

State University of New York College at Buffalo - Buffalo State University

Digital Commons at Buffalo State

Academic Catalogs, 1871-2018

Buffalo State Archives: History of the Institution

1978

College Catalog, 1978-1979

Buffalo State College

Follow this and additional works at: <https://digitalcommons.buffalostate.edu/buffstatecatalogs>



Part of the [History Commons](#)

Recommended Citation

"College Catalog, 1978-1979." Academic Catalogs, 1871-2018. Archives & Special Collections Department, E. H. Butler Library, SUNY Buffalo State.

<https://digitalcommons.buffalostate.edu/buffstatecatalogs/197>

This Book is brought to you for free and open access by the Buffalo State Archives: History of the Institution at Digital Commons at Buffalo State. It has been accepted for inclusion in Academic Catalogs, 1871-2018 by an authorized administrator of Digital Commons at Buffalo State. For more information, please contact digitalcommons@buffalostate.edu.

State University of New York College at Buffalo
Undergraduate Catalog
1979-81



Buffalo State College

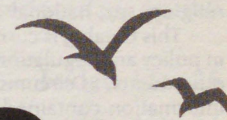


The future
starts here!

State University of New York College at Buffalo
Undergraduate Catalog
1979-81



Buffalo State College



The future
starts here!

83⁸ 371BR2 4 040 XL 2202

Directory

College Telephone—(716) 878-4000

Academic Affairs, Vice President	878-5901
Academic Records, Registrar	878-4811
Admissions Office	878-5511
Bursar	878-4121
Career Counseling, Placement	878-5811
Continuing Education	878-5906
Financial Aids	878-4901
Housing Office	878-6806
Library	878-6302
SEEK Program	878-4224 or 878-5514
Student Affairs, Vice President	878-4704
Summer Session	878-4318

Mailing Address:

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

State University College at Buffalo is an Equal Employment Opportunity Affirmative Action Employer. It is the policy and the intent of the College that no otherwise qualified individual shall be excluded from participation in, be denied the benefits of, or be subjected to discrimination in any program or activity at the College on the basis of race, color, religion, sex, national origin, disability, handicap, or status as a veteran.

This Catalog is current as of April 1979. The College reserves the right to make changes in policy and regulations, and its faculty reserves the right to change course content and requirements, as circumstances dictate. 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 the State University College at Buffalo. Fifty thousand were printed August 1979. Dr. Richard A. Wiesen, Acting Associate Vice President for Academic Affairs; Richard A. Reynolds, Acting Assistant to the Vice President for Academic Affairs, and Sue M. Joffe, Cleveland Hall 519 (716) 878-5901, served as editors. The Office of Public Affairs, Cleveland Hall 516 (716) 878-4201, coordinated the graphics and production.

Academic Calendar/1979-80

First Semester

Registration and Orientation	Tuesday, September 4 and Wednesday, September 5
Instruction Begins	Thursday, September 6
Yom Kippur—No Classes	Monday, October 1
Thanksgiving Recess— Begins at the Close of Classes	Tuesday, November 20
Classes Resume	Monday, November 26
Winter Recess— Begins at the Close of Classes	Friday, December 21

Second Semester

Registration and Orientation	Monday, January 14 and Tuesday, January 15
Instruction Begins	Wednesday, January 16
Washington's Birthday—No Classes	Monday, February 18
Mid-semester Recess— Begins at the Close of Classes	Friday, March 28
Classes Resume	Wednesday, April 9 (Graduate classes will resume on Monday, April 14)
Semester Ends at Close of Classes	Friday, May 16
Commencement (tentative)	Saturday, May 17

Academic Calendar/1980-81

First Semester

Registration and Orientation	Tuesday, September 2 and Wednesday, September 3
Instruction Begins	Thursday, September 4
Jewish New Year— Classes End at 4:15 p.m.	Wednesday, September 10
Classes Resume	Monday, September 15
Columbus Day—No Classes	Monday, October 13
Thanksgiving Recess— Begins at the Close of Classes	Tuesday, November 25
Classes Resume	Monday, December 1
Winter Recess— Begins at the Close of Classes	Friday, December 19

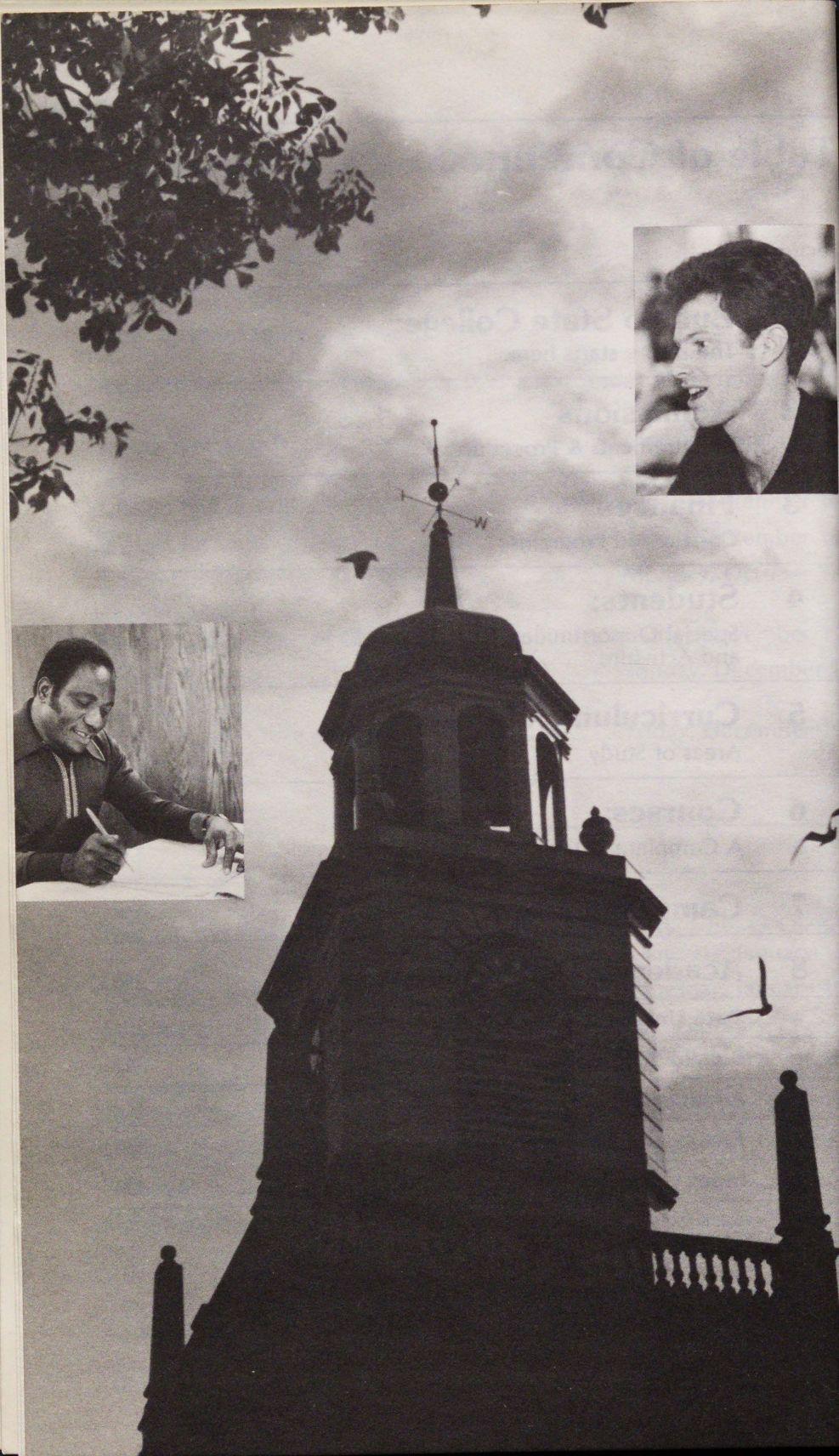
Second Semester

Registration and Orientation	Monday, January 12 and Tuesday, January 13
Instruction Begins	Wednesday, January 14
Washington's Birthday—No Classes	Friday, February 13 and Monday, February 16
Mid-semester Recess— Begins at the Close of Classes	Wednesday, April 15
Classes Resume	Monday, April 27
Semester Ends at Close of Classes	Friday, May 15
Commencement (tentative)	Saturday, May 16

Table of Contents

Section	Page
1 Buffalo State College: The future starts here.	7
2 Admissions Requirements & Procedures	17
3 Finances Costs & Aid Programs	25
4 Students: Special Opportunities, Services and Activities	43
5 Curriculum Areas of Study	61
6 Courses: A Complete Listing	171
7 Camp Resources	335
8 Academic Policies	345
State University of New York	363
Buffalo State College: Important Facts	368
Administration	372
Faculty and Professional Staff	377
Index	400

Buffalo State College: 1 The future starts here!

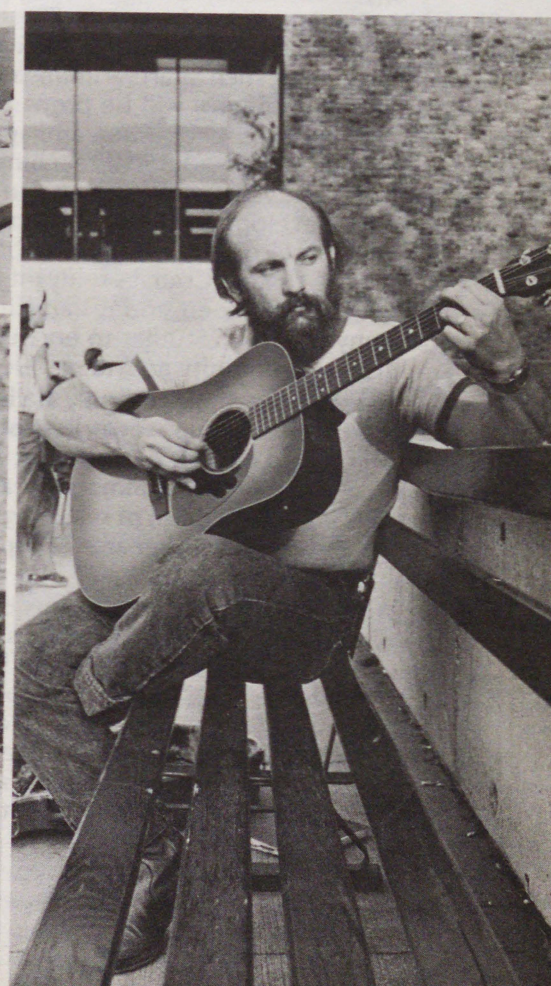
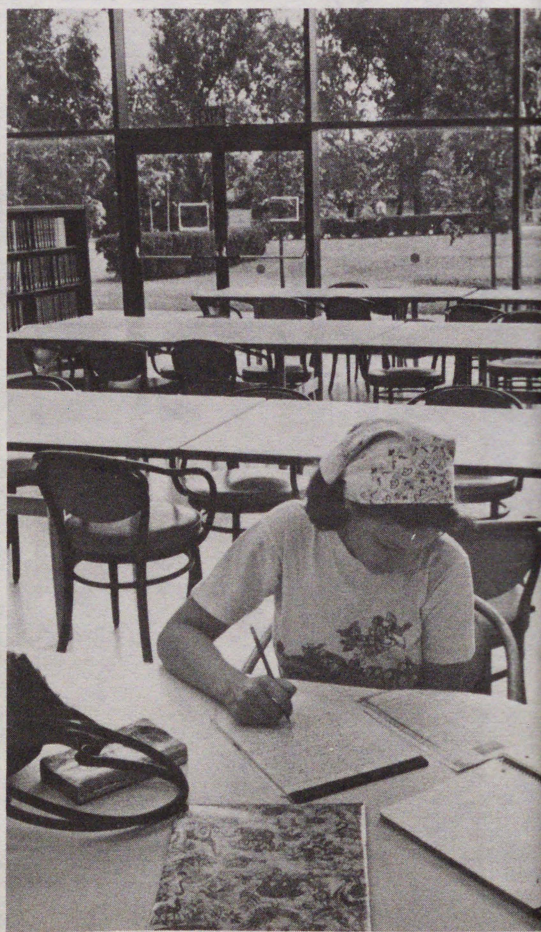


Get ready for your future—and do it at the State University College at Buffalo, largest of the arts and science colleges in the State University system and the only one with a large urban center at its doorstep.

Since its founding in 1871, the College has been dedicated to giving students relevant quality education—an asset that will last a lifetime and enable the pursuit of satisfying and meaningful careers. As the College has grown—from a small teachers' school to a liberal arts college with program offerings in 72 fields—that goal has never been forgotten, only expanded.

The 105-acre campus is located on Buffalo's West Side, adjacent to Delaware Park, in one of the most picturesque areas of the city. Buffalo's downtown business and commercial district is but a 10-minute ride away.

Currently, enrollment at Buffalo State numbers about 10,500, including 8900 undergraduates. About 72 percent of students are commuters; 28 percent are resident. About 1000 undergraduates are part of the College's Educational Opportunity Program, SEEK. Established in



1967, this pioneering program was the first of its kind in the State University of New York system.

For the first 90 years of its existence, the College concentrated on teacher education, and, in doing so, created nationally acclaimed programs in art education, exceptional children education, and industrial arts education. Since 1961 its focus has broadened to include a full complement of programs in the arts, humanities, natural sciences, technologies, and social sciences. Five types of bachelor's degrees are given; master's degrees are offered in certain areas.

In addition to degree programs in the liberal arts, many new career-oriented programs have been initiated and are growing rapidly. A bachelor of science degree in Industrial Technology was approved in 1968. An undergraduate Criminal Justice program was established in 1969; a master's degree program in that field was authorized in 1977. Today, the Criminal Justice program's enrollment of more than 400 students
(Continued p. 10)

1 / Buffalo State College

makes it one of the largest programs at the College. It is the second largest program of its kind in the state and largest in the State University system.

In 1974 the College began programs in Journalism, Broadcasting and Speech Communication and in Information Systems Management. The communications program, with more than 400 students is the only degree-granting program of its kind in Western New York and in the State University system. The Information Systems Management program, with nearly 200 students, is among the 10 most popular programs at the College.

Other fields currently attracting large numbers of students are: Design, Elementary Education, Industrial Technology, Art Education, Industrial Arts, Biology and Social Work.

The College's commitment to teacher preparation remains strong. Elementary education students may specialize in either nursery to grade six or grades seven to nine. Secondary education programs include Biology, Business and Distributive Education, Chemistry, English, French, General Science, Mathematics, Physics and Social Studies.

The Art Education program, one of the largest in the state, is moving into new areas, such as arts administration, arts therapy, and recreational art, so that graduates will be prepared for opportunities in health care centers, recreational facilities, and agencies which care for the elderly in addition to more traditional teaching jobs in the schools.

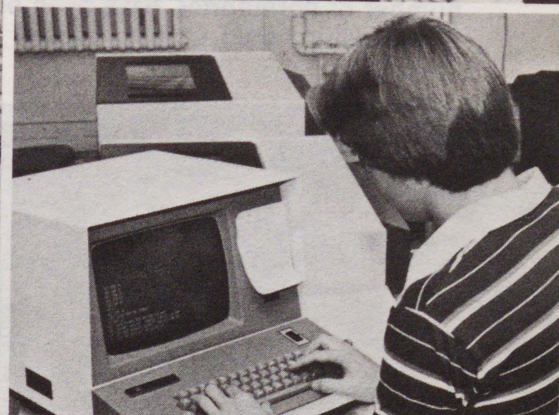
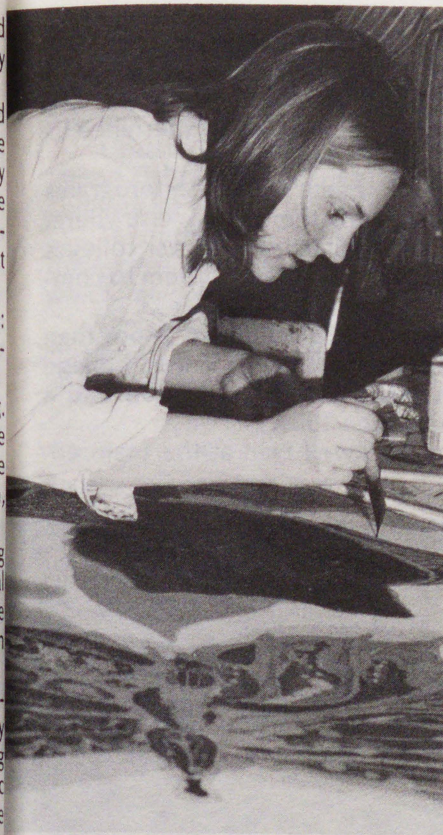
In recent years, the College's urban location has provided the impetus for development of new courses and programs. Inter-disciplinary programs in Urban Studies and Urban-Regional Analysis and Planning have been created. Courses relevant to the concerns of racial and ethnic minorities have been added, and in 1977 the College organized the Academy of Urban Studies to encourage academic activities relating to the urban community and to develop closer ties with the community.

Because the College firmly believes in the value of a broad-based education, all students, regardless of major, are required to take a substantial portion of their course work in liberal arts areas. In certain cases it's even possible to combine several disciplines to form a major. Also, students have the option of selecting an academic minor in addition to a major to establish another area of expertise and open up more career opportunities.

Individual needs and interests of students receive special attention at Buffalo State. An individualized study option allows students to plan their own program and proceed at their own pace, sometimes earning a degree in fewer than four years. Qualified high school juniors may seek early admission to the College. Students may cross-register for courses at other participating colleges in Western New York and may also attend on a short-term basis any college in the state participating in the Visiting Student Program. The National Student Exchange Program allows students

(Continued p. 12)

Buffalo State College / 1



1 / Buffalo State College

to spend one to two semesters at one of 45 other institutions across the country. Internship programs between Buffalo State and local businesses, industries, hospitals, schools, volunteer agencies, and government agencies allow student to receive practical experience to supplement their academic training.

Transfer students have an important place here. All programs welcome qualified students who have begun their study elsewhere. More and more students graduating from specialized two-year colleges are looking to Buffalo State for programs which will allow them to complete requirements for bachelor's and even master's degrees.

The Buffalo State campus is composed of 33 buildings. More than half of these, including Butler Library, Weigel Health Center, College Learning Laboratory, Communication Center, Student Union and a number of dormitories, have been built since 1960.

The Burchfield Center, housed in Rockwell Hall at the main en-

Buffalo State College / 1

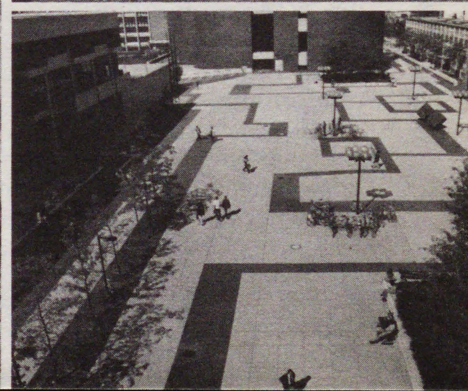
trance to campus, is renowned as a regional art center. A repository for the collection of the area's premiere artist, watercolorist Charles Burchfield, the center also holds major exhibitions of important work by Western New York artists.

Upton Hall is the campus center for visual and performing arts. The Upton Hall Gallery regularly exhibits student and faculty work while the auditorium is used for many drama, music, and dance productions.

The Independent Learning Center in Butler Library augments the instructional program by providing slides, audiotapes and videotapes which may be used by individual or small groups of students.

The College Learning Laboratory, for years a demonstration school and now, as well, one of the Buffalo Public Magnet Schools, provides many supplementary experiences for education students.

(Continued p. 14)



One of the greatest resources of the College is the urban area surrounding it. Western New York boasts an array of educational and leisure attractions, and many are located within close proximity to the campus. The city's public transportation system and area expressways make most places easily accessible. (See area map on p. 404.)

Across the street is the Albright-Knox Art Gallery (1), known nationally for its outstanding contemporary art collection. A block away is the Buffalo Historical Society Museum (4). The Buffalo Zoo (13) is on the other side of Delaware Park. The newly-remodeled Buffalo Museum of Science (8) is a short drive down the Scajaquada and Kensington Expressways.

Kleinhans Music Hall (6), home of the Buffalo Philharmonic Orchestra, regularly schedules a variety of concerts to suit all musical tastes. Rock concerts are held year round in downtown Memorial Auditorium (7) and in the summertime at Rich Stadium (10), a 20-minute drive south of the city.

Buffalo's new Convention Center (15) in the heart of the downtown area offers an assortment of concerts and exhibits, while Studio Arena Theater (12) in Buffalo's Theater District on nearby Main Street presents a full season of professional theater. Down the street, the Shea's Buffalo Center for the Performing Arts (16) brings many touring productions to town for its ballet and theater series. Across from the Shea's Buffalo is the State University of New York at Buffalo's Center for Theater Research.

Summertime, attention shifts northward to Artpark (3) in Lewiston for a busy schedule of ballet, opera and, a host of daily craft demonstrations; Melody Fair (14) in North Tonawanda for pop entertainment, and the Shaw Festival in scenic Niagara-on-the-Lake, Ontario. The Chautauqua Institution, an hour's ride southward, offers numerous cultural events throughout the summer.

There's never a lack of sightseeing destinations on both the American and Canadian sides of the Niagara River. History buffs enjoy Fort Erie and Old Fort Niagara. Niagara Falls (9), the magnificent Niagara Gorge, and the beautiful Canadian shoreline constantly attract scores of visitors. The Erie Basin Marina, newest site along Buffalo's shoreline, is a place for relaxing and enjoying the city's skyline.

For sports fans there's never a dull moment. The Buffalo Bills play in Rich Stadium; the Buffalo Sabres regularly fill Memorial Auditorium to capacity. By December 1979 Buffalo expects to have a team in the new Major Indoor Soccer League. Games will be played in Memorial Auditorium.

The city also boasts a girls' professional softball team and double A baseball. The Skylon Marathon, an international course starting in Delaware Park and ending at the Skylon Tower in Niagara Falls, each year attracts thousands of runners. It has been designated as the site of the 1980 Olympic qualifying trials.

Buffalo's winter weather is ideal for skiing at one of many resorts south of the city or tobogganing in one of the county parks. Snowshoeing and ice fishing can be tried at Tifft Farm Nature Preserve, just south of the downtown area.

"The Strip," an area of Elmwood Avenue within walking distance from campus, is the place students go for shopping, eating, and entertainment. The area begins at the intersection of Forest Avenue and extends down to Virginia Street in the middle of Allentown, a restored section of the city. Boutiques and antique shops are in plentiful supply, and there are many good restaurants and taverns. Probably the liveliest section in the entire city, "The Strip" is a magnet for suburban and city residents as well as Buffalo State students.

The Allentown area is the scene each June of the largest outdoor art festival in the area. Sponsored by the Allentown Association, the festival draws hundreds of thousands of people into the downtown area during its two-day run.

Students coming to Buffalo State do so with anticipation. Cultural, educational and recreational opportunities beckon. The chance to develop into the kind of person who can live successfully in tomorrow's world is here. It begins with that first step on this campus.





Admissions: 2

Requirements & Procedures

Freshman Admission/18

Transfer Students/18

Educational
Opportunity Program (SEEK)/19

International Students/20

Early Admission/21

Special Departmental
Requirements/21

Admission Procedures/22

Continuing Education/22

Summer Session/23

Readmission/23

Student Retention/23



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, or national origin of individuals. Specific questions may be directed to the Admissions Office, Cleveland Hall 206, (716) 878-5511.

Freshman Admission

All applicants must possess or be a candidate for a high school diploma. A State High School Equivalency Diploma also is acceptable. High school preparation should be broad and balanced with study in the areas of social science, English, natural science, and mathematics.

Admission decisions are based on a combination of high school grades, rank in class, scores on standardized examinations like the Scholastic Aptitude Test of the College Entrance Examination Board, 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. With the exception of six programs, freshmen are accepted directly into their major if they indicate one. The exceptions are: Mental Retardation, Physically Handicapped, Learning and Behavioral Disorders, Criminal Justice, Social Work, and Engineering Technology. Check the program descriptions of these fields for more information.

Transfer Students

Transfer students must apply for and be admitted to specific programs. 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 previously earned will be evaluated for all accepted transfers upon receipt of official transcripts. A maximum of 91 semester hours may be transferred from other accredited institutions. However, no more than 60 to 64 hours may be transferred from two-year colleges. All passing grades will be evaluated on the same basis as grades earned by students at this College.

The College cannot guarantee how credits earned at a two-year institution will relate to bachelor's degree requirements. Transfer students should understand that only credit is transferrable. Grades, quality points, and cumulative averages do not transfer.

Special Credit

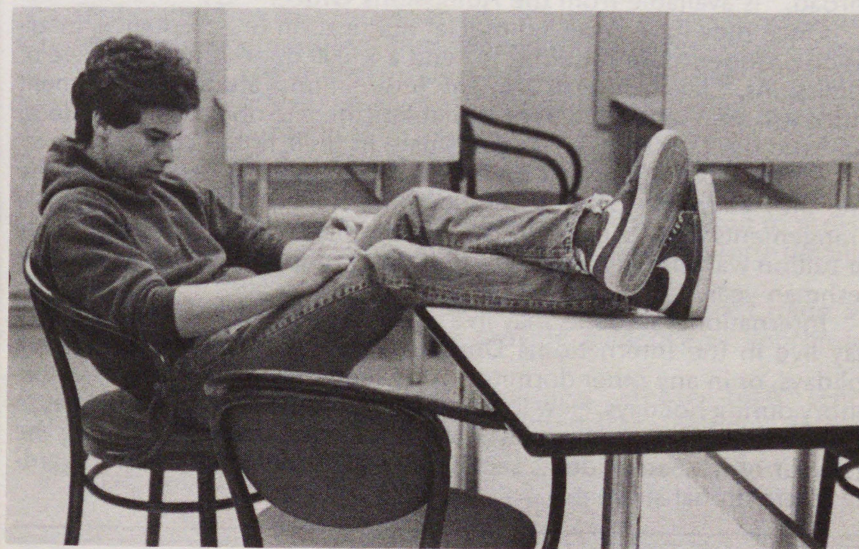
In addition to credit awarded for traditional college work, up to 45 credit hours may be accepted from the following sources:

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.

