, social workers, and professionals in training. The center offers a variety of services: individual and group counseling, intervention in crisis situations, skill development workshops, limited psychiatric consultation, psychological testing, and help with academic, personal, and vocational problems. Developmental programming is also offered in the areas of wellness, retention, substance abuse, stress management, cultural diversity, acquaintance rape prevention, and gender/sexual identity issues.

Information shared in counseling is confidential and is protected to the full extent of the law.

Our services are limited to short-term counseling, and referral



is provided to students to link them with appropriate community helping resources for more long-term assistance.

While counseling is not provided to faculty or staff, center counselors are available for consultation and also offer classroom presentations on topics of psychological interest.

The Counseling Center is open from 8:30 a.m. to 5:00 p.m. with later hours available at least one evening a week. Appointments may be made by phoning 878-4436 or stopping by the office (Porter Hall basement). After-hours emergency service is provided in collaboration with Crisis Services (834-3131), a 24-hour community hot-line service.

Dean of Students

The primary mission of the dean of students is to maintain the quality of the learning environment at Buffalo State College. To accomplish this the dean fulfills numerous roles.

The dean is the "red tape cutter" for students. When normal channels aren't working or in special situations, the dean will assist a student or student group with any difficulty encountered on campus.

Student Life — The dean works closely with the Student Life Office to maintain and improve the living/learning climate on campus. The myriad of issues that face a college community are addressed by the dean of students through committee work and action task forces. AIDS, crisis intervention, rape and sexual assault, and minority student concerns are examples of these issues.

College Judicial System — The code of Rights and Responsibilities is administered through the Dean of Students Office. Copies of the Code are published annually in the college newspaper or are available in the office.

Student Recognition — Selection of the recipient for the President's Medal, which is awarded to an outstanding graduating senior, is coordinated each spring semester by the dean of students.

In addition, the dean works closely with community elected officials and law enforcement personnel in an effort to enhance student life.

The Dean of Students Office is located in Student Union 306, 878-4618.

Faculty-Student Association

The Faculty-Student Association is comprised of three divisions: Dining and Vending Service, College Store, and General Services Division.

The Faculty-Student Association is governed by a 13-member board of directors comprised of elected faculty, students, and professionals, and by representatives of administration appointed by the college president. The FSA office is located in Campus House (878-5211) and is open Monday-Friday, 8:15 a.m.-4:30 p.m. throughout the year. Inquiries about student employment in the areas listed below can be directed to this office.

Campus Dining

Dining and vending service is available every day of the week, and students have a choice of many campus restaurants. The **Plaza Complex**, open five days a week in the Student Union, houses a cafeteria, **Bengal Burger, Deli, and Bakery. The Cookery** (pizza and calzones), **Fitness Food Center, The Ice Cream Place, the Quick Stand, and The Park** are located in the Student Union, and are open seven days a week. **The Restaurant** is open Monday through Friday in Moot Hall. **The Bite**, located in Moore Complex, is a take-out snack bar (tacos, chicken wings) open Monday through Sunday. **The Weekender** in Moore Complex serves a la carte brunch Saturday and Sunday. **Dinner Plus** at Moore Complex serves complete dinners Monday through Sunday. Vending machines are located throughout the campus. Catering services are available by calling 878-4433.

A schedule of restaurant hours can be obtained by calling the FSA office at 878-5211. Call FOOD (3663) on any campus telephone for daily menu offerings.

College Store

The College Store is located in the basement of the Student Union (878-5509). The store carries books and educational materials for course-related use and other merchandise to meet the casual needs of the college community. Included in the wide range of merchandise are: new and used textbooks, general paperbacks, bargain books, art, school, and office supplies, emblematic merchandise, greeting cards, gifts, sundries, and computer hardware, software, and supplies. Some additional services offered are: book special orders, film processing, gift wrapping, money orders, fax service, and refrigerator, typewriter, VCR, and movie rentals.

The store accepts cash, personal checks, MasterCard and Visa. Personal charge accounts are not available. Hours of operation are: Monday-Thursday, 8 a.m.-5:30 p.m.; Friday, 8 a.m.-3:30 p.m.; Saturday, 11 a.m.-2:30 p.m. Extended hours are offered at the beginning of each semester. Summer hours are: Monday-Friday, 8 a.m.-4 p.m.

Campus Pharmacy

The Campus Pharmacy is located on the second floor of the Weigel Health Center. The pharmacy offers prescription services and non-prescription products. The hours of operation are: Monday, Tuesday, Thursday, and Friday, 9 a.m.-4 p.m. The pharmacy is closed during the summer.

General Services

The General Services Division operates the pool room and coin-operated amusement games in the Student Union, in addition to overseeing washers and dryers in the residence halls and copiers in Butler Library.

The pool room is open seven days a week during the academic year.

The manager of General Services has an office in the Student Union (878-4029).

Health Center

The Weigel Health Center provides health and wellness services for all registered students, including commuters.

In addition to diagnosis and treatment of illnesses and injuries, the professional staff stresses health education and preventive medicine. No appointment is necessary, and there is no charge for most services, with the exception of special services such as allergy injections, for which there is a nominal fee. Students are also encouraged to discuss personal problems with the professional staff with the assurance of complete confidentiality.

The health center is open 9 a.m. to 8 p.m., Monday through Thursday and until 4:30 p.m. on Friday. There are also special hours on Saturdays and during the summer. Please check with the Health Center (878-6711) for the exact schedule.



Immunization Requirements. New York state requires all students to be in compliance with the law regarding measles, mumps, and rubella. Please check with the Health Center if you are unsure of your status. The law requires that your financial aid be put on hold and that you be withdrawn from all classes if you are not in compliance. No appeal is possible and this action is irreversible. All students are responsible for meeting the requirements of the law and should consult with Health Center staff. Immunizations are provided at the Health Center at low cost.

The Sexuality Center, one of the programs within the Health Center, offers special services to men and women. It is located on the second floor of the Health Center. Education concerning contraceptive choices is provided by trained peer educators. Students and staff offer outreach seminars that teach prevention through communication and awareness of risky behavior. A special program is being developed in the area of AIDS prevention. Pregnancy counseling is offered. All medical exams for contraception and routine gynecological care, as well as examinations for sexually transmitted diseases for both men and women are offered without charge at the Health Center.

The Student Health Insurance Plan is designed specifically to meet the needs of college students. It covers laboratory fees, X-rays, basic dental service at our Dental Clinic, and prescription drugs, in addition to providing hospital, surgical, and other benefits. Limited major-medical benefits also are included with the option of purchasing an additional plan to supplement this coverage up to \$1 million. The Student Insurance Service Office is located in Weigel Health Center 204, 878-5121. A trained representative is available to explain policy provisions and to help students submit claims. The International Health Insurance Program is required of all international students and is also administered through this office.

The Weigel Health Center also provides these special facilities:

Campus Pharmacy. The Faculty-Student Association sponsors a professional pharmacy that offers prescription services to all registered students. Prescriptions are competitively priced and over-the-counter medication is also available. Students enrolled in the Student Health Insurance Plan may fill their prescriptions at no charge. The pharmacy is located on the second floor at Weigel Health Center, 878-5824.

Laboratory Service. A private lab provides services at the health center by appointment. Fees for laboratory services are covered by the Student Health Insurance Plan. Students not enrolled in the plan are directly responsible to the lab for payment.

Dental Clinic. This clinic is funded by United Students Government. All activity fee-paying students are eligible to have their teeth cleaned and x-rayed, emergencies dealt with, dental needs diagnosed, and preventive instruction supplied. Fees for basic services are covered by the Student Health Insurance Plan. Presentation of ID card is required. Phone 878-6716.

Intercollegiate Athletics

Intercollegiate Athletics and United Students Government sponsor varsity competition in eight sports for men (basketball, cross country, football, indoor track, soccer, swimming and diving, tennis, and track and field) and nine sports for women (basketball, cross country, indoor track, soccer, softball, swimming and diving, tennis, track and field, and volleyball). Club teams in such sports as ice hockey, baseball, lacrosse, bowling, and rugby are also funded through USG.

International Student Affairs

A variety of assistance is available to international students through the International Student Affairs Office, Student Union 400, which offers academic advisement and personal counseling in addition to aid regarding visas, work permits, and relevant regulations of the Immigration and Naturalization Service. A special three-day orientation program is provided for incoming international students at the beginning of each semester and tests are administered for English language competency and placement.

This office also coordinates the American Host Family Program, which pairs international students with American families, and the International Friendship Program, which pairs incoming international students with American students. It also coordinates a Global Perspectives Program with the larger Western New York community and the college's International Alumni Program. A semi-annual newsletter, a special booklet entitled "Information for New Students From Abroad," and a "Directory of Faculty and Staff With International Qualifications" are published. Various cultural events are planned throughout the year to add an international flavor to campus life.

Minority Student Services

This office provides an atmosphere where students are encouraged to discover and strengthen their talents. The office supports these programs:

Mentor Program — Pairs freshmen students of color with upperclassmen, faculty, staff, or Buffalo State graduates who act as role models and advisers.

CHAMPS — A freshmen-year leadership and academic-skills development experience for students of color.

Well-Made Student Study Hall — Through this program, students can get tutorial assistance, nutritious snacks, and a supportive environment designed to relieve exam stress.

IMHOTEP — A study group on African and African-American history.

Native American Student Services provides culturally sensitive recruitment and retention programs for Native American students; maintains internship and financial aid databases; serves as community liaison; provides referrals for campus and community services; coordinates cultural programming for the campus and outside communities; advises the Native American Student Organization; and networks with member institutions of the SUNY Native American Western Consortium.

The Minority Student Services Office also acts as a referral center for other campus services and assists students in cutting administrative red tape. The office serves African-American, Latino, and Native American students and provides linkages with faculty, staff, and other students. Additional information may be obtained in Student Union 400 or by calling 878-4631.

Orientation

Entering freshmen and transfer students are introduced to many aspects of campus life during orientation sessions, conducted during the summer and early September for students beginning in the fall, and in January for midyear students.

The New Student Programs and Academic Advisement Office plans and conducts sessions designed to meet the needs and special interests of new students. Programs include aca-

ademic advisement, course scheduling assistance, registration, information sessions on academic and student-related services, small group meetings, academic survival workshops, competency testing, and campus tours.

During this period there are also opportunities for meeting faculty, staff, and upperclassmen. A series of evening activities ranging from films, music festivals, and informal parties to barbecues, live theater, and open recreation are planned to give students a taste of the social climate of the college.

Family workshops held during orientation introduce families to administrators and staff who can provide information on such topics as public safety, student health, help resources, residence facilities, and academic services. Attendance at orientation is optional, and a program fee is required for participation. All entering students receive program registration material in the admissions process.

In addition, throughout the first year, the office continues to provide assistance and referrals to new students. These services include the coordination of the Freshman Seminar Program, freshman and family newsletters, the Peer Mentor Program, and other specific programs targeted toward new students.

The New Student Programs and Academic Advisement Office is located in Twin Rise S100, 878-5336.

Public Safety

An independent law-enforcement agency charged with the responsibility of providing a safe environment for the college community, the Public Safety Department is involved in the areas of crime prevention and control, criminal investigations, traffic and parking supervision, physical-plant security, emergency first-aid treatment, disaster coordination, and the maintenance of public order.

Special services provided by the department include:

1. The loan of jumper cables, flashlights, hand tools, or shovels, at no charge.
2. Provision of Operation Identification marking pens and registration of student I.D. numbers for property identification purposes in a statewide computer system.
3. Rape prevention lectures.
4. Bicycle-safety lectures.
5. Assisting motorists with minor vehicle problems or calling for service for them if necessary.
6. Door openings in emergency situations.
7. Escort service.
8. Notification in emergency situations.
9. Found Property Department.
10. Provision of literature on crime prevention, including home safety, personal safety, and basic tips on how to avoid becoming a victim of a crime.

The department is located in Chase Hall 100. For all emergencies or for information, call 878-6333. To make arrangements for lectures or special programs, call 878-6332 or 878-6921 between 8 a.m. and 4 p.m.

Parking Rules and Regulations

The rules governing motor vehicles on campus are intended to assure maximum pedestrian and vehicular safety and to establish the most convenient arrangements possible for students, staff, and visitors. Violations will result in parking summonses. **Parking:** Motor vehicles may park in any of the designated areas shown on the campus map. Maps and parking permits are available in the Public Safety Office. Parking is PROHIBITED:

1. On all roadways.
2. In all fire lanes.
3. On lawns, grass, or grounds.
4. On or over painted lines in parking areas or crosswalks.
5. In such a way as to interfere with free and proper use of a roadway or pedestrian crossing.

The department may authorize the towing away of any vehicle found to be in violation of the college's rules and regulations.

ONLY handicapped persons may use campus parking spaces reserved for the handicapped. Handicapped motorists must obtain a college parking permit and a municipal handicapped parking permit from the municipality in which they live. New York state vehicle registration plates issued to handicapped persons are also valid in campus handicapped parking spaces. Handicapped parking rules are strictly enforced, and violators' vehicles may be tagged and towed away.

Parking tickets may be paid at Chase Hall 100. For more information, call the Traffic Office at 878-3041.

Residence Life (Housing)

The goal of the Residence Life Office is to support, complement, and enhance the academic mission of the college through a dynamic residence life program. Offerings are provided which encourage individual growth and development for a diverse residential student population. Additionally, management systems ensure the orderly and effective administration of all aspects of the program including facility management, house-keeping, and security.

Each residence hall is managed by trained student staff, both graduate and undergraduate. These students, resident directors and resident assistants, are directly responsible to a professional staff member in their area and to the director of residence life. Resident directors and resident assistants advise and assist students, promote student health and safety, and help students initiate educational, social, and recreational programs.

Most residence hall rooms accommodate two students. If no roommate preference is expressed, students are assigned a roommate based on available information. Roommate preferences are honored on a space-available basis. Preferences will be considered only if both students request each other. Each student is provided with a bed, desk, chair, closet space, and a chest of drawers. Students are reminded to bring with them such items as sheets, pillow, blankets, bedspread, towels, and a desk lamp. Both room and board fees must be paid in full before room assignment is finalized.

The residence hall program has many alternatives to offer students. There are two basic living arrangements available. The corridor-style structure is the traditional hall setting with rooms next to each other extending down a long hallway. Lounges in these halls are centrally located on each floor and on the main level. Corridor-style halls on campus include Neumann, Perry and Porter halls. The second type of hall is a suite arrangement in which three or four student rooms connect with a small communal living area. Twin Rise North, Moore Complex and Towers I through IV are designed with the suite setting.

All residence halls are coeducational, which means that they have both females and males residing in the same hall — not the same room. All bathroom areas are single sex. Specialized areas, such as 24-hour quiet floors, all-female floors, or all-male floors are available. Year-round housing is also provided on a space-available basis in Twin Rise North for international students and others who need housing through college break

periods.

Additional information may be obtained from the Residence Life Office, Porter Hall, 878-6806.

Special Services for Students With Disabilities

In accordance with the guidelines established by the Americans With Disabilities Act, Buffalo State College assures all individuals with disabilities access to both academic and student life on campus.

Students who wish to discuss services and accommodations may identify themselves as individuals with disabilities to the coordinator of special services, located in the Academic Skills Center, Twin Rise S210, 878-4041.

When inquiring about services available in areas such as Butler Library, housing, orientation, and parking, individuals with disabilities are encouraged to contact the appropriate offices directly.

Speech-Language-Hearing Clinic

The Speech-Language-Hearing Clinic located in Ketchum Hall 213 provides individual speech-language-hearing services to the college community and to residents of Western New York at no charge. Services are provided by undergraduate and graduate students in the Speech Language Pathology and Audiology Department under the direct supervision of faculty who hold Certificates of Clinical Competence in Speech Language Pathology and/or Audiology and the New York state license in speech language pathology and/or audiology. Services include hearing testing and diagnosis and individual and group therapy for those who stutter, are hearing impaired, or have voice, articulation, or language disorders.

For additional information or an individual appointment, call 878-5502.