Educational Opportunity Program (SEEK)

This program is designed to provide special admission and counseling to those individuals who are both educationally and economically disadvantaged. 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 normal 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 SEEK Admissions Office, Cleveland Hall 206, (716) 878-4224.





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. They 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.

Once they have received official notification of acceptance, international students are required to send a \$1000 deposit to the Office of Admissions, Cleveland Hall 206. The International Student Advisement Office will then send an I-20 Form enabling them to obtain a F-1 (student) visa from the U.S. Embassy or Consulate in their home country.

About \$5000 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. They may apply for tuition waivers, which are granted on a competitive basis, after their freshman year.

International students may live on or off campus. On campus, they may live in the International Dormitory, which remains open during 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 students section for additional information regarding international students.)

Early Admission

Especially well-qualified high school juniors may enter Buffalo State College on a full or part-time basis prior to their earning a high school diploma under the Early Admission Program. The College offers several options:

1. Qualified students may enroll on a part-time basis.
2. Students who have been accepted may take two regular courses during the summer session following their junior year. If they do well, they will be admitted as regular freshmen in the fall instead of returning for their senior year in high school.
3. Students may enter the College as freshmen for only the last semester of their senior year. This does not require attendance during a summer session.

The College arranges with the high school to have remaining high school diploma requirements fulfilled by taking appropriate freshmen courses. Students usually receive their diplomas along with their high school classmates, although they may have completed college work.

For further details, contact the Admissions Office, Cleveland Hall 211D, (716) 878-5511.

Special Departmental Requirements

Certain programs have special entrance requirements. They are:

1. **Design and Fine Arts**—applicants must present an art portfolio to the appropriate department. Interviews will be arranged by the College.
2. **Engineering Technology**—this program is open only to transfer students who possess an associate in applied science degree in either electrical or mechanical technology or its equivalent.
3. **Learning and Behavioral Disorders**—preference is given to applicants who have successful experience working with students having learning problems. Applicants will be requested to provide letters of recommendation, and they must complete a form detailing their experiences.
4. **Vocational Technical Education**—applicants must pass trade and technical proficiency tests and provide evidence of appropriate work experience.
5. **Industrial Arts Education**—applicants whose high school background includes two units of mathematics (including Elementary Algebra) and two units of science (Chemistry and Physics especially) will be given preference.

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 State University College at Buffalo Admissions Office. It should be completed and submitted to the Application Processing Center in Albany, New York.

Admission is on a first-come, first-served basis. All applications and supporting materials should be submitted no later than December 15 for spring admissions, May 1 for summer admissions, and August 1 for fall admissions.

Prior to class registration, all accepted applicants must have an examination by a physician and send in a medical report noting results of a chest X-ray and urinalysis and providing evidence of having received a recent anti-tetanus shot and a smallpox vaccination (within three years).

Continuing Education

This program enables individuals to take college courses for credit without working toward a degree. Students may enroll in up to 11 hours of coursework 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. To register, complete a one-page application, which may be obtained from the Admissions Office.



Summer Session

The College offers one of the largest and most comprehensive summer programs in the State University system with more than 300 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 Registration Office, Cleveland Hall 204.



Readmission

Students who previously attended the College 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 he can be considered for readmission. If he is readmitted, all course work taken previously will be considered in computing the cumulative average.

Student Retention

In the fall of 1973, the College enrolled 1,719 new, full-time freshmen. Four years later 946 (55%) had received bachelor's degrees and 257 (15%) were still enrolled.

Finances:

3

Costs & Aid Programs

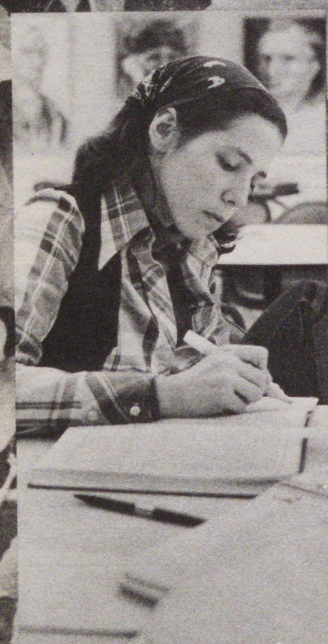
Costs — Student Expenses/26

Refund Policy/29

Student Financial Aid/30

How to Apply
for Financial Aid/32

Financial
Aid Programs/34



New students are required to pay tuition and fees prior to manual registration either in cash or through use of a deferred plan open to all students. Deductions will be made under various financial aid programs so long as the student attaches a copy of the award notice with his payment. Master Charge and VISA credit cards may also be used to pay tuition bills.

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 Office of the Bursar, Cleveland Hall 304, (716) 878-4121.

Costs—Student Expenses

Tuition

Tuition for full-time undergraduate Buffalo State students is \$450 per semester for New York State residents and \$750 per semester for out-of-state students. Tuition for part-time undergraduates is \$30 per credit hour for New York residents and \$50 per credit hour for out-of-state students.

Room and Board

Dormitory room rates are \$425 per semester for a double-occupancy room and \$612.50 per semester for a single 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.

A variety of meal plans is available ranging from a coupon a-la-carte option to a 19-meal-a-week plan. Meal plan rates vary from \$395 to \$425 a semester.

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 \$40 per semester activity fee. Part-time students pay \$2.65 per semester. These funds support the activities of more than 80 student groups on campus.

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 \$200 to \$430 a year, depending upon declared major; personal expenses, \$500 a year; and transportation, \$250 a year.

Health Insurance

An optional health insurance plan is available for \$95 a year.

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 dormitory room is \$24 a week and for a single room, \$36 a week. 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 1 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.

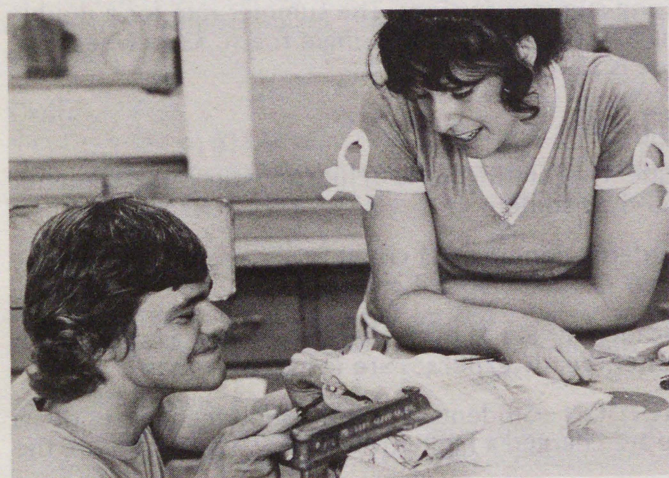
NON-RESIDENT TUITION—Students who are not permanent residents of New York State are charged a higher tuition rate. Other fees are the same.

An Estimated Budget

Estimated college costs can be found in the following table for the 1979-1980 academic year. The costs may vary according to a student's class status, place of residence, major, and individual needs. All charges are subject to change.

ESTIMATED BUDGET FOR 1979-1980 (freshman level)

	Commuter	Resident
Fixed Costs		
Tuition	\$ 900	\$ 900
Fees	95	95
Total Fixed Costs	\$ 995	\$ 995
Variable Costs		
Books and Supplies	\$ 200	\$ 200
Maintenance at home	850	—
Room	—	800
Board	—	900
Miscellaneous expenses	500	500
Transportation	250	250
Total Variable Costs	\$ 1800	\$ 2650
Estimated Annual Cost (two semesters)	\$ 2795	\$ 3645



Refund Policy

TUITION: A student who is given permission to cancel his registration is 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: Once a student has registered and occupied a room, the student is liable for payment of the room charge. Refunds will be made only when: (1) a student withdraws from college to enter military service; (2) a student withdraws due to circumstances beyond his control; and (3) a summer session student withdraws. The amount of the refund will be determined by subtracting the difference between the payments already received and the charge for the number of weeks the room has been occupied. A partial week will count as a whole week.

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 cancelled within the first two weeks of class.

COLLEGE FEE: Not refundable under most circumstances.

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 **Office of Student Financial Aid** has been extremely successful in helping students find ways and means of financing their college education. Currently, the office oversees the distribution of more than \$10 million in federal and state grants, loans, and jobs annually. About 75 percent of Buffalo State students are eligible for some type of aid. At least 4000 students are currently receiving federal Basic Educational Opportunity Grants each year. About 1000 receive federal loans worth about \$1 million. Work-study opportunities provide each of some 800 students with an additional \$700 yearly.

The Office of Student Financial Aid, 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 8:30 a.m. to 5:00 p.m., weekdays, and students are invited to come in with or without appointments. In addition, all incoming students are notified by mail about financial aid for which they are 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 financial aid applications. Three types of aid are available: grants (outright gifts which do not have to be repaid); loans (money which must be repaid at low interest); and employment (opportunities for students to work to earn part of the needed funds).

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 miscellaneous expenses.)

The Office of Student Financial Aid uses the Financial Aid Form to determine 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, makes a determination of how much a family can reasonably be expected to contribute. The student is also expected

to contribute something from savings, summer earnings, or special benefits he 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 from commuter to dormitory status are examples of changes which could affect the amount of aid which may be offered.

Who Is Eligible?

Only matriculated students are eligible to receive financial aid. Matriculated status is based on filing a written application for admission showing intent to pursue a specific degree program, capacity to undertake this program, and evidence of acceptance through the Office of Admissions.

Non-matriculated students are those who are not recognized as degree candidates and, therefore, are not eligible for financial aid. This includes continuing education, visiting, and special status students who have been allowed to take courses but have not been formally accepted by the college.

Most financial aid is based on full-time enrollment (12 credit hours a semester or more). If a student's enrollment is for 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 the Trust Territories of the Pacific Islands to apply for aid.

To continue to receive aid, students must make satisfactory progress toward completion of a degree and must not be in default of any loan or owe a refund for any grant.

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

Office of Student Financial Aid
Cleveland Hall 309
State University College at Buffalo
1300 Elmwood Ave.
Buffalo, N.Y. 14222
(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 plus a description of student rights and responsibilities regarding financial aid may be obtained in the Office of Student Financial Aid, Cleveland Hall 309, (716) 878-4901.

All students applying for aid at the College must file these two documents each year:

1. **State University College at Buffalo/College Financial Aid Application.** This form should be completed and returned directly to the Office of Student Financial Aid. Filing deadline for summer, fall, and spring semesters is the previous March 15. Filing deadline for spring semester only is the previous Nov. 15. Applications will be accepted for consideration after these dates on a first-come, first-served basis, with awards being subject to availability of funds.
2. **Financial Aid Form (FAF)**—This form is also the application for the federal Basic Educational Opportunity Grant Program (BEOG). It should be completed and mailed to the College Scholarship Service, Box 2700, Princeton, N.J. 08540. Buffalo State's College code is 2533. (The College also accepts the American College Testing Family Financial Statement, code number 2920).

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

1. **Basic Educational Opportunity Grant (BEOG)**—This form is needed ONLY if the Financial Aid Form will not be filed for other college programs or if item 83 was not completed on the FAF. The completed form should be mailed to the address indicated on the form.
2. **Tuition Assistance Program (TAP)**—for New York State residents ONLY. Current recipients will receive this form in the mail in late spring. Applications are also available in the Office of Student Financial Aid. Buffalo State's TAP college code is 0905 for all levels.
3. **New York State Higher Education Services Corporation (NYSHESC) Student Loan**—for New York State residents ONLY. This form, available only at lending institutions, should be completed and submitted to the Office of Student Financial Aid. The office will complete the college section and then forward it to the specified lender.
4. **Parents' Certificate of Independence**—This form is required for all students filing as independent or self-supporting. Parents' signature must be notarized. Submit the completed form to the Office of Student Financial Aid.
5. **Federal Income Tax 1040 Form for previous two years and/or letter from Social Services, Social Security, or Veterans' Administration** (income documentation is required for certain programs). Check specific applications or inquire at Office of Student Financial Aid.



Who Is Self-Supporting?

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

1. They must not have resided with parents for more than six weeks during calendar years 1978, 1979, and 1980 for aid in 1979-1980 or 1979, 1980, 1981 for aid in 1980-1981.
2. They must not have received more than \$750 in cash or kind from parents during the period of time listed above.
3. They will not be claimed as a tax dependent by their parents on their U.S. and state tax returns for the period of time listed above.

Award Notification

Freshmen and transfer students who have filed financial aid applications will receive notification about one month after their acceptance date for the following federal and state programs: Supplemental Educational Opportunity Grant, National Direct Student Loan, College Work-Study Program, Law Enforcement Education Program, and Educational Opportunity Program/SEEK. The Office of Student Financial Aid determines the eligibility for these programs.

Notification regarding other aid may take longer because agencies outside the college are responsible for deciding who is eligible, based on the filing of separate applications.

Overawards

Students are urged to contact the Office of Student Financial Aid 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.

Financial Aid Programs

Federal Aid Programs

All funds offered through the following federal programs must be used solely for educational purposes. Before any money can be disbursed, recipients must sign a notarized affidavit stating that funds received will be used only for such purposes. They must not owe a grant refund or be in default on any loan.

BASIC EDUCATIONAL OPPORTUNITY GRANT (BEOG)

The Basic Educational Opportunity Grant Program is an entitlement program for undergraduates enrolled at least on a half-time basis. Eligibility and the amount of the award are based on need. For 1979-1980, awards are expected to go as high as \$1800 or half the total cost of attendance, whichever is less. Basic grant payments usually cover four years of study. If a student is enrolled in an approved five-year program, a fifth year award may be paid.

To apply for 1979-1980, either a Financial Aid Form or a Basic Grant application must be filed by March 15, 1980. For 1980-1981, the deadline is March 15, 1981. Applications are available in the Office of Student Financial Aid. About six to eight weeks after filing, a calculated Student Eligibility Report will be sent to the applicant who must submit it to the Office of Student Financial Aid for determination of the amount of the grant.

For selected applicants, additional documents must be submitted for review by the Office of Student Financial Aid before final eligibility can be determined.

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 Basic Grant based on estimated income. Further details can be supplied by high school guidance counselors or the Office of Student Financial Aid.

SUPPLEMENTAL EDUCATIONAL OPPORTUNITY GRANT (SEOG)

For undergraduates only who can demonstrate exceptional financial need, this grant program provides awards ranging from \$200 to \$1500 a year. SEOG awards must be matched dollar for dollar with funds from other eligible programs and can be no more than one-half of the annual financial need. Students may receive these awards for four years or five if they are enrolled in an approved five-year program.

Application is made through the College's Office of Student Financial Aid which is responsible for determining who receives these grants and the amount. Submission of parents' tax returns for the previous two years is required. This application also covers the College Work-Study Program and National Direct Student Loan.

COLLEGE WORK-STUDY PROGRAM

This job 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. Pay begins at the federal minimum wage and salaries are paid biweekly for actual hours worked up to a maximum of 15 hours a week. Students earn about \$700 a semester.

Application is made through the college Office of Student Financial Aid, using the same form as that required for the SEOG and the National Direct Student Loan.

SOCIAL SECURITY

Students who are children of deceased, disabled, or retired parents are eligible for payments from the Social Security Administration if they are enrolled as full-time undergraduates and if the parent has worked long enough to qualify for Social Security coverage. Students must be between the ages of 18 and 22. Monthly educational benefits will vary depending on level and length of parent's income and employment and the income of the student.

Application is made at any Social Security Office. Students currently receiving benefits will be notified by the Social Security Administration before turning 18 about what must be done to continue benefits for college study. If death, disability, or retirement of an eligible parent should occur after a student has enrolled, the Social Security Administration should be contacted for further information.

VETERANS ADMINISTRATION EDUCATIONAL BENEFITS

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 and at the college's Veterans Information Office, Cassety Hall 306, (716) 878-4810.

NATIONAL DIRECT STUDENT LOAN

Students may borrow from \$1000 to \$2500 a year depending on status and need under this federal loan program. No more than \$2500 may be borrowed for freshmen and sophomore years. A maximum of \$5000 may be borrowed for a bachelor's degree program; the cumulative amount for a master's degree is \$10,000.

Repayment begins nine months after graduation or withdrawal from school, and students have up to 10 years to pay back the loan. The schedule of payments will vary depending on the size of the loan, but the minimum amount is \$30 a month or \$90 a quarter plus three percent interest on the unpaid balance. Repayment of the entire loan may be cancelled for full-time teaching in a school designated by the HEW Office of Education as being low income or for teaching handicapped children.

(Continued p. 36)

Application is made through the Office of Student Financial Aid, using the same form as for the Supplemental Educational Opportunity Grant Program and the College Work-Study Program. First time loan recipients are required to have an interview with the office to discuss rights and responsibilities. Federal regulations also require a loan exit interview prior to a student's leaving the College. This interview, also conducted by the Office of Student Financial Aid, includes repayment obligations, deferral options, and cancellation possibilities.

LAW ENFORCEMENT EDUCATION PROGRAM

This program provides both grants and loans to allow in-service criminal justice personnel to continue their education and to encourage students to pursue college studies leading to careers in criminal justice.

Law Enforcement Education Program Grants (LEEPG) not exceeding the cost of tuition and fees are awarded to qualified full-time criminal justice employees for both part- and full-time study.

Law Enforcement Education Program Loans (LEEPL) not exceeding the cost of tuition and fees are awarded to qualified full-time criminal justice employees and also to students enrolled in a Criminal Justice degree program. Applicants must be enrolled full-time to be eligible.

To apply, contact the Office of Student Financial Aid. A Financial Aid Form is not required.

AID TO NATIVE AMERICANS

The United States Bureau of Indian Affairs offers grants for college study to needy applicants who are at least one-fourth American Indian, Eskimo, or Aleut; enrolled members of a tribe, band, or group recognized by the Bureau, and enrolled in or accepted at an approved four-year institution. 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 Office of Student Financial Aid. First-time applicants also must submit tribal enrollment certification from the bureau agency or tribe which records enrollment for the tribe.

Applications are available from:
United States Department of Interior
Bureau of Indian Affairs, New York Liaison Office
Federal Building, Room 523
100 South Clinton St.
Syracuse, N.Y. 13202

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 taxable income and tuition and fees charged. Undergraduates may receive \$200 to \$925 a year for four years unless enrolled in an approved five-year program. Graduate students are eligible to receive \$100 to \$600 a year for up to an additional four years.

A recipient must be a U.S. citizen or permanent resident alien and a New York State resident. If the student is dependent, the family net taxable income from the preceding tax year must be below \$20,000; if independent and single with no tax dependents, net taxable income must be below \$5667. To be considered independent, a student must meet specific TAP requirements regarding age, residency, and financial status.

These requirements plus application forms can be obtained from the Office of Student Financial Aid or from the New York State Higher Education Services Corporation, Tower Building, Empire State Plaza, 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 1979-1980 is March 31, 1980; for 1980-1981, March 31, 1981.

EDUCATIONAL OPPORTUNITY PROGRAM/SEEK

A grant program for undergraduates only who are determined to be economically and academically disadvantaged, this program requires New York State residence. Students must be accepted or enrolled at least half-time in the Buffalo State EOP/SEEK 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 SEEK Admissions Office, Cleveland Hall 207. Returning students may pick up financial aid applications in the Office of Student Financial Aid, Cleveland Hall 309.

REGENTS COLLEGE SCHOLARSHIP

This tuition scholarship for full-time students residing in New York State is based on results of the Scholastic Achievement 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.

High school students should contact their high school guidance office for application procedures. To receive payment, a Student Payment Application must be filed each year with the New York State Higher Education Services Corporation. Students may receive both a Regents College Scholarship and a TAP award (see section on TAP) if eligible for both. Payment applications are available in May at the Office of Student Financial Aid or by writing the New York State Higher Education Services Corporation, Tower Building, Empire State Plaza, Albany, N.Y. 12255.

REGENTS AWARD FOR CHILDREN OF DECEASED OR DISABLED VETERANS

Awards of \$450 a year for up to five years (depending on the normal length of the program) are available to full-time students enrolled in degree programs in a college or hospital nursing school in the state.

Applicant must be a child of a veteran who died, or who has a current disability of 50 percent or more, or who had such disability at the time of death, resulting from U.S. military service during these four periods: April 16, 1917 to Nov. 11, 1918; Dec. 7, 1941 to Dec. 31, 1946; June 25, 1950 to July 27, 1953; and Oct. 1, 1961 to March 29, 1973.

Applicants must be legal residents of this state. In addition, legal residence on the part of the parent is required at the time of entry into military service or, if the parent died as a result of military service, at the time of death.

A special application, available at the high school, must be filed with the New York State Higher Education Services Corporation, Tower Building, Empire State Plaza, Albany, N.Y. 12255. Documentary evidence to establish eligibility is required with the application.

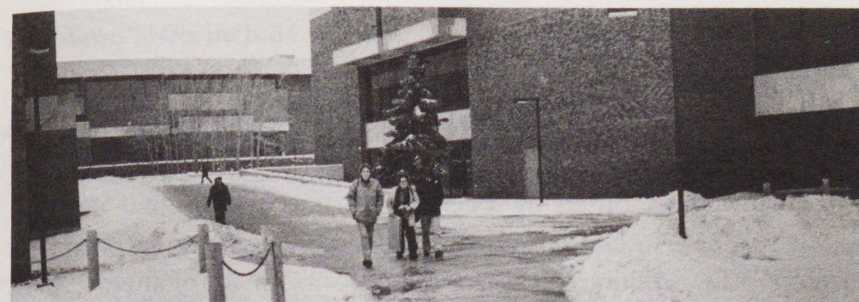
GUARANTEED STUDENT LOAN PROGRAM

The New York State Higher Education Services Corporation (NYSHESC) sponsors a loan program for students who are enrolled at least half-time at an approved college and who are U.S. citizens or permanent residents in addition to residing in the state. 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 and other aid, undergraduates may borrow up to \$2500 a year for a total of no more than \$7500. Graduate students may borrow no more than \$5000 a year for a total of \$15,000 including any loans for undergraduate study.

Repayment begins nine months after enrollment has ended, and students generally have from five to 10 years to repay. The minimum monthly payment, barring unusual circumstances, is \$30. 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 one-half percent of the loan is payable to the lender at the time the check is issued.

Loan applications are available at the lending institution. The completed application is first submitted to the Office of Student Financial Aid for its recommendation and then sent to the lending institution. The lender forwards it to the Higher Education Services Corporation for final decision. NYSHESC notifies the student and lender of the loan decision.

After approval is given, the student contacts the lender to arrange for signing a promissory note. A counseling session is usually required at some point in the proceedings. Funds may not be disbursed earlier than August 1 for a school year beginning in the fall. The check, made payable



to both the student and the college, must be presented to the Office of the Bursar, Cleveland Hall 304, to complete the transaction.

A full listing of student responsibilities regarding this program can be obtained in the Office of Student Financial Aid or from the lender.

Out-of-state students should check with their local lending institution to see whether their home state has a similar program.

STATE AID TO NATIVE AMERICANS

This is an entitlement program with neither a qualifying examination nor a limited number of awards. Students receive \$1100 a year for a maximum of four years of full-time study. 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 may be obtained from the Native American Education Unit, New York State Education Department, Albany, N.Y. 12234. Completed applications must have these attachments: official transcript of high school record or photostat of equivalency diploma; letters of recommendation from one or more leaders in the community; personal letter detailing educational plans and desires; signatures of parents of minor applicants, and official tribal certification form.

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

OFFICE OF VOCATIONAL REHABILITATION

Handicapped students pursuing higher education may be eligible for assistance through the State Office of Vocational Rehabilitation. Criteria and funding vary. Applications and eligibility requirements may be obtained at local Vocational Rehabilitation offices.

College Aid Programs

SCHOLARSHIPS

A limited number of scholarships ranging in value from \$100 to \$300 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 Office of Student Financial Aid. 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 Office of Student Financial Aid.

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

College Club of Buffalo; Daniel Upton Tri Sigma—for junior female in education;

Methodist Mothers Club; Neumann-Clement—for sociology students;

State University College at Buffalo Association of Women;

Women Teachers Association of Buffalo—for upperclass females in education.

The following scholarships 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 and in the Office of Student Financial Aid.

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 in Moot Hall.

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

Exceptional Education—grants from various fraternal organizations are available to majors in all areas of exceptional education. Contact director of Exceptional Children Education, Ketchum Hall 201.

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

Home Economics, Nutrition and Food Science—Eight special scholarships are available to students majoring in these areas. A single application form can be obtained in Caudell Hall 207. It must be filed by April 7.

SHORT-TERM LOANS

Buffalo State College offers a limited number of short-term loan programs for students. The amounts and manner of selection vary. Students must apply for a specific loan. Application forms, unless otherwise stated, are available in the Office of Student Financial Aid.

Short-term loans include:

Alumni Association Loan Fund—for undergraduates in good standing. Loans must be repaid within six months with interest.

American Association of University Women, Chamberlin Loan Fund—for worthy women.

Andrew W. Grabau Memorial Student Loan Fund—for undergraduate students.

New York State Home Economics Association Loan Fund—for home economics students. Applications are available in the Department of Consumer Studies and Home Economics, Caudell Hall 206.

Richard J. Pictor Jr. Memorial Loan Fund—for all students.

Joel Schenkein Memorial Loan Fund—for undergraduates.

Vocational Technical Education Program Alumni Loan Fund—for vocational technical students. Applications available in the Industrial Arts and Vocational Education Department, Upton Hall 314.

EMERGENCY SHORT-TERM LOANS

Students may borrow up to \$35 on short notice through a revolving loan fund in the Office of Student Financial Aid. These loans are interest free and must be repaid within one month. Students who are delinquent for more than 30 days in repayment will have a "hold" placed on their records until the debt is paid. This prevents further registration, issuance of a transcript, or graduation. Students who fail to repay on time will not receive further financial assistance from this source.

PART-TIME EMPLOYMENT

Part-time employment both on and off-campus is one way students may meet some of their college expenses. It is recommended, however, that students work no more than 15 hours a week and count on such employment only as a small supplement to other resources.

Besides the federally-funded College Work-Study Program mentioned earlier, there are a limited number of part-time positions on campus with the Faculty-Student Association, Food Services, College Store, and recreational facilities of the Student Union. The Office of Residence Life also offers positions as resident advisers, desk receptionists, and resident security aides. Further information can be obtained by contacting the director of each area.

The Office of Student Financial Aid and the College Placement Office both maintain a part-time job file for those seeking employment off campus. As openings occur, job cards are posted. A summer employment file of openings at campuses and resorts, in government, in business and in industry also is maintained.

Further inquiries about employment should be made at the Office of Student Financial Aid.



Students:

4

Special Opportunities,
Services & Activities

Special Study Options/44

Health Professional Advisement/47

Pre-law Advisement/48

Career Counseling &
Placement Services/48

SEEK Program/50

Orientation/50

Commuter Services/51

Residence Life/52

Counseling/54

Office of Student Life/55

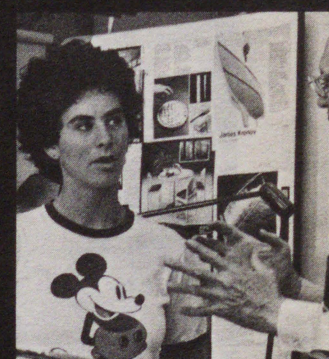
International Student Affairs/55

Student Health Center/55

Student Activities/56

Student Government/58

Athletics/58



Special Study Options

Individualized Study

The College offers students the chance to develop a program of study that will meet their specific personal education objectives through its **Individualized Study Program**. This program is a flexible one, allowing for maximum creativity and independent scholarship. Admission is initiated through the appropriate academic department. To be eligible, students must have completed at least 15 credit hours (one semester) and show evidence of the ability to study independently. Interested students should contact the appropriate department chairperson.



Study Abroad

Opportunities for overseas study abound at Buffalo State College. The **Office of International Education**, Bacon Hall 306, (716) 878-4721, administers the College's programs in Italy, Great Britain, Spain, and Australia. It also gives special assistance to students applying to the many study abroad programs administered by other units of the State University of New York as well as by other colleges and universities across the country.

On file is information about opportunities for studying in virtually every country of the world. Interested students should plan ahead since many quotas are filled early, and arrangements can sometimes take several months.

Every attempt is made to keep study-abroad costs equivalent to those of a student residing on a State University campus. However, additional costs for air fare and travel documents and disparity in monetary values can be expected.

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 their sophomore or junior year at one or two of nearly 50 colleges and universities in more than 30 states. To be eligible, a student must have a 2.50 average.

The program, organized through the National Student Exchange Consortium, has two different tuition payment plans. Room and board charges, travel, and other personal expenses are the responsibility of the student. For further details, check with the **Office of Special Programs**, Cleveland Hall 508, (716) 878-4328.

Visiting Student Program

Buffalo State College participates in a state-wide Visiting Student Program which allows students to attend, on a short-term basis, other participating colleges or universities in New York State. Interested students should consult with their adviser or dean about which institution may best meet their educational goals. Application forms are available in the Office of Admissions. Deadlines are March 1 for the fall semester and Nov. 1 for the spring semester. There is no visiting student status for summer sessions.

Creative Studies

The **Interdisciplinary Center for Creative Studies** has an exciting mission; it conducts research into the nature of creative behavior and then translates its findings into educational programs which sweep across many academic disciplines. The purpose is to help students interrelate the elements of the diverse knowledge they are acquiring so they may discover greater meaning and potential use for them.

In Creative Studies courses, students gain practice and leadership experience in applying a variety of creative problem-solving methods. They work with a range of practice problems which are typical of those they may encounter in their academic studies, in their college environment, and in the community at large.

The **Creative Studies Library**, housed in Butler Library, encompasses a comprehensive assortment of curriculum materials, including book collections, microfilms of dissertations, articles, abstracts, clippings, and program tapes.

The College offers a master of science degree in Creative Studies at the graduate level. The center is located in Chase Hall 218.

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 (Continued p. 46)

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 a minimum registration, and students may pre-register, manually register, or register on Add Day. Credit-bearing courses are PHI 120, 121, 202, 220, 221, 330 and 331 in the Philosophy and Religious Studies Department and HEB 101-302 and HLI 101, 141, 201, 202, 242, and 341 in the Foreign Language Department. Further information can be obtained by consulting the course descriptions of the respective departments or by calling the Institute at (716) 689-8844.

Cooperative Education

Cooperative Experiential Education is a college-wide 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, profit-making organizations and not-for-profit organizations. Further information can be obtained in Bacon Hall 308, (716) 878-6121.

Continuing Education

The Office of Continuing Education extends higher education opportunities to residents of the Niagara Frontier through a variety of programs. Each semester more than 100 credit-free courses are offered in such fields as arts and crafts, education, growth and development, language, music and dance, personal enrichment, photography, physical conditioning, professional and job skill development, women's studies, and outdoor recreation.

A number of community-based programs are offered in the areas of economic development, community and urban planning, youth education and career development, and service to local school systems. In addition, seminars and workshops for professional and business development are presented each semester in nine major cities in the Northeast and South.

Brochures containing complete course offerings and registration information may be picked up in the Office of Continuing Education, Cleveland Hall 507, in late August for the fall semester or January for the spring semester. To receive a copy by mail, call (716) 878-5906.

(See Admissions Section for information regarding credit-bearing courses offered through the Office of Continuing Education.)

Health Professions Advisement

The College offers all the necessary and appropriate courses for application to professional health-oriented schools. It also has a vigorous advisement system for students interested in such professions as medicine, dentistry, optometry, osteopathic medicine, podiatry, veterinary medicine, and allied health professions. In addition, guidance is offered in preparing students for national aptitude exams and for choosing and assembling applications to health professions schools.

There is no specific degree required by the health profession schools. Students may major in any degree program that is of interest. Highly recommended are these courses:

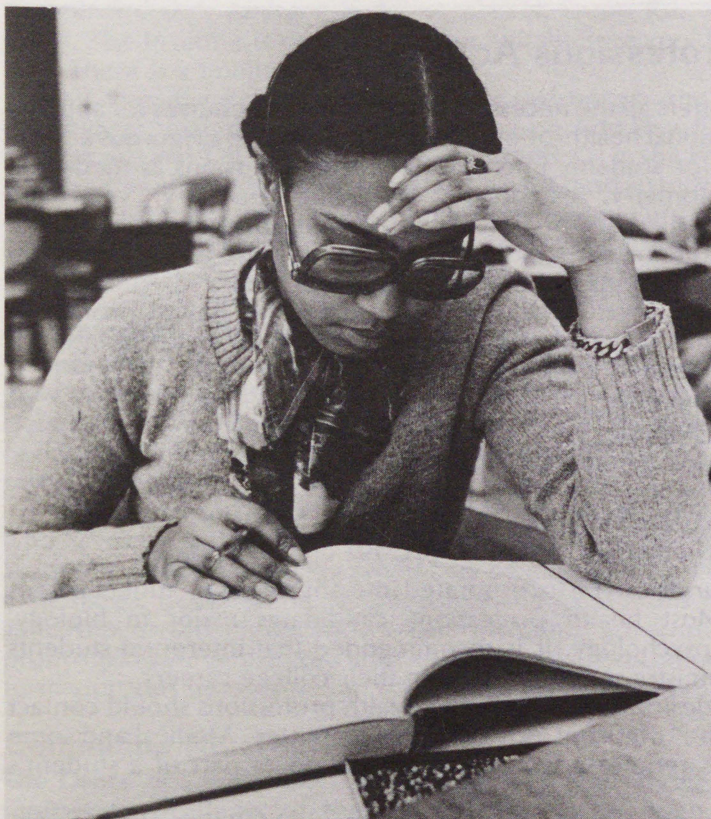
1. General Chemistry, CHE 111-112, 8 credits
2. Organic Chemistry, CHE 201-202, 8 credits
3. General Biology, BIO 114, 115, 116, 8 credits
4. General Physics, PHY 111-112, 6-8 credits
5. Math-Calculus, MAT 126, 127, 3-6 credits
6. Two English courses, ENG 100, 101, 102 or 103, 6 credits

These courses can be incorporated into any degree a student wishes to pursue. Most health professions candidates major in biology, chemistry or psychology. It is recommended that interested students begin the chemistry sequence early in their college careers.

Students desiring a career in the health professions should contact the Pre-Health Professions Advisement Committee. Medical and some dental schools require a committee evaluation as part of a student's application.

For further information contact: Dr. Ronald M. Reuss, chairperson, Biology Department, New Science 363, (716) 878-5418, or Pamela C. Caron, committee secretary, Biology Department, New Science 314, 878-5203/5204.





Pre-Law Advisement

To assist students who eventually plan to attend law school, the college provides a pre-law advisement service. Faculty members familiar with the legal profession are available for consultation on such matters as recommended undergraduate courses, LSAT's, law school admission practices, and related areas. It is strongly recommended that students interested in law take advantage of this service. Appointments can be made in the Department of Community/Social Services and Criminal Justice, Classroom Building 114, (716) 878-4517.

Career Counseling and Placement Services

What happens to students after graduation? That's an important concern of the **Office of Career Counseling and Placement Services** which is dedicated to helping undergraduate and graduate students in their

search for satisfying and meaningful life styles. This office, located in Cleveland Hall 306-7, is the place where students can find professional staff and a wide range of resources to aid them in career-planning and in exploring their own interests and abilities.

Counselors are available for discussions about the world of work as it relates to personal goals and college preparation.

A **Career Information Center** contains assorted material on hundreds of occupations as well as graduate study. There are self-helps on career-planning, recruiter literature, and pamphlets on job application techniques.

The office sponsors Career Days when many persons representing numerous careers are invited to campus to meet with students. Also, a number of Buffalo State graduates have agreed to discuss their careers with students who make appointments with them. Their names are listed in an Alumni Career Counselor Directory, available in this office.

A credentials service helps students assemble a folder of personal data and references which may be used when applying for a job or continued study. All policy with regard to credentials is in compliance with the Family Educational Rights and Privacy Law of 1974. The forms necessary for filing credentials and information concerning placement services for seniors and graduates are available in May to all juniors expecting to graduate the following year.

Note: It is advisable for all prospective graduates to assemble credentials while they are on campus. To request references after graduation is less convenient and may be costly in time and opportunities missed for lack of credential backup.

Three times a month the Office of Career Counseling and Placement Services publishes listings of all job vacancies covering a wide range of fields in locations from coast to coast. The lists may be picked up in this office or they will be mailed to those supplying self-addressed stamped envelopes.

Recruitment officers from companies throughout the country come to campus in the fall and spring to interview students. They represent business, government, industry, the military, schools, and social agencies. To prepare students to best present themselves as potential employees, the placement staff conducts career seminars regularly and at the request of individual academic departments, student organizations, and other interest groups.

The office also issues a monthly bulletin, the "Placement Newsletter," another good source of current career information. The newsletter is posted on the Placement Bulletin Board next to the Information Desk in the Student Union and on other bulletin boards around campus. Copies may be obtained in the Office of Career Counseling and Placement Services.

SEEK Program

Every student admitted to the Educational Opportunity Program SEEK receives, as needed, special kinds of help designed to make his college experience successful. For the length of his enrollment each student is assigned a counselor, who not only helps the student learn more about himself so that he may function well in an academic environment, but also serves the student as a line of communication between the SEEK administration and the college administration. Counselors are skilled at giving academic and financial aid advisement, personal and social counseling, career guidance, and vocational advice.

To assist students in overcoming specific academic deficiencies, 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.

Any SEEK student who has problems with his courses may take advantage of a Tutor Lab where qualified tutors work on a one-to-one basis or with small groups, depending on student needs.

In addition, an assortment of social, cultural, and educational activities are planned to add further dimensions to the college program. An annual honors convocation recognizes those who have excelled in their academic work.

The **SEEK Counseling Office** is in Cassety Hall 220, (716) 878-4426. The Tutor Lab is in Cassety Hall 318, 878-4224. The **SEEK Admissions Office** is in Cleveland Hall 206, 878-5514. Further information on admissions can be found in the Admissions section of this catalog.

Orientation

Freshmen and transfer students are introduced to all aspects of campus life during orientation sessions conducted in the summer and early September for those beginning in the fall and in January for mid-year students.

The Office of Student Programs and Orientation is responsible for planning and running an assortment of activities designed to meet the needs and special interests of new students. Programs include individual academic advisement, course scheduling assistance, pre-registration, multi-media information sessions on academic and student-related services, small group meetings, "academic survival" workshops, competency testing, and campus tours.

During this period, there also are 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.

A parent workshop held during orientation introduces parents to administrators and staff who can provide information on such topics as public safety, student health, help resources, residence facilities, and academic services.

A "profile" of each new student population is developed during orientation through a direct sampling of the attitudes, beliefs, concerns, goals, and demographic characteristics of the incoming students.

The Office of Student Programs and Orientation is located in Cleveland Hall 409, (716) 878-4327.

Commuter Services

Whether the problem has to do with off-campus housing, transportation, dealing with campus bureaucracy, or knowing how to take advantage of the many opportunities college provides, commuting students can receive the help they need through the Office of Commuter Services, located in the Student Union 331, (716) 878-5533.

Commuters make up about 72 percent of the entire student body at Buffalo State. The Office of Commuter Services strives to provide for the day-to-day needs of these students in addition to solving long range problems.

Some specific services include:

- Providing typewriters and ditto machines for student use between 8:30 a.m. and midnight seven days a week. They are available free of charge and can be found at the rear of Fireside Lounge in the Student Union;
- Maintaining a part-time job list;
- Distributing applications for food stamps, income tax forms, and other public service information;
- Academic counseling and personal counseling;
- Running the Buffalo State Ticket Office in the Student Union.

Transportation, off-campus housing, and increasing student communications are three especially important concerns of this office.

Since many students use public transportation to get to and from campus, Commuter Services is constantly working to encourage better service from N.F.T. Metro Bus. Representatives from the bus company come to campus each semester to discuss problems that are being encountered. Copies of the bus schedule are available at the Student Union Information Desk, and bus tokens are sold at a reduced rate through the Ticket Office. Bus route maps are available at Fireside Lounge.

A Rides Incorporated program has been developed to help students find carpools to school and rides to other destinations on weekends and vacations. The office, in cooperation with the Ticket Office, arranges

(Continued p. 52)

charter flights and bus trips to the New York City area during holiday seasons. More detailed information is available in the Ticket Office, (716) 878-5531.

Commuting students are strongly advised to join the computerized carpool system because of the limited number of parking spaces on campus. Students who drive must obtain parking permits from the Department of Public Safety in Chase Hall. Students parking illegally will receive City of Buffalo parking tickets. It is the student's responsibility to read and understand the parking policies of the college. Further carpool information is available in the Student Union 311A.

As a service to students desiring to live off campus in nearby apartments, Commuter Services takes listings from neighborhood landlords and assists students unfamiliar with the area in finding appropriate residences. Students are given sample leases, rental agreements, copies of landlord-tenant regulation forms concerning damage deposits, and landlord evaluation forms. The office attempts to monitor off-campus housing so that standards of quality can be maintained.

To facilitate communication among commuters, Commuter Services publishes a newsletter, *Off the Record*, four times a year.

The Commuter Council represents the 8000 commuters on campus and sponsors a variety of social activities throughout the year. These include; free beverages daily in the Fireside Lounge, mid-day coffeehouses, spaghetti dinners, wine and cheese parties, theater ticket discounts, and Commuter Daze, 12 hours of festivities at the close of each semester. Students interested in working on the council or writing for the newsletter should sign up in the Commuter Services Office.

Residence Life (Housing)

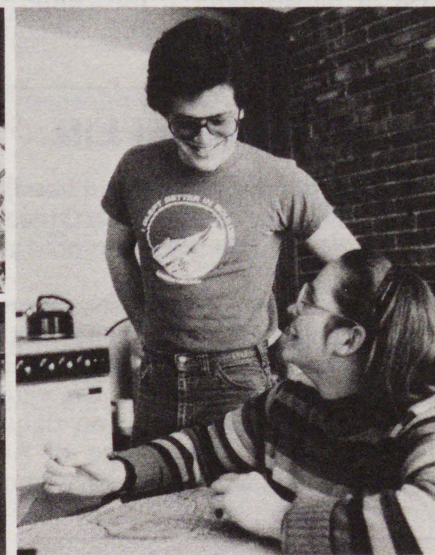
Students who choose to live on campus will find their residence hall is more than just a place to sleep and store their clothes. The residence hall program seeks to educate the whole person by creating an environment which fosters learning, personal development, and physical comfort.

Living accommodations in each of the 10 dormitories on campus may vary to meet the different life styles and needs of students, but all residence halls offer social, cultural, and athletic activities throughout the year. Student participation in these activities and in the governmental affairs of each residence hall are encouraged as a means of rounding out the educational experience.

Each hall is staffed with both graduate and undergraduate students who are directly responsible to the Director of Residence Life. They are always ready to help students initiate educational, social, and recreational programs, to promote student health and safety, and to advise and assist wherever they can.

Residence halls have assigned areas reserved for females only and for males only, non-smoking areas, and quiet floors where the emphasis is on academic pursuits. Independence Hall houses upperclass students only. The Creative Living Center strives to encourage personal creativity and the expression of creative decisions. International House is a residence for both American and international students.

Residence halls range from three-story to 10-story buildings and are organized in either corridor or suite fashion. All are coeducational with
(Continued p. 54)



24-hour visitation. Most rooms have double occupancy, and attempts are made to honor roommate preferences. A student not expressing a preference will be assigned a roommate based on all available information. Single rooms are available on a limited basis for continuing resident students only and are assigned on a first-come, first-served basis.

All students are provided with a bed, desk and chair, closet space, chest of drawers, and a wall mirror. Students will need to provide their own desk lamps, irons, pillows, blankets, bedspreads, and draperies. Linen service is available through the Faculty Student Association. Each residence hall is equipped with lounges, recreational facilities, and laundry rooms.

Additional information may be obtained from the Office of Residence Life, Twin Rise, or by calling (716) 878-6806.

Counseling

The **College Counseling Center** in Cassety Hall 222, serves students, faculty and staff members in a variety of ways. A professional staff of six is specially trained to deal with academic, personal, social, and vocational problems. The staff offers couples-counseling and guidance in drug and/or alcohol abuse, study problems, test anxiety, self-awareness and interpersonal relationships. Vocational interest testing, inventories, and relaxation and assertiveness training are also available.

The Center is open weekdays from 9 a.m. to 5 p.m. and Mondays until 7:30 p.m. Staff members are on call on a 24-hour basis for crisis and emergency situations. Appointments can be made by calling (716) 878-4436 or by stopping at the center. The center will make off-campus referrals where appropriate. All counseling is kept strictly confidential.

Office of Student Life

A helping hand to students in need of assistance in handling just about any problem on campus, the Office of Student Life seeks to develop a positive environment and promote all aspects of student welfare on campus.

The office, located on the second floor of Twin Rise, (716) 878-4725, serves as an informational center with copies of all the rules, regulations, and procedures of the College being available there. The office also serves as ombudsman for those with a problem requiring special help.

Complete information on rights, freedoms, and responsibilities is also available in the Office of Admissions and Records, Office of Residence Life, and Office of Commuter Services.

International Student Affairs

A variety of assistance is available to international students through the **Office of International Student Advisement**, Twin Rise 209, which provides academic advisement and personal counseling in addition to aid regarding visas, work permits, and relevant regulations of the Immigration and Naturalization Service.

This office also coordinates the **American Host Family Program**, which pairs international students with American families, and the **Campus Friend Program**, which pairs incoming international students with more experienced students. A bimonthly newsletter is published, and various cultural events are planned throughout the year, giving an international flavor to campus life.

All incoming international students receive special orientation and take English competency tests for placement. (More information can be found in the Admissions section.)

Student Health Center

The **Weigel Health Center** is a comprehensive facility supplying medical and dental care to all registered students including commuters. The center is open from 8 a.m. to 6 p.m., Monday through Friday. No appointment is necessary, and there is no charge for most services.

In addition to care for illnesses and injuries, students may receive allergy injections prescribed by their private physicians, and immunizations. Students are encouraged to discuss personal problems with the professional staff of physicians and nurses. Complete confidentiality is assured.

As an additional safeguard to the health of its students, the College maintains a close relationship with area hospitals and selected medical specialists in the community.

A **Student Health Insurance Plan**, designed specifically to meet the needs of college students, is available. It offers many benefits not included in other policies, and full-time undergraduates are strongly urged to subscribe to it.

The Weigel Health Center also provides these special facilities:

1. **Gynecology Clinic.** Located on the second floor, this clinic offers complete gynecological services for students including pelvic exam, breast exam, birth control information and methods, VD-testing and treatment, pregnancy-testing and referrals. The telephone is (716) 878-6715.
2. **Dental Clinic.** All activity fee-paying students are entitled to dental

(Continued p. 56)

care which includes cleaning, preventive instructions, X-ray diagnosis, and emergency treatment. An ID card must be presented for service.

3. **Lab Facilities.** A private lab provides this service at the health center by appointment. All bills for this service are mailed directly to the student. If the student has Student Health Insurance, bills are submitted to the insurance company for reimbursement.
4. **Ambulance Service.** The United Students' Government Ambulance Corps, staffed by trained student volunteers, provides 24-hour emergency medical assistance and transportation. The office is on the second floor of the center. The telephone is (716) 878-5330. In case of emergency, call Public Safety, 878-6333, to request ambulance service.

Student Activities

With more than 80 organizations and clubs on campus, there is truly "something for everyone" at Buffalo State.

Campus activities reflect a wide variety of student interests and needs. Some provide for cultural development, social relationships, leadership training, civic responsibilities, and spiritual enrichment. Others help students develop hobbies, exercise special abilities, and grow professionally.

All activities are supported by a mandatory student fee.

The **Activities Coordination Board (ACB)** coordinates most of the



larger, campus-wide events such as Homecoming, Winter Weekend, and Spring Weekend. **Student Union Board** sponsors concerts, films, speakers, coffeehouses, and related activities.

With the lifting of a ban previously imposed, many **fraternities and sororities** have re-established themselves, and others are in the process of colonizing.

Camp Board and Wilderness Adventures run programs for those who enjoy the out-of-doors. Camp Board runs the student-owned camp, Whispering Pines, a 600-acre site with two lodges located near Franklinville in Cattaraugus County. Wilderness Adventures sponsors hikes, camping trips, and seminars on outdoor topics and offers low-cost rental of camping equipment.

The Student Union is affiliated with the Association of College Unions International. Tournaments are held annually in billiards, bowling, table tennis, chess, foosball, and bridge. Local winners may go on to regional, national and international competition.

An extensive **Free University Program** of non-credit courses in such areas as basic auto mechanics, sign language for the deaf, and color photography has been developed by the Office of Student Activities.

Many organizations are service oriented. The **Ambulance Corps** gives emergency medical assistance and is staffed by trained and certified student volunteers. Students help run the **Dental, Legal Aid, and Gynecological Clinics** and also volunteer at the **Day Care Center** on campus.

Casting Hall presents opportunities for involvement in all phases of the theater. **The Visual Arts Board**, which operates Gallery 229, sponsors special lecturers and student exhibitions. Those interested in the media can express themselves through the *Record*, the student newspaper; **WSCB**, student radio station; the *Elms* yearbook, and various literary magazines.

One of the advantages of attending Buffalo State is the opportunity to associate with students from many backgrounds. Such organizations as the **International Affairs Committee, Minority Resource Center, Black Liberation Front and Adelantes Estudiantes Latinos** sponsor many varied programs, not only to meet their own needs, but also to familiarize the campus with their unique cultures.

Religious-oriented groups include **Hillel, Wesley Foundation, Newman Center, Campus Crusade for Christ, and Inter-Varsity Christian Fellowship.**

There are a variety of academic honor societies, and most departments sponsor student academic clubs to encourage interest in specific areas of study.

Further information can be obtained from individual organizations or from the Office of Student Activities, Student Union 400, (716) 878-4631.

Student Government

The 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 with funds from the mandatory activity fee.