Student Government

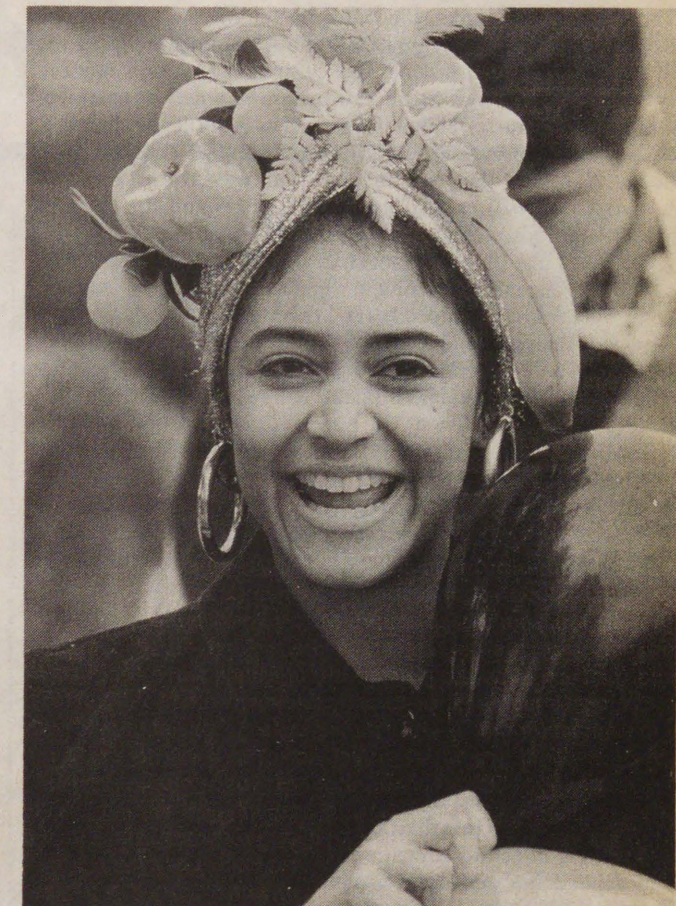
United Students Government (USG) represents the interests of all students and encourages their active participation in educational, recreational, cultural, and social programs and activities. USG also provides a variety of services that seek to enhance the Buffalo State College community. These services range from a resume service to Student Legal Services, which provides quality legal advice. All services are funded through the mandatory student activity fee.

USG consists of three operating branches of governance. The executive branch is responsible for establishing long-term goals for student government. This branch includes the president, executive vice president, treasurer, vice treasurer, and four administrative vice presidents. The Senate is the legislative branch of the USG. Twenty-five student senators are responsible for the allocation of the student activity fee, developing and coordinating activities, and advocating for the rights of the student body.

The USG Senate meets every Tuesday during the academic year at 7:15 p.m. in the Student Union Assembly Hall.

All activity fee-paying students are members of USG and are eligible to run for an elected position in campuswide elections, provided they meet the grade point average and credit hour requirements.

For more information call 878-6701 or stop by Student Union 402.



Student Life Office

The Student Life Office encourages student involvement in a variety of out-of-classroom experiences. Participation in campus activities, organizations, committees, and community service programs enhances academic work and helps students develop their skills, attitudes, and talents.

The Student Life area includes Student Activities, Commuter Services, Greek Affairs, Minority Student Services, and Student Union Operations. The office coordinates programs such as leadership/organizational development workshops, Homecoming, Welcome Back Week, College Bowl, and Who's Who Among Students in American Universities and Colleges.

Whether you are a commuter or resident and no matter what your age, there is something happening on campus for you. For more information on student organizations, activities, and campus committees, stop by the office, Student Union 400.

Student Union

One of the most important buildings on campus is the Student Union, located in the center of campus. It's used by commuters and resident students alike, and it's a great place to meet old friends and make new ones.

The first floor, usually a beehive of activity, houses, among other things, the campus Information Center, the Plaza Complex, Fitness Food Center, The Ice Cream Place, The Cookery,

The Park, Just Drinks, the Side Pocket Billiards and Game Room, the FSA Laundromat, automatic banking facilities, the Elms yearbook office, and the campus FM radio station, WBNY. The College Store downstairs supplies educational materials for course-related use as well as general merchandise. On the second floor are the Fireside Lounge, the Campbell Social Hall, and the Assembly Hall, all used for a variety of activities. The offices of Commuter Services and the Dean of Students are also located on the second floor.

The third floor has eight meeting rooms as well as the offices of United Students Government, International Student Affairs, and Student Life. Included in the Student Life Office are Greek Affairs, Minority Student Services, Native American Student Services, Student Activities, Student Union Operations, and the College Judicial System. Student Union hours are Monday through Thursday, 7 a.m.-11 p.m.; Friday, 7 a.m.-midnight; Saturday, 10 a.m.-midnight; Sunday, noon-11 p.m.

The **Ticket/Travel Office** sells Greyhound bus tickets, U.S. Air airline tickets, and student discounted Metro Bus passes and tokens. A number of student organizations including Casting Hall, Wilderness Adventures, and Student Union Board use the services of this office. Ticket/Travel Office hours are Monday through Friday, 9:30 a.m.-3:30 p.m.

Veterans Certification

The Veterans Certification Office, located in Cleveland Hall 209, 878-5045, provides advisement to current and prospective students who are veterans, servicepersons, or dependents or survivors of veterans, regarding Veterans Administration educational benefits. Information on advance payment, current regulations affecting educational benefits, tutorial assistance, and dependency allowance is also provided.

Public Notice

Designating Directory Information

State University College at Buffalo hereby designates the following categories of student information as public or directory information. Such information may be disclosed by the institution for any purpose, at its discretion.

1. Name, address, telephone number, dates of attendance, class.
2. Previous institution(s) attended, major field of study, awards, honors (includes dean's list), degree(s) conferred (including dates).
3. Past and present participation in officially recognized sports and activities, physical factors (height, weight of athletes), date and place of birth.

Currently enrolled students may withhold disclosure of any category of information under the Family Educational Rights and Privacy Act of 1974. To withhold disclosure, written notification must be received in the Records and Registration Office, Cleveland Hall 204, State University College at Buffalo, 1300 Elmwood Ave., Buffalo, NY 14222-1095, by Oct. 1. Non-disclosure of information will commence immediately thereafter and be effective until Sept. 30 of the following year. Written notification to withhold disclosure must be made each academic year.

State University College at Buffalo assumes that failure on the part of any student to specifically request the withholding of categories of directory information by the deadline date indicates individual approval for disclosure.

Important:

Students Unable Because of Religious Belief To Attend Classes on Certain Days

1. No person shall be expelled from or be refused admission as a student to an institution of higher education for the reason that he or she is unable, because of his or her religious beliefs, to attend classes or to participate in any examination, study, or work requirements on a particular day or days.

2. Any student in an institution of higher education who is unable, because of his or her religious beliefs, to attend classes on a particular day or days, shall, because of such absence on the particular day or days, be excused from any examination or any study, or work requirements.

3. It shall be the responsibility of the faculty and of the administrative officials of each institution of higher education to make available to each student who is absent from school, because of his or her religious beliefs, an equivalent opportunity to register for classes or make up any examination, study, or work requirements which he or she may have missed because of such absence on any particular day or days. No fees of any kind shall be charged by the institution for making available to the said student such equivalent opportunity.

4. If registration, classes, examinations, study, or work requirements are held on Friday after four o'clock post meridian or on Saturday, similar or makeup classes, examinations, study, or work requirements shall be made available on other days, where it is possible and practicable to do so. No special fees shall be charged to the student for these classes, examinations, study, or work requirements held on other days.

5. In effectuating the provisions of this section, it shall be the duty of the faculty and of the administrative officials of each institution of higher education to exercise the fullest measure of good faith. No adverse or prejudicial effects shall result to any student for availing himself or herself of the provisions of this section.

6. Any student, who is aggrieved by the alleged failure of any faculty or administrative official to comply in good faith with the provisions of this section, shall be entitled to maintain an action or proceeding in the supreme court of the county in which such institution of higher education is located for the enforcement of his or her rights under this section.

7. As used in this section, the term "institution of higher education" shall mean schools under the control of the board of trustees of the State University of New York or of the board of higher education of the City of New York or any community college. As used in this section, the term "religious belief" shall mean beliefs associated with any corporation organized and operated exclusively for religious purposes, which is not disqualified for tax exemption under Section 501 of the United States Code.

State University of New York

State University of New York

State University's 64 geographically dispersed campuses bring educational opportunity within commuting distance of virtually all New York citizens and comprise the nation's largest, centrally managed system of public higher education.

When founded in 1948, the University consolidated 29 State-operated, but unaffiliated, institutions. In response to need, the University has grown to a point where its impact is felt educationally, culturally, and economically the length and breadth of the state.

More than 400,000 students are pursuing traditional study in classrooms or are working at home, at their own pace, through such innovative institutions as Empire State College, whose students follow individualized and often non-traditional paths to a degree. Of the total enrollment, approximately 36 percent of the students are 25 years or older, reflecting State University's services to specific constituencies, such as refresher courses for the professional community, continuing educational opportunities for returning service personnel, and personal enrichment for more mature persons.

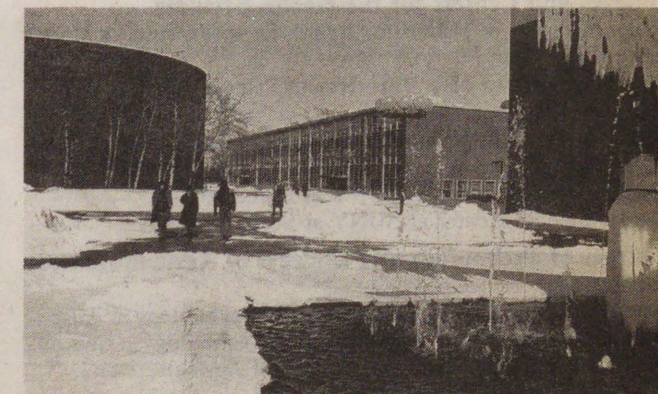
State University's research contributions are helping to solve some of modern society's most urgent problems. It was a State University scientist who first warned the world of potentially harmful mercury deposits in canned fish, and another who made the connection between automobile and industrial exhaust combining to cause changes in weather patterns. Other University researchers continue important studies in such wide-ranging areas as immunology, marine biology, sickle-cell anemia, and organ transplantation.

More than 1,000 public service activities are currently being pursued on State University campuses. Examples of these efforts include special training courses for local government personnel, state civil service personnel, and the unemployed; participation by campus personnel in joint community planning or project work, and campus-community arrangements for community use of campus facilities.

A distinguished faculty includes nationally and internationally recognized figures in all the major disciplines. Their efforts are recognized each year in the form of such prestigious awards as Fulbright-Hays, Guggenheim, and Danforth fellowships.

The University offers a wide diversity of what are considered the more conventional career fields, such as business, engineering, medicine, teaching, literature, dairy farming, medical technology, accounting, social work, forestry, and automotive technology. Additionally, its responsiveness to progress in all areas of learning and to tomorrow's developing societal needs has resulted in concentrations which include the environment, urban studies, computer science, immunology, preservation of national resources, and microbiology.

SUNY programs for the educationally and economically disadvantaged have become models for delivering better learning opportunities to a once-forgotten segment of society. Educational Opportunity Centers offer high school equivalency and college preparatory courses to provide young people and adults



with the opportunity to begin college or to learn marketable skills. In addition, campus Educational Opportunity Programs provide counseling, developmental education, and financial aid to disadvantaged students in traditional degree programs.

Overall, at its EOCs, two-year colleges, four-year campuses, and university and medical centers, the University offers more than 4,000 academic programs. Degree opportunities range from two-year associate programs to doctoral studies offered at 12 senior campuses.

The 30 two-year community colleges operating under the program of State University play a unique role in the expansion of educational opportunity. They provide local industry with trained technicians in a wide variety of occupational curriculums, and offer transfer options to students who wish to go on and earn advanced degrees.

The University passed a major milestone in 1985 when it graduated its one-millionth alumnus. The majority of SUNY graduates pursue careers in communities across the state.

State University is governed by a board of trustees, appointed by the governor, which directly determines the policies to be followed by the 34 state-supported campuses. Community colleges have their own local boards of trustees whose relationship to the SUNY board is defined by law. The state contributes one-third to 40 percent of their operating costs and one-half of their capital costs.

The State University motto is: "To Learn — To Search — To Serve."

University Centers

State University of New York at Albany
State University of New York at Binghamton
State University of New York at Buffalo
State University of New York at Stony Brook

Colleges of Arts and Science

State University College at Brockport
State University College at Buffalo
State University College at Cortland
State University of New York Empire State College
State University College at Fredonia
State University College at Geneseo

State University College at New Paltz
 State University College at Old Westbury
 State University College at Oneonta
 State University College at Oswego
 State University College at Plattsburgh
 State University College at Potsdam
 State University College at Purchase

Colleges and Centers for the Health Sciences

State University of New York Health Science Center at Brooklyn
 State University of New York Health Science Center at Syracuse
 State University of New York College of Optometry at New York City
 (Health Science Center at SUNY at Buffalo)*
 (Health Science Center at SUNY at Stony Brook)*

Colleges of Technology and Colleges of Agriculture and Technology

State University of New York College of Technology at Alfred
 State University of New York College of Technology at Canton
 State University of New York College of Agriculture and Technology at Cobleskill
 State University of New York College of Technology at Delhi
 State University of New York College of Technology at Farmingdale
 State University of New York College of Agriculture and Technology at Morrisville
 State University Institute of Technology at Utica/Rome**
 (Upper-division and master's program)
 (Fashion Institute of Technology at New York City)***

Specialized Colleges

State University of New York College of Environmental Science and Forestry
 State University of New York Maritime College at Fort Schuyler

Statutory Colleges****

New York State College of Agriculture and Life Sciences at Cornell University
 New York State College of Ceramics at Alfred University
 New York State College of Human Ecology at Cornell University
 New York State School of Industrial and Labor Relations at Cornell University
 New York State College of Veterinary Medicine at Cornell University

Community Colleges

(Locally sponsored, two-year colleges under the program of State University)
 Adirondack Community College at Glens Falls
 Broome Community College at Binghamton
 Cayuga County Community College at Auburn
 Clinton Community College at Plattsburgh
 Columbia-Greene Community College at Hudson
 Community College of the Finger Lakes at Canandaigua
 Corning Community College at Corning
 Dutchess Community College at Poughkeepsie
 Erie Community College at Williamsville, Buffalo, and Orchard Park
 Fashion Institute of Technology at New York City***
 Fulton-Montgomery Community College at Johnstown
 Genesee Community College at Batavia

Herkimer County Community College at Herkimer
 Hudson Valley Community College at Troy
 Jamestown Community College at Jamestown
 Jefferson Community College at Watertown
 Mohawk Valley Community College at Utica
 Monroe Community College at Rochester
 Nassau Community College at Garden City
 Niagara County Community College at Sanborn
 North Country Community College at Saranac Lake
 Onondaga Community College at Syracuse
 Orange County Community College at Middletown
 Rockland Community College at Suffern
 Schenectady County Community College at Schenectady
 Suffolk County Community College at Selden, Riverhead, and Brentwood
 Sullivan County Community College at Loch Sheldrake
 Tompkins Cortland Community College at Dryden
 Ulster County Community College at Stone Ridge
 Westchester Community College at Valhalla

*The Health Sciences Centers at Buffalo and Stony Brook are operated under the administration of their respective University Centers.

**This is an upper-division institution authorized to offer baccalaureate and master's degree programs.

***While authorized to offer such baccalaureate and master's degree programs as may be approved pursuant to the provisions of the Master Plan, in addition to the associate degree, the Fashion Institute of Technology is financed and administered in the manner provided for community colleges.

****These operate as "contract colleges" on the campuses of independent universities.

State University of New York

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Chancellor

D. Bruce Johnstone, B.A., M.A.T., Ph.D.

Provost and Vice Chancellor for Academic Affairs

Joseph C. Burke, B.A., M.A., Ph.D.

Senior Vice Chancellor

Harry K. Spindler, B.A., M.P.A.