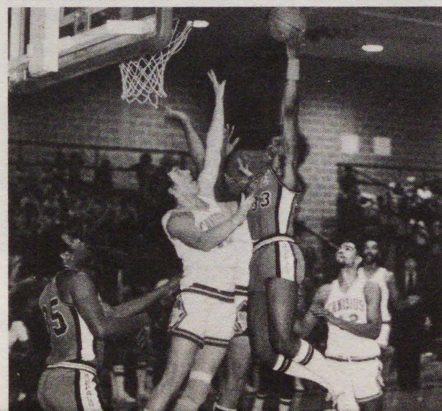
The Senate, the legislative branch, consists of four chief officers and 25 senators elected in campus-wide balloting. This body develops and coordinates activities, passes legislation for the general welfare of the student body, and makes determinations as to which student groups are granted recognition and funding. A budget committee makes recommendations to the Senate regarding distribution and control of student activity fee monies. The Senate, in turn, makes final recommendations to the president of the College.

The **Judicial Council** determines the constitutionality of questions brought before it by individuals and organizations.

All students are automatically members of USG. All are eligible to run for office, provided they have a 2.00 grade point average. Elections are held late in the spring semester.

Athletics — Intercollegiate

The intercollegiate athletic program is diverse and spirited. The College fields men's teams in baseball, basketball, cross country, golf, lacrosse, soccer, swimming, tennis, and indoor and outdoor track. Women com-



pete in basketball, bowling, field hockey, softball, swimming, tennis, and volleyball.

Buffalo State is a member of the State University of New York Athletic Conference (SUNYAC) and, locally, of the always exciting Big Four Conference with Niagara University, Canisius College, and the State University of Buffalo.

National and regional affiliations include: Eastern College Athletic Conference, National Collegiate Athletic Association, Association of Intercollegiate Athletics for Women (AIAW), the Eastern AIAW, and New York State AIAW.

College teams have competed successfully in many post-season tournaments, and many athletes have achieved All-American recognition. Freshmen are eligible to compete in all sports on the varsity level.

The intercollegiate program is administered by the Department of Intercollegiate Athletics, New Gymnasium 103, (716) 878-6533.



Athletics — Recreation and Intramurals

Enjoyable competition in a relaxed social atmosphere—that's what the College's intramurals and recreational sports clubs are all about. Bowling, basketball, floor hockey, touch football, racquetball, softball, turkey trot, volleyball, and tennis are all available on the intramural level. Students may participate in the women's, men's, or coed divisions.

The College also sponsors recreational sports clubs for badminton, judo, karate, wrestling, men's rugby, and women's rugby.

For those interested in fitness without competition, the College makes available the gymnasium, pool, weight room, and racquetball courts in the evenings and on weekends.

These programs are administered by the Department of Health, Physical Education, and Recreation. More information can be obtained in New Gymnasium 300, or by calling (716) 878-6500.



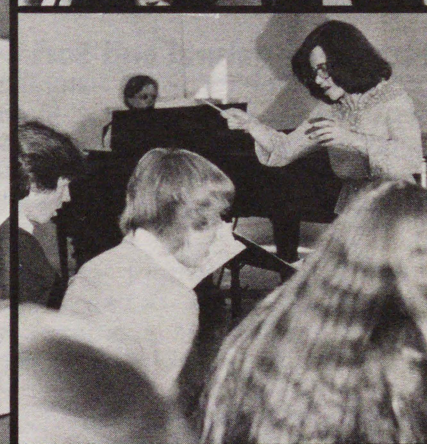
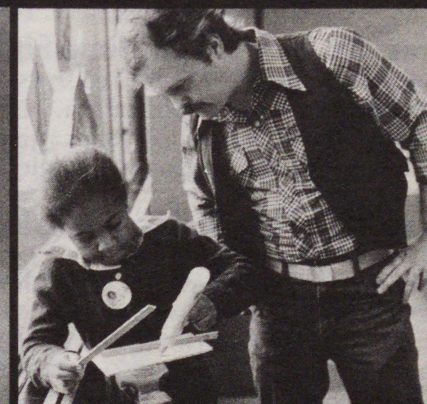
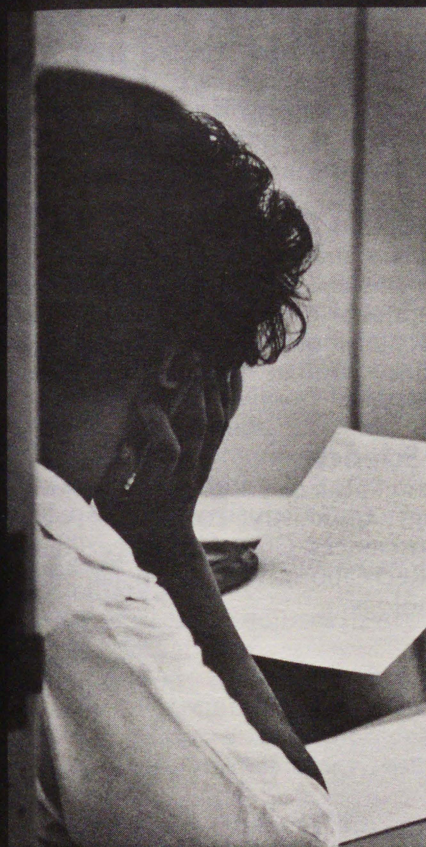
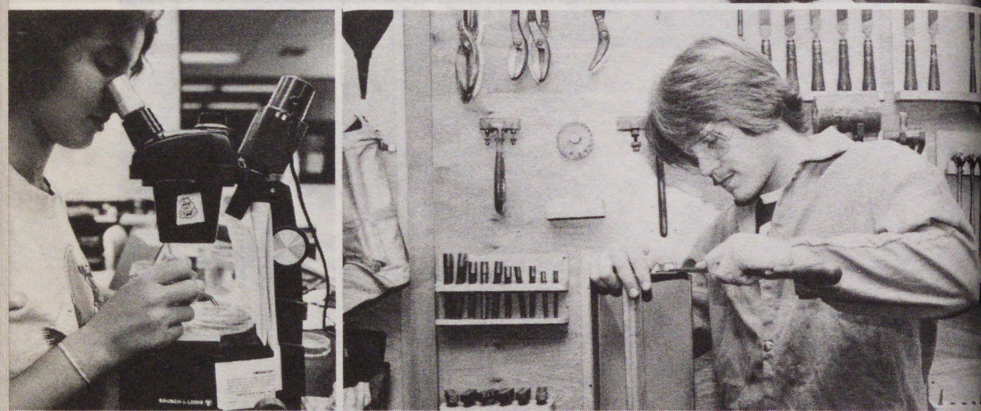
Curriculum: 5

Areas of Study

Academic Organization/62

General Requirements
for Degrees/63

Program Descriptions/70



Academic Organization

The College is organized into three faculties: Arts and Humanities, Applied and Professional Studies and Natural and Social Sciences. Each faculty contains specific departments which are responsible for the degree programs offered here.

All of the major areas of study or inter-disciplinary programs described below fall under the responsibility of one (or more) of the 26 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 Arts and Humanities

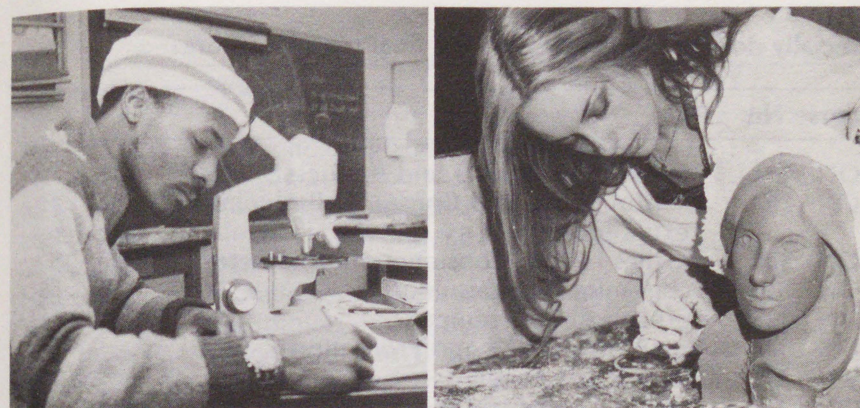
Included in the Faculty of Arts and Humanities are the following departments: Art Education, Design, English, Fine Arts, Foreign Language, Journalism/Broadcasting/Speech Communication, Performing Arts and Philosophy/Religious Studies.

Faculty of Applied and Professional Studies

The Faculty of Applied and Professional Studies includes these departments: Behavioral and Humanistic Studies; Business Studies; Curriculum and Supervision; Exceptional Children Education; Consumer Studies and Home Economics; Nutrition and Food Science; Community/Social Services and Criminal Justice; Industrial Arts and Vocational Education; and Technology.

Faculty of Natural and Social Sciences

Included in the Faculty of Natural and Social Sciences are the following departments: Anthropology; Biology; Chemistry; Economics/Political Science; Geography/Sociology; Geosciences/General Science/Physics; Health, Physical Education and Recreation; History/Social Studies Education; Mathematics; and Psychology.



General Requirements for Bachelor of Arts and Bachelor of Science Degrees

General-Liberal Requirement

All candidates for bachelor of arts and bachelor of science degrees must take 60 hours of general-liberal courses. This requirement is designed to give students a broad education and provide them with experiences in areas not necessarily related to their major.

This 60-hour breadth requirement is broken down as follows:

1. Thirty-six hours or nine each in the areas of the Arts, Humanities, Social Sciences and Mathematics/Science. Courses must be taken in at least two fields within each of these categories.
2. An additional 15 hours from the above four areas must be selected under advisement.
3. The last nine hours may be taken from the above four areas, again under advisement, or from a list of specially approved courses which fulfills this particular category.

Courses in these academic departments may be used to fulfill the 60-hour requirement:

1. The Arts: Some courses in Art Education, Design, Fine Arts, Performing Arts.
2. Humanities: English, Foreign Language, Journalism, Broadcasting, Speech Communication, Philosophy, and Religious Studies.
3. Social Sciences: Anthropology, Economics and Political Science, Geography and Sociology, History and Social Studies Education, Psychology.
4. Mathematics/Science: Biology, Chemistry, Geosciences, General Sciences, Physics, Mathematics.

(Continued p. 64)

5 / Curriculum

Specially designated courses for the final nine hours are:

Course No.	Title
CON 101	Trends in Consumer and Business Studies
CON 217	Environmental and Consumer Problems in the Textile Industry
CON 306	Textiles for the Consumer and Marketer
CON 310	Economics for Consumers
CON 325	Personnel Management
CON 327	Retail Advertising and Promotion
CON 331	Housing the Family
CON 335	The Consumer and the Law
EXE 300	Nature and Needs of Exceptional Children
EXE 304	Science of Speech and Hearing
EXE 314	Psychology of Exceptional Children
EXE 420	Speech Problems of Children
HDF 105	Interpersonal Relations
HDF 109	Human Development and Family Relations—Conception through Pre-Adolescence
HDF 212	The Family in Society and Culture
HDF 301	Preparation for Marriage and Family
HDF 308	Human Development and Family Relations—The Adolescent Years through Young Adulthood
HDF 309	The Adult in Contemporary Society
HDF 319	Social Dynamics of Poverty
HDF 409	Essentials of Sex Education Programs
HDF 419	Social Welfare
HSC 204	Personal and Community Health
HSC 320	Alcohol, Narcotics and Hallucinogens
HSC 425	Alcohol Problems
IAE 123	Principles of Manufacturing
IAE 320	Marine Technology
IAE 325	Development of American Industries
IAE 327	Survey of Industrial Pollution Control Problems
IAE 413	Philosophy of Technology
IDR 105	Introduction to Creative Studies
IDT 106	Creative Approaches to Problem-Solving
IDT 203	Creative Leadership
IDT 204	Advanced Creative Studies
INT 250	Communicating Technology—Radio
INT 260	Development of Technology
INT 311	Materials Science and Testing
INT 400	Marketing
INT 401	Management Science
ISM 111	Introduction to Computer Science

Course No.	Title
ISM 112	Symbolic Language Programming
NFS 108	Introductory Food
NFS 200	Man and His Nutrition
NFS 206	Family Health and Home Nursing
NFS 208	Human Nutrition
HPR 202	Techniques and Theories of Soccer
HPR 203	Techniques and Theories of Football
HPR 204	Techniques and Theories of Track and Field
HPR 207	Techniques and Theories of Baseball
HPR 208	Techniques and Theories of Swimming
HPR 209	Techniques and Theories of Basketball
HPR 250	Movement and Meaning: Introduction to the Art and Science of Human Movement
HPR 259	Athletics in Education
HPR 260	Foundations of Human Movement
HPR 304	Nature and Function of Movement
HPR 311	Games for School and Playground
HPR 312	Creative and Traditional Dance for Children
HPR 316	Developmental Motor Activities for Early Childhood
HPR 325	Physical Education for Children
HPR 335	Care and Prevention of Athletic Injuries
REC 204	Principles and Practices of Recreation Leadership
SAF 400	Fundamentals of Safety
SSE 200	Field Experience in Secondary Social Studies
SSE 450	Interdisciplinary Field Research Seminar in Social Studies Method



Skill Development Requirement

COMMUNICATION SKILLS (6 Credits)

There is a College requirement for minimum skills in English composition which must be satisfied by all students. A proficiency examination must be taken by all freshmen and transfer students during the first semester except for entering freshmen who have six or more advanced placement credits in expository writing or transfer students who have completed six or more hours at the freshman level or above in expository writing. These credit-bearing courses must be above the remedial level.

Using the proficiency examination, the English Department will place students in one of five categories.

1. Meets minimum proficiency level—no further work required to meet skill requirement.
2. ENG 102 required.
3. ENG 101 required.
4. ENG 099 required.
5. ENG 098 required.

Students Needing Special Help: The College offers English 098 and 099 to students requiring additional background in English. Test scores from the orientation session examination in addition to recommendations from English instructors, major advisers, tutors and others are used to determine which students have writing problems needing extra attention. These courses carry college credit but not degree credit.

Students may not register for a course at a higher level until the required courses have been satisfactorily completed. A student may demonstrate proficiency by satisfactorily completing ENG 101 and ENG 102 or by passing the proficiency exam.

The communication skills requirement in expository composition must be completed no later than the end of the sophomore year.

MATHEMATICS COMPETENCY

All students are expected to have basic mathematics skills. A mathematics proficiency examination is given to freshmen and transfer students during summer orientation or during their first semester. The examination includes sections on arithmetic and elementary algebra. Results will be used for student advisement purposes.

The College may approve a mathematics proficiency requirement for graduation in the near future. Students should check with their academic adviser to determine whether they will have to fulfill this requirement.

English Requirement for Foreign Students

All incoming foreign students whose native language is not English must take a series of speaking, structure and composition tests in English. The results will determine placement in the English course which will best

serve the needs of each student. High test scores may exempt a student from any requirement in English. A second semester of English may be required upon recommendation of the course instructor.

Departmental (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, Office of Academic Affairs and the president.

Foreign Language Requirement for BA Degree

All bachelor of arts degree programs have a foreign language requirement. However, students with four years of high school foreign language study, and those with less formal background who can demonstrate a 202 course level of proficiency are automatically exempted from the requirement.

The number of college credits mandated will range from 3 to 12, depending on the student's background:

1. Students with three years of high school study need one semester of college study. If continuing their study of the same language, they should begin at the 202 level.
2. Students with two years of high school study need two semesters of college study. If continuing in the same language, they should begin at the 201 level.
3. Students with one year of high school study need three semesters of college study. If continuing in the same language, they should begin at the 102 level.
4. Students with no high school study need four semesters of college study.

This requirement may be fulfilled by taking any combination of the following kinds of courses offered by the Foreign Language Department: foreign languages, linguistics, foreign literature and culture in translation, ethnic studies.

One semester of study abroad in an approved program may be credited toward fulfilling the foreign language requirement.

For further information and/or advisement, see introduction to the Foreign Language Department program description on page 237 or check at the Department Office, Bishop Hall 121, 878-5414.

Physical Education Requirement

Two one-hour physical education courses must be taken by all students.
(Continued p. 68)

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 48 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-liberal, departmental and foreign language credits discussed previously.

General Requirements for Bachelor of Technology Degree

General-Liberal Requirements

All students must take 24 hours of general-liberal 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 total needed for graduation.

Electives

A total of 13 hours of unrestricted elective courses may be taken to make up the 123 hours required for graduation.

General Requirements for Bachelor of Fine Arts Degree

All B.F.A. candidates must complete 36 hours of general-liberal courses with nine hours each from the Arts, the 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 requirement for graduation.



AFRICAN and AFRO-AMERICAN STUDIES (0734)

Offered by the Department of Anthropology

DR. WILLIAM E. ENGELBRECHT, Chairperson/Classroom Building B-107/
878-6110

KEITH E. BAIRD, Adviser/Classroom Building C-215/878-4131

Bachelor of Arts degree granted

The interdisciplinary African and Afro-American Studies Program offers a large variety of courses dealing with the African World community in Africa, Afro-America and the Caribbean. Special emphasis is laid on the history, culture of African-Americans. It is open to students interested in pursuing a major in the discipline or securing credit to fulfill the College's 60-credit General-Liberal Arts requirement.

General-Liberal Requirements60

Total required credit hours in African and Afro-American Studies ..36

A. REQUIRED COURSES 18

- AAS 103 The Afro-American Experience in North America to 1865
- AAS 104 The Afro-American Experience in North America from
1865 to present
- AAS 490 Community Research and Data Collection
Colloquium

ONE course at the 300 or 400 level from among the Arts and Humanities courses listed below. (see B-1)

One course at the 300 or 400 level from among the History, Politics and Economics courses listed below. (see B-2)

ONE course at the 300 or 400 level from among the courses in Socio-Community Studies listed below. (see B-3)

B. ELECTIVES:

Selected by advisement. Three courses from the following group in Arts and Humanities (only two courses in Swahili can be applied to satisfy requirements in this category). (AAS 397 confers credit only when the topics are on Arts or Humanities) 9

1. AAS/SWA 101 Elementary Swahili
- AAS/SWA 102 Elementary Swahili
- AAS/SWA 201 Intermediate Swahili
- AAS/SWA 202 Intermediate Swahili
- AAS 203 Introduction to African Civilization
- AAS 205 Early Black Writings and Theories to 1900
- AAS/ENG 240 Survey of Afro-American Literature in 1940

- AAS/ENG 241 Survey of Afro-American Literature Since 1940
- AAS 280 Contemporary Black Poets
- AAS 281 The Contemporary African Novel
- AAS 321 The Black Novel in America
- AAS 397 Topics and Problems in Afro-American Studies

(The following courses in other departments may be used to fulfill the requirements in Arts and Humanities above):

- MUS 206 Afro-American Music
- MUS 213 Music of the African Continent
- MUS 306 Urban Blues and Rock

2. ONE course from the following group in History, Politics and Economics. (AAS 397 confers credit in this group only when the topics are on History, Politics and Economics): 3

AAS 302 Political Implications of the Black Cultural Revolution

AAS 397 Topics and Problems in Afro-American Studies

AAS/HIS 469 Black Protest and Leadership in the U.S. in the 20th Century

3. TWO courses from the following group in Socio-Community Studies. (AAS 397 confers credit in this group only when the topics are in Socio-Community Studies) 6

AAS/ED 221 The History of Black Education in America

AAS/ED 222 The Development of Modern African Education

AAS 331 The Relevance of Social Theories to the Black Experience

AAS 332 The Afro-West Indian and Social Change

AAS 397 Topics and Problems in Afro-American Studies

Total required credit hours outside of Major 12

Foreign language(s) as part of B.A. degree requirement.
(See note on Swahili section B above).

Electives 13

Physical Education 2

TOTAL REQUIREMENTS 123

ANTHROPOLOGY (0733)

Offered by the Department of Anthropology
DR. WILLIAM E. ENGELBRECHT, Chairperson
Classroom Building B-107/878-6110

Bachelor of Arts degree granted

For as long as people have existed on earth, we have wondered about who we are, where we come from and why we act as we do. Much of human history has resulted from man's efforts to answer these basic questions. Anthropology is the scientific approach to answering man's questions about himself.

General Liberal Requirements 60

Total required credit hours in Anthropology 30

A. REQUIRED COURSES 12

- ANT 100 Human Origins
- ANT 101 Introduction to Anthropology
- ANT 405 History of Anthropological Theory
- ANT 412 Seminar in Anthropology

B. ELECTIVES:

ONE course from each of the following four areas (selected by advisement) 12

1. Archeology 3

- ANT 202 Man's Early Past
- ANT 308 Archeological Method
- ANT 312* Archeology of the North American Indian
- ANT 414 Seminar in Archeology

2. Physical Anthropology 3

- ANT 203 Human Evolution and Variation
- ANT 320 Human Growth in Anthropological Perspective
- ANT 321 Primate Behavior
- ANT 324 The Human Skeleton
- ANT 326 Fossil Man

3. Ethnography 3

- ANT 300 Indians of Western North America
- ANT 301 Indians of Eastern North America
- ANT 302 Peoples of Meso-America
- ANT 305 Peoples of Traditional Africa
- ANT 312* Archeology of the North American Indian
- ANT 330 The Anthropology of Oceania

ANT 411 African Systems of Kinship and Marriage

ANT 414 Social Change in African Societies

4. Method and Theory 3

- ANT 307 Urban Anthropology
- ANT 315 Research Methods in Cultural Anthropology
- ANT 402 Cultural Anthropology
- ANT 403 Language and Culture
- ANT 406 Religion, Myth and Magic
- ANT 408 Culture and Personality
- ANT 409 Social Structure
- ANT 410 Anthropology and Education

*ANT 312 may be used to fill either the archeology or ethnography requirement, but *not* both.

Note: ANT 357 Topics in Anthropology may be used to fill one or more of the elective requirements according to its content in any given semester. Please consult your advisor to determine the appropriate designation.

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

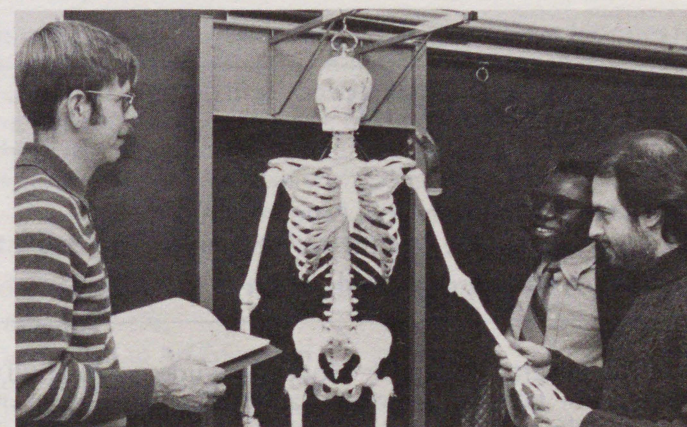
Total required credit hours outside of major 12

The B.A. degree requirement includes a foreign language component of four 3 credit courses. Students who have successfully completed foreign language courses on the high school level may be exempt. In general, one full year of a foreign language on the high school level is equivalent to a one semester course in the college level.

Electives 19

Physical Education 2

TOTAL REQUIREMENTS 123



ART (0105)

Offered by the Department of Fine Arts
DR. FRANCIS R. KOWSKY, Chairperson/Upton Hall 315G/878-6014

Bachelor of Arts degree granted

The Bachelor of Arts in 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, the student, under advisement, chooses twenty-one hours of electives in Fine Arts and/or Design.

General-Liberal Requirements 60

Total required credit hours in Art 39

A. REQUIRED COURSES 18

FAR 101	Drawing I	DES 106	Exploratory Design
FAR 102	Drawing II	FAR 250	Art History I
DES 105	Introductory Design	FAR 251	Art History II

B. ELECTIVES IN FINE ARTS AND/OR DESIGN 21

Foreign Language Requirement 12

Electives 10-22

Physical Education 2

TOTAL REQUIREMENTS 123

THE ARTS (0110)

Offered by the Department of Performing Arts
DR. JAMES F. MABRY, Chairperson/Albright Hall 201/878-6401

Bachelor of Arts degree granted

The Arts program is designed for those students who find themselves interested or talented in several art media. The nature of the program provides time for major study in two or three areas. The Dance minor is often taken with this degree.

THE ARTS (0110) continued

General-Liberal Requirements 60

Total required credit hours in The Arts 36

A. ELECTIVES SELECTED BY ADVISEMENT 15

Fine Arts	Theatre
Design	Dance
Music	

B. ELECTIVES (including a minimum 6 hours in each of three above areas) 21

Electives 25

Physical Education 2

TOTAL REQUIREMENTS 123

ART EDUCATION (0100)

Offered by the Art Education Department
DR. VINCENT C. ARNONE, Chairperson/Bishop Hall 149/878-4106

Bachelor of Science degree granted. Provisional Teaching Certificate in Art K-12 or Certificate of Qualification granted by the New York State Education Department.

The Department definition of art educators is that they are advocates for the visual arts to the general public. The major means to this service 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 can be a vocational need for people who are skilled in art and professionally trained to deal with people.

General-Liberal Requirements 60

Total required credit hours in Art Education 25

A. REQUIRED COURSES 10

AED 199	Orientation to Art Education
AED 300	Foundations in Art Education
AED 301	Theoretical Constructs in Art Education
AED 302	Functions and Practices in Art Education

(Continued p. 76)

ART EDUCATION (0100) continued

B. ELECTIVES BY ADVISEMENT	3
AED 200 Fundamentals of Art Inquiry	
AED 310 Art Materials Exploration for Group Activities	
AED 315 Arts in Living	
AED 320 Introduction to Art Therapy	
AED 325 Art and Special Needs	
AED 329 Art And Older Adults	
C. REQUIRED FIELD EXPERIENCES	12
AED 303 Elementary Student Teaching in Art	
AED 304 Secondary Student Teaching in Art	
Total required credit hours in Fine Arts and Design	36
A. REQUIRED COURSES IN FINE ARTS	18
FAR 101 Drawing I	
FAR 102 Drawing II	
FAR 250 Art History I	
FAR 251 Art History II	
Choice of two from:	
FAR 210 Introductory Painting	
FAR 220 Introductory Photography	
FAR 230 Introductory Printmaking	
FAR 240 Introductory Sculpture	
B. REQUIRED COURSES IN DESIGN	12
DES 105 Introductory Design	
DES 106 Exploratory Design	
Choice of two from:	
DES 107 Mechanical and Perspective Drawing	
DES 210 Environmental Design	
DES 230 Visual Communication	
DES 240 Design in Wood	
DES 250 Introduction to Pottery	
DES 260 Design in Fibers	
DES 270 Jewelry Making	
DES 276 Design in Metal	
C. ELECTIVE COURSES IN DESIGN	6
Physical Education	2
TOTAL REQUIREMENTS	123

ART HISTORY (0130)

Offered by the Department of Fine Arts

DR. FRANCIS R. KOWSKY, Chairperson/Upton Hall 315G/878-6014

Bachelor of Arts degree granted

The Bachelor of Arts degree in Art History is designed to introduce the student 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-Liberal Requirements 60**Total required credit hours in Art History** 30

A. REQUIRED COURSES	15
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
FAR 453 Art of the Ancient Near East	
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 12**Electives** 19-31**Physical Education** 2**TOTAL REQUIREMENTS** 123

BIOLOGY (0725)

Offered by the Department of Biology
DR. WILLIAM C. SCHEFLER, Chairperson/Science Building 313/878-5203

Bachelor of Arts degree granted

The Biology Department seeks to provide the student with broad based training in the life sciences. The student may select courses that allow concentration in botany, zoology, environmental biology, cellular and regulatory biology, microbiology, preprofessional studies (premedical, pre dental, allied health areas) and biological sciences. Enrichment is encouraged through individualized research projects under faculty direction. Programs are designed with faculty advisement.

General-Liberal Requirements	60
Total required credit hours in Biology	36
A. REQUIRED COURSES	12
BIO 114 Cell Biology	
BIO 115 General Botany	
BIO 116 General Zoology	
B. ELECTIVES IN BIOLOGY	24
Any upper division courses for which prerequisites are satisfied	
Strongly advised supportive courses which can be included in electives	
CHE 111-112 (or 101-102) and 201-202 Organic Chemistry	
MAT 126 (or 161) Calculus	
PHY 111-112 (or 101-102 or 109-110) General Physics	
Electives	25
Physical Education	2
TOTAL REQUIREMENTS	123

BIOLOGY — Secondary Education (0631)

Offered by the Department of Biology
DR. WILLIAM C. SCHEFLER, Chairperson/Science Building 313/878-5203

Bachelor of Science (Secondary Education) degree granted

The Biology Department seeks to provide the student with a broad based training in the life sciences. Graduates of the secondary education curricula in the natural sciences receive, in addition to the degree, certification of qualification to teach in their areas of specialization and in general science in grades 7-12. Permanent certification requires the Master's degree and two years teaching experience.

General Liberal Requirements	60
Total required credit hours in Biology	30
A. REQUIRED COURSES	12
BIO 114 Cell Biology	
BIO 115 General Botany	
BIO 116 General Zoology	
B. ELECTIVES IN BIOLOGY	18
Any upper division courses for which prerequisites are satisfied	
Total required credit hours in Professional Education	24
SED 250 Field Experience: Secondary Education and Related Careers*	
SED 303 Educational Psychology for Adolescents	
SED 304 Forces Influencing Secondary Education	
SED 305 Reading and Study Skills in the Secondary Classroom	
SED 308 Methods and Materials in Teaching Secondary School Science	
SED 408 Practicum in Teaching Science in the Secondary School	
*To be Taken in General-Liberal or Elective credits.	
Electives	7
Physical Education	2
TOTAL REQUIREMENTS	123

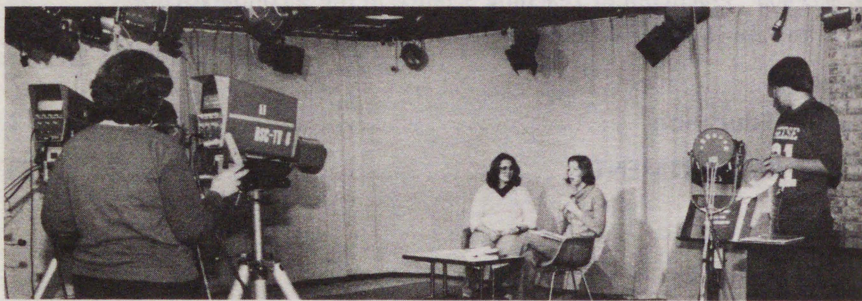
BROADCASTING (0707)

Offered by the Department of Journalism, Broadcasting and Speech
DR. RONALD L. RABIN, Chairperson/Bishop Hall 234/878-6008

Bachelor of Arts degree granted

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.

General-Liberal Requirements	60
Total required credit hours in Broadcasting	30
A. REQUIRED COURSES	24
JBS 102 Introduction to Broadcasting	
JBS 205 Experiences in Speech	
JBS 222 Technical Introduction to Broadcasting	
JBS 328 Radio Studio Operations	
JBS 329 Beginning Television Studio Operations	
JBS 332 Contemporary Issues in Broadcasting	
JBS 422 Broadcast Criticism	
JBS 430 Broadcast Law and Regulation	
B. ELECTIVES SELECTED BY ADVISEMENT	6
Two courses selected from any professional course in the Department of JBS	
Electives	31
Physical Education	2
TOTAL REQUIREMENTS	123

**BUSINESS and
DISTRIBUTIVE EDUCATION (0406)**

Offered by the Department of Business Studies.

DR. GREGORY W. GRAY, (Acting) Chairperson/Chase Hall 307/878-4239

Bachelor of Science degree granted

The BS Degree in Occupational Business and Distributive Education leads to provisional certification to teach business and distributive education subjects in New York State. Need for teachers in this area across the country (including Western New York) continues to remain constant. Buffalo State graduates with this degree have found teaching jobs in high schools, private schools, BOCES (Bureau of Cooperative Education Services), and community colleges.

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 a part of their business electives.

General Liberal Requirements	60
Total required credit hours in Distributive Education	27
REQUIRED COURSES	27
BUS 117 Intro. to Retailing	3
BUS 312 Accounting	3
BUS 325 Personnel Management	3
BUS 326 Intro. to Merchandising	3
BUS 327 Retail Advertising and Promotion	3
BUS 334 Business Law	3
BUS 336 Visual Merchandising and Display	3
BUS 429 Bus. Org. Mgt. and Oper.	3
BUS 403 Marketing II—Buying Behavior	3

Total required credit hours in Professional Education	24
DED 300 Principles of B.E. and D.E.	3
SED 415 Student Teaching in B.E. & D.E.	12
SED 303 Educational Psychology for Adolescents	3
SED 411 Methods of Teaching B.E. & D.E.	3
DED 401 Curr. & Eval. in B.E. & D.E.	3

Electives	10
Physical Education	2
TOTAL REQUIREMENTS	123

BUSINESS EDUCATION (0404)

Offered by the Department of Business Studies.

DR. GREGORY W. GRAY, (Acting) Chairperson/Chase Hall 307/878-4239

Bachelor of Science degree granted

The B.S. Degree in General Business Education leads to provisional certification to teach business courses, including typing and shorthand. Especially attractive to students from two-year colleges, the program provides for ease in transferring of credits, including up to 19 hours of typing, shorthand, and office skills courses. This is an excellent program for students holding the AAS Degree in Secretarial Science and who wish to obtain teaching certification in business education.

General-Liberal Requirements 60

Total required credit hours in Business Education 18

REQUIRED COURSES

BUS 116	Intro. to Business	3
BUS 324	Bus. Com.	3
BUS 312	Accounting	3
BUS 350	Current Issues	3
BUS 429	Bus. Org. Mgt. & Oper.	3
BUS 334	Business Law	3

Total required credit hours in Professional Education 24

DED 300	Principles of D.E. & B.E.	3
SED 415	Student Teaching in B.E. & D.E.	12
SED 303	Educational Psychology for Adolescents	3
SED 411	Method of Teaching B.E. & D.E.	3
DED 401	Curr. & Eval. in B.E. & D.E.	3

Electives by Advisement 19

Physical Education 2

TOTAL REQUIREMENTS 123

BUSINESS STUDIES: Special Studies (0430)

Offered by the Department of Business Studies.

DR. GREGORY W. GRAY, (Acting) Chairperson/Chase Hall 307/878-4239

Bachelor of Science in Special Studies degree granted

The Bachelor of Science in Special Studies—Business Studies is designed to serve students interested in various types of courses in business and industry. The program provides the student with a basic business core of courses and permits a concentration of business courses in a specialized area (e.g., sales, accounting, etc.). The program was developed to accommodate the transfer needs of students from community colleges and to provide flexibility in all students' programs. Therefore, transfer students will encounter very little if any difficulty in transferring and all students can develop a program of business studies to meet their individual needs and desires.

Admission Requirements: A 2.5 cumulative average is required of all students seeking entrance into the program.

General Liberal Requirements 60

Total required credit hours in Business Studies 30

A. REQUIRED COURSES 21

ECO 201	Prin/Mac. Econ.	BUS 313	Accounting II
ECO 202	Prin/Mic. Econ.	BUS 325	Personnel Management
BUS 116 or BUS 117		BUS 429	Bus. Org. Man. & Op.
BUS 312	Accounting I		

B. ELECTIVES SELECTED BY ADVISEMENT 9

BUS 326	Intro. to Merch.		
CFS 335	Consumer & Law		
or			
BUS 334	Business Law	BUS 410	Manag. Accounting
BUS 403	Buyer Behavior	ECO 304	Money & Banking
BUS 404	Market Res.		

FIELD EXPERIENCE/INTERNSHIP BY ADVISEMENT 0-12

Electives by Advisement 19-31

Physical Education 2

TOTAL REQUIREMENTS 123

CHEMISTRY (0726)

Offered by the Department of Chemistry
 DR. JOSEPH S. ZINGARO, Chairperson/Science Building 313/878-5203
Bachelor of Arts degree granted

The chemistry major is a program of professional study whose content has been approved by the American Chemical Society. Graduates from 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 126-127, and PHY 111-112 in order to avoid possible delays in the completion of the degree program.

General-Liberal Requirements 60

Total required credit hours in Chemistry 40

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 I
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 CHE 495 (Project) or CHE 420 (Nuclear Chemistry).

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

Required credit hours in other fields*

MAT 126-127	Calculus	PHY 111-112	General Physics
-------------	----------	-------------	-----------------

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

CHEMISTRY—Secondary Education (0632) continued

Electives	21
Physical Education	2
TOTAL REQUIREMENTS	123

**CHEMISTRY — Secondary Education (0632)**

Offered by the Department of Chemistry
 DR. JOSEPH S. ZINGARO, Chairperson/Science Building 313/878-5203
Bachelor of Science (Secondary Education) degree granted

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 126-127, and PHY 111-112 in order to avoid possible delays in the completion of the degree program.

(Continued p. 86)

CHEMISTRY (0726) continued**General-Liberal Requirements** 60**Total required credit hours in Chemistry** 31

- 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 SUCB. Chemistry courses taken elsewhere may be substituted for similar courses at SUCB *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 24

- SED 250 Field Experience: Secondary Education and Related Careers*
- SED 303 Educational Psychology for Adolescents
- SED 304 Forces Influencing Secondary Education
- SED 305 Reading and Study Skills in the Secondary Classroom
- SED 308 Methods and Materials in Teaching Secondary School Science
- SED 408 Practicum in Teaching Science in the Secondary School

*Note: To be taken in General-Liberal or Elective credits.

Total required credit hours in other fields¹

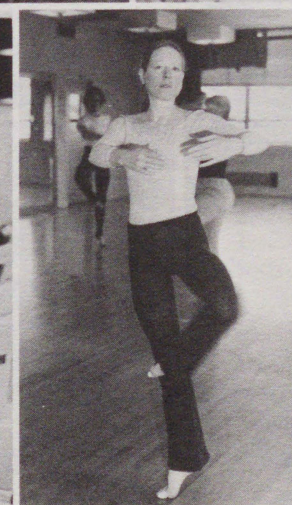
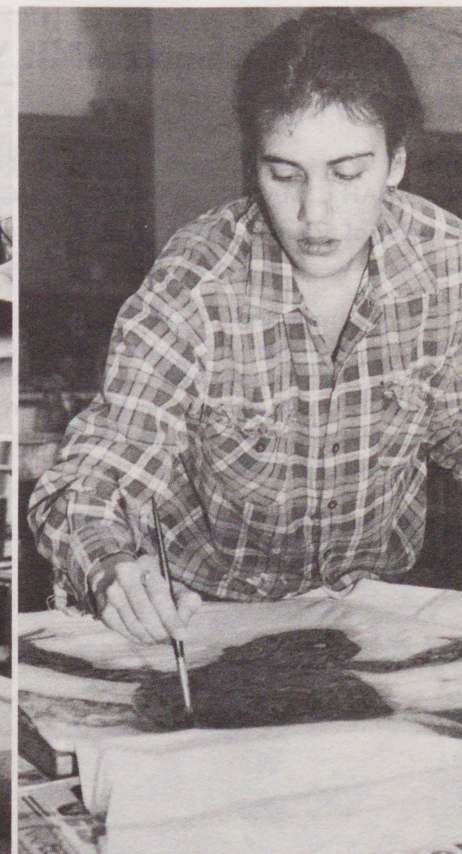
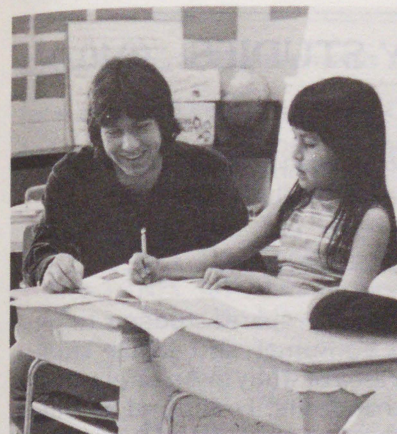
- BIO 115 General Botany²
- BIO 116 General Zoology²
- Geosciences (6)²
- HSC 320 Alcohol, Narcotics and Hallucinogens²
- MAT 126-127 Calculus^{2 3}
- PHY 111-112 General Physics^{2 3}

Notes:

¹These credits may be applied toward the sixty-hour general-liberal requirement listed above.

²Required for provisional certification.

³Required for graduation.

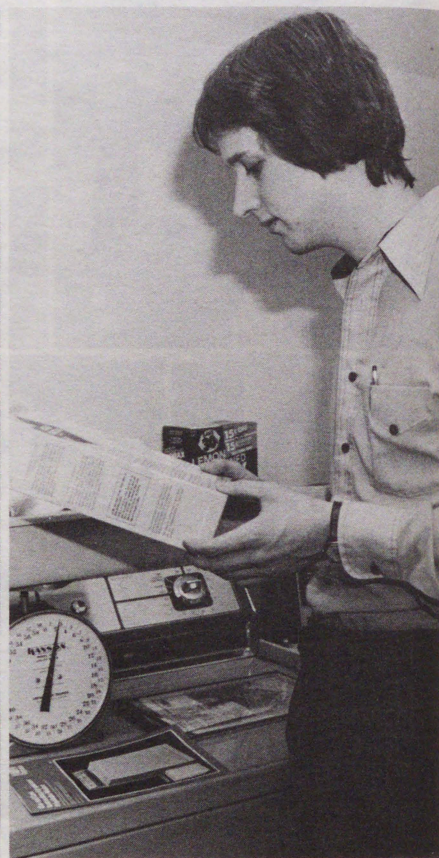
Electives 6**Physical Education** 2**TOTAL REQUIREMENTS** 123

CONSUMER and FAMILY STUDIES (0401)

Offered by the Department of Consumer Studies and Home Economics
DR. SARAH L. MANNING, Chairperson/Caudell Hall 206/878-5704

Bachelor of Science degree granted

The Consumer and Family Studies program prepares students to serve youth and adults as professionals in consumer and family studies. Students in this program may plan their area of study in Apparel and Textiles, Consumer Affairs, Fashion Merchandising, Foods and Nutrition, Housing Equipment and Home Management, or Human Development and Family Relations.



General-Liberal Requirements 60

Total required credit hours in Consumer and Family Studies 42

- A. Area 1 - CFS 108 Apparel Design
CFS 110 Know Your Merchandise
CFS 306 Textile Science
- Area 2 - CFS 310 Economics for Consumers
CFS 315 Consumer Problems in Personal Finance
- Area 3 - NFS 101 Introductory Foods
NFS 334 Man and His Nutrition
- Area 4 - CFS 302 Household Equipment
CFS 325 Management and Family Finance
CFS 331 Housing the Family
- Area 5 - CFS 212 The Family in Society and Culture
EDU 210 Introduction to Human Development

B. REQUIREMENTS FOR SPECIALIZATIONS 27

Apparel and Textiles

Required courses 12

- CFS 108 Apparel Design
DFS 306 Textile Science
CFS 307 Clothing - Design and Construction
CFS 437 Textile Evaluation

Electives selected by advisement 15

Select four courses from the following:

- CFS 425 Clothing Design Through Tailoring
CFS 427 Clothing Design Through Flat Pattern Techniques
CFS 447 Clothing in Relation to Human Behavior
CFS 448 Costume Through the Ages

or

- CFS 449 Textiles Through the Ages
CFS 458 Consumer Product Standards
CFS 495 Project
CFS 110 Know Your Merchandise

or

- CFS 457 Fashion Merchandising

Select one course from the following:

- CFS 302 Household Equipment
CFS 304 Introduction to Research Methods
CFS 431 Furnishing the Home

Consumer Affairs

Required courses 21

- CFS 304 Introduction to Research Methods
CFS 310 Economics for Consumers
CFS 315 Consumer Problems in Personal Finance

(Continued p. 90)

CONSUMER and FAMILY STUDIES (0401) continued

- CFS 335 The Consumer and the Law
 CFS 438 Urban Consumer Needs and Community Services
 CFS 439 Public Policy and the Consumer Interest
 CFS 458 Consumer Product Standards

Electives selected by advisement 6

Select two courses from the following:

- CFS 302 Household Equipment
 CFS 306 Textile Science
 CFS 331 Housing the Family
 CFS 420 Housing and the Urban Crisis
 BUS 403 Marketing II - Buyer Behavior
 or
 PSY 382 Psychology of the Consumer

Human Development and Family Relations

Required courses 27

Select nine courses by advisement

- CFS 212 The Family in Society and Culture
 CFS 301 Preparation for Marriage and Family
 CFS 304 Introduction to Research Methods
 CFS 308 Human Development and Family Relations -
 Adolescent Years through Young Adulthood
 CFS 309 Adulthood
 CFS 409 Essentials of Sex Education Programs
 CFS 430 Issues of the Modern American Family
 CFS 485 Senior Seminar
 CFS 495 Project
 EDU 210 Introduction to Human Development

Fashion Merchandising

Required courses 27

- CFS 110 Know Your Merchandise
 CFS 306 Textile Science
 CFS 307 Clothing Design and Construction
 CFS 357 Contemporary Fashion Analysis
 CFS 437 Textile Evaluation
 CFS 447 Clothing in Relation to Human Behavior
 CFS 448 Costume through the Ages

- or
 CFS 449 Textiles Through the Ages
 CFS 457 Fashion Merchandising
 BUS 117 Introduction to Retailing

Required courses outside of major 9

- BUS 312 Accounting I
 BUS 325 Personnel Management
 BUS 336 Visual Merchandising

Foods and Nutrition

Required courses 15

- NFS 101 Introductory Foods
 NFS 305 Advanced Foods
 NFS 335 Human Nutrition
 NFS 400 Food Science
 NFS 440 Advanced Human Nutrition

Electives selected by advisement 12

Select four courses from the following:

- NFS 306 Food Demonstration
 NFS 336 Maternal, Infant and Child Nutrition
 CFS 230 Family Health and Home Nursing
 CFS 302 Household Equipment
 CFS 304 Introduction to Research Methods
 CFS 310 Economics for Consumers
 CFS 325 Management and Family Finance
 CFS 458 Consumer Product Standards

Housing, Equipment and Home Management

Required courses 21

- CFS 302 Household Equipment
 CFS 306 Textile Science
 CFS 325 Management and Family Finance
 CFS 331 Housing the Family
 CFS 420 Housing and the Urban Crisis
 CFS 431 Furnishing the Home
 CFS 495 Project

Electives selected by advisement 6

Select two courses from the following:

- CFS 310 Economics for Consumers
 CFS 335 The Consumer and the Law
 CFS 438 Urban Consumer Needs and Community Services
 CFS 439 Public Policy and the Consumer Interest

Electives 19

(Note: Fashion Merchandising has only 10 hours elective.)

Physical Education 2

TOTAL REQUIREMENTS 123

CRIMINAL JUSTICE (0771)

Offered by the Department of Community/Social Services/Criminal Justice
EDWARD L. MORGAN, Chairperson/Classroom Building C114/878-4517

Bachelor of Science degree granted

Criminal Justice is an Academic Program with close community ties. Its primary goal is to bridge the classroom into the community and to deal with current problems and concerns of the Administration of Justice. It attempts to provide a means by which theoretical concepts can be tested in the real world, and some determination can be made whether the theory has any relevancy to the real problems of the system.

General-Liberal Requirements 60

Total credit hours in Criminal Justice 39

A. REQUIRED COURSES 21

- CRJ 101 Introduction to Criminal Justice 3
- CRJ 201 Criminal Law and Procedure 3
- CRJ 302 Community Issues in Criminal Justice 3
- CRJ 315 Research Design in Criminal Justice 3
- CRJ 317 U.S. Constitution and Civil Liberties 3
- CRJ 401 Seminar in Criminal Justice 3
- CRJ 402 Advanced Administration in Criminal Justice 3

B. CRIMINAL JUSTICE ELECTIVES SELECTED BY ADVISEMENT 6

- CRJ 316 Field Studies (CRJ 316 is a 6 credit course, however, only 3 credits may be used as electives in the major. The remaining three or the total 6 may be used as free electives.)

- CRJ 406 Introduction to Corrections Management
- CRJ 408 Pro-seminar
- CRJ 415 Decision Making in Police, Judicial and Correctional Systems

- CRJ 418 Analysis of Homicide
- CRJ 495 Upper Class Project
- CRJ 499 Independent Study
- HIS 343 Introduction of American Legal History
- SOC 401 Juvenile Delinquency

C. BEHAVIORAL AND SOCIAL SCIENCE ELECTIVES SELECTED BY ADVISEMENT 12

- ECO 305 Statistics for Economics
- ECO 301 Labor Relations
- ECO 310 Economics of Poverty

- ECO 312 Accounting
- EXE 314 Psychology of Exceptional Children
- CSS 319 Social Dynamics of Poverty
- CSS 320 Organized Community Services
- CSS 419 Social Welfare Policy
- HIS 342 English Legal History
- HIS 343 American Legal History
- HIS 421 Black American History
- PSC 304 Public Administration
- PSC 305 State and Local Government
- PSY 211 Personality
- PSY 225 Social Behavior
- PSY 380 Cultural Effects of Cultural Deprivation (prev. PSY 280)
- PSY 311 Abnormal Psychology
- PHI 102 Intro. to Moral and Social Philosophy
- PHI 303 Justice and Criminal Justice
- PHI 301 Soc. and Political Philosophy
- PHI 304 Philosophy of Law
- PHI 323 Ethics (prev. PHI 203)
- SOC 303 Social Psychology
- SOC 304 Social Stratification
- SOC 309 Sociology of Crime
- SOC 317 Soc. of Race and Ethnicity
- SOC 401 Juvenile Delinquency
- SOC 413 Sociology of Law
- SOC 414 Sociology of Addiction
- SOC 419 Sociology of Punishment and Corrections

Electives 22

Physical Education 2

TOTAL REQUIREMENTS 123



CRIMINALISTICS (0772)

Offered by the Department of Chemistry
DR. JOSEPH S. ZINGARO, Chairperson/Science Building 313/878-5203

Bachelor of Science degree granted

The criminalistics major 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 delays in the completion of the degree program.

General-Liberal 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 495 Internship

Chemistry Elective (3)

TRANSFER STUDENTS must complete a minimum of 10 credit hours in chemistry at SUCB. Chemistry courses taken elsewhere may be substituted for similar courses at SUCB *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 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**DESIGN (0175)**

Offered by the Department of Design
MARIANNE VALLET-SANDRE, Chairperson/Upton Hall 315/878-6032

Bachelor of Science degree granted

The Design Program offers a degree of Bachelor of Science in Design to prepare students for careers in Environmental, Graphic, Interior, and General Design, as well as in the areas of ceramics, jewelry, metalsmithing, textile, and wood design.

In the general foundation courses, students develop basic skills and acquire general design concepts; through upper level course work, they pursue specialization to professional levels of competency. Individual development and progression is emphasized throughout each program.

Special Admission Requirement: Each candidate must submit, either in person or by mail, an art work portfolio as part of the admission requirement.