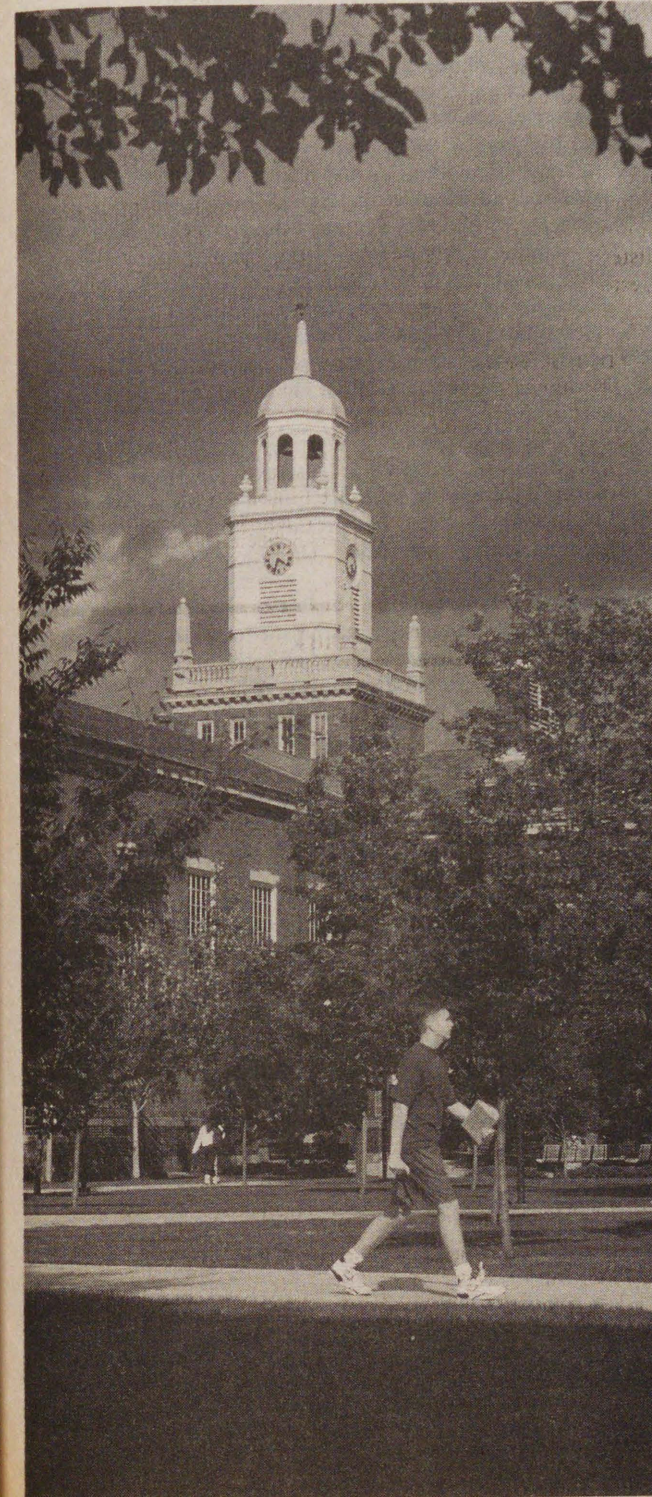
University Counsel and Vice Chancellor for Legal Affairs

Sanford H. Levine, A.B., J.D.

Secretary of the University

Martha J. Downey, B.S., M.A.

Buffalo State College: Important Facts



State University College at Buffalo

College Council

Terms Expires

Ross B. Kenzie, <i>Chairperson</i>	1997
Walter B. Holland Jr., D.D.S.	1993
Randolph A. Marks	1994
Walter E. Moxham Jr.	1995
Donald P. Quinlan	1996
Olivia Smith-Blackwell, M.D.	1998
Paul A. Tokasz	1994
Timothy J. Toohey	1997

Plus a student member

Accreditations

Accrediting Board for Engineering and Technology
 American Chemical Society (Approval)
 American Dietetic Association
 American Speech-Language-Hearing Association
 Board of Regents, University of the State of New York
 Council on Social Work Education
 International Association of Counseling Services
 Middle States Association of Colleges and Schools
 National Association of Industrial Technology
 National Council for Accreditation of Teacher Education

Honor Societies

Alpha Sigma Lambda (Adult Students)
 Epsilon Pi Tau (Vocational Technical Education)
 Kappa Delta Pi (Education)
 Omicron Delta Epsilon (Economics)
 Phi Alpha Theta (History)
 Phi Beta Lambda (Business)
 Phi Delta Kappa (Education)
 Phi Upsilon Omicron (Nutrition and Food Science)
 Pi Delta Phi (French)
 Pi Sigma Alpha (Political Science)
 Psi Chi (Psychology)
 Sigma Delta Pi (Spanish)
 Sigma Pi Sigma (Physics)

Significant Dates in the History of the College

1867 Legislature created the Normal School at Buffalo
 1871 Henry B. Buckham appointed principal; school opened with three departments: Normal, Collegiate, Scientific
 1873 First graduating class—23 graduates
 1886 James M. Cassety appointed principal
 1895 Three-year Primary and Kindergarten Course initiated
 1906 Manual Arts Department established
 1909 Daniel Upton appointed principal
 1910 Household Arts Department established
 1915 Edward H. Butler Jr. succeeded Edward H. Butler as

- president of Local Board
- 1919 Harry W. Rockwell appointed principal
- 1919 Home Economics Program became four-year course leading to bachelor of science in home economics
- 1920 Manual Arts Department changed to Industrial Arts Department
- 1925 Normal course became four-year program leading to bachelor of science in education
- 1928 Name changed to New York State College for Teachers; principal changed to president; accredited by American Association of Teachers Colleges
- 1930 Art Education Department established
- 1931 Moved to present campus
- 1939 Accredited by American Association of University Women
- 1944 Exceptional Children Education Division established
- 1945 Master of science in education degree authorized
- 1948 State University of New York established; college accredited by Middle States Association of Colleges and Secondary Schools
- 1951 President Harry W. Rockwell retired; Dean Ralph Horn became acting president; Harvey M. Rice appointed president
- 1958 President Harvey M. Rice resigned; Dean Ralph Horn became acting president; approval of secondary teacher education curricula in mathematics and science
- 1959 Mrs. Bruce E. Wallis (formerly Kate Butler Righter) appointed chairperson of Local Council
- 1959 Dean Ralph Horn, acting president, retired; Paul G. Bulger appointed president
- 1959 Name changed to State University College of Education at Buffalo
- 1961 Name changed to State University College at Buffalo
- 1962 Approval of secondary teacher education curriculum in social studies; college accredited by National Council for Accreditation of Teacher Education
- 1963 Approval of liberal arts degree program
- 1963 Mrs. Bruce E. Wallis (formerly Kate Butler Righter) reappointed chairperson of Local Council
- 1964 Approval of secondary teacher education curriculum in foreign language and vocational technical baccalaureate curriculum
- 1966 Approval of bachelor of science curriculum with major in home economics
- 1967 President Paul G. Bulger resigned; Dr. Houston T. Robison, vice president for academic affairs, became acting president; E.K. Fretwell Jr. appointed president; master of arts degree authorized with major in English and mathematics; SEEK/Educational Opportunity Program established

- 1968 Master of arts degree with major in history authorized; approval of bachelor of science curriculum with major in industrial technology; Chemistry Department accredited by American Chemical Society
- 1969 Master of arts degree with major in chemistry, biology, and philosophy authorized
- 1970 Bachelor of technology and master of science in student personnel administration degrees authorized
- 1971 Bachelor of fine arts degree authorized; centennial year
- 1972 Accreditation renewed by Middle States Association of Colleges and Secondary Schools; accreditation of teacher education programs renewed by National Council for Accreditation of Teacher Education
- 1975 Master of science in creative studies authorized
- 1977 Master of science in criminal justice and clinical dietetics authorized
- 1978 Bachelor of science in special studies authorized; President E.K. Fretwell Jr. resigned; master of arts and master of science in multidisciplinary studies authorized
- 1979 Dr. Barbara R. Frey, vice president for academic affairs, became acting president; Dr. D. Bruce Johnstone appointed president
- 1980 Bachelor of science in business studies authorized; bachelor of science in business education authorized; bachelor of arts in special studies authorized; bachelor of science in general studies authorized
- 1981 Accreditation of teacher education programs renewed by National Council for Accreditation of Teacher Education
- 1982 Accreditation renewed by Middle States Association of Colleges and Secondary Schools; Ross B. Kenzie appointed chairperson of College Council
- 1983 Engineering technology programs accredited by Accrediting Board for Engineering and Technology; acquisition of master's level Art Conservation Program from State University College at Oneonta
- 1984 Master of science degree in bilingual exceptional children education approved
- 1988 President D. Bruce Johnstone resigned; Dr. Richard A. Wiesen, vice president for academic affairs, became acting president
- 1989 Dr. F. C. Richardson appointed president
- 1991 Ross B. Kenzie redesignated chairperson of College Council
- 1992 Accreditation reaffirmed by Middle States Association of Colleges and Schools

College Administration

F. C. RICHARDSON, PH.D. President
 ROBERT J. GEMMETT, PH.D. Provost and Vice President for Academic Affairs
 GARY J. PHILLIPS, B.S.B.A., C.P.A. Acting Vice President for Finance and Management
 HAL D. PAYNE, J.D. Vice President for Student Affairs
 EDWARD T. HUNT JR., B.S. Acting Vice President for Institutional Advancement

PRESIDENT
OF THE COLLEGE F.C. Richardson, Ph.D.
 Sec. Asst. to the President Susan P. Kendt
 Exec. Asst. to the President Richard J. Foster, M.S.
 Special Asst. to the President for Equity & Campus Diversity Jeffrey J. Wallace, Ph.D.

PROVOST AND VICE PRESIDENT
ACADEMIC AFFAIRS Robert J. Gemmett, Ph.D.
Associate Vice President & Dean,
Undergraduate Studies Neil H. Rudin, Ph.D.
 Asst. Dean, Undergraduate Studies Kathryn A. Moran, M.S.
 Asst. Dean & Dir., Lifelong Learning Robert J. Stephen, M.Ed.
 Dir., Academic Skills Center Russell Macaluso, Ed.D.
 Dir., Academic Standards Leon Smith, Ph.D.
 Dir., Educational Opportunity Program Michael Stevens, M.A.T.
 Assoc. Dir. Cynthia Green-Eggleston, M.S.Ed.
 Asst. Dir., Statistical Services Lily M. Bink, M.S.
 Asst. Dir., Student Services Otilie Woodruff, B.S.Ed.
 Coord., EOP Admissions Fajri Ansari, M.S.
 Coord., EOP Computer Lab Abdollah Hajikandi, M.S., M.A.
 Coord., EOP Academic Services Anthony Chase, M.A.
 Asst. Dir., Counseling Audrey Garrett, M.S.
 EOP Counselors Roslyn Berkovitz, Ph.D.; Alicia Grant, M.S.; Emma McFayden, M.S.; Michael Pirowski, M.S.; Evelyn Rosario, M.A.; Jean-A. Tassy, B.S.

Dir., International Education Lee Ann Grace, Ph.D.
 Dir., New Student Programs & Academic Advisement Susan O. Zirin, M.Ed.
 Dir., Special Programs Wendel B. Wickland, M.S.
Assoc. Vice President & Dean,
Graduate Studies & Research Gerald F. Accurso, Ed.D.
 Dir., Small Business Development Center Susan A. McCartney, M.B.A.
 Dir., Center for Studies in Creativity Scott G. Isaksen, Ed.D.
 Dir., Research Services & Administration Kenneth A. Cross, Ed.D.

Assoc. Vice President, Planning & Academic Support Services Dennis K. Ponton, Ph.D.
 Dir., Butler Library George C. Newman, Ph.D.
 Dir., Instructional Resources (Appt. Pending)
 Chp., Performing Arts Dept. Donna McCarthy, M.A.
 Chp., Philosophy & Religious Studies Dept. George T. Hole, Ph.D.

Dean, Faculty of Natural & Social Sciences Marilyn B. Hoskin, Ph.D.
 Assoc. Dean (Appt. Pending)
 Acting Dir., Great Lakes Center for Environmental Research & Education Eric A. Randall, Ph.D.
 Chp., Anthropology Dept. Jill Nash, Ph.D.
 Chp., Biology Dept. Eric A. Randall, Ph.D.
 Chp., Chemistry Dept. Edward M. Schulman, Ph.D.

Chp., Earth Sciences & Science Education Dept. Jill K. Singer, Ph.D.
 Chp., Economics & Finance Dept. Alex J. Ratkowski, Ph.D.
 Chp., Geography & Planning Dept. Elbridge A. Renning Jr., M.A.
 Chp., Health, Physical Education & Recreation Dept. Donald E. Barr, Ph.D.
 Chp., History & Social Studies Education Dept. Monroe Fordham, Ph.D.
 Chp., Mathematics Dept. Betty J. Krist, Ed.D.
 Chp., Physics Dept. James W. Wells, Ph.D.
 Chp., Political Science Dept. Abdul H. Raouf, Ph.D.
 Chp., Psychology Dept. Jerry F. Cataldo, Ph.D.
 Chp., Sociology Dept. Rosalyn A. Lindner, Ph.D.

Dean, Faculty of Applied Science & Education (Appt. Pending)
 Acting Asst. Dean Richard J. Lee, Ed.D.
 Dir., Center for Development of Human Services David P. Wegenast, D.S.W.
 Chp., Business Dept. Mary A. Davis, Ed.D.
 Chp., Computer Information Systems Dept. William C. Schultz, Ph.D.
 Chp., Criminal Justice Dept. John A. Conley, Ph.D.
 Chp., Educational Foundations Dept. Thomas J. Quatroche, D.Ed.
 Chp., Elementary Education & Reading Dept. David E. Day, Ed.D.
 Chp., Exceptional Education Dept. Donald Logan, Ed.D.
 Acting Chp., Nutrition & Food Science Dept. Ellen M. DeWind, M.S.Ed.
 Chp., Social Work Dept. Ellen T. Kennedy, M.S.W.
 Chp., Speech Language Pathology & Audiology Dept. Chad Nye, Ph.D.
 Chp., Technology Dept. Charles A. Beasley, Ph.D.

Dean, Faculty of Arts & Humanities Patricia W. Cummins, Ph.D.
 Assoc. Dean Raymond Tymas-Jones, Ph.D.
 Chp., Art Conservation Dept. F. Christopher Tahk, Ph.D.
 Chp., Art Education Dept. Michael E. Parks, Ed.D.
 Chp., Communication Dept. W. Richard (Rik) Whitaker, Ph.D.
 Chp., Design Dept. Stephen F. Saracino, M.F.A.
 Chp., English Dept. Theresa F. Platek, Ed.D.
 Chp., Fine Arts Dept. Peter J. Sowiski, M.F.A.
 Acting Chp., Foreign Language Dept. Joseph V. Nardiello, Ph.D.

ACTING VICE PRESIDENT
FINANCE AND MANAGEMENT Gary J. Phillips, B.S.B.A., C.P.A.
Assoc. Vice President & Comptroller Gary J. Phillips, B.S.B.A., C.P.A.
 Asst. to Vice President/PDS Coord. Barbara A. Meyer, B.A.
 Dir., Payroll Mary Ann DeKatz
 Dir., Purchasing Marcia Slawinski
 Dir., Business Affairs John H. Whelan, M.B.A.
 College Accountant Christine Miller, M.S.
 Dir., Student Accounts Richard T. Augustine, M.S.
 Asst. for University Financial Analysis Michael Broderick, B.S.
 Dir., Campus Services Terry M. Harding, B.A.
 Dir., Financial Aid Daniel R. Hunter Jr., Ed.M.
 Assoc. Dir., Financial Aid Michael E. Woodruff, M.S.

Senior Financial Aid Advisers Janet H. Ganley, M.S.;
Craig A. Gallagher, M.S.; Warren J. Hoffman, Ed.M.;
Robert A. Macey, M.A.
Financial Aid Assistant Linda A. Smith, A.A.S.
Registrar Mark T. Bausili, B.A.
Assoc. Registrar Carole S. Harris
Assoc. Registrar Judith A. Miller, M.S.

Assoc. Vice President, Facilities John J. Byrne, B.S.
Dir., Physical Plant Gary H. Kent, M.B.A.
Asst. to Dir., Physical Plant Joseph W. Ball, B.S.
Coord., Facilities Planning James J. Yager, M.B.A.
Asst. Coord., Facilities Planning Steven E. Shaffer, M.A.
Space Management Officer Thomas J. Pepper, Ed.M.
Coord., Environmental Health
& Safety David N. Miller, A.A.S.
Radiation Safety Officer Harold L. Spector, B.A.

Assoc. Vice President, Human Resource Management Dorcas L. Colvin, M.A.
Mgr., Benefits, Staff Development
& Training Susan J. Earshen, M.B.A.
Mgr., Employment & Classification
Systems Michael Daley, M.B.A.
Employee Relations Specialist Emmanuel J. Hillery, M.S.W.
Dir., Admissions Deborah K. Renzi, M.S.W.
Assoc. Dir. Paul T. Collier, M.Ed.
Asst. Dir. Paul T. Bink, M.S.
Asst. Dir. Fajri Ansari, M.S.
Senior Admissions Advisers Lawrence E. Bynum, B.A.;
Gwendolyn Wooten, M.A.
Deborah Jones, B.S.Ed.