General-Liberal Requirements 60**Required credit hours in Design** 33-39**A. REQUIRED COURSES** 6

- DES 105 Introductory Design
- DES 106 Exploratory Design

B. CHOICE OF TWO FROM BELOW 6

- | | |
|--|---------------------------------|
| DES 107 Mechanical & Perspective Drawing | DES 250 Introduction to Pottery |
| DES 205 Advanced Design | DES 260 Design in Fibers |
| DES 210 Environmental Planning & Design | DES 270 Jewelry Making |
| DES 230 Visual Communications | DES 276 Design in Metal |
| DES 240 Design in Wood | DES 302 Color, Light & Motion |
| | DES 320 Form & Function |

C. MAJOR CONCENTRATION (WITH ADVISEMENT) 21-27

7-9 Design courses

Electives (7-9 courses) 22-28**Physical Education** 2**TOTAL REQUIREMENTS** 123

DIETETICS (0410)

Offered by the Department of Nutrition and Food Science
DR. DENNIS K. PONTON, Chairperson/Caudell Hall 106A/878-5913

Bachelor of Science degree granted

The Generalist Dietetics baccalaureate option enables a student to satisfy the academic requirements established by The American Dietetic Association. Graduates are eligible to apply for approved dietetic internships offered at various locations across the country; successful completion of the internship and Registration Examination can lead to attainment of Registered Dietitian status. Career opportunities are available to dietitians in health facilities, food service organizations, government agencies and consulting work.

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

General-Liberal Requirements 60

Total required credit hours in Nutrition and Food Science 31

A. REQUIRED COURSES 28

- NFS 101 Introductory Food
- NFS 305 Advanced Food
- NFS 335 Human Nutrition
- NFS 361 Principles of Management in Food Service
- NFS 362 Quantity Food Management
- NFS 400 Food Science
- NFS 440 Advanced Human Nutrition
- NFS 441 Dietary Modifications in Disease
- NFS 468 Operational Systems in Management

B. ELECTIVES IN NUTRITION AND FOOD SCIENCE 3

- NFS 306 Food Demonstration: Cultural Aspects
- NFS 336 Maternal, Infant and Child Nutrition
- NFS 439 Nutritional Biochemical Analysis

C. A MINIMUM OF TWELVE 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 meet-

ing these requirements are identified below; they may be taken as electives or used in fulfilling the General-Liberal requirement.

- BIO 114 Cell Biology
- BIO 210 Bacteriology
- BIO 311 Human Anatomy and Physiology
- CHE 101 General Chemistry I or CHE 111 Fundamentals of Chemistry I
- CHE 102 General Chemistry II or CHE 112 Fundamentals of Chemistry I
- CHE 321 Principles of Organic Chemistry
- CHE 322 Biological Chemistry
- ECO 101 The Economic System or ECO 201 Principles of Macroeconomics
- ENG 300 Writing for the Professions
- MAT 111 Elementary Probability and Statistics or equivalent
- MAT 124 Fundamentals of College Mathematics or three years high school math
- PSY 101 Introduction to Psychology
- PSY 310 Behavior Modification or EDU 303 Educational Psychology
- SIC 101 Introduction to Sociology or ANT 101 Introduction to Anthropology

Electives	30
Physical Education	2
TOTAL REQUIREMENTS	123

DIETETICS (0410)

Offered by the Department of Nutrition and Food Science
DR. DENNIS K. PONTON, Chairperson/Caudell Hall 106A/878-5913

Bachelor of Science degree granted

The Coordinated Undergraduate Option in Clinical Dietetics, approved by The American Dietetic Association, combines theoretical learning with clinical application during the junior and senior years. The curriculum can be completed in four years if the student selects 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.

(Continued p. 98)

DIETETICS (0410) continued

Admission Requirements: Sophomore students apply directly to the Department in November of each year. The application process includes a personal interview, biographical sketch, performance of a battery of tests, a 2.75 minimum grade point average and the ability to have completed the following courses by the next fall term (BIO 210, BIO 311, CHE 101 or CHE 111, CHE 102 or CHE 112, CHE 321, CHE 322, NFS 101, NFS 335, NFS 400, PSY 101, SOC 101). Up to sixteen students can be accepted in this program each year.

General-Liberal Requirements 60

Total required credit hours in Nutrition and Food Science 31

A. REQUIRED COURSES

- NFS 101 Introductory Food
- NFS 335 Human Nutrition
- NFS 336 Maternal, Infant and Child Nutrition
- NFS 361 Principles of Management in Food Service
- NFS 400 Food Science
- NFS 439 Nutritional Biochemical Analysis
- NFS 440 Advanced Human Nutrition
- NFS 442 Nutrition and Disease Part I
- NFS 443 Nutrition and Disease Part II
- NFS 444 Community Nutrition
- NFS 468 Operational Systems in Management

B. ELECTIVES IN NUTRITION AND FOOD SCIENCE

To satisfy the clinical requirements of The American Dietetic Association, students in the Coordinated Undergraduate Dietetic Program may elect the following clinical courses. These NFS courses may be substituted for electives.

- NFS 445 Nutritional Care A
- NFS 446 Nutritional Care B
- NFS 447 Nutritional Care C
- NFS 448 Nutritional Care D
- NFS 495 Special Project

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-Liberal requirements.

- BIO 114 Cell Biology
- BIO 210 Bacteriology
- BIO 311 Human Anatomy and Physiology

- 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 Macroeconomics
- ENG 300 Writing for the Professions
- MAT 111 Elementary Probability and Statistics or Equivalent
- MAT 124 Fundamentals of College Mathematics or three years high school math
- PSY 101 Introduction to Psychology
- PSY 310 Behavior Modification or EDU 303 Educational Psychology
- EDU 303 Educational Psychology
- SOC 101 Introduction to Sociology or ANT 101 Introduction to Anthropology

Electives 30

Physical Education 2

TOTAL REQUIREMENTS 123



EARLY CHILDHOOD (0431)

Offered by the Department of Curriculum and Supervision
DR. NORMAN G. WALKER, Chairperson/Bacon Hall 302/878-5916

Bachelor of Science in Special Studies degree granted

The Bachelor of Science in Special Studies (BS/SS) - Early Childhood is designed for students interested in careers working with young children and families in non-school setting, i.e., day care centers, human service agencies, as well as in settings for merchandising and manufacturing products for children. The program focuses on child development/child learning with electives in other disciplines which will prepare students for their specific career choice. An internship in an appropriate field setting can be arranged.

The Early Childhood Studies program is a four year ***non-teacher certification** program culminating in a Bachelor of Science degree in Special Studies.

*For requirements leading to New York State Certificate of Qualification (Nursery-Grade 6) see page 361.

General-Liberal Requirements 60

Total required credit hours in Early Childhood: BS/SS 24-36

A. REQUIRED COURSES 18

- EDU 210 Introduction to Human Development
- EDU 318 Laboratory in the Study of Young Children
- EDU 329 Techniques and Materials for Pre-Kindergarten Groups
- EDU 350 Human Development During Early Childhood
- EDU 417 Parents & Education
- EDU 429 Cognitive and Socialization Programs for Pre-Kindergarten Children

B. ELECTIVES SELECTED BY ADVISEMENT 6

- CFS 212 The Family in Society and Culture
- ENG 260 Children's Literature
- HPR 312 Creative and Traditional Dance for Children
- HPR 325 Physical Education for Children
- SOC 316 Sociology of the Family
- MUS 317 Music for Children
- NFS 334 Man and His Nutrition
- EDU 338 Observation and Study of Children: Nursery/Primary
- STA 418 Creative Dramatics
- EXE 300 Nature and Needs of Exceptional Children
- EDU 405 Parent/Infant Experience

C. OPTIONAL FIELD EXPERIENCE/INTERNSHIP (NON-SCHOOL SETTINGS) UNDER ADVISEMENT 0-12

Electives 25-37

Physical Education 2

TOTAL REQUIREMENTS 123

EARTH SCIENCE: Secondary Education (0633)

Offered by the Department of Geosciences, Physics and Interdisciplinary Sciences

DR. ROBERT E. HORVAT, Chairperson/Science Building 271/878-6731

Bachelor of Science in Geosciences, or the Bachelor of Arts in Geology degrees granted

The Secondary Education Earth Science Program leads to provisional New York certification 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 those programs must be fulfilled, in addition to those listed below.

General-Liberal Requirements — (may be applied either to B.A. or B.S. programs) 60

Total required credit hours in Geosciences — (may be applied to B.A. geology or B.S. geoscience program) 37

A. REQUIRED COURSES 28

- GES 101 Introductory Geology
- or
- GES 122 Principles of Earth Science
- and
- GES 102 Historical Geology
- GES 103 Introductory Geology Lab
- GES 131 Introduction to Astronomy
- GES Astronomy Elective
- SCI 211 Oceanography
- GES 241 Meteorology
- GES 302 Invertebrate Paleontology
- GES 304 The Common Rocks and Minerals
- GES 307 Geomorphology

(Continued p. 102)

EARTH SCIENCE: Secondary Education (0633) continued**B. ELECTIVES SELECTED BY ADVISEMENT** 9

Credit will be allowed for any course in Geology, Astronomy, Oceanography, or Atmospheric Science.

Total required credit hours in Professional Education 24

- SED 250 Field Experience: Secondary Education and Related Careers (counts as general-liberal credit)
- SED 303 Educational Psychology for Adolescents
- SED 305 Forces Influencing Secondary Education
- SED 305 Reading and Study Skills in the Secondary Classroom
- SED 308 Methods and Materials in Teaching Secondary School Science
- SED 408 Practicum in Teaching Science in the Secondary School

Credit hours in related sciences (count for general-liberal credit)

- Two semesters of biology
- Two semesters of chemistry
- Two semesters of physics

Physical Education 2**TOTAL REQUIREMENTS** 123**ECONOMICS (0704)**

Offered by the Department of Economics and Political Science
 DR. RICHARD J. KIEFFER, Chairperson/Classroom Building B218/878-6116
Bachelor of Arts degree granted

Economics studies the interaction of consumers, business, and government as they operate to provide goods and services. Students learn to describe, analyze, explain and predict economic phenomena. As career training, students acquire the ability to investigate problems found in business and government and determine an efficient solution. Graduates either find employment in business, finance, government or pursue advanced studies. A Management Concentration is available within the major which adds a background in applied economics, accounting and

management. Graduates with the concentration are prepared for entry-level management positions and have excellent opportunities for advanced study.

General-Liberal Requirements 60**Total required credit hours in Economics** 30**A. REQUIRED COURSES** 18

- ECO 201 Principles of Macroeconomics
- ECO 202 Principles of Microeconomics
- ECO 305 Statistics for Economics
- ECO 307 Intermediate Microeconomics
- ECO 308 Intermediate Macroeconomics
- ECO 405 History of Economic Thought

B. ELECTIVE COURSES IN ECONOMICS 12**Management Concentration is a 30 hour alternative to the above major****A. REQUIRED COURSES** 21

- ECO 201 Principles of Macroeconomics
- ECO 202 Principles of Microeconomics
- ECO 305 Statistics for Economics
- ECO 307 Intermediate Microeconomics
- ECO 308 Intermediate Macroeconomics
- BUS 312 Principles of Accounting I
- BUS 313 Principles of Accounting II

B. ELECTIVES IN ECONOMICS 9

- ECO 301, 304, 314, 316, 317, 320, 325, 340, 350, 499 or BUS 410.
 (One 400 level Economics elective required.)

Foreign Language Requirement 12**Electives** 19-31**Physical Education** 2**TOTAL REQUIREMENTS** 123

ELEMENTARY EDUCATION (0200)

Offered jointly by the Departments of Behavioral and Humanistic Studies and Curriculum and Supervision

Chairperson/Behavioral and Humanistic Studies Department/Bacon Hall 303/878-4303

DR. NORMAN G. WALKER, Chairperson/Curriculum and Supervision Department/Bacon Hall 302/878-5916

Bachelor of Science degree granted

Graduates in Elementary Education are certified 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 are provided with a developmental program of supervised teaching experiences with children of various age levels in different types of schools. Student teaching experiences are provided in cooperating public schools in the College community.

General-Liberal Requirements	60
Total required credit hours in Elementary Education	36
EDU 210 Introduction to Human Development	3
EDU 350 Human Development During Early Childhood	3
or	
EDU 351 Human Development During Middle Childhood	3
or	
EDU 352 Human Development During Pre- and Early Adolescence	3
EDU 201 School and Society	3
EDU 301 Teaching Social Studies, Science, and Mathematics	6
EDU 314 Teaching Reading and other Language Arts	6
EDU 401 Practicum in Teaching	12
EDU 402 Seminar in Education	3
Electives	25
See following section on Academic Concentrations	
Physical Education	2
TOTAL REQUIREMENTS	123

Academic Concentrations

Students enrolled in the Elementary Education Program are required to complete a 24 hour concentration in addition to the professional program requirements. The concentration is in reality an academic minor designed to broaden his/her academic background in the core subjects; develop an academic teaching specialty; or develop multiple career options.

In many cases, with careful advisement and course selection, the concentration can be fulfilled with courses which will also satisfy the general-liberal requirement. Details of the various concentrations are available in the Office of Professional Studies Advisement (Caudell Hall 114) and students must register their concentration choice with that office by the end of the second semester of their enrollment in the Elementary Education Program.

Student Teaching

Student teaching experiences are provided in cooperating public schools in the College community. Students may be required to reside in some communities during student teaching assignments. Students enrolled in student teaching devote full time to student teaching. A student may take EDU 402 concurrently with elementary student teaching. Eligibility for elementary student teaching is determined by the Office of the Associate Dean of Applied and Professional Studies, and placement is done by the Department of Curriculum and Supervision. Prior written approval must be obtained from the appropriate Department Chairperson and the All-Campus Student Teaching Coordinator for a student to enroll for any other college credit work during a student teaching assignment. All students anticipating a student teaching assignment must show proof of having a chest X-ray within six months of the assignment. Results of the chest X-ray must be filed at the Health Center.

Extended Certification

A student 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 his specific area and must complete a situation of student teaching in the selected academic subject in the early secondary grades. The student's advisor will be from the Elementary Education Program. However, he should consult with the coordinator of secondary education for his academic area.

Transfer Students

Students transferring to Elementary Education majors as juniors who wish to complete their program in four semesters should plan their schedules of coursework in education carefully. It is important to note that EDU 301 and EDU 314 may be taken concurrently only in the APACE, XTEP, or Early Childhood programs. Students who do not plan to participate in one of these programs should complete EDU 201 and EDU 210 in their first semester and EDU 350/351/352 and EDU 314 in their second semester.

(Continued p. 106)

ELEMENTARY EDUCATION continued**Additional Options**

As part of the standard elementary education development sequence the following options exist for eligible students.

APACE

APACE is a 12-hour program in Elementary Education which integrates the content of Education 301 and Education 314. It places an emphasis on the individualization of instruction and concepts of open education. This option is a personalized approach to teacher education which focuses on the identification of individual strengths and needs and the development of a personal teaching style.

Following an intensive study of elementary school curriculum and teaching, students begin a four week field experience which provides an opportunity for the prospective teacher to relate theory to practice in an informal classroom in an elementary school.

EARLY CHILDHOOD

The Early Childhood option is presently a 12-hour block encompassing EDU 301 and EDU 314. It stresses an interdisciplinary approach to an integrated curriculum for the young child. It is designed primarily for students interested in teaching in grades N-3. Some observation and participation will be in the intermediate grades to meet New York State Certificate of Qualification and Provisional Certificate requirements (N-6).

Experience with children is the focal point of the option. The program is individualized to provide opportunities for students to work with children from various ethnic and cultural backgrounds in a variety of educational settings. This option offers a strong emphasis upon development and education in infancy and early childhood as well as parent education.

FORCEP

The FORCEP (For City Education Program) is designed for the elementary education major who desires experiences in an inner-city location. Courses emphasize the significance of diversity of cultures on the behavior and values of children.

Students should select sections in the developmental sequence which are designed as FORCEP sections. A participation component of each section provides on-site experiences in inner-city Buffalo schools. It is expected that one student teaching experience will be selected in an urban setting.

XTEP

Students who enroll in the **Experimental Teacher Education Program (XTEP)** at the beginning of a semester become a group committed to a new approach to preparing undergraduates for a career in elementary school teaching. Within 3 semesters, they complete all 36 credit hours of their professional education course sequence by working together as a unit with a team of six college faculty members. Throughout their time in the program, students cooperate with the faculty team to plan and conduct their learning experiences. The XTEP courses, for the most part, are based in the SUCB College Learning Laboratory. All elementary education majors are eligible to apply for XTEP. However, there are only a limited number of spaces available. Preference will be given to applicants who are at or near the beginning of their education course sequence.

**ENGINEERING TECHNOLOGY:
Mechanical (0820)**

Offered by the Department of Technology

DR. MYRON E. LEWIS, Chairperson/Upton Hall 502/878-4431

DR. PETER S. PAWLIK, Program Coordinator/Upton Hall 501/878-5310

Bachelor of Technology degree granted

The Mechanical Engineering Technologist is employed in the design, testing, and manufacture of machinery. This includes a broad range of items ranging from consumer goods and machine tools to heat and power equipment.

Special Admission Requirements: This is an upper division program which accepts transfer students who hold an Associate in Applied Science Degree in a related field or its equivalent (junior standing with a compatible academic background).

General-Liberal Requirements	24
Arts and Humanities	6
Written and Oral Communications	6
Social Sciences	12

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	Engineering Analysis
ENT 301	Mechanics I
ENT 302	Mechanics II
ENT 331	Electrical Circuits & Devices I
ENT 332	Electrical Circuits & Devices II
ISM 313	Computer Methods in Technology

Total required credit hours in Technical Specialty 33

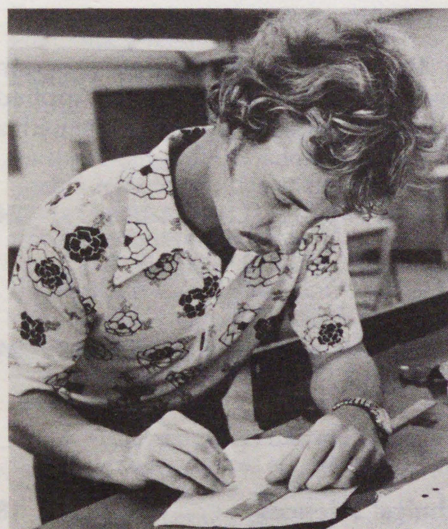
INT 201	Materials Processing
INT 311	Materials Science & Testing
ENT 303	Kinematics
ENT 311	Thermodynamics
ENT 312	Fluid Mechanics
ENT 353	Technical Drawing

(Continued p. 108)

ENGINEERING TECHNOLOGY: Mechanical (0820) continued

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	13
Physical Education	2
TOTAL REQUIREMENTS	123

**ENGINEERING TECHNOLOGY:
Electronics (0820)**

Offered by the Department of Technology
 DR. MYRON E. LEWIS, Chairperson/Upton Hall 502/878-4431
 DR. PETER S. PAWLIK, Program Coordinator/Upton Hall 501/878-5310

Bachelor of Technology degree granted

The Electronics Engineering Technologist is employed in the design, testing, and fabrication 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 large scale computers.

Special Admission Requirements: This is an upper division program which accepts transfer students who hold an Associate in Applied Science Degree in a related field or its equivalent (Junior standing with a compatible academic background).

General-Liberal Requirements	24
Arts and Humanities	6
Written and Oral Communications	6
Social Sciences	12

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	Engineering Analysis
ENT 301	Mechanics I
ENT 302	Mechanics II
ENT 331	Electrical Circuits & Devices I
ENT 332	Electrical Circuits & Devices II
ISM 313	Computer Methods in Technology

Total required credit hours in Technical Specialty	30
ENT 341	Electronics
ENT 342	Networks
ENT 351	Electronic Circuits I
ENT 352	Electronic Circuits II
ENT 441	Electromagnetic Fields & Waves
ENT 442	Microwave Techniques
ENT 431	Digital Systems I
ENT 432	Digital Systems II
ENT 461	Control Technology I
ENT 462	Control Technology II

Technical Electives	12
Electives	13
Physical Education	2
TOTAL REQUIREMENTS	123

ENGINEERING TECHNOLOGY: Electro-Mechanical (0820)

Offered by the Department of Technology

DR. MYRON E. LEWIS, Chairperson/Upton Hall 502/878-4431

DR. PETER S. PAWLIK, Program Coordinator/Upton Hall 501/878-5310

Bachelor of Technology degree granted

The Electro-Mechanical Engineering Technologist is employed in the design, testing, and manufacture of electrical machinery, electrical power systems, and control systems. He is a diversified individual who can fill the many industrial positions which require a knowledge of both mechanical and electrical technology.

Special Admission Requirements: This is an upper division program which accepts transfer students who hold an Associate in Applied Science Degree in a related field or its equivalent (junior standing with a compatible academic background).

General-Liberal Requirements	24
Arts and Humanities	6
Written and Oral Communications	6
Social Sciences	12

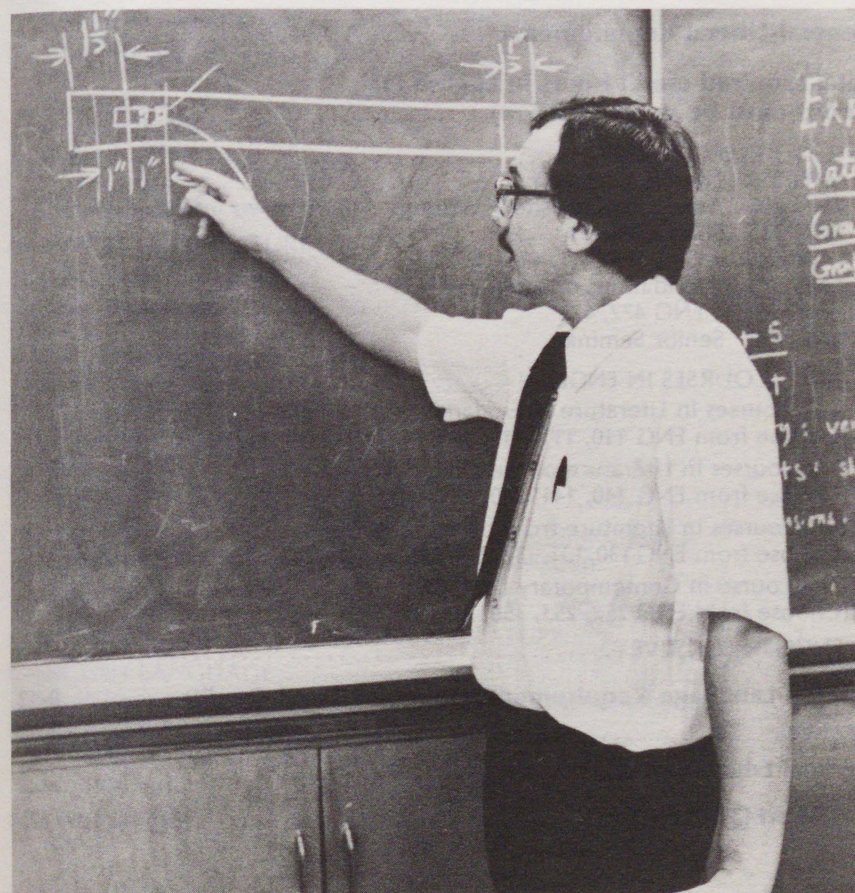
Total required credit hours in Mathematics and Physical Sciences	24
Mathematics	9
Physics	6
Chemistry	6
Computer Science	3

Total required credit hours in Technical Sciences	18
ENT 300 Engineering Analysis	
ENT 301 Mechanics I	
ENT 302 Mechanics II	
ENT 331 Electrical Circuits & Devices I	
ENT 332 Electrical Circuits & Devices II	
ISM 313 Computer Methods in Technology	

Total required credit hours in Technical Specialty	33
ENT 311 Thermodynamics	
ENT 312 Fluid Mechanics	
IAE 353 Technical Drawing	
ENT 341 Electronics	
ENT 342 Networks	

ENT 371	Electro-Mechanical Machines
ENT 411	Heat Transfer
ENT 461	Control Technology I
ENT 462	Control Technology II
ENT 471	Electrical Power Systems I
ENT 472	Electrical Power Systems II

Technical Electives	9
Electives	13
Physical Education	2
TOTAL DEGREE REQUIREMENTS	123



ENGLISH (0705)

Offered by the Department of English
DR. PAUL V. HALE, Chairperson/Ketchum Hall 326/878-5416

Bachelor of Arts degree granted

The English Program offers four areas of service: the enhancement of writing skills, electives to satisfy general liberal requirements, a liberal arts English major, and a Secondary Education English major. Much of our effort is directed toward the improvement of literacy, a critical urban problem of today.

General-Liberal Requirements 60

Total required credit hours in English (18 credits must be upper division) 39

A. REQUIRED COURSES 15

- 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

- Two courses in Literature of England prior to 1900 6
(Choose from ENG 110, 111, 415, 416, 417, 418, 419, 420, 421)
- Two courses in Literature of the United States 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, 432)
- One course in Contemporary Literature 3
(Choose from ENG 252, 253, 350, 351, 422, 454, 456)

C. ENGLISH ELECTIVE 3

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

Electives 12-21

Physical Education 2

TOTAL REQUIREMENTS 123

ENGLISH — Secondary Education (0610)

Offered by the Department of English
DR. PAUL V. HALE, Chairperson/Ketchum Hall 326/878-5416

Bachelor of Science degree granted

General-Liberal Requirements 60
(must include a Drugs, Alcohol, Narcotics elective)

Total required credit hours in English 36

A. ENGLISH LITERATURE 6-9

- Select from three areas:
- Major literary periods
- Major fiction writers
- Major poets
- Major dramatists
- Recurrent themes
- Master works
- Literary-historical overview

B. AMERICAN LITERATURE 6-9

- Select from three areas:
- Major literary periods
- Major fiction writers
- Major poets
- Major dramatists
- Recurrent themes
- Master works
- Literary-historical overview

C. WORLD LITERATURE 3

- Select from: British/American literature, including Classical and Biblical Literature, and literature in translation

D. ADOLESCENT LITERATURE 3

E. MINORITY & ETHNIC AMERICAN LITERATURE 3

F. ENGLISH LANGUAGE 6

- Select from history, structure & usage of the English language

G. ADVANCED WRITING 6

- Select from creative writing, advanced composition and technical writing.

H. SHAKESPEARE 3

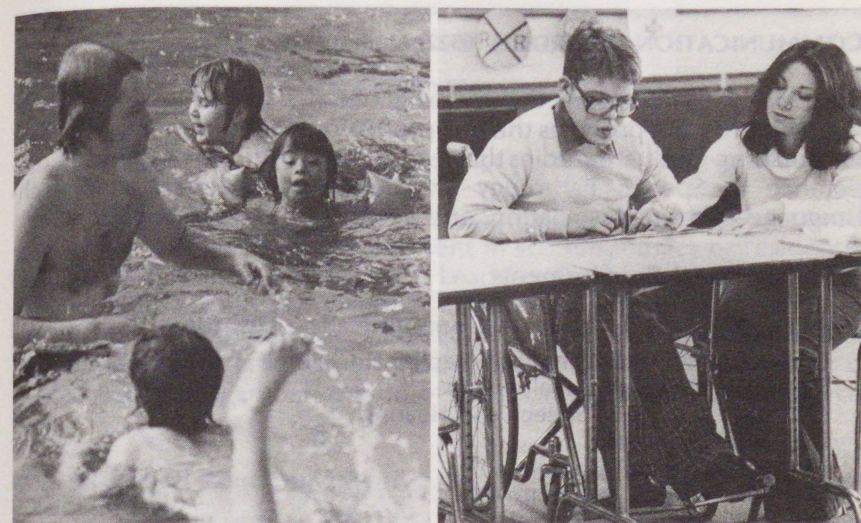
(Continued p. 114)

ENGLISH—Secondary Education (0610) continued**Total required credit hours in Professional Education** 24

- EDU 303 Educational Psychology
 EDU 353 Human Development During Adolescence
 EDU 416 Teaching Reading in the Secondary School
 ENG 462 Methods & Materials in Teaching Secondary School English
 ENG 464 Student Teaching in Secondary School English

ADMISSION REQUIREMENTS TO THE PROFESSIONAL EDUCATION BLOCK

2.00 grade point average in General-Liberal courses
 2.50 grade point average with no grade below "C" in English courses
 A pass grade on a competency test of written literacy. The test will be offered each semester. Test dates are available in the English Department Office.
 To Student Teaching: 2.50 grade point average in the Professional Education Block with no grade below "C".

Electives 1**Physical Education** 2**TOTAL REQUIREMENTS** 123**EXCEPTIONAL CHILDREN EDUCATION**

Offered by the Department of Exceptional Children Education
 DR. WARREN L. GLECKEL, Chairperson/Ketchum Hall 201/878-5611

A Bachelor of Science in Education degree is granted with four distinct curricula:

- | | |
|---------------------------------|--------------------|
| Communications Disorders | Mental Retardation |
| Learning & Behavioral Disorders | Physical Handicap |

Limitations of space and facilities may necessitate limiting the number of students enrolled.

COMMUNICATION DISORDERS (0322)

Students who complete this program qualify to receive both the degree and a certificate of qualification to serve as teachers of the speech and hearing handicapped in the public schools of New York in grades nursery school through twelve. They qualify for Permanent Certification after

(Continued p. 116)

COMMUNICATION DISORDERS (0322) continued

completion of a Master's degree program.

This program provides the pre-professional requirements necessary for pursuing graduate studies that lead to the Certificate of Clinical Competence in Speech Pathology awarded by the American Speech-Language-Hearing Association, and licensure by the state of New York.

General-Liberal Requirements 60**Total required credit hours in Communication Disorders** 48

EXE 300	Nature & Needs of Exceptional Children
EXE 303	Language Development
EXE 304	Science of Speech and Hearing
EXE 305	Phonetics
EXE 306	Speech Pathology I
EXE 307	Speech Pathology II
EXE 402	Clinical Procedures
EXE 405	Practicum in Speech & Hearing
EXE 411	Language Diagnosis
EXE 414	Introduction to Audiology
EXE 415	Speech Reading & Auditory Training
EXE 416	Stuttering
EXE 424	Organization & Administration
EXE 429	Clinical Activity

Electives Selected by Advisement 7

EXE 314	Psychology of Exceptional Children
EXE 420	Speech Problems of Children
ENG 470	Foundations of Language
ENG 477	Introduction to Semantics
PHY 103	Understanding Sound
PSY 101	Introduction to Psychology
PSY 206	Statistics in Psychological Research

Total required credit hours in Professional Education 6

EDU 210	Introduction to Human Development
EDU 350	Human Development — Early Childhood
or	
EDU 351	Human Development — Elementary School Years
or	
EDU 352	Human Development — Pre-adolescent and Adolescent

Physical Education 2**TOTAL REQUIREMENTS** 123**LEARNING and
BEHAVIORAL DISORDERS (0324)**

The program in Learning and Behavioral Disorders is designed to prepare teachers for professional employment in schools, clinics or residential agencies, with children classified as Learning Disabled, Emotionally Disturbed, Educationally Handicapped or similar designations upon completion of the competencies evaluated in the program, graduates will be recommended for certification in the State of New York as Teacher of Special Education, and an option of certification in Elementary Education.

General-Liberal Requirements 60**Total required credit hours in Learning and Behavioral Disorders** 27

EXE 300	Nature and Needs of Exceptional Children	3
EXE 310	Learning and Behavioral Disorders of Children	6
EXE 313	Observation-Participation with the Learning and Behaviorally Disordered	6
EXE 403	Mental and Educational Measurement	3
EXE 409	Curriculum Practices for Learning and Behaviorally Disordered Children	3
EXE 430	Practicum in Teaching Children with Learning and Behavioral Disorders	6

Total required credit hours in Professional Education 27

EDU 201	School and Society	3
EDU 210	Introduction to Human Development	3
EDU 301	Teaching Science, Social Studies and Math	6
EDU 314	Teaching Reading and Language Arts	6
EDU 350	Human Development During Early Childhood	
or		
EDU 351	Human Development During Middle Childhood	3
or		
EDU 352	Human Development During Pre- and Early Adolescence	
EDU 404	Practicum in Elementary School Teaching	6

Electives 7**Physical Education** 2**TOTAL REQUIREMENTS** 123

MENTAL RETARDATION (0310)

The Mental Retardation Program prepares students to teach individuals who are mildly or moderately mentally retarded or who are severely and profoundly handicapped. Students may elect to complete the single certification option for provisional certification in Special Education or may complete requirements for provisional certification in both Special Education and Elementary Education. Upon graduation, graduates in Mental Retardation assume teaching positions in classes for retarded students in public and private schools and in residential settings.

General-Liberal Requirements	60
Total required credit hours in Mental Retardation	30
EXE 300 Nature and Needs of Exceptional Children	3
EXE 301 Observation-Participation in Mental Retardation	6
EXE 302 Introduction to Mental Retardation	3
EXE 345 Community Service	3
EXE 403 Mental and Educational Measurements	3
EXE 404 Curriculum Practices for the Mentally Retarded	3
EXE 418 Practicum in Mental Retardation	6
IAE 305 Creative Arts for Individuals with Special Needs	
or	
DES 191 Workshop in Crafts	3
Total required credit hours in Professional Education	24
EDU 201 School and Society	3
EDU 210 Introduction to Human Development	3
EDU 305* The Child and Curriculum	3
EDU 314 Teaching Reading and Language Arts	6
EDU 350 Human Development During Early Childhood	
or	
EDU 351 Human Development During Middle Childhood	3
or	
EDU 352 Human Development During Pre- and Early Adolescence	
EDU 404 Practicum in Elementary Education	6
Electives**	7
Physical Education	2
TOTAL REQUIREMENTS	123

*Students seeking certification in both Special Education and Elementary Education should complete EDU 301, Teaching Social Studies, Science and Math (6 cr. hrs.) in lieu of EDU 305.

**Elective credit reduced to four (4 cr. hrs.) for dual certification majors.

PHYSICAL HANDICAP (0320)

The Physical Handicap Program prepares students to teach physically and neurologically impaired individuals who may also be mentally retarded or have associated learning problems. Upon graduation, students will be recommended for provisional certification in Special Education and may elect to complete requirements for Elementary Education certification as well. Typically, graduates in Physical Handicap assume teaching positions in public and private schools, and positions as itinerant teachers for hospitalized and home-bound students.

General-Liberal Requirements	60
Total required credit hours in Physical Handicap	33
EXE 300 Nature and Needs of Exceptional Children	3
EXE 302 Introduction to Mental Retardation	3
EXE 311 Observation-Participation with the Physically Handicapped	6
EXE 345 Community Service	3
EXE 403 Mental and Educational Measurements	3
EXE 404 Curriculum Practices for the Mentally Retarded	3
EXE 417 Curriculum Practices for the Physically Handicapped	3
EXE 421 Practicum in Physical Handicap	6
IAE 305 Creative Arts for Individuals with Special Needs	
or	
DES 191 Workshop in Crafts I	3
Total required credit hours in Professional Education	27
EDU 201 School and Society	3
EDU 210 Introduction to Human Development	3
EDU 305* The Child and Curriculum	3
EDU 314 Teaching Reading and Language Arts	6
EDU 350 Human Development During Early Childhood	
or	
EDU 351 Human Development During Middle Childhood	
or	
EDU 352 Human Development During Pre- and Early Adolescence	3
EDU 404 Practicum in Elementary Education	6
Electives**	4
Physical Education	2
TOTAL REQUIREMENTS	123

*Students seeking certification in both Special Education and Elementary Education should complete EDU 301, Teaching Social Studies, Science and Math (6 cr. hrs.) in lieu of EDU 305.

**Elective credit reduced to one (1 cr. hr.) for dual certification majors.



FINE ARTS

Offered by the Department of Fine Arts
 DR. FRANCIS R. KOWSKY, Chairperson/Upton Hall 315G/878-6014
Bachelor of Fine Arts degree granted

The B.F.A. Program has majors in Painting, Photography, Printmaking, or Sculpture. All freshmen and transfer students enter the program in the uncommitted major 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 their first semester in the program.

The application for a major is the most critical evaluation in the program. Eligibility will be determined by a three-member faculty com-

mittee on the basis of an interview with the student and a review of his portfolio.

Each B.F.A. student will be required to mount an individual exhibition of his work as part of the program requirements. It will be planned and installed with the advice and assistance of his faculty advisor, but no grade will be assigned.

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-Liberal Requirements	36
Total required credit hours in Fine Arts	72
A. REQUIRED COURSES	39
FAR 101 Drawing I	
FAR 102 Drawing II	
FAR 103 Modeling	
FAR 210 Introduction to Painting	
FAR 220 Introduction to Photography	
FAR 230 Introduction to Printmaking	
FAR 240 Introduction to Sculpture	
FAR 250 Art History I	
FAR 251 Art History II	
FAR 463 20th Century Art	
Two Art History Electives	
FAR 470 Senior Seminar in Fine Arts	
B. MAJOR FIELD	21
Intermediate I	
Intermediate II	
Three Advanced	
Senior Studio	
C. ART ELECTIVES	12
Electives	13
Physical Education	2
TOTAL REQUIREMENTS	123

FOOD SYSTEMS MANAGEMENT (0432)

Offered by the Department of Nutrition and Food Science
DR. DENNIS K. PONTON, Chairperson/Caudell Hall 106A/878-5913

Bachelor of Science in Special Studies degree granted

The Food Systems Management curriculum prepares the graduate for management positions in various aspects of the food service industry. Career opportunities exist in health facilities, hospitality organizations and with business, industrial and educational agencies. The curriculum includes both theoretical exposure and practical experience in food systems.

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

General-Liberal Requirements 60

Total required credit hours in Food Systems Management 31

A. REQUIRED COURSES 28

- NFS 101 Introductory Food
- NFS 305 Advanced Food
- NFS 334 Contemporary Nutrition
- NFS 361 Principles of Management in Food Service
- NFS 363 Quantity Food Production
- NFS 467 Purchasing and Food Cost Accounting
- NFS 468 Operational Systems in Management
- NFS 469 Institutional Organization and Management
- NFS 470 The Laws of Innkeepers in Food Service

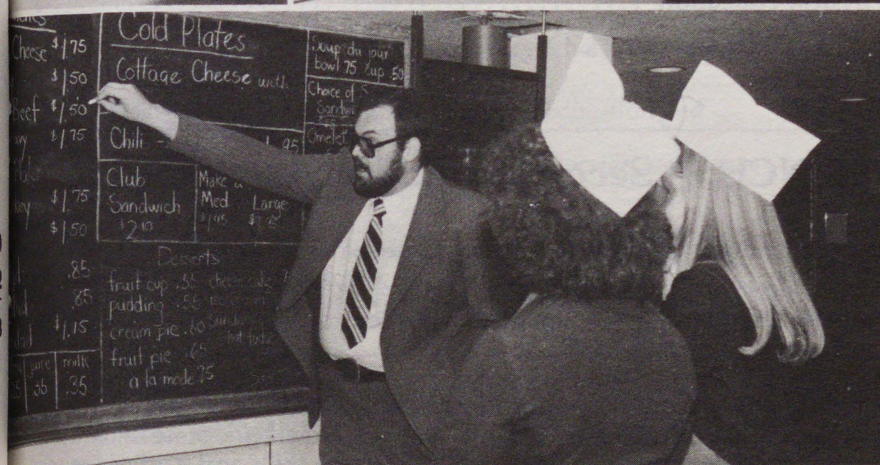
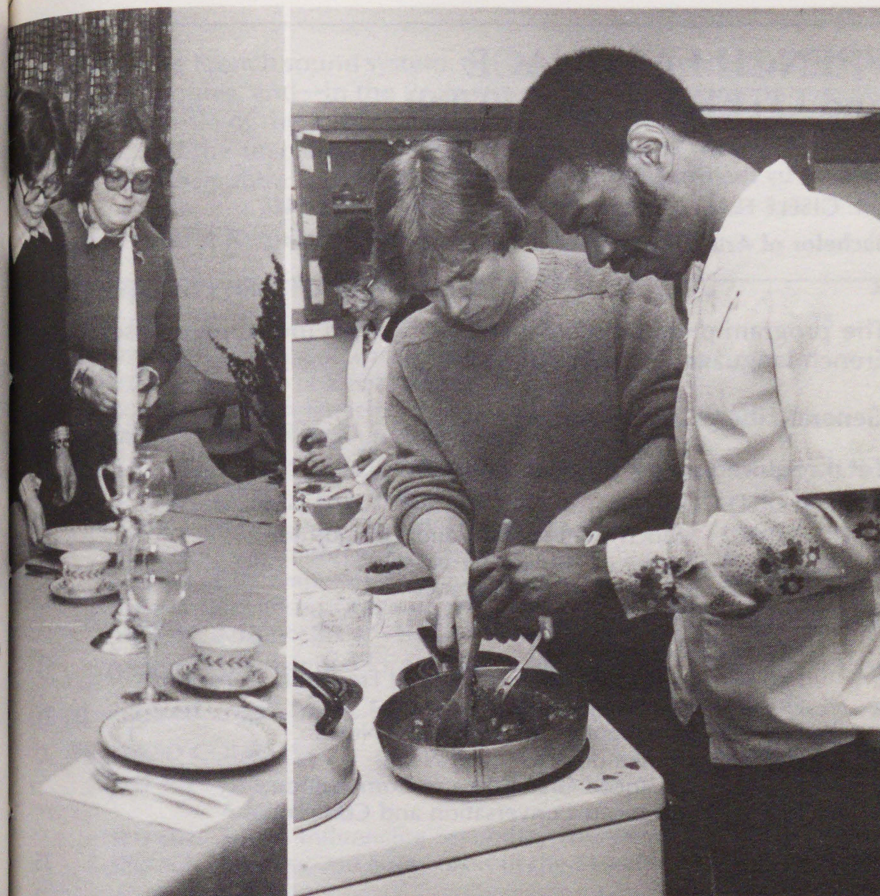
B. FIELD EXPERIENCE 3

C. A MINIMUM OF TWELVE CREDITS IN THE MAJOR MUST BE COMPLETED IN THE DEPARTMENT

Electives 30

Physical Education 2

TOTAL REQUIREMENTS 123



FRENCH LANGUAGE and LITERATURE (0709)

Offered by the Department of Foreign Language
DR. GISELE FEAL, Chairperson/Bishop Hall 120/878-5414

Bachelor of Arts degree granted

The program provides a balanced curriculum including courses in the French language, literature and culture.

General-Liberal Requirements	60
Total required credit hours in French	36
A. REQUIRED COURSES	15
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
FRE 305 Spoken French	
FRE 331 Contemporary Literature of France 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	
Electives	25
Physical Education	2
TOTAL REQUIREMENTS	123

FRENCH — Secondary Education (9651)

Offered by the Department of Foreign Language
DR. GISELE FEAL, Chairperson/Bishop Hall 120/878-5414

Bachelor of Science (Education) degree granted

The French — Secondary Education program enables a student to earn provisional certification to teach French in New York State secondary schools. The student develops French language skills and studies French

structure, the French sound system, 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-Liberal Requirements	60
Total required credit hours in French	30
A. REQUIRED COURSES	18
FRE 301-302 French Conversation and Composition	
FRE 307-308 Survey of French Literature	
FRE 305 Spoken French	
FRE 306 The Civilization of France	
B. ELECTIVES SELECTED BY ADVISEMENT	12
FRE 401 Classical French Theater	
FRE 403 Nineteenth Century French Novel	
FRE 404 Contemporary French Novel	
FRE 408 Contemporary French Theater	
*FRE 415 Advanced Grammar and Composition	
*FRE 416 Advanced Conversation and Composition	
*(Highly recommended for teaching majors)	
Total required credit hours in Professional Education	27
A. REQUIRED COURSES	12
SED 303 Educational Psychology for Teachers of Adolescents	
SED 304 Forces Influencing Secondary Education	
SED 305 Reading and Study Skills in the Secondary Classroom	
SED/FLE 410 Methods and Materials for Teaching Foreign Languages in the Secondary Schools	
B. FIELD EXPERIENCE	15
SED 250 Field Experience: Secondary Education and Related Careers	
SED/FLE 413 Practicum in the Teaching of Foreign Languages in the Secondary Schools	

Note:

1. FLE 210 Field Experiences in Foreign Language Education may be substituted for SED 250.
2. SED 250 or FLE 210, SED 303, and SED 305 are prerequisites for FLE 413.

Electives	4
Physical Education	2
TOTAL REQUIREMENTS	123

GEOGRAPHY (0715)

Offered by the Department of Geography & Sociology
 DR. RAYMOND W. WAXMONSKY, Chairperson
 Classroom Building A-213/878-6216

Bachelor of Arts degree granted

Geography at Buffalo State is designed to provide the student with a basic foundation of the discipline while allowing the student to focus upon 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.

General-Liberal Requirements 60**Total required credit hours in Geography** 30**A. REQUIRED COURSES** 12

- 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

- GEG 107 Resources and Man
- GEG 303 World Climatology
- GEG 307 Conservation
- GEG 415 Seminar, physical geography or conservation

Track 2 — Historical/Cultural Geography 9

- GEG 309 Introduction to Urban Geography
- GEG 320 Historical Geography of the United States
- GEG 415 Seminar, Historical/Cultural Geography

Track 3 — Urban/Economic Geography 9

- GEG 305 Principles in Economic Geography
- GEG 309 Introduction to Urban Geography
- GEG 308 Agricultural Geography
or
- GEG 409 Geography of Manufacturing

B. GEOGRAPHY ELECTIVES SELECTED BY ADVISEMENT 6 or 9**Track 1 — Physical Geography/Conservation** 6

- Three hours of regional geography
- Three hours of any remaining geography courses

Track 2 — Historical/Cultural Geography 9

- Three hours of regional geography
- Six hours of remaining geography courses

Track 3 — Urban/Economic Geography 9

- Three hours of regional geography
- Six hours of remaining geography courses

Total required credit hours outside of major 15**Track 1 — Physical Geography/Conservation** 3

One of the following:

- GES 370 Geomorphology
- PSY 370 Environmental Psychology 1
- BIO 403 Economic Biology and Conservation

Track 2 — Historical/Cultural Geography 3

One of the following:

- HIS 213 History of Cities in Western Civilization
- ANT 307 Urban Anthropology
- PSY 370 Environmental Psychology 1
- SOC 310 Sociology of Human Ecology

Track 3 — Urban/Economic Geography 3

One of the following:

- ECO 305 Statistics for Economics
- MAT 120 Elementary Mathematic Models
- ISM 111 Introduction to Computer Science

Foreign Language Requirement 12**Electives** 16**Physical Education** 2**TOTAL REQUIREMENTS** 123

GEOLOGY (0727)

Offered by the Department of Geosciences, Physics
and Interdisciplinary Sciences

DR. ROBERT E. HORVAT, Chairperson/Science Building 271/878-6731

Bachelor of Arts degree granted

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

General-Liberal Requirements 60

Total required credit hours in Geology 40-42

A. REQUIRED COURSES 19-21

GES 101 Introductory Geology

or

GES 122 Principles of Earth Science
and

GES 102 Historical Geology

GES 103 Introductory Geology Lab

GES 302 Invertebrate Paleontology

GES 304 The Common Rocks and Minerals

Two semesters of Physics

B. ELECTIVES SELECTED BY ADVISEMENT 19-21

Credit will be allowed for any course in geology, astronomy, oceanography or atmospheric science; however, the following courses are strongly recommended for students considering employment as a geologist, or planning graduate work in geology.

GES 301 Stratigraphy

GES 307 Geomorphology

GES 308 Structural Geology

GES 401 Ingenious and Metamorphic Petrology

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

Electives 19-21

Physical Education 2

TOTAL REQUIREMENTS 123

GEOSCIENCES (0737)

Offered by the Department of Geosciences, Physics
and Interdisciplinary Sciences

DR. ROBERT E. HORVAT, Chairperson/Science Building 271/878-6731

Bachelor of Science degree granted

The Geosciences program offers the opportunity to develop a broad understanding of the earth as a dynamic system involving interactions between land, sea, atmosphere and the celestial environment. Classroom, laboratory and fieldwork provide a base for careers related to the environment or for teaching Earth Science in the Secondary schools. (See special requirements for teaching under Earth Science: Secondary Education.)

General-Liberal Requirements 60

Total required credit hours in Geosciences 37

A. REQUIRED COURSES 28

GES 101 Introductory Geology

or

GES 122 Principles of Earth Science
and

GES 102 Historical Geology

GES 103 Introductory Geology Lab

GES 131 Introduction to Astronomy
Astronomy Elective

SCI 211 Oceanography

GES 241 Meteorology

GES 302 Invertebrate Paleontology

GES 304 The Common Rocks and Minerals

GES 307 Geomorphology

B. ELECTIVES SELECTED BY ADVISEMENT 9

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

Electives 24

Physical Education 2

TOTAL REQUIREMENTS 123

GERMAN LANGUAGE and LITERATURE (0710)

Offered by the Department of Foreign Language
DR. GISELE FEAL, Chairperson/Bishop Hall 120/878-5414

Bachelor of Arts degree granted

The program aids the student in attaining a reasonable degree of competence in all aspects of the German language and exposes the student to a broad corpus of knowledge concerning the history, literature and other cultural and intellectual achievements of the German-speaking peoples.

Admission Requirements: Although there are no admission requirements, the following points should be noted:

- a) the student should ideally have had at least two years of German language study on the high school level.
- b) the student should be advised that it may be necessary to cross-register at other local institutions for some upper-level courses.
- c) upper-level courses are frequently given as Independent Study.



General-Liberal Requirements	60
Total required credit hours in German	36
A. REQUIRED COURSES	27
GER 201-202 Intermediate German	
GER 301-302 German Composition and Conversation	
GER 306 German Civilization	
GER 307-308 History of German Literature	
GER 450-451 Directed Readings	
B. ELECTIVES SELECTED BY ADVISEMENT	9
GER 303 The German Novelle	
GER 304 Introduction to German Drama	
GER 305 Spoken German (required of secondary school teacher candidates)	
GER 337 Cultural and Intellectual Trends as reflected in Modern German Literature	
Total required credit hours outside of major	15
ENG 102 Composition and Literature	
ENG 110 English Literature: special topics	
ENG 111 English Literature II: selected topics	
ENG 140 American Literature: selected topics	
or	
ENG 141 American Literature II: selected topics	
ENG 315 Shakespeare I	
or	
ENG 316 Shakespeare II	
ENG 470 Foundations of Language	
HIS 115 Foundations of Western Civilization	
Electives	10
(Note: if required courses under outside of major are used to fulfill General-Liberal requirements, there would remain 25 hours of free electives.)	
Physical Education	2
TOTAL REQUIREMENTS	123

HISTORY (0716)

Offered by the Department of History and Social Studies Education
DR. DONALD D. LEOPARD, Chairperson/Classroom Building C205/878-5412

Bachelor of Arts degree granted

General-Liberal 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

HOME ECONOMICS EDUCATION (0400)

Offered by the Department of Consumer Studies and Home Economics
DR. SARAH L. MANNING, Chairperson/Caudell Hall 206/878-5704

Bachelor of Science degree granted

The Home Economics Education Program prepares students to teach Home Economics in Grades 1-12 and in Adult Education Programs in New York State. A B.S. Degree in home economics education provides an excellent background for various types of employment in addition to teaching. Graduates have become employed in boards of cooperative educational services, government, business and industry, cooperative extension, development and demonstration of educational materials, working with people having special needs and international work.