Admissions Asst. Deborah Jones, B.S.Ed.
Dir., Budget & Information Services Stan F. Medinac, M.B.A.
Asst. Dir., Budget Rebecca J. Schenk, M.B.A.
Research Systems Analyst Judith B. Basinski, M.B.A.
Dir., Computing Services Raymond A. Chamberlain, B.S.
Assoc. Dir. (Systems) Ronald N. Brown Jr., B.A.
Mgr., Instruction & Research Support Mary Ann Meyer, M.S.C.S.
Mgr., Systems & Data Communications Joel P. Swisher, B.A.
Mgr., Administrative Information Systems (Appt. Pending)
Asst. Dir. (Operations) David L. Cummings, B.S.
Mgr., Operations Ann Dennis, A.A.S.
Mgr., Remote Operations Jennifer D. McMahon
Coord., Operational Services Marcy A. Zulawski
Dir., Public Safety Vern B. Anderson, M.S.Ed.
Assoc. Dir. Louis A. Ward
Asst. Dir. James E. Stenger, B.S.
Asst. to Dir. Melanie Miller

AUXILIARY SERVICES - Faculty-Student Association
Exec. Dir. Gary E. Vickers, M.B.A.
Dir., Dining & Vending Services Peter F. Liberti, M.B.A.
Dir., College Store Louis J. Kaminski, B.P.S.
Dir., Human Resources Karen L. Miller, M.S.
Controller Susan M. Hoadley, B.S.

ACTING VICE PRESIDENT
INSTITUTIONAL ADVANCEMENT & Executive Dir., Buffalo State College
Foundation Inc. Edward T. Hunt, B.S.
Assistant Vice President Modesto A. Argenio, J.D.
News Writer Charles K. Dick, B.S.
Editor/Writer James G. Koelmel, B.A.

Public Affairs Assoc. Alice M. Askew, M.A.
Acting Dir., Alumni Affairs & Dir., Annual Giving Mary E. Greene, B.A.
Dir., Burchfield Art Center Anthony L. Bannon, M.A.
Charles Cary Rumsey Curator Nancy S. Weekly, M.A.
Dir. of Development Catherine A. Carfagna
Education Curator Gerald C. Mead Jr.
Special Events/Volunteer Coord. Joyce Neville, B.A.
Coord., Development Events Patricia A. Chambers, B.A.
Financial Manager James A. Thor, B.S., C.P.A.
Dir., Information Systems & Prospect Management Michael J. Anderson, B.A.
Dir., Major Gifts & Planned Giving Glenn R. Nellis, Ph.D.
Acting Dir., Performing Arts Center Karen I. Kosman, M.A.
Box Office Systems Manager Drew Butkowsky, A.A.S.
Production Manager David W. Kasten, M.F.A.
Manager, Phonathon Terri E. Mazza, B.A.
Research Associate Robert A. Foster, M.S.

VICE PRESIDENT
STUDENT AFFAIRS Hal D. Payne, J.D.
Assoc. Vice President
& Dean of Students Phillip Santa Maria, Ph.D.
Asst. Vice President Charles B. Kenyon, Ed.D.
Sr. Staff Asst. Constance J. Coles, B.S.
Dir., Student Life Kate A. Ward, M.S.Ed.
Coord., Commuter Services John S. Frederick, Ph.D.
Coord., Student Union Donald W. Blundell, M.S.Ed.
Coord., College Judicial System Marsha D. Jackson, M.S.Ed.
Coord., Minority Student Services Gail V. Wells, B.S.
Coord., Native American Student Services Joseph J. Hill, M.S.
Dir., Counseling Edward A. Hattauer, Ph.D.
Asst. Dir., Counseling Joan McCool, Ph.D.
Counseling Staff Lebanon L. Arrington, M.S.W.;
Heidi M. von Harscher, Ph.D.; Barbara Keen, Ph.D.
Psychiatric Consultant Anthony M. Foti, M.D.
Dir., Residence Life James H. Wallace, M.Ed.
Assoc. Dir. Kris A. Kaufman, M.S.
Asst. Directors Ronald A. George, M.S.;
Curtis L. Brickhouse, M.S.; Kristine Niendorf, M.S.
Dir., Student Health Services Edward A. Hattauer, Ph.D.
Medical Dir., Weigel Health Center Theresa R. Stephan Hains, M.D.
Asst. to Dir. Angeline M. Price, R.N.
Physicians, Part Time Lester S. Sielski, M.D.;
Susan T. Eluard, M.D.; Joseph D. Gentile, M.D.
Nurses Barbara A. Chapman, R.N.; Irene M. Kolber, R.N.;
Josephine Terranova, R.N.
Alice H. Sullivan, R.N.

Dir., Sexuality Center Alice H. Sullivan, R.N.
Dir., Career Development Center Stephanie Zuckerman-Aviles, M.Ed.
Asst. Dir. Robert R. Orrange, M.A.
Counselor Carlos E. Tejada, M.S.
Dir., College Judicial System Marsha D. Jackson, M.S.Ed.
Dir., International Student Affairs Jean-Francois Gounard, Ph.D.
Dir., Intercollegiate Athletics Fred J. Hartrick, M.S.
Assoc. Dir. Gail F. Maloney, M.S.
Asst. Dir. Richard J. Bihl, M.B.A., M.S.
Asst. Dir. Jerry S. Boyes, M.A.
Trainer Anthony Sartori, M.S.
Trainer Sandra Hollander, M.S.
Sports Information Dir. Keith A. Bullion, M.S.
Business Mgr. Camille A. Spyra, B.S.
Sports Complex Coord. Pamela A. Riehl, M.A.
Ice Rink Mgr. Nanette I. Payne, M.S.
Addtl. Coaches Manny T. Koginos, Ph.D.; James Ramos, B.S.;
Edward Harris, B.S.; Pamela J. Vogel, B.S.; Terence D. Bitka, M.S.;
Perry Jenkins, B.S.; Phil DiNunzio, M.B.A.; Michelle Barczak, J.D.;
Clare M. Schultz, B.A.

Faculty and Professional Staff

Faculty 1993-95 according to information available January 1993. The date in parentheses following the name is that of first appointment to a position on the faculty or staff of this college.

DISTINGUISHED

Nuala M. Drescher (1965) Professor, History, and Distinguished Service Professor, Ph.D., University of Delaware

Gerald F. Accurso (1965) Associate Professor, Interdisciplinary Sciences and Associate Vice President for Academic Affairs: Graduate Studies and Research, Ed.D., State University of New York at Buffalo

Charles Adair (1984) Associate Professor, Communication, A.M., University of Missouri
SoloChidi oL. Ahirah (1990) Assistant Professor, Business, Ph.D., University of Pittsburgh
Joan Amrozowicz (1966) Associate Professor, Elementary Education and Reading, Ed.D., State University of New York at Buffalo
Valerie A. Anastasi (1990) Programmer Analyst, B.S., State University College at Buffalo
Laverne B. Anderson (1970) Director, Public Safety, M.S.Ed., State University College at Buffalo

Michael J. Anderson (1984) Director, Information Systems and Prospect Management, B.A. State University College at Buffalo
Sarah Anderson (1974) Academic Tutor, Undergraduate Studies, Ph.D., State University of New York at Buffalo
Stephen N. Andre (1979) Associate Professor, Engineering Technology, Ph.D., Syracuse University

Bruce K. Andrew (1965) Associate Librarian, and State University Chancellor's Award for Excellence in Librarianship, 1990, M.A., State University of New York at Buffalo

Paul A. Andruczyk (1970) Associate for Instructional Resources, M.S.Ed., State University College at Buffalo

Lucy Andrus (1982) Assistant Professor, Art Education, M.S.Ed., State University College at Buffalo

Fajri Ansari (1981) Assistant Director, Admissions, M.S., State University College at Brockport

Bernard D. Ansel (1964) Associate Professor, History, Ph.D., University of Kansas

Catherine G. Ansuini (1988) Assistant Professor, Health, Physical Education and Recreation, Ed.D., State University of New York at Buffalo

Charles Aquino (1968) Professor, Journalism, Ph.D., Syracuse University

Arthur D. Arent (1970) Staff Associate, Instructional Resources, M.S.Ed., State University College at Buffalo

Modesto A. Argenio (1989) Assistant Vice President for Communications and External Relations, J.D., State University of New York at Buffalo

Lebanon L. Arrington (1969) Senior Counselor, Counseling Center, M.S.W., University of Kansas

Alice M. Askew (1992) Public Affairs Associate, M.A., Syracuse University

Maria L. Assad (1984) Associate Professor, Foreign Language, Ph.D., State University of New York at Buffalo

James Astrella (1983) Associate Professor, Design, M.F.A., Syracuse University

Richard T. Augustine (1976) Director of Student Accounts, M.S., State University College at Buffalo

Christopher B. Aviles (1987) Visiting Assistant Professor, Social Work, M.S.W., State University of New York at Stony Brook

Charles Bachman (1965) Professor, English, Ph.D., Indiana University

Carl B. Backman (1985) Associate Professor, Sociology, Ph.D., Cornell University

Cathleen A. Baker (1983) Associate Professor, Art Conservation, M.A., University of Michigan

Maurine E. Baker (1977) Staff Assistant, Instructional Resources, A.A.S., State University of New York at Alfred

Sylvia D. Bakos (1990) Assistant Professor, Fine Arts, Ph.D., Rutgers University

Joseph W. Ball (1976) Assistant to the Director, Physical Plant, B.S., State University College at Buffalo

Victor H. Balowitz (1964) Professor, Philosophy, Ph.D., Columbia University

Proves R. Banks Jr. (1988) Instructor, Technology, B.S.E.E., Wayne State University

Anthony L. Bannon (1985) Director, Burchfield Art Center, M.A., State University of New York at Buffalo

Joseph P. Barback (1969) Professor, Mathematics, Ph.D., Rutgers University

Geraldine E. Bard (1971) Associate Professor, English, Ph.D., State University of New York at Buffalo

Paul J. Bardak (1986) Senior Programmer/Analyst, B.S., State University College at Buffalo

Donald E. Barr (1972) Associate Professor, Health, Physical Education, and Recreation, and Department Chairperson, Ph.D., State University of New York at Buffalo

Jack Barr (1960) Associate Professor, Mathematics, M.S., State University of Iowa

William R. Bartoo (1979) Associate Professor, Design, M.S.T., Rochester Institute of Technology

Judith B. Basinski (1981) Programmer/Analyst, M.B.A., State University of New York at Buffalo

Richard J. Batt (1989) Assistant Professor, Earth Sciences and Science Education, Ph.D., University of Colorado

Dolores Battle (1970) Associate Professor, Speech Language Pathology and Audiology, Ph.D., State University of New York at Buffalo

Denise Bauer (1966) Instructional Support Technician, Earth Sciences and Science Education and Anthropology

R. Bruce Baum (1972) Associate Professor, Exceptional Education, Ed.D., Indiana University

Mark T. Bausili (1985) Registrar, B.A., University of Virginia

Charles A. Beasley (1985) Professor, Technology and Department Chairperson, Ph.D., University of Minnesota

Paul R. Beaudet (1961) Professor, Geography, Ph.D., Clark University

John F. Beaver (1988) Assistant Professor, Elementary Education and Reading, Ph.D., Michigan State University

Dewayne Beery (1963) Associate Professor, Physics, Ph.D., State University of New York at Buffalo

Nancy B. Belfer (1960) Professor, Design, and State University Chancellor's Award for Excellence in Teaching, 1982, M.F.A., School for American Craftsmen

Shirley Bennett-Fenty (1972) Academic Tutor, Academic Skills Center, M.S.Ed., State University College at Buffalo

William B. Bennett (1969) Professor, Economics and Finance, Ph.D., University of Rochester

Paul J. Bentkowski (1982) Systems Programmer, B.S., State University College at Buffalo

Roslyn Berkovitz (1969) Chief Counselor, Educational Opportunity Program, Ph.D., Cornell University

Richard J. Bihl (1979) Assistant Athletics Director, Men's Varsity Basketball Coach, M.B.A., Canisius College

Lily M. Bink (1975) Assistant to Director, Research, Educational Opportunity Program, M.S.Ed., State University of New York at Buffalo

Paul T. Bink (1978) Assistant Director, Admissions, M.S., State University College at Buffalo

Donald L. Bird (1985) Associate Professor, Earth Sciences and Science Education, Ed.D., University of Northern Colorado

Terence D. Bitka (1988) Assistant Coach, Football and Track, M.S., State University College at Buffalo

Christopher J. Blodgett (1985) Associate Professor, Psychology, Ph.D., University of Manitoba

Donald W. Blundell (1970) Coordinator, Student Union, M.S.Ed., State University College at Buffalo

Kenwyn Boldt (1966) Professor, Music, D.M., Indiana University

Judith Bondurant-Utz (1977) Associate Professor, Learning and Behavioral Disorders, Ed.D., University of Cincinnati

Barbara T. Bontempo (1988) Associate Professor, English, Ed.D., Indiana University

Jerry Boyes (1986) Men's Varsity Football Coach and Assistant Athletics Director, M.S., Ithaca College

Donald J. Brennan (1968) Associate for Instructional Resources, M.S.Ed., State University College at Buffalo

Curtis L. Brickhouse (1989) Assistant Director, Residence Life, M.A., Indiana University of Pennsylvania
Robert W. Brock (1962) Professor, Fine Arts, M.F.A., Ohio University
Michael R. Broderick (1981) Assistant for University Financial Analysis, B.S., State University of New York at Buffalo
Helen M. Brooks (1980) Nurse, Weigel Health Center, R.N., Bayonne University
Ronald N. Brown Jr. (1969) Associate Director, Computing Services, B.A., State University of New York at Buffalo
John J. Bruno (1966) Professor, Elementary Education and Reading, Ed.D., State University of New York at Buffalo
Bruce G. Bryski (1983) Associate Professor, Communication, Ph.D., Pennsylvania State University
Norbert R. Buczak (1960) Corporation Accountant, F.S.A.
Keith Bullion (1990) Sports Information Director, Swim Coach, M.S., State University of New York at Buffalo
Cheryl L. Burns (1987) Computer Support Assistant
Richard A. Butz (1985) Associate Professor, Design, M.F.A., State University of New York at Alfred
Lawrence E. Bynum (1969) Senior Admissions Adviser, B.A., State University of New York at Buffalo
Theodore F. Byrley (1984) Associate Professor, Economics and Finance, Ph.D., University of Cincinnati
John J. Byrne (1982) Associate Vice President for Facilities, B.S., State University of New York at Buffalo
Stuart W. Calhoun (1991) Assistant Professor, Biology, Ph.D., Texas A&M University
Betty J. Cappella (1985) Associate Professor, Educational Foundations, Ph.D., State University of New York at Buffalo
Joaquin O. Carbonara (1992), Assistant Professor, Mathematics, Ph.D., University of California, San Diego
John C. Carbonara (1964) Professor, Philosophy, and State University Chancellor's Award for Excellence in Teaching, 1974, Ph.D., State University of New York at Buffalo
Vincent J. Cardinal (1991) Assistant Professor, Performing Arts, M.F.A., Yale School of Drama
Joaquin J. Cardoso (1968) Professor, History, Ph.D., University of Wisconsin
Cheryl F. Carnevale (1990) Programmer Analyst, B.S., State University College at Buffalo
David A. Carson (1983) Associate Professor, History and Social Studies Education, Ph.D., Texas Christian University
Donald E. Carter (1964) Associate Professor, Educational Foundations, Ed.D., State University of New York at Buffalo
Jerry F. Cataldo (1969) Professor, Psychology, and Department Chairperson, Ph.D., State University of New York at Buffalo
Linda Chalker-Scott (1989) Assistant Professor, Biology, Ph.D., Oregon State University
Patricia Chambers (1991) Coordinator of Development Events, B.A., State University College at Buffalo
Barbara A. Chapman (1968) Nurse, Weigel Health Center, R.N., Sisters of Charity Hospital and Canisius College
Julie C.T. Chen (1969) Professor, Mathematics, Ph.D., University of Rochester

Simeon W. Chilungu (1970) Associate Professor, Anthropology, Ph.D., State University of New York at Buffalo
Lori Christmastree (1981) Associate Professor, Design, M.F.A., Wayne State University
Michael A. Cichon (1992) Instructional Support Associate, Chemistry, B.S., State University College at Buffalo
Robert A. Clark (1989) Assistant Professor, Computer Information Systems, M.S., State University of New York at Buffalo
Sidney Cohen (1966) Professor, Chemistry, Ph.D., University of Colorado
Louis Colca (1977) Associate Professor, Social Work, M.S.W., State University of New York at Buffalo
Constance J. Coles (1992) Senior Staff Assistant, Student Affairs, B.S., Medaille College
Ann C. Colley (1985) Professor, English, Ph.D., University of Chicago
Paul T. Collyer (1971) Associate Director of Admissions, M.Ed., State University of New York at Buffalo
Dorcas L. Colvin (1989) Associate Vice President for Human Resource Management, M.A., University of Iowa
John A. Conley (1990) Professor, Criminal Justice, and Department Chairperson, Ph.D., Michigan State University
David T. Converse (1964) Associate Professor, Educational Foundations, Ph.D., University of Nebraska
Pat A. Cordaro (1968) Instructional Support Technician, Biology, B.A., State University College at Buffalo
Sharon F. Cramer (1985) Assistant Professor, Exceptional Education, Ph.D., New York University
Kenneth A. Cross (1969) Director, Research Services and Administration, Ed.D., State University of New York at Buffalo
Paul M. Culkowski (1978) Professor, Engineering Technology, Ph.D., State University of New York at Buffalo
Mary G. Culp (1991) Instructional Support Associate, Biology, M.S., Kansas State University
David L. Cummings (1970) Assistant Director, Computing Services, B.S., State University College at Buffalo
Patricia W. Cummins (1989) Dean, Arts and Humanities, Ph.D., University of North Carolina
Daniel W. Cunningham (1991) Assistant Professor, Mathematics, Ph.D., University of California
Michael D. Daley (1989) Manager, Employment and Classification Systems, Human Resource Management, M.B.A., University of New Haven
Donna J. Davidoff (1987) Senior Assistant Librarian, M.L.S., State University of New York at Buffalo
Mary A. Davis (1977) Associate Professor, Business, and Department Chairperson, Ed.D., State University of New York at Buffalo
Susan M. Davis (1985) Associate Professor, Economics and Finance, Ph.D., New School for Social Research
Robert J. Davitt (1965) Professor, Earth Sciences and Science Education, and State University Chancellor's Award for Excellence in Teaching, 1977, Ed.D., State University of New York at Buffalo
David E. Day (1991) Professor, Elementary Education and Reading, and Department Chairperson, Ed.D., Wayne State University

Mary Ann DeKatz (1969) Coordinator, Employee Compensation
Mary K. Delmont (1972) Librarian, M.A., State University of New York at Buffalo
Robert P. Delprino (1992) Assistant Professor, Psychology, Ph.D., Old Dominion University
Michael J. DeMarco (1981) Associate Professor, Physics, Ph.D., University of Cincinnati
John L. DeNisco (1982) Associate Professor, Business, M.B.A., Canisius College
Ann Dennis (1977) Manager, Central Computing Operations, A.A.S., Erie Community College
Suzann Denny (1974) Professor, Design, M.S., Syracuse University
Diane Depken (1988) Assistant Professor, Health, Physical Education and Recreation, Ed.D., Temple University
Ram Desai (1963) Professor, Political Science, Ph.D., Michigan State University
Marian Deutschman (1985) Associate Professor, Communication, Ph.D., State University of New York at Buffalo
Mohan S. Devgun (1990) Lecturer, Technology, Ph.D., University of Birmingham, England
Paul J. DeWald (1967) Assistant Professor, Broadcasting, M.S., State University of New York at Buffalo
Ellen M. DeWind (1984) Assistant Professor, Nutrition and Food Science, M.S.Ed., State University College at Buffalo
J. Patrick Dexter (1977) Associate Professor, Social Work, M.S.W., State University of New York at Buffalo
Amy L. DiBartolo (1987) Senior Assistant Librarian, M.L.S., State University of New York at Buffalo
Charles K. Dick (1992) News Writer, Public Affairs, B.S., Ithaca College
Frank P. Diulus (1973) Associate Professor, Educational Foundations, Ph.D., University of Pittsburgh
Thomas A. Donovan (1968) Professor, Chemistry, Ph.D., University of Illinois
Henry S. Dowski (1967) Associate Professor, Elementary Education and Reading, Ed.D., State University of New York at Buffalo
Nuala M. Drescher (1965) Professor, History, and Distinguished Service Professor, Ph.D., University of Delaware
John Dwyer (1970) Associate Professor, English, Ph.D., State University of New York at Buffalo
John J. Earshen (1980) Assistant Professor, Technology, M.B.A., State University of New York at Buffalo
Susan J. Earshen (1973) Manager, Benefits, Staff Development and Training, Human Resource Management, M.B.A., State University of New York at Buffalo
Douglas P. Easton (1977) Associate Professor, Biology, Ph.D., University of Iowa
Gregory W. Ebert (1985) Associate Professor, Chemistry, Ph.D., University of Nebraska
Scot R. Eckert (1981) Energy Management Systems Coordinator, A.A.S., Niagara County Community College
Frank C. Eckmair (1963) Professor, Fine Arts, M.F.A., Ohio University
Ann L. Egan (1971) Professor, Educational Foundations and State University Chancellor's Award for Excellence in Teaching, 1981, Ph.D., State University of New York at Buffalo
Mohamed El-Behairy (1963) Professor, Political Science, Ph.D., Ohio State University
Sylvia C. Elhayek (1988) Instructor, English, Ed.M., State University of New York at Buffalo

Deborah C. Rindfuss-Ellis (1987) Assistant Professor, Technology, M.B.A., State University of New York at Buffalo
Gail M. Ellmann (1972) Associate Librarian, M.L.S., State University of New York at Buffalo
Robert J. Elmes (1971) Professor, Communication, Ed.D., Indiana University
Susan T. Eluard (1977) College Physician, P.T., Weigel Health Center, M.D., University of Sherbrooke
William E. Engelbrecht (1973) Professor, Anthropology, and State University Chancellor's Award for Excellence in Teaching, 1990, Ph.D., University of Michigan
David J. Ettestad (1986) Associate Professor, Physics, Ph.D., Cornell University
Heidi E. Faletti (1984) Associate Professor, Foreign Language, Ph.D., University of California
Gerhard Falk (1957) Professor, Sociology, and State University Chancellor's Award for Excellence in Teaching, 1980, Ed.D., State University of New York at Buffalo
Gisele Feal (1973) Professor, Foreign Language, Ph.D., University of Michigan
Alma Ferro (1985) Career Counselor, M.S., State University College at Buffalo
Abel K. Fink (1956) Professor, Educational Foundations, Ed.D., Teachers College, Columbia University
Daphne Finnegan (1978) Associate Professor, Dance, M.A., University of Utah
Mary E. Fiore (1963) Professor, Music, Ph.D., Indiana University
Roger L. Firestien (1984) Assistant Professor, Center for Studies in Creativity, Ph.D., State University of New York at Buffalo
Lydia Fish (1967) Professor, Anthropology, Ph.D., Indiana University
Lawrence G. Flood (1977) Professor, Political Science, Ph.D., University of North Carolina at Chapel Hill
Frederick G. Floss (1984) Associate Professor, Economics and Finance, Ph.D., State University of New York at Buffalo
Kevin E. Foley (1977) Systems Programmer, M.S., State University College at Buffalo
Monroe Fordham (1970) Professor, History, and Department Chairperson, Ph.D., State University of New York at Buffalo
Richard R. Forsey (1978) Associate Director, Research Services and Administration
Richard J. Foster (1965) Professor, Earth Sciences and Science Education, and Executive Assistant to the President, M.S., Western Reserve University
Robert A. Foster (1992) Research Associate, Institutional Advancement, M.S., Canisius College
Anthony M. Foti (1982) Psychiatrist (P.T.), Weigel Health Center, Diplomate, American Board of Psychology and Neurology
James G. Fox (1981) Professor, Criminal Justice, Ph.D., State University of New York at Albany
Bernhard Frank (1965) Professor, English, Ph.D., University of Pittsburgh
Robert C. Frascatore (1967) Associate Professor, Mathematics, M.A., University of Maine
Richard F. Frazita (1969) Associate Professor, Elementary Education and Reading, Ed.D., State University of New York at Buffalo
John Frederick (1977) Coordinator, Commuter Services, Ed.D., State University of New York at Buffalo
Colleen H. Frey (1980) Associate Professor, Nutrition and Food Science, Ph.D., State University of New York at Buffalo

Carolyn S. Fusco (1989) Staff Assistant, Arts and Humanities, B.A., State University of New York at Buffalo
Randolph L. Gadikian (1981) Associate Librarian, M.L.S., State University of New York at Buffalo
Dennis L. Gaffin (1989) Assistant Professor, Anthropology, Ph.D., State University of New York at Buffalo
Craig Gallagher (1989) Senior Financial Aid Adviser, M.S., SUNY College at Brockport
William T. Ganley (1972) Professor, Economics and Finance, Ph.D., University of California at Berkeley
Audrey W. Garrett (1984) Assistant Director, Educational Opportunity Program, M.S., Canisius College
Marie S. Geise (1973) Professor, Anthropology, Ph.D., State University of New York at Buffalo
Robert J. Gemmett (1992) Professor, English, Provost and Vice President for Academic Affairs, Ph.D., Syracuse University
Joseph D. Gentile (1977) Physician, P.T., Weigel Health Center, M.D., State University of New York at Buffalo
Ronald A. George (1986) Assistant Director, Residence Life, M.S.Ed., Niagara University
Philip G. Gerace (1968) Staff Associate, Instructional Resources, B.S.Ed., State University College at Buffalo
Joseph E. Germano (1976) Associate Professor, Foreign Language, Ph.D., Rutgers University
Thomas M. Giambone (1990) Professor, Mathematics, Ed.D., State University of New York at Buffalo
Larry E. Gibson (1985) Lecturer, Engineering Technology, M.S., Canisius College
Arthur W. Gielow (1970) Instructional Support Technician, Earth Sciences and Science Education, M.S.Ed., State University College at Buffalo
James Gillham (1977) Associate Professor, Criminal Justice, Ph.D., University of Illinois at Urbana
Steven Gittler (1955) Professor, Elementary Education and Reading, and Business, Attorney, Ed.D., State University of New York at Buffalo
Edward S. Gleason (1973) Instructional Support Technician, Physics
Linda K. Gleckel (1971) Assistant Professor, Exceptional Education, M.S.Ed., State University College at Buffalo
Warren L. Gleckel (1975) Associate Professor, Exceptional Education, Ph.D., Syracuse University
Maryruth Glogowski (1975) Librarian, M.L.S., State University of New York at Buffalo
James A. Gold (1977) Associate Professor, Educational Foundations, D.Ed., Pennsylvania State University
Stephanie R. Goldberg (1988) Assistant Professor, Technology, B.S., State University of New York at Buffalo
Bonnie Gordon (1970) Assistant Professor, Design, M.F.A., Rochester Institute of Technology
Jean-Francois Gounard (1978) Director, International Student Affairs, Doctorat d'Universite, University of Bordeaux
Virginia E. Grabiner (1975) Associate Professor, Sociology, Ph.D., (Criminology), University of California
Lee A. Grace (1973) Associate Professor, Foreign Language, and Director, International Education, Ph.D., State University of New York at Buffalo

Albert Grande (1970) Professor, Educational Foundations, Ph.D., University of Pittsburgh; J.D., State University of New York at Buffalo
Regina B. Grantham (1986) Assistant Professor, Speech, Language Pathology and Audiology, M.Ed., The Pennsylvania State University
Alicia Granto (1987) Counselor, Educational Opportunity Program, M.S., Long Island University
Leonard Grazioplene (1968) Associate Professor, Business, Ph.D., State University of New York at Buffalo
Alwin C. Green (1972) Professor, Mathematics, Ph.D., Syracuse University
Fred H. Greenberg (1964) Professor, Chemistry, Ph.D., University of Chicago
Mary E. Greene (1991) Acting Director, Alumni Affairs and Director, Annual Giving, B.A., D'Youville College
Cynthia Green-Eggleston (1979) Associate Director, Educational Opportunity Program, M.S.Ed., State University College at Buffalo
James O. Grunebaum (1971) Professor, Philosophy, Ph.D., University of Chicago
Richard Gubernick (1969) Professor, Fine Arts, M.F.A., University of Massachusetts
Gordon E. Guffner (1969) Professor, Industrial Technology, M.S., State University of New York at Buffalo
Andrea Guiati (1985) Assistant Professor, Foreign Language, M.A., State University of New York at Binghamton
James Guyker (1970), Professor, Mathematics, Ph.D., Lehigh University
James F. Hamm (1986) Associate Professor, Art Conservation, M.A., State University College at Oneonta
Deborah A. Hard (1977) Personnel Associate/EAP Coordinator, B.A., State University College at Buffalo
Terry M. Harding (1977) Director, Campus Services, B.A., State University College at Buffalo
Gay E. Hardoby (1987) Personnel Associate
Rebecca P. Harlin (1988) Associate Professor, Elementary Education and Reading, Ph.D., University of Florida
Marcell L. Harrington (1986) Senior Programmer/Analyst, B.S., State University College at Buffalo
Carole S. Harris (1966) Associate Registrar
Katherine Hartman (1980) Assistant Professor, Art Education, M.A., State University of New York at Buffalo
Fred J. Hartrick (1960) Director of Athletics, M.S., Pennsylvania State University
Edward A. Hattauer (1987) Director, Counseling Center, Ph.D., Teachers College, Columbia University
Donna M. Hayes (1982) Assistant Professor, Nutrition and Food Science, M.S., Ohio State University
James D. Haynes (1967) Professor, Biology, Ph.D., Iowa State University
Gary Heiman (1976) Associate Professor, Psychology, Ph.D., Bowling Green State University
Richard D. Heller (1965) Professor, Health, Physical Education and Recreation, M.A., Wayne State University
Keith M. Henderson (1969) Professor, Political Science, D.P.A., University of Southern California
Mark Henning (1981) Instructional Support Technician, Instructional Resources
June Hesch (1980) Associate Professor, English, Ph.D., State University of New York at Buffalo

Donald R. Hetzner (1970) Professor, Social Studies Education, Ed.D., State University of New York at Buffalo
Joseph J. Hill (1992) Coordinator, Native American Student Services, M.S., State University College at Buffalo
Levin Hill (1987) Senior Assistant Librarian, M.L.S., State University of New York at Buffalo
Carol A. Hodges (1986) Associate Professor, Elementary Education and Reading, Ph.D., University of Illinois
Melvin J. Hoffman (1968) Professor, English, Ph.D., State University of New York at Buffalo
Warren J. Hoffman (1977) Senior Financial Aid Counselor, Ed.M., State University of New York at Buffalo
George T. Hole (1965) Professor, Philosophy, and Department Chairperson, Ph.D., University of Rochester
Sandra L. Hollander (1985) Athletic Trainer and Softball Coach, M.S., Canisius College
Paul R. Homer (1954) Professor, Music, M.A., Teachers College, Columbia University
Robert E. Horvat (1973) Professor, Earth Sciences and Science Education, Ph.D., University of Wisconsin-Madison
Marilyn B. Hoskin (1989) Professor, Political Science, and Dean, Natural and Social Sciences, Ph.D., University of California
Deborah Hovland (1992) Instructor, Foreign Language, M.A., Middlebury College
Frederick C. Howe (1972) Associate Professor, Educational Foundations, Ph.D., Michigan State University
Constance Hsu (1966) Associate Librarian, M.S., Kansas State Teachers College
Barbara A. Huddleston-Mattai (1990) Associate Professor, Social Work, D.S.W., University of California
Anthony D. Hughes (1986) Academic Tutor, Academic Skills Center, M.A., State University of New York at Buffalo
Edward T. Hunt Jr. (1992) Acting Vice President, Institutional Advancement, B.S., State University College at Buffalo
Janet W. Hunt (1970) Senior Financial Aid Adviser, M.S., State University College at Buffalo
Daniel R. Hunter Jr. (1964) Director, Financial Aid, and State University Chancellor's Award for Excellence in Professional Service, 1978, Ed.M., State University of New York at Buffalo
Glenn F. Hurst (1969) Assistant Professor, Elementary Education and Reading, Ed.D., State University of New York at Buffalo
Carmen Iannaccone (1966) Associate Professor, Exceptional Education, Ed.D., State University of New York at Buffalo
Ivor Ilmet (1967) Associate Professor, Chemistry, Ph.D., New York University
Kimberley N. Irvine (1988) Assistant Professor, Geography and Planning, Ph.D., McMaster University
Scott G. Isaksen (1981) Associate Professor, Creative Studies, and Director, Center for Studies in Creativity, Ed.D., State University of New York at Buffalo
Hadar Isseroff (1968) Professor, Biology, Ph.D., Purdue University
Marsha D. Jackson (1984) Coordinator, Student Activities and Greek Affairs, and Director, Student Judicial System, M.S.Ed., State University College at Buffalo
R. Steven Janke (1973) Professor, Fine Arts, Ph.D., University of Michigan

Dale W. Janowsky (1981) Assistant Professor, Business, M.S., Canisius College
John Jauquet (1968) Professor, Design, M.F.A., University of Wisconsin
Florence Johnson (1968) Academic Tutor, Academic Skills Center, M.S.Ed., State University College at Buffalo
Karen Johnson (1985) Assistant Director, Academic Skills Center, M.L.S., State University of New York at Buffalo
Luella H. Johnson (1990) Assistant Professor, Mathematics, Ph.D., State University of New York at Buffalo
Michael Johnson (1976) Assistant Professor, Foreign Language, Ph.D., State University of New York at Buffalo
Kay Johnson-Gentile (1990) Assistant Professor, Elementary Education and Reading, Ph.D., State University of New York at Buffalo
Deborah Jones (1990) Admissions Assistant, B.S.Ed., State University College at Buffalo
Gary W. Jones (1992) Assistant Professor, Speech Language Pathology and Audiology, Ph.D., State University of New York at Buffalo
Judith M. Jones (1963) Professor, Education, Academic Skills Center, Ed.D., State University of New York at Buffalo
Layman Jones Jr. (1966) Professor, Art Education, D.Ed., Pennsylvania State University
Sister Martin J. Jones (1969) Librarian, M.S.L.S., Catholic University of America
Andrew J. Joniak (1974) Associate Professor, Business, Ph.D., University of New Mexico
Georgiana Jungels (1974) Associate Professor, Art Education, ATR, M.A., State University of New York at Buffalo
Michael J. Jurewicz (1990) Assistant for Instructional Resources, A.A.S., Erie Community College
Narendra N. Kalia (1979) Professor, Sociology, Ph.D., Syracuse University
Louis J. Kaminski (1973) Manager, College Store, B.P.S., Empire State College
Herta Kane (1979) Assistant Professor, Design, M.F.A., State University of New York at Buffalo
David L. Karnath (1979) Associate Professor, English, Ph.D., University of Minnesota
Jurgis Karuza (1978) Professor, Psychology, Ph.D., Wayne State University
Kris A. Kaufman (1992) Associate Director, Residence Life, M.S., State University College at Buffalo
James M. Keech Jr. (1965) Associate Professor, English, Ph.D., Louisiana State University
Barbara Keen (1991) Senior Psychologist, Ph.D., State University of New York at Buffalo
Joseph M. Kelly (1990) Assistant Professor, Business, J.D., Northern Illinois University
Ellen M. Kennedy (1981) Associate Professor, Social Work, and Department Chairperson, M.S.W., State University of New York at Buffalo
Steven E. Kennedy (1978) Instructional Support Technician, Technology
Gary H. Kent (1984) Director, Physical Plant, M.B.A., Syracuse University
Charles B. Kenyon (1992) Assistant Vice President for Student Affairs, Ed.D., Harvard University
Richard J. Kieffer (1974) Professor, Economics and Finance, Ph.D., University of Missouri
Marilyn Kihl (1968) Associate Librarian, M.L.S., State University College at Geneseo
Yung-Mo Kim (1968) Professor, Economics and Finance, Ph.D., State University of New York at Buffalo

Thomas G. Kinsey (1979) Associate Professor, Earth Sciences and Science Education, Ph.D., University of Maryland
Carol B. Kirby (1985) Associate Professor, Foreign Language, Ph.D., University of Kentucky
E. Carol Brown Knuth (1973) Professor, English, Ph.D., State University of New York at Buffalo
James G. Koelmel (1986) Publications Manager, Public Affairs, B.A., St. Bonaventure University
Manny T. Koginos (1967) Associate Professor, History, and Men's Varsity Tennis Coach, Ph.D., American University
Robert H. Kohler (1966) Professor, Physics, Ph.D., Massachusetts Institute of Technology
Irene Kolber (1975) Nurse, Weigel Health Center, R.N., Meyer Memorial Hospital
Douglas C. Koritz (1986) Associate Professor, Economics and Finance, Ph.D., University of Pittsburgh
Karen I. Kosman (1992) Acting Director, Performing Arts Center, B.A., Oberlin College
Jayne S. Kovalick (1989) Staff Assistant, B.S., State University College at Buffalo
Elizabeth Kowalchuk (1991) Assistant Professor, Art Education, Ph.D., The Ohio State University
Francis R. Kowsky (1970) Professor, Fine Arts, Ph.D., Johns Hopkins University
James M. Kreider (1969) Associate Professor, Exceptional Education, Ph.D., University of Michigan
Leslie R. Krims (1969) Professor, Fine Arts, M.F.A., Pratt Institute
Betty J. Krist (1987) Professor, Mathematics, and Department Chairperson, Ed.D. State University of New York at Buffalo
David J. Kukulka (1982) Associate Professor, Technology, Ph.D., State University of New York at Buffalo
Theodore W. Kury (1963) Professor, Geography, Ph.D., Louisiana State University
Dan Kushel (1983) Associate Professor, Art Conservation, M.A., Cooperstown
Donald Kutschall (1978) Associate Professor, Dance, M.A., University of Utah
Patti J. Lachance (1990) Assistant Professor, Design, M.F.A., Rochester Institute of Technology
Richard R. LaCroix (1973) Professor, Philosophy and Religious Studies, Ph.D., University of Minnesota
Marvin J. LaHood (1964) Professor, English, and State University Chancellor's Award for Excellence in Teaching, 1985, Ph.D., University of Notre Dame
David E. Lampe (1969) Professor, English, Ph.D., University of Nebraska
David W. Landrey (1965) Associate Professor, English, M.A., State University of New York at Buffalo
Henry J. Lang (1968) Professor, History, Ph.D., Indiana University
Richard J. Lee (1970) Associate Professor, Exceptional Education, Ed.D., State University of New York at Buffalo
Donald D. Leopard (1963) Professor, History, and State University Chancellor's Award for Excellence in Teaching, 1989, Ph.D., Ohio State University
Francis S. Lestingi (1973) Professor, Physics and Earth Sciences and Science Education, and State University Chancellor's Award for Excellence in Teaching, 1980, Ph.D., University of Wisconsin-Madison

Anthony J. Lewis (1970) Professor, English, Ph.D., University of Wisconsin
Peter F. Liberti (1968) Director, Dining and Vending Services, F.S.A., B.S., Canisius College
William Lin (1984) Assistant Professor, Computer Information Systems, M.B.A., Pace University
Rosalyn Lindner (1974) Professor, Sociology, and Department Chairperson, Ph.D., University of Minnesota
Mark G. Littlefield (1981) Professor, Foreign Language, Ph.D., University of California
Michael J. Littman (1986) Associate Professor, Business, Ph.D., Ohio State University
Donald R. Logan (1989) Professor, Exceptional Education, and Department Chairperson, D.Ed., University of Oregon
Sebastian LoGiudice (1985) Instructional Support Technician, Psychology, B.A., State University College at Buffalo
Rex T. Lohmann (1975) Associate Professor, Educational Foundations, Ph.D., University of Pittsburgh
Rosemary P. Lonberger (1991) Assistant Professor, Elementary Education and Reading, Ph.D., State University of New York at Buffalo
Marjorie Lord (1969) Associate Librarian, M.L.S., State University of New York at Buffalo
Shirley A. Lord (1978) Professor, Social Work, Ph.D., State University of New York at Buffalo
Bradley A. Lown (1970) Professor, Psychology, and State University Chancellor's Award for Excellence in Teaching, 1974, Ph.D., State University of New York at Buffalo
Nancy J. Lund (1973) Professor, Speech Language Pathology and Audiology, Ph.D., University of Maryland
James F. Mabry III (1977) Professor, Music, Ph.D., Washington University
Barbara J. Macaluso (1984) Senior Programmer/Analyst, M.S., State University College at Buffalo
Russell Macaluso (1966) Associate Professor, Elementary Education and Reading, and Director, Academic Skills Center, Ed.D., State University of New York at Buffalo
Kenneth Mernitz (1985) Associate Professor, History and Social Studies Education, Ph.D., University of Missouri
John M. Messinger (1986) Associate Professor, Art Conservation, Ph.D., State University of New York at Buffalo
Barbara L. Metivier (1985) Senior Programmer/Analyst, B.A., Syracuse University
Barbara A. Meyer (1980) Assistant to Vice President for Finance and Management, PDS Coordinator, B.A., State University College at Buffalo
Mary Ann Meyer (1979) Manager, Instruction and Research Support, M.S., State University of New York at Buffalo
Ronald Meyer (1968) Instructional Support Technician, Instructional Resources
Christine Miller (1969) College Accountant, M.S., State University College at Buffalo
David N. Miller (1985) Director, Environmental Health and Safety, A.A.S., Erie Community College
Judith A. Miller (1969) Associate Registrar, M.S., State University College at Buffalo
Melanie D. Miller (1988) Staff Assistant
Benjamin H. Min (1964) Professor, History, Ph.D., University of Massachusetts
Donald D. Mitchell (1974) Associate Professor, Anthropology, Ph.D., Harvard University

Jaime E. Martinez-Tolentino (1990) Assistant Professor, Foreign Language, Ph.D., University of Madrid
David A. Massaro (1984) Senior Programmer/Analyst, B.S., State University College at Buffalo
P. Rudy Mattai (1990) Professor, Educational Foundations, Ph.D., University of Pittsburgh
Dennis McCarthy (1977) Associate Professor, Theater, M.F.A., Carnegie Mellon
Donna Eskew McCarthy (1976) Associate Professor, Theater, and Department Chairperson, M.A., University of Washington
Susan A. McCartney (1984) Director, Small Business Development Center, M.B.A., State University of New York at Buffalo
Joan L. McCool (1981) Assistant Director, Counseling Center, Ph.D., State University of New York at Buffalo
Thomas R. McCray (1980) Assistant Professor, Broadcasting, M.A., State University of New York at Buffalo
Terence R. McDonald (1972) Associate Professor, Theater, M.F.A., Southern Methodist University
Lynne M. McElhaney (1970) Associate Professor, Design, M.S., State University College at Buffalo
Emma McFayden (1981) Counselor, Educational Opportunity Program, M.S., State University College at Fredonia
Eliane McKee (1985) Associate Professor, Foreign Language, Ph.D., Ohio State University
Jennifer D. McMahon (1976) Manager, Remote Computing Operations, Computing Services
Stan Medinac (1973) Director, Budget and Information Services, M.B.A., State University of New York at Buffalo
Daniel T. Meloon Jr. (1966) Professor, Chemistry, Ph.D., State University of New York at Buffalo
Sharon Mendola (1983) Associate Professor, Design, M.F.A., Syracuse University
Rafika Merini (1990) Assistant Professor, Foreign Language, M.A., University of Utah
Kenneth Mernitz (1985) Associate Professor, History and Social Studies Education, Ph.D., University of Missouri
John M. Messinger (1986) Associate Professor, Art Conservation, Ph.D., State University of New York at Buffalo
Barbara L. Metivier (1985) Senior Programmer/Analyst, B.A., Syracuse University
Barbara A. Meyer (1980) Assistant to Vice President for Finance and Management, PDS Coordinator, B.A., State University College at Buffalo
Mary Ann Meyer (1979) Manager, Instruction and Research Support, M.S., State University of New York at Buffalo
Ronald Meyer (1968) Instructional Support Technician, Instructional Resources
Christine Miller (1969) College Accountant, M.S., State University College at Buffalo
David N. Miller (1985) Director, Environmental Health and Safety, A.A.S., Erie Community College
Judith A. Miller (1969) Associate Registrar, M.S., State University College at Buffalo
Melanie D. Miller (1988) Staff Assistant
Benjamin H. Min (1964) Professor, History, Ph.D., University of Massachusetts
Donald D. Mitchell (1974) Associate Professor, Anthropology, Ph.D., Harvard University

William I. Mitchell (1991) Assistant Professor, History and Social Studies Education, Ph.D., University of Missouri
Michele A. Mogavero (1989) Assistant for Continuing Education, M.S., State University College at Buffalo
Susan R. Mondschein (1991) Assistant Professor, English, Ed.D., University of Virginia
John Montague (1984) Professor, Design, Ph.D., University of Wisconsin
Joseph J. Moran (1973) Associate Professor, Educational Foundations, Ph.D., Emory University
Kathryn A. Moran (1981) Assistant Dean, Undergraduate Studies, M.S., State University of New York at Albany
Edward L. Morgan (1969) Professor, Criminal Justice, M.S., California State College at Los Angeles
John B. Morganti (1968) Professor, Psychology, and State University Chancellor's Award for Excellence in Teaching, 1975, Ph.D., State University of New York at Buffalo
James F. Morris (1985) Associate Professor, Design, M.F.A., University of Massachusetts
Thomas J. Morrissey (1967) Professor, Business, Ed.D., University of Missouri
Marina R. Moscato (1977) Staff Assistant
Kevin F. Mulcahy (1992) Associate Professor, Business, Ed.D., University of California
Eleanor T. Munn (1986) Associate Librarian, M.S.L.S., Simmons College School of Library Science
Mary C. Murdock (1987) Assistant Professor, Creative Studies, Ed.D., University of Georgia
Robert M. Murphy (1985) Instructional Support Technician, Instructional Resources
John Murtaugh (1973) Associate Professor, Earth Sciences and Science Education, Ph.D., Ohio State University
Myron Howard Nadel (1985) Professor, Performing Arts, M.A., Columbia Teachers College
Carl H. Naeher (1980) Associate Professor, Computer Information Systems, M.S., State University of New York at Buffalo
Joseph V. Nardiello (1969) Associate Professor, Foreign Language, and Department Chairperson, Ph.D., Johns Hopkins University
Jill Nash (1974) Professor, Anthropology, and Department Chairperson, Ph.D., Harvard University
Anthony T. Neal (1988) Assistant Professor, Political Science, Ph.D., Atlanta University
Raul Neira (1991) Assistant Professor, Foreign Language, Ph.D., University of Texas
Glenn R. Nellis (1968) Director, Planned Giving and Major Gifts, Ph.D., State University of New York at Buffalo
Emile C. Netzhammer (1987) Assistant Professor, Communication, Ph.D., University of Utah
Paul R. Nevergold (1968) Instructional Support Specialist, Earth Sciences and Science Education, M.Ed., State University of New York at Buffalo
Edward J. Newberger (1970) Associate Professor, Mathematics, Ph.D., Indiana University
George Charles Newman (1982) Associate Librarian and Director, Butler Library, Ph.D., University of Michigan
Kristine M. Niendorf (1992) Assistant Director, Residence Life, M.S., University of Evansville
Anthony J. Nowakowski (1986) Assistant Professor, Computer Information Systems, M.A., State University College at Buffalo

Chad Nye (1991) Associate Professor, Speech Language Pathology and Audiology, and Department Chairperson, Ph.D., University of California

Donald E. O'Brien (1963) Associate Professor, Health, Physical Education and Recreation, M.S., Pennsylvania State University

Donald L. O'Brien (1969) Professor, Elementary Education and Reading, Ed.D., State University of New York at Buffalo

Kathleen M. O'Brien (1989) Instructor, Nutrition and Food Science, Ed.M., State University of New York at Buffalo

Ki-Choul Ohm (1967) Professor, Mathematics, Ph.D., Syracuse University

Rita Karen O'Quin (1982) Associate Professor, Psychology, Ph.D., Michigan State University

Robert Orrange (1986) Assistant Director, Career Development Center, M.A./M.S., State University College at Buffalo

Jose Javier Ortiz-Calderon (1991) Instructor, Foreign Language, M.A., University of Arkansas

Janet R. Overdorf (1990) Assistant Professor, Nutrition and Food Science, M.S., State University College at Buffalo

Maria D. Pacheco (1985) Assistant Professor, Chemistry, Ph.D., University of Puerto Rico

Andrew Pacioni (1967) Associate Professor, Exceptional Education, M.A., Eastern Michigan University

James L. Palermo (1968) Professor, Educational Foundations, Ph.D., State University of New York at Buffalo

Howard H. Park (1969) Associate Professor, Political Science, Ph.D., University of Minnesota

Roswell Park IV (1981) Coordinator of Adult Services and Advisement, M.A., State University of New York at Buffalo

Michael E. Parks (1981) Associate Professor, Art Education, and Department Chairperson, Ed.D., Ball State University

H. G. Parsa (1992) Assistant Professor, Nutrition and Food Science, M.S., University of Arkansas

Frank J. Pascarella (1970) Associate Professor, Health, Physical Education, and Recreation, and State University Chancellor's Award for Excellence in Teaching, 1989, Ed.D., State University of New York at Buffalo

Wendy Paterson (1987) Senior Staff Assistant, Academic Skills Center, M.S.Ed., State University College at Buffalo

Peter S. Pawlik (1972) Professor and Program Coordinator, Engineering Technology, Ph.D., State University of New York at Buffalo

Constance L. Payne (1985) Associate Professor, Fine Arts, M.F.A., University of Wisconsin

Hal D. Payne (1990) Vice President for Student Affairs, J.D., Cleveland State University

Kenneth P. Payne (1990) Assistant Professor, Fine Arts, M.F.A., University of Wisconsin

Nanette I. Payne (1992) Ice Rink Manager, M.S., University of Michigan

Thomas J. Pepper (1966) Space Management Officer, Ed.M., State University of New York at Buffalo

Javier Penalosa (1978) Associate Professor, Biology, Ph.D., Harvard University

Michael S. Pendleton (1979) Associate Professor, Political Science, D.A., Idaho State University

Bonita J. Percival (1980) Senior Staff Assistant, Instructional Resources

Gary W. Pettibone (1986) Associate Professor, Biology, Ph.D., Bowling Green State University

Stephen Phelps (1978) Associate Professor, Elementary Education and Reading, Ph.D., Syracuse University

Gary Phillips (1974) Acting Vice President for Finance and Management and Comptroller, B.S.B.A., C.P.A., Providence College

Joseph Picillo (1967) Professor, Art Education, M.S.Ed., State University College at Buffalo

Theresa F. Platek (1967) Professor, English, and Department Chairperson, Ed.D., State University of New York at Buffalo

Allen H. Podet (1974) Professor, Philosophy and Religious Studies, D.H.L., Hebrew Union College, Ph.D., University of Washington

Lansing R. Pollock (1970) Professor, Philosophy, Ph.D., University of Chicago

Elaine Polvinen (1991) Assistant Professor, Nutrition and Food Science, M.F.A., Rochester Institute of Technology

David Pomerantz (1977) Associate Professor, Exceptional Education, Ph.D., University of Illinois

Phyllis B. Pomerantz (1977) Associate Professor, Social Work, M.S.W., University of Illinois at Urbana-Champaign

Dennis K. Ponton (1977) Associate Professor, Nutrition and Food Science, and Associate Vice President for Planning and Academic Support, Ph.D., West Virginia University

N. John Popovich (1974) Associate Professor, Vocational Technical Education, Ed.D., Wayne State University

Mark P. Poluszny (1985) Associate Professor, Exceptional Education, Ed.D., University of Kentucky

Shirley A. Posner (1966) Librarian, and State University Chancellor's Award for Excellence in Librarianship, 1989, M.L.S., State University College at Geneseo

Angeline M. Price (1983) Assistant to Director, Weigel Health Center, M.S., State University College at Buffalo

Frederick W. Price (1967) Professor, Biology, Ph.D., King's College, University of London, England

Gerard J. Puccio (1990) Assistant Professor, Creative Studies, Ph.D., University of Manchester Institute of Science and Technology

Robert D. Pursley (1987) Professor, Criminal Justice, D.P.A., University of Georgia

Badria A. Qadir (1988) Programmer/Analyst, B.S., State University College at Buffalo

Thomas J. Quatroche (1964) Professor, Educational Foundations, and Department Chairperson, D.Ed., Pennsylvania State University

Ronald L. Rabin (1976) Associate Professor, Speech Communication, Ph.D., Northwestern University

Ralph J. Raico (1967) Professor, History, Ph.D., University of Chicago

Kevin Railey (1991) Assistant Professor, English, Ph.D., State University of New York at Stony Brook

Sharon Raimondi (1986) Assistant Professor, Exceptional Education, Ph.D., The American University

Janet E. Ramsey (1985) Associate Professor, Communication, Ph.D., State University of New York at Buffalo

Eric A. Randall (1973) Professor, Biology, and Department Chairperson, Ph.D., Pennsylvania State University

Abdul H. Raof (1967) Professor, Political Science, and Department Chairperson, Ph.D., New York University

Alex J. Ratkowski (1976) Associate Professor, Economics and Finance, and Department Chairperson, Ph.D., University of Nebraska

Tejaswini Rao (1976) Associate Professor, Nutrition and Food Science, Ph.D., Pennsylvania State University

Martha J. Reddout (1970) Professor, Nutrition and Food Science, Ed.D., Syracuse University

Howard M. Reid (1977) Professor, Psychology, Ph.D., University of Maine at Orono

Thomas J. Reigstad (1981) Professor, English, Ph.D., State University of New York at Buffalo

Crystal Hearne Reinoso (1989) Assistant Professor, Music, D.M.A., University of Michigan

Elbridge A. Renning Jr. (1965) Associate Professor, Geography, and Department Chairperson, M.A., State University of New York at Buffalo

Deborah C. Renzi (1982) Director of Admissions, M.S.W., State University of New York at Stony Brook

Arthur P. Reynolds (1984) Instructional Support Specialist, Computer Information Systems, M.S.Ed., State University College at Buffalo

Richard A. Reynolds (1970) Associate Professor, Design, M.A., San Francisco State College

Carol Richards (1974) Librarian, M.L.S., State University of New York at Buffalo

F. C. Richardson (1989) President and Professor of Biology, Ph.D., University of California at Santa Barbara

Daniel S. Ricigliano (1979) Assistant Professor, Business, M.B.A., State University of New York at Buffalo

Pamela A. Riehl (1992) Sports Complex Coordinator, M.S., University of Connecticut

Albert F. Riess (1979) Associate Librarian, M.L.S., State University of New York at Buffalo

Howard P. Riessen (1988) Assistant Professor, Biology, Ph.D., Yale University

Joan W. Roberts (1978) Associate Professor, English, Ph.D., University of Cincinnati

Scott W. Roberts (1986) Associate Professor, Health, Physical Education and Recreation, Ed.D., Brigham Young University

Shirley J. Roberts (1986) Staff Assistant, B.A., State University College at Buffalo

Evelyn Santiago Rosario (1980) Counselor, Educational Opportunity Program, M.A., University of Puerto Rico, Piedras

David J. Ross (1977) TV Engineer, Instructional Resources

Joan D. Rosso (1976) Associate Professor, English, Ph.D., State University of New York at Buffalo

James D. Rotella (1968) Professor, Educational Foundations, Ed.D., State University of New York at Buffalo

Neil H. Rudin (1969) Associate Professor, Foreign Language, and Associate Vice President for Academic Affairs, and Dean for Undergraduate Studies, Ph.D., State University of New York at Buffalo

Nancy K. Russell (1983) Associate Professor, Exceptional Education, Ph.D., State University of New York at Buffalo

Om P. Rustgi (1973) Professor, Physics, Ph.D., University of Southern California

Diane L. Ryndak (1987) Associate Professor, Exceptional Education, Ph.D., University of Illinois

Benjamin D. Sackmary (1988) Associate Professor, Business, Ph.D., University of Massachusetts

Richard L. Saddleon (1981) Property Control Officer

Francis Salvamoser (1967) Associate Professor, Education, M.Ed., Pennsylvania State University

Sarita S. Samora (1981) Associate Professor, Exceptional Education, Ph.D., State University of New York at Buffalo

Kerran L. Sanger (1988) Assistant Professor, Communication, M.A., Pennsylvania State University

Phillip Santa Maria (1979) Associate Vice President for Student Affairs and Dean of Students, Ph.D., Kent State University

Stephen F. Saracino (1981) Associate Professor, Design, and Department Chairperson, M.F.A., Kent State University

Anthony C. Sartori (1973) Athletics Trainer, M.S., State University College at Buffalo

Lynne M. Scalia (1983) Assistant Professor, Business, M.B.A., Niagara University

William L. Scheider (1976) Assistant Professor, Nutrition and Food Science, M.S., Cornell University

Rebecca J. Schenk (1976) Assistant Budget Director, M.B.A., State University of New York at Buffalo

Ned V. Schimizzi (1968) Associate Professor, Elementary Education and Reading, Ed.D., Indiana University

Ted P. Schmidt (1990) Assistant Professor, Economics and Finance, M.A., University of California

Robert C. G. Schmoyer (1967) Associate Professor, Mathematics, M.A., Villanova University

Eileen Schoaff (1987) Assistant Professor, Mathematics, Ph.D., State University of New York at Buffalo

Estella Schoenberg (1967) Professor, English, Ph.D., University of Tulsa

Edward M. Schulman (1977) Professor, Chemistry, and Department Chairperson, Ph.D., State University of New York at Stony Brook

William C. Schultz (1975) Professor, Computer Information Systems, and Department Chairperson, Ph.D., University of Wisconsin

Rand L. Schuster (1983) Associate Professor, Design, M.F.A., Rochester Institute of Technology

Stephen E. Schwartz (1974) Associate Professor, Health, Physical Education and Recreation, Ph.D., Ohio State University

Lawrence Scott (1977) Associate Professor, Computer Information Systems, M.S., University of Miami

Richard P. Seibert (1964) Associate Professor, Sociology, Ph.D., State University of New York at Buffalo

Carl K. Seyfert (1967) Professor, Earth Sciences and Science Education, Ph.D., Stanford University

Steven E. Shaffer (1984) Assistant Coordinator, Facilities Planning, M.A., State University of New York at Buffalo

James D. Shaw (1967) Associate Professor, Mathematics, M.S., Fairleigh Dickinson University

James M. Shea (1967) Associate Professor, Safety Studies, M.S.Ed., State University College at Buffalo

Lester S. Sielski (1973) College Physician P.T., M.D., State University of New York at Buffalo

Harish C. Sikka (1982) Research Professor, Ph.D., Auburn University

Jerry W. Silverschatz (1990) Senior Programmer/Analyst, B.S., State University College at Buffalo

Radha Simhadri (1988) Assistant Professor, Speech Language Pathology and Audiology, Ph.D., University of Texas

Judith W. Simpson (1992) Assistant Professor, Art Education, Ph.D., University of Wisconsin

Jill K. Singer (1986) Associate Professor, Earth Sciences and Science Education, and Department Chairperson, Ph.D., Rice University

Surjit Singh (1967) Professor, Chemistry, Ph.D., St. Louis University

Julius P. Slavenas (1962) Professor, History, Ph.D., University of Chicago

Sarah Slavin (1981) Associate Professor, Political Science, Ph.D., George Washington University

Marcia Slawinowski (1964) Acting Director, Purchasing

Wanda M. Slawinska (1973) Senior Assistant Librarian, M.S.L.S., Syracuse University

John J. Slivka (1969) Professor, Mathematics, Ph.D., State University of New York at Buffalo

Phyllis A. Sloss (1970) Associate Professor, English, Ph.D., State University of New York at Buffalo

Edward O. Smith Jr. (1963) Professor, History, Ph.D., Lehigh University

Leon Smith (1969) Director, Academic Standards, Ph.D., State University of New York at Buffalo

Linda A. Smith (1981) Financial Aid Assistant, A.A.S., State University of New York College of Technology at Canton

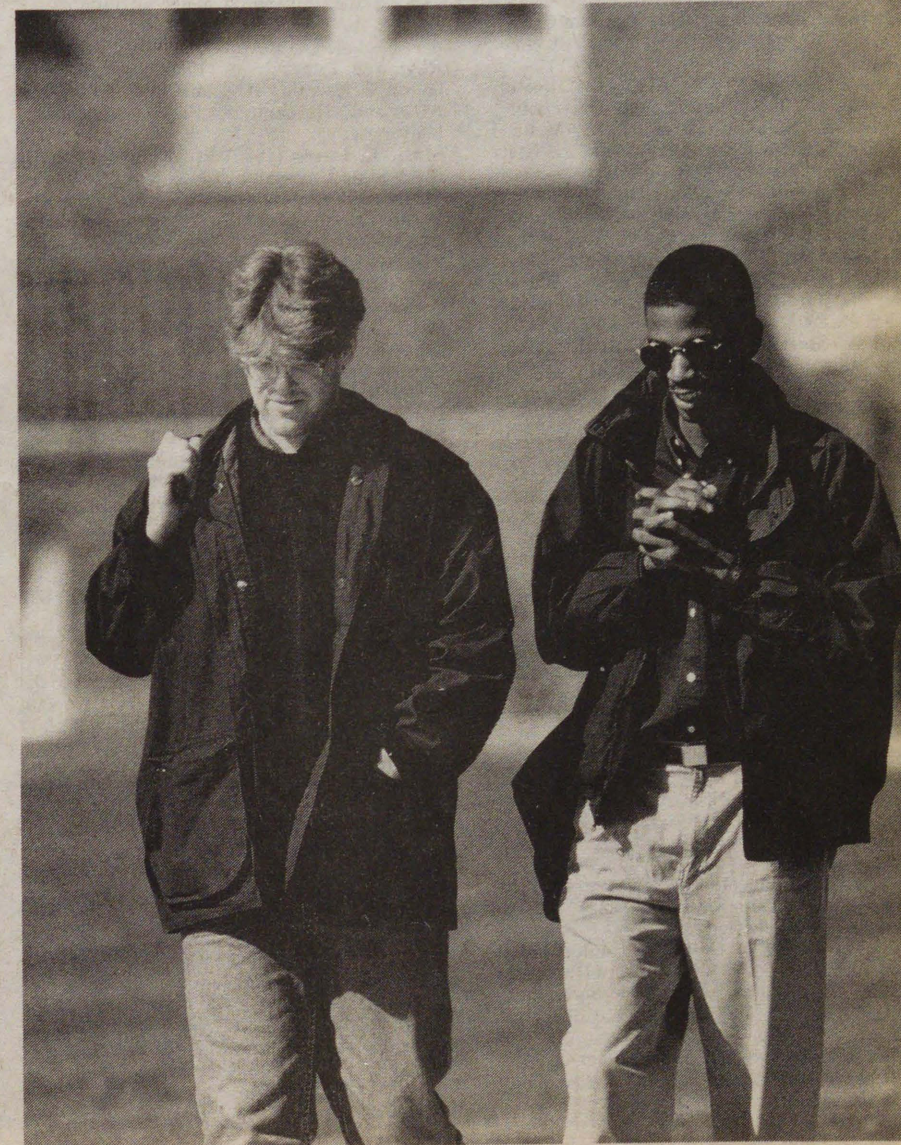
Maureen Smith (1992) Assistant Professor, Exceptional Education, M.A., Gallaudet University

Paul J. Smith (1988) Instructional Support Technician, Instructional Resources, A.A.S., Erie Community College

Robert G. Smith (1990) Senior Programmer/Analyst, B.S., State University of New York at Buffalo

Ronald D. Smith (1990) Assistant Professor, Communication, M.S., Syracuse University

Lee R. Snyder (1975) Associate Professor, Philosophy, Ph.D., State University of New York at Buffalo



Randal J. Snyder (1990) Assistant Professor, Biology, Ph.D., University of California
Ann Marie Sokol (1978) Instructional Support Technician, Chemistry, B.A., State University College at Buffalo
John H. Song (1988) Assistant Professor, Criminal Justice, Ph.D., University of California at Irvine
Peter J. Sowiski (1974) Professor, Fine Arts, M.F.A., Ohio State University
Betty J. Spencer (1990) Senior Programmer/Analyst, B.S., State University College at Buffalo
Camille Spyra (1987) Athletics Business Manager, B.S., State University College at Buffalo
Eugene C. Stafford (1964) Professor, Industrial Arts Education, D.Ed., Pennsylvania State University
Edward A. Standora (1985) Associate Professor, Biology, Ph.D., University of Georgia
Gregory P. Stein (1970) Associate Professor, Geography, Ph.D., University of Minnesota
Robert C. Stein (1965) Professor, Biology, Ph.D., Cornell University
Steven A. Steiner (1990) Assistant Professor, Chemistry, Ph.D., University of California
Richard A. Stempniak (1974) Assistant Professor, Technology, M.S., State University College at Buffalo
James E. Stenger (1976) Assistant Director, Public Safety, B.S., Florida State University
Theresa R. Stephan Hains (1992) Medical Director, Student Health Services, M.D., State University of New York at Buffalo
Robert J. Stephen (1970) Assistant Dean and Director of Lifelong Learning, M.Ed., Pennsylvania State University
Samuel T. Stern (1962) Professor, Mathematics, Ph.D., State University of New York at Buffalo
Hilary I. Sternberg (1990) Assistant Librarian, M.L.S., State University of New York at Buffalo
Carol A. Stevens (1992) Assistant Professor, Elementary Education and Reading, Ph.D., Cleveland State University
Michael Stevens (1989) Director, Educational Opportunity Program, M.A.T., Colgate University
Ronnie Stewart (1990) Assistant Professor, Sociology, Ph.D., Howard University
Susan Stievater (1966) Associate Librarian, M.L.S., State University College at Geneseo
Candace Stout (1991) Assistant Professor, Art Education, Ph.D., University of Missouri
Alice Sullivan (1987) Director, Sexuality Center, M.S., State University College at Buffalo
Henry J. Sustakoski (1964) Professor, English, B.A., State University of New York at Buffalo
Joel P. Swisher (1973) Manager, Systems and Data Communications, B.A., State University College at Buffalo
James L. Sylvia (1977) Associate Professor, Fine Arts, M.F.A., Visual Studies Workshop/State University of New York at Buffalo
Elizabeth Szockyj (1991) Assistant Professor, Criminal Justice, Ph.D., University of California
F. Christopher Tahk (1983) Professor, Art Conservation, and Department Director, Ph.D., University of Rochester
Jean Tassy (1983) Counselor, Educational Opportunity Program, B.S., Niagara University
Romney G. Taylor (1983) Senior Programmer/Analyst, B.S., State University College at Buffalo
Carlos E. Tejada (1987) Senior Career Counselor, Career Development Center, M.A., Ohio State University

Josephine Terranova (1967) Nurse, Weigel Health Center, R.N., Meyer Memorial Hospital
Paul L. Thoms (1965) Assistant Professor, Exceptional Education, M.S.Ed., State University College at Buffalo
James A. Thor (1989) Financial Manager, Buffalo State College Foundation, B.S., C.P.A., Rochester Institute of Technology
Jonathan Thornton (1983) Associate Professor, Art Conservation, M.A., Cooperstown
Hollis W. Tibbetts Jr. (1965) Associate Professor, Mathematics, M.S., Syracuse University
Lori L. Till (1985) Assistant Professor, Nutrition and Food Science, M.S., State University College at Buffalo
George V. Tomashevich (1968) Professor, Anthropology, Ph.D., University of Chicago
Richard Towne (1966) Professor, Exceptional Education, and State University Chancellor's Award for Excellence in Teaching, 1974, Ph.D., Michigan State University
Donald J. Treffinger (1979) Professor, Creative Studies, and Exceptional Education, Ph.D., Cornell University
Lisa M. Treman (1992) Financial Aid Adviser, M.S., State University College at Buffalo
Patrick A. Trinkle (1988) Instructional Support Technician, Instructional Resources
Raymond Tymas-Jones (1983) Associate Professor, Performing Arts, and Associate Dean, Arts and Humanities, Ph.D., Washington University
Marie E. Unson (1990) Programmer/Analyst, B.A., State University of New York at Buffalo
Marianne Vallet-Sandre (1973) Associate Professor, Design, M.S.Ed., State University College at Buffalo
Russell C. Vannoy (1961) Associate Professor, Philosophy, Ph.D., University of Rochester
Barbara J. Vaughan (1982) Associate Librarian, M.L.S., State University of New York at Buffalo
Gary E. Vickers (1974) Executive Director, Faculty-Student Association, M.B.A., University of Rochester
Conrad C. Vogler (1964) Professor, Sociology, Ph.D., State University of New York at Buffalo
Heidi von Harscher (1991) Senior Psychologist, Ph.D., Miami Institute of Psychology
Gregory J. Wadsworth (1992) Assistant Professor, Biology, Ph.D., North Carolina State University
Norman G. Walker (1963) Associate Professor, Elementary Education and Reading, Ed.D., Ball State University
James H. Wallace (1992) Director, Residence Life, M.Ed., Antioch University
Jeffrey J. Wallace (1981) Special Assistant to the President for Equity and Campus Diversity, Ph.D., State University of New York at Buffalo
Kathryn A. Ward (1979) Director, Student Life, M.S.Ed., State University College at Buffalo
Louis A. Ward (1979) Associate Director, Public Safety
Raymond W. Waxmonsky (1968) Professor, Geography, Ph.D., University of Illinois
Sandra V. Weatherbee (1992) Academic Advisement Assistant, New Student Programs and Advisement, M.S., State University College at Buffalo
Phillip A. Weaver (1969) Associate Professor, Exceptional Education, Ph.D., University of Michigan
Jeanne M. Weeks (1986) Instructional Support Assistant, B.S., State University College at Buffalo

David P. Wegenast (1973) Professor, Social Work, D.S.W., City University of New York
Sarah D. Weidler (1987) Assistant Professor, Elementary Education and Reading, Ph.D., Pennsylvania State University
Thomas Weinberg (1969) Professor, Sociology, and State University Chancellor's Award for Excellence in Teaching, 1973, Ph.D., University of Connecticut
Barbara Weitzner-Lin (1985) Assistant Professor, Exceptional Education, Ph.D., State University of New York at Buffalo
Gail V. Wells (1985) Coordinator, Minority Student Services, B.A., State University of New York at Buffalo
James W. Wells (1968) Professor, Physics, and Department Chairperson, Ph.D., State University of New York at Buffalo
Walter Wells (1969) Associate Professor, Design, B.S., State University College at Buffalo
George J. Wenner (1990) Assistant Professor, Elementary Education and Reading, Ph.D., State University of New York at Buffalo
Franklin A. Wenske (1986) Associate Facilities Program Coordinator, B.S., State University of New York at Buffalo
Craig Werner (1984) Associate Professor, English, Ph.D., Harvard University
Charles J. Wertz (1982) Associate Professor, Computer Information Systems, M.S., State University of New York at Buffalo
John H. Whelan (1970) Director, Business Affairs, M.B.A., State University of New York at Buffalo
W. Richard Whitaker (1984) Professor, Communication, and Department Chairperson, Ph.D., Ohio University
Thomas D. White (1991) Assistant Professor, Biology, Ph.D., University of California
Wendel B. Wickland (1964) Assistant Professor, Biology, and Director, Special Programs, M.S., Eastern Michigan University
Robert E. Wild (1965) Senior Staff Assistant, Instructional Resources, B.F.A., Rochester Institute of Technology
Sunyna S. Williams (1992) Assistant Professor, Psychology, Ph.D., Columbia University Teachers College
Penny Williams-Cardinale (1987) Assistant Professor, Computer Information Systems, B.A., California State University
Idajean Windell (1973) Associate Professor, Exceptional Education, Ed.D., Indiana University
Robert L. Wood (1987) Assistant Professor, Design, M.F.A., Indiana State University
Michael E. Woodruff (1988) Associate Director, Financial Aid, M.S., State University College at Buffalo
Ottillie Woodruff (1983) Counselor, Educational Opportunity Program, B.S.Ed., State University College at Cortland
Gwendolyn Wooten (1975) Senior Admissions Adviser, B.A., Utica College
Michael R. Wright (1970) Associate Professor, Music, Ph.D., University of California at Los Angeles
M. Virginia Wyly (1972) Professor, Psychology, and State University Chancellor's Award for Excellence in Teaching, 1976, Ph.D., University of Connecticut
Mary Wyrick (1992) Assistant Professor, Art Education, Ph.D., Pennsylvania State University
James J. Yager (1974) Coordinator, Facilities Planning, M.B.A., State University of New York at Buffalo

Jenny Y. P. Yau (1989) Assistant Professor, Educational Foundations, M.S.Ed., University of Rochester
Barry R. Yavener (1985) Associate Professor, Design, M.F.A., Rochester Institute of Technology
Diane K. Youn (1990) Assistant Professor, Educational Foundations, Ph.D., The Catholic University of America
Darrell Young (1960) Professor, Earth Sciences and Science Education, Ed.D., State University of New York at Buffalo

Paul Zadner (1972) Associate Librarian, M.L.S., State University College at Geneseo
Michael J. Zborowski (1991) Assistant Professor, Psychology, Ph.D., Ohio University
Chester J. Zelasko (1990) Assistant Professor, Health, Physical Education and Recreation, Ph.D., Michigan State University
Sidney Zelson (1972) Professor, Foreign Language, Ph.D., Ohio State University
Rita M. Zientek (1991) Instructional Support Assistant, M.S., State University College at Buffalo

Susan O. Zirin (1981) Director, New Student Programs and Advisement, M.Ed., State University of New York at Buffalo
Stephanie B. Zuckerman-Aviles (1982) Director, Career Development Center, M.Ed., State University of New York at Buffalo
Robert J. Zuercher (1980) Associate Professor, Industrial Technology, M.B.A., State University of New York at Buffalo
Marcy Ann Zulawski (1966) Coordinator, Operational Services, Computing Services



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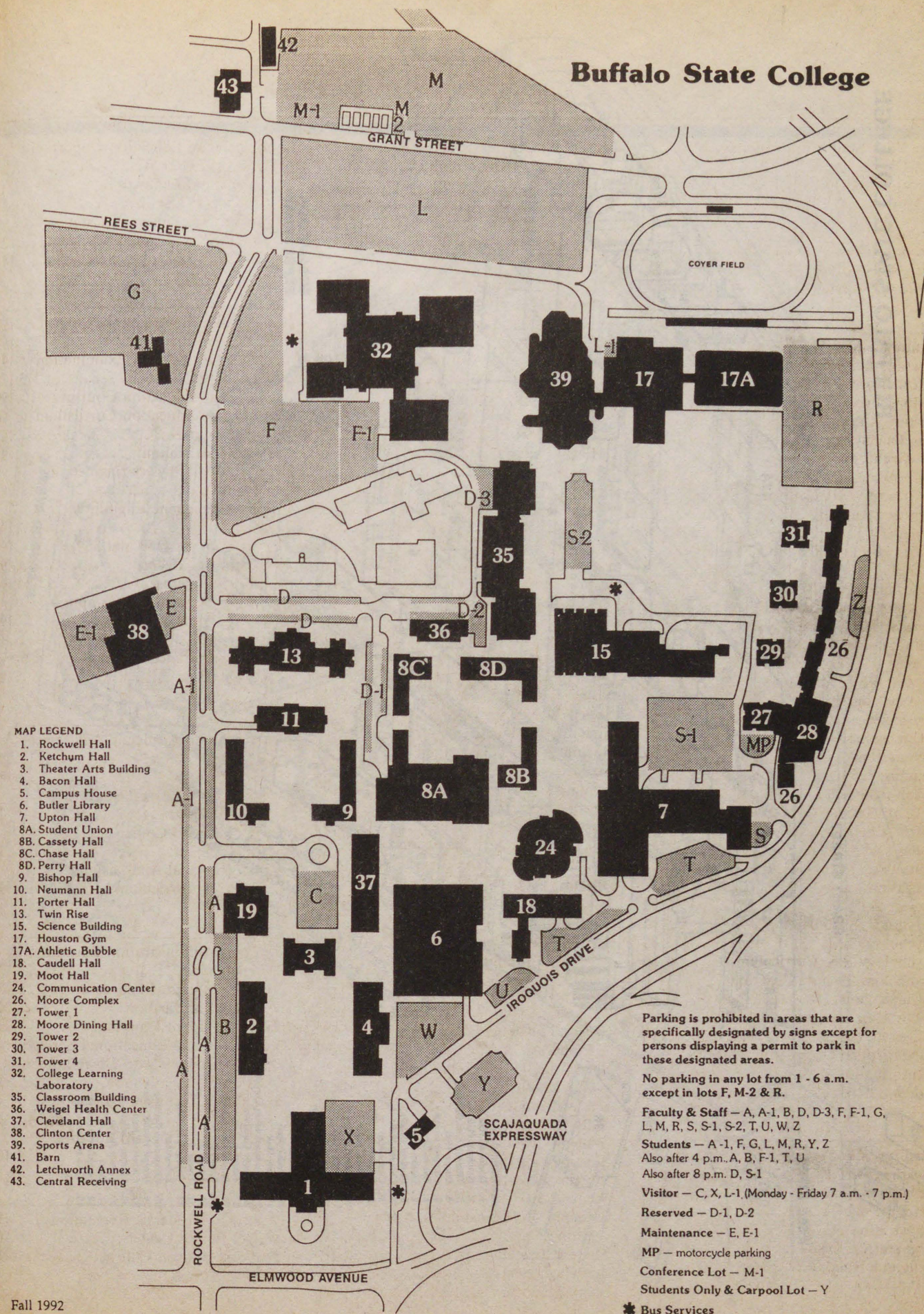
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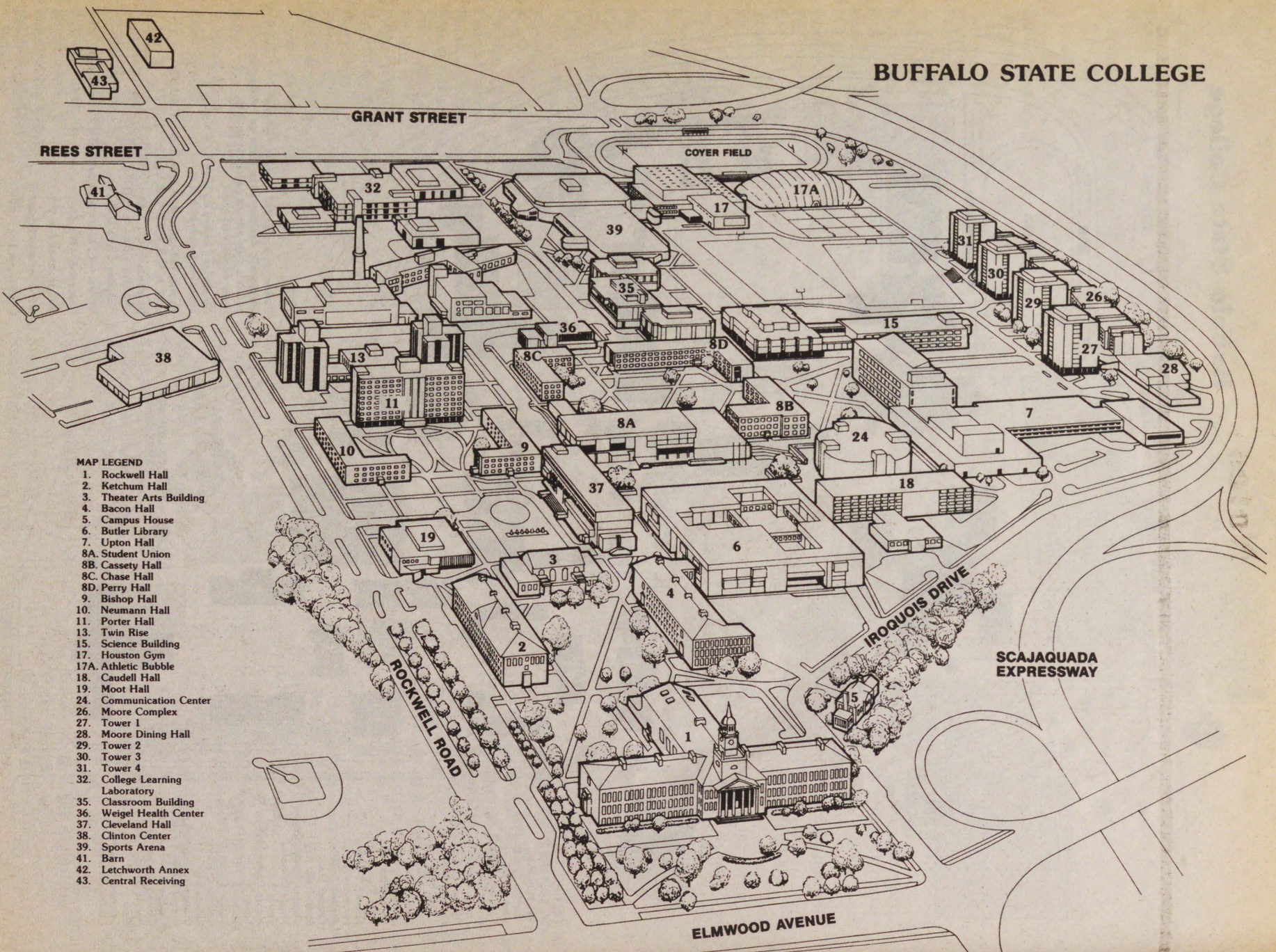
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