General-Liberal Requirements	60
Total required credit hours in Home Economics Education	39
Major Field — Home Economics	
REQUIRED COURSES	33
CFS 107 Introductory Clothing	
CFS 230 Family Health and Home Nursing	
CFS 302 Household Equipment	
CFS 306 Textile Science	
CFS 325 Management and Family Finance	
CFS 331 Housing the Family	
CFS 308 Human Development and Family Relations — Adolescent Years through Young Adulthood	
EDU 210 Introduction to Human Development	
NFS 101 Introductory Foods	
NFS 335 Human Nutrition	
CFS 307 Clothing—Design and Construction	
or	
NFS 305 Advanced Foods	
ELECTIVES SELECTED BY ADVISEMENT	6
Select 6 credit hours within CFS, NFS	
Total required credit hours in Professional Education	21
REQUIRED COURSES	18
EDU 303 Educational Psychology	
HEE 460 Professional Semester	
HEE 461 Professional Semester	
HEE 462 Professional Semester	
ELECTIVES SELECTED BY ADVISEMENT	3
Select one course from the following:	
HEE 317 Dimensions of Home Economics	
HEE 417 Home Economics in the Urban Setting	
HEE 424 Adult Experiences in Home Economics	
Electives	1
Physical Education	2
TOTAL REQUIREMENTS	123

INDUSTRIAL ARTS EDUCATION (0500)

Offered by the Department of Industrial Arts and Vocational Education
DR. EMIL H. HOCH, Chairperson/Upton Hall 314/878-6017

Bachelor of Science (Education) degree granted

The Industrial Arts Education program prepares teachers to teach industrial arts subjects in the public and private schools of New York State. Graduates are certified to teach in grades K-12. The program provides both a theoretical and a practical approach to the study of industrial technology as the means for producing a better man-made world.

General-Liberal Requirements 60

Total required credit hours in Industrial Arts Education 61

A. BASIC TECHNICAL LABORATORIES: (Students entering as Freshmen) 27

IAE 102	Forest Products Technology	3
IAE 103	Technical Drawing	3
IAE 104	Technical Drawing and Production Planning	3
IAE 106	Metal Technology	3
IAE 206	Introduction to the Ceramic Industries	3
IAE 208	Graphic Arts	3
IAE 301	Electronics	3
IAE 302	Power and Transportation	3
IAE 303	Plastics Technology	3

A. BASIC TECHNICAL LABORATORIES: (Students entering as Transfers) 27

IAE 301	Electronics	3
IAE 302	Power and Transportation	3
IAE 303	Plastics Technology	3
IAE 352	Forest Products Technology	3
IAE 353	Technical Drawing	3
IAE 354	Technical Drawing and Production Planning	3
IAE 356	Metal Technology	3
IAE 358	Graphic Arts	3
IAE 366	Introduction to Ceramic Industries	3

B. PROFESSIONAL REQUIREMENTS: All Students 21

EDU 303	Educational Psychology	3
IAE 300	Introduction to Industrial Arts Education	3
IAE 414	Professional Semester	15

C. ADVANCED TECHNICAL ELECTIVES 13

Physical Education 2

TOTAL REQUIREMENTS 123

INDUSTRIAL TECHNOLOGY (0810)

Offered by the Department of Technology
DR. MYRON E. LEWIS, Chairperson/Upton Hall 502/878-4431

Bachelor of Science degree granted

The Industrial Technology Program prepares graduates 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.

Placement of the graduates of this program is excellent. Their position titles include industrial engineering, quality control, production and management engineering, and technical sales/marketing.

Special Admission Requirements: This program is primarily a transfer program for students with an A.A.S. in the technologies (electrical, mechanical, industrial, construction). Freshmen and sophomores are also admitted.

General-Liberal Requirements 60

Total required credit hours in Industrial Technology 42

TECHNICAL BREADTH

IAE 353	Technical Drawing	3
INT 201	Materials Processing	3
INT 311	Materials Science and Testing	3
INT 312	Production Planning and Control	3
INT 313	Statistical Quality Control	3
INT 314	Electro-Mechanics	3
INT 350	Graphic Communications	3
INT 351	Power-Energy-Mechanisms	3
INT 405	Manufacturing Technology	3

MANAGEMENT

INT 400	Marketing	3
INT 401	Management Science	3
INT 402	Human Factors Engineering	3
INT 403	Systems Analysis	3
SAF 430	Industrial Accident Prevention	3

Electives 19

Physical Education 2

TOTAL REQUIREMENTS 123

INFORMATION SYSTEMS MANAGEMENT (0825)

Offered by the Department of Technology
DR. MYRON E. LEWIS, Chairperson/Upton Hall 502/878-4431

Bachelor of Science degree granted

The Information Systems Management Program is designed to prepare people in the computer field, but more broadly than the traditional computer science program. The program is designed to satisfy an ever-increasing need for personnel with competencies to manage computer projects or centers, as well as data processing installations. Through careful cooperation with the employers of such personnel, this program has been developed to satisfy present and anticipated future manpower needs in the computer management field.

General-Liberal Requirements 60

Total required credit hours in Information Systems Management 42

A. REQUIRED COURSES 33

- | | |
|---------|--|
| ISM 111 | Introduction to Computer Science |
| ISM 212 | Assembly Language Programming |
| ISM 310 | Cobol Programming I |
| ISM 311 | Computer Programming & Operations Research |
| ISM 312 | Advanced Computer Applications |
| ISM 315 | Computer Organization I |
| ISM 370 | Systems Analysis |
| ISM 410 | Operating Systems |
| ISM 414 | Cobol Programming II |
| ISM 422 | Information Systems Analysis |
| ISM 460 | Operations Management |

B. ELECTIVES 9

- | | | | |
|---------|-----------------------|---------|-------------------|
| ISM 221 | Data Structures | ISM 435 | Computer Seminar |
| ISM 314 | Interactive Computing | ISM 470 | Communications |
| ISM 318 | Simulation | | Systems |
| | and Modeling | ISM 495 | Project |
| ISM 321 | Theory of Compilers | ISM 499 | Independent Study |
| ISM 411 | Data Base Processing | | |
| ISM 415 | Computer | | |
| | Organization II | | |

Electives 19

Physical Education 2

TOTAL REQUIREMENTS 123

ITALIAN LANGUAGE and LITERATURE (0711)

Offered by the Department of Foreign Language
DR. GISELE FEAL, Chairperson/Bishop Hall 120/878-5414

Bachelor of Arts degree granted

The program is designed to develop the student's ability to communicate in Italian and to introduce the student 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 (Education) programs.

General-Liberal Requirements 60

Total required credit hours in Italian 36

A. REQUIRED COURSES 18

- | | |
|-------------|--------------------------------------|
| 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

- | | |
|---------|---------------------------------------|
| 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 |
| ITA 451 | Directed Readings |
| ITA 499 | Independent Study |

Plus other courses in closely related fields or in languages
(6 hours maximum)

Electives 25

Physical Education 2

TOTAL REQUIREMENTS 123

JOURNALISM (0708)

Offered by the Department of Journalism, Broadcasting and Speech
DR. RONALD L. RABIN, Chairperson/Bishop Hall 234/878-6008

Bachelor of Arts degree granted

The Journalism program offers three emphases: news/editorial, public relations/advertising 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.

General-Liberal Requirements 60

Total required credit hours in Journalism 30

A. REQUIRED COURSES 21 or 24

- JBS 100 Introduction to Journalism
- JBS 101 Writing for the Media
- JBS 203 Writing for Publication
(not required for Broadcast News Writing emphasis)
- JBS 319 News Editing

Students will elect one two-course sequence:

- JBS 305 News Reporting
- JBS 415 Advanced Reporting (Internship)
or
- JBS 308 Public Relations/Advertising
- JBS 418 Principles of Publicity/Copywriting (Internship)
or
- JBS 328 Radio Studio Operations, or
- JBS 329 Television Studio Operations, and
- JBS 337 Broadcast News Writing

Students will elect two courses from the following:

- JBS 400 Law of Mass Communication
- JBS 401 Communication Theory
- JBS 402 Visual and Oral Communication
- JBS 410 History of Mass Communication

B. ELECTIVES SELECTED BY ADVISEMENT 9 or 6

Students in broadcast news writing will select three, others two, courses from among the professional courses in the Department of JBS.

Electives 31

Physical Education 2

TOTAL REQUIREMENTS 123

MATHEMATICS (0719)

Offered by the Department of Mathematics
DR. ALWIN C. GREEN, Chairperson/Bishop Hall 309/878-5621

Bachelor of Science degree granted

The Mathematics-B.S. Program is directed toward specific career goals. A choice of teacher education, pure mathematics preparation for graduate school, and computer related industrial employment is offered. Specific sets of requirements are made for each choice in order to provide sharp preparation for that goal. In particular, the computer related mathematics program does offer opportunity of employment wherever a computer is found.

Special Admission Requirements: None; but it is recommended that the student has completed high school mathematics through trigonometry.

General-Liberal Requirements 60

Total required credit hours in Mathematics 39 or 41

REQUIRED COURSES FOR STUDENTS IN THE B.S. PROGRAM 18

- MAT 161 Analytic Geometry and Calculus I
- MAT 162 Analytic Geometry and Calculus II
- MAT 263 Analytic Geometry and Calculus III
- MAT 202 Introduction to Linear Algebra
- MAT 301 Introduction to Abstract Algebra

THERE ARE REQUIRED COURSES IN MATHEMATICS FOR EACH OPTION.

Total required credit hours of Mathematics in Teacher Preparation Option 41

REQUIRED COURSES 23

- MAT 181 Problem Solving I
- MAT 182 Problem Solving II
- MAT 322 Modern Geometry
- MAT 329 Projective Geometry
- MAT 351 Elementary Theory of Numbers
- MAT 381 Probability
either
- MAT 360 Introduction to Computational Mathematics
or
- MAT 382 Statistics

ELECTIVES IN MATHEMATICS (300-400 level) 6

(Continued p. 140)

MATHEMATICS (0719) continued**REQUIRED COURSES IN TEACHER EDUCATION OPTION ONLY .. 24**

either

EDU 303 Educational Psychology

EDU 353 Human Development During Adolescence

or

PSY 204 Psychology of Learning

PSY 355 Developmental Psychology

together with

EDU 403 Historical and Philosophical Forces Influencing
Secondary Education

MED 397 Methods in Teaching Secondary School Mathematics

MED 497 Professional Semester

**Total required credit hours of Mathematics in
Pure Mathematics Option 39****REQUIRED COURSES 21**

MAT 302 Introduction to Modern Algebra I

MAT 417 Introduction to Real Analysis I

MAT 418 Introduction to Real Analysis II

MAT 471 Topology

MAT 411 Introduction to Complex Variable

ELECTIVES IN MATHEMATICS (300-400 level) 6

Choose electives from the following list: MAT 315, 316, 329, 351,
381, 382, 431, 461**Total required credit hours of Mathematics in
Computational Mathematics Option 39****REQUIRED COURSES 21**

MAT 360 Introduction to Computational Mathematics

MAT 370 Applied Networks

MAT 381 Probability

MAT 382 Statistics

MAT 461 Numerical Analysis

ELECTIVES IN MATHEMATICS (300-400 level) 6

Choose electives from the following list: MAT 309, 315, 316, 366,
411, 417, 418, 435**Electives 0-19****Physical Education 2****TOTAL REQUIREMENTS 123****MATHEMATICS (0718)**

Offered by the Department of Mathematics

DR. ALWIN C. GREEN, Chairperson/Bishop Hall 309/878-5621

Bachelor of Arts degree granted

This program provides a breadth experience in classical areas of mathematics while allowing more student options among electives. This program is intended for the individual with mathematics interest and no specific career interest.

Special Admission Requirements: High school mathematics through trigonometry recommended.

General-Liberal Requirements 60**Total required credit hours in Mathematics 36****A. REQUIRED COURSES 21**

MAT 161 Analytic Geometry and Calculus I

MAT 162 Analytic Geometry and Calculus II

MAT 263 Analytic Geometry and Calculus III

MAT 202 Introduction to Linear Algebra

MAT 301 Introduction to Modern Algebra

MAT 417 Introduction to Real Analysis

B. ELECTIVES SELECTED BY ADVISEMENT 15

Fifteen hours of Mathematics selected from the following four groups with at least one course from each of the first three groups.

Group 1

MAT 315 Differential Equations

MAT 316 Intermediate Differential Equations

MAT 381 Probability

MAT 382 Statistics

MAT 411 Introduction to Complex Variables

MAT 418 Introduction to Real Analysis

MAT 461 Numerical Analysis

Group 2

MAT 302 Introduction to Modern Algebra II

MAT 351 Elementary Theory of Numbers

MAT 4-1 Mathematical Logic

MAT 435 Theory of Recursive Functions & Effective
Computability

(Continued p. 142)

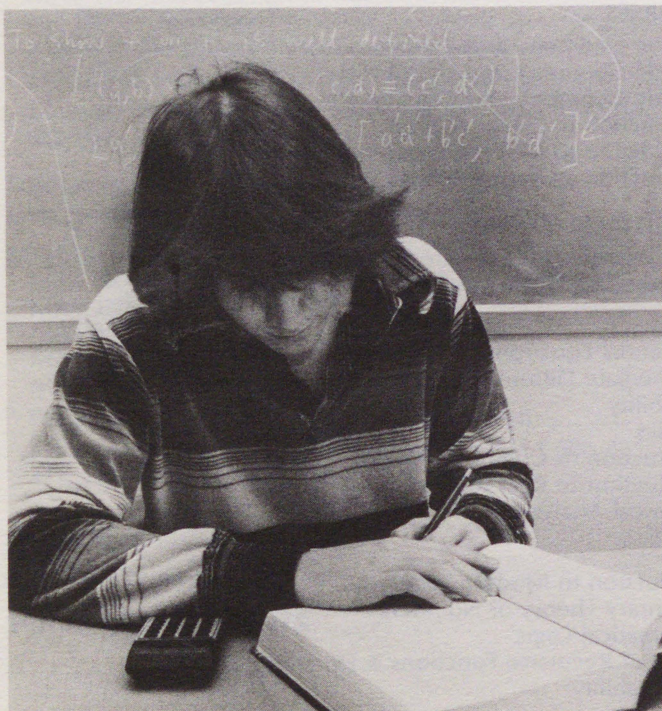
MATHEMATICS (0718) continued**Group 3**

- MAT 322 Modern Geometry
 MAT 329 Projective Geometry
 MAT 471 Topology

Group 4

- MAT 360 Introduction to Computational Mathematics
 MAT 366 Advanced Computational Mathematics
 MAT 370 Applied Networks
 MAT 490 Seminar
 MAT 495 Project
 MAT 499 Independent Study

Foreign Language Requirement	12
Electives	13
Physical Education	2
TOTAL REQUIREMENTS	123

**MUSIC (0125)**

Offered by the Department of Performing Arts

DR. JAMES F. MABRY, Chairperson/Albright Hall 201/878-6401

Bachelor of Arts degree granted

The Music program is a typical Liberal Arts program. Study centers upon the fundamentals of Theory, Music History and Performance. The students, with the help of advisement, may choose many areas for concentrated study.

General-Liberal Requirements	60
---	----

Total required credit hours in Music	42
---	----

A. REQUIRED COURSES 27

- MUS 302 Music History, Antiquity thru Baroque
 MUS 303 Music History, Classic & Romantic
 MUS 304 Music History, Twentieth Century
 MUS 311 Theory, Melody & 2-part Texture
 MUS 312 Theory, Harmony & Sonority
 MUS 315 Theory, Complex Textures in Tonal Music
 MUS 316 Theory, Resources in Composition & Analysis of
 20th Century Music

Applied Music — selected from Music 171-172, 173-174, 271-272,
 273-274, 371-372, 373-374, 471-472, 473-474.

B. MUSIC ELECTIVES SELECTED BY ADVISEMENT 15

Music Majors are required to achieve the 373-374 performance level in Applied Music for Graduation. Performance before a Faculty Jury is required each Semester.

Electives	19
------------------------	----

Physical Education	2
---------------------------------	---

TOTAL REQUIREMENTS	123
---------------------------------	-----

OFFICE ADMINISTRATION: Special Studies (0433)

Offered by the Department of Business Studies
DR. GREGORY W. GRAY, (Acting) Chairperson/Chase Hall 307/878-4239
Bachelor of Science in Special Studies degree granted

The Bachelor of Science in Special Studies—Office Administration is designed to prepare students for the ever-growing numbers of positions in office supervision, management and supervision. With the increased technological advances in the area of office management, it is estimated that a large number of trained office administrators will be needed in the near future to manage and operate such complex technical office procedures. The program provides the student with a basic core of business courses in a specialized area (e.g., supervision, office procedures). The program was developed to accommodate the needs of transfer students from community colleges and to provide flexibility in all students' programs. This is an excellent program for students holding the AAS Degree in Secretarial Science who wish to obtain a Bachelor's Degree. The degree provides flexibility so that students may develop programs designed to meet their individual needs.

General-Liberal Requirements	60
Total required credit hours in Office Administration	30
A. REQUIRED COURSES	21
ECO 201 Prin/Mac. Econ	BUS 334 Business Law
BUS 116 Intro/Business	BUS 423 Office Mgmt.
BUS 324 Bus. Comm.	BUS 429 Bus. Org. Mgmt.
BUS 325 Personnel Mgmt.	& Oper.
B. ELECTIVES SELECTED BY ADVISEMENT	9
BUS 301 Labor Relations	BUS 403 Buyer Behavior
BUS 312 Accounting I	CFS 310 Economics for Consumers
BUS 313 Accounting II	
C. FIELD EXPERIENCE/INTERNSHIP BY ADVISEMENT	0-12
Electives	19-31
Physical Education	2
TOTAL REQUIREMENTS	123

PHILOSOPHY (0720)

Offered by the Department of Philosophy and Religious Studies
DR. JAMES O. GRUENBAUM, Chairperson/Bishop Hall 217/878-5136
Bachelor of Arts degree granted

The Bachelor of Arts in Philosophy can be a foundation for a well-rounded liberal arts education and also as preparation for graduate study in philosophy, for law school, or other specialization requiring a liberal arts background.

General-Liberal Requirements	60
Total required credit hours in Philosophy	27
A. REQUIRED COURSES	9
PHI 207 Elementary Symbolic Logic	
PHI 317 History of Philosophy I	
PHI 318 History of Philosophy II	
B. ELECTIVES IN MAJOR FIELD	18
PHI 101 Introduction to Philosophy	
PHI 102 Introduction to Social and Moral	
PHI 103 Introduction to Logic	
PHI 104 Introduction to Religious Studies	
PHI 105 Introduction to Christian Thought	
PHI 120 Biblical Foundations of Jewish Philosophy	
PHI 121 Introduction to Jewish Thought	
PHI 202 Modern Jewish Philosophy	
PHI 204 Philosophy of Religion	
PHI 205 Mysticism	
PHI 207 Philosophy in Literature	
PHI 210 Existentialism	
PHI 220 Development of Jewish Religious Thought	
PHI 221 Bible and Jewish Thought	
PHI 300 Problems of Philosophy	
PHI 301 Social and Political Philosophy	
PHI 302 Philosophy of Art & Beauty	
PHI 303 Justice & Criminal Justice	
PHI 304 Philosophy of Law	
PHI 305 Philosophy of Language I	
PHI 306 Philosophy of Language II	
PHI 308 Philosophy of Love and Sex	
PHI 309 Philosophy of Science	
PHI 310 Phenomenology and Existentialism	

(Continued p. 146)

PHILOSOPHY (0720) continued

PHI 311	Philosophy of Democracy,
PHI 312	Metaphysics
PHI 313	Epistemology
PHI 315	Early Modern Philosophy
PHI 316	Existential Philosophy and Contemporary Psychology
PHI 319	Figures in Early Christian Philosophy
PHI 320	Contemporary Developments of Early Christian Philosophy
PHI 321	World Religions
PHI 322	Indian Philosophy
PHI 323	Ethics
PHI 324	Chinese & Japanese Philosophy
PHI 325	Philosophy of Future Man
PHI 330	20th Century Jewish Philosophy
PHI 331	Moral and Social Problems of Judaism
PHI 401	Problem Seminar
PHI 402	Seminar
PHI 495	Project
PHI 499	Independent Study

Electives	21-33
Foreign Language	0-12
Physical Education	2
TOTAL REQUIREMENTS	123

**PHYSICS (0728)**

Offered by the Department of Geosciences, Physics
and Interdisciplinary Sciences

DR. ROBERT E. HORVAT, Chairperson/Science Building 271/878-6731

Bachelor of Arts degree granted

The B.A. in Physics provides a moderate concentration in physics courses
and a broad distribution in liberal arts.

General-Liberal Requirements **60**

Total required credit hours in Physics **35**

A. REQUIRED COURSES **32**

PHY 111-112	General Physics (or equivalent)
PHY 305	Modern Atomic Physics
PHY 420	Introduction to Theoretical Physics I
PHY 425	Classical Mechanics
PHY 410	Advanced Physics Laboratory
PHY 430	Electricity and Magnetism
PHY 406	Introduction to Quantum Mechanics

B. ELECTIVES SELECTED BY ADVISEMENT **3**

PHY 201	Electronics
PHY 303	Heat and Thermodynamics
PHY 308	Optics
PHY 403	X-rays
PHY 408	Nuclear Physics
PHY 410	Advanced Physics Laboratory
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 **12**

MAT 161	Analytic Geometry and Calculus I
MAT 162	Analytic Geometry and Calculus II
MAT 263	Analytic Geometry and Calculus III

Electives **14**

Foreign Language requirement **0-12**

Physical Education **2**

TOTAL REQUIREMENTS **123**

PHYSICS (0778)

Offered by the Department of Geosciences, Physics and Interdisciplinary Sciences

DR. ROBERT E. HORVAT, Chairperson/New Science 271/878-6731

Bachelor of Science degree granted

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 either case, the field may be either physics or physics-related.

General-Liberal Requirements	60
Total required credit hours in Physics	41
A. REQUIRED COURSES	38
PHY 111-112 General Physics	
PHY 303 Heat and Thermodynamics	
PHY 305 Modern Atomic Physics	
PHY 308 Optics	
PHY 410 Advanced Physics Laboratory	
PHY 420 Introduction to Theoretical Physics	
PHY 425 Classical Mechanics	
PHY 430 Electricity and Magnetism	
PHY 406 Introduction to Quantum Physics	
B. ELECTIVES IN PHYSICS	3
Total required credit hours outside of major	15
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	
Electives	5
Physical Education	2
TOTAL REQUIREMENTS	123

PHYSICS — Secondary Education (0634)

Offered by the Department of Geosciences, Physics and Interdisciplinary Sciences

DR. ROBERT E. HORVAT, Chairperson/Science Building 271/878-6731

Bachelor of Science (Secondary Education) granted

The Secondary Education physics program leads to a provisional New York State Certification for teaching both physics and general science in grades 7-12.

General-Liberal Requirements	60
Total required credit hours in Physics	26
PHY 111-112 General Physics	
PHY 305 Modern Atomic Physics	
PHY 420 Introduction to Theoretical Physics	
PHY 425 Classical Mechanics	
PHY 420 Electricity and Magnetism	
PHY 410 Advanced Physics Lab	
Total required credit hours in Professional Education	24
SED 250 Field Experience: Secondary Education and Related Careers	
SED 303 Educational Psychology for Adolescents	
SED 304 Forces Influencing Secondary Education	
SED 305 Reading and Study Skills in the Secondary Classroom	
SED 308 Methods and Materials in Teaching Secondary School Science	
SED 408 Practicum in Teaching Science in the Secondary School	
Total required credit hours outside of major (some courses in this category must be credited under General-Liberal)	11
A. OUTSIDE MAJOR REQUIRED COURSES (12)	
MAT 161 Analytic Geometry and Calculus I	
MAT 162 Analytic Geometry and Calculus II	
MAT 263 Analytic Geometry and Calculus III	
B. REQUIRED FOR CERTIFICATION (18 MINIMUM)	
Two semesters of biology	
Two semesters of chemistry	
Two semesters of geoscience	
Physical Education	2
TOTAL REQUIREMENTS	123

"THREE-TWO" PHYSICS-ENGINEERING PROGRAM

Offered by the Department of Geosciences, Physics and Interdisciplinary Sciences

DR. ROBERT E. HORVAT, Chairperson/Science Building 271/878-6731

Bachelor of Science from SUCB, and a Bachelor of Science in Engineering from SUNYAB are granted upon completion of the five-year program.

This program offers an ideal combination of basic and applied science. A student in the Cooperative (3-2) Physics-Engineering Program attends the College for three years pursuing a liberal arts curriculum in Physics. After three years the student transfers to the Engineering School at SUNYAB and completes the requirements for an engineering degree in two more years.

Students electing this special program will complete all the requirements listed for the Physics (BS) program; see Department Chairman for additional information.

POLITICAL SCIENCE (0722)

Offered by Department of Economics and Political Science

DR. RICHARD J. KIEFFER, Chairperson/Classroom Building B218/878-6116

Bachelor of Arts degree granted

Political Science is the study of government and the political process at local, national, and international levels. This program offers preparation for a variety of career alternatives through study of such subjects as public administration, constitutional law, state and local government, international organization, public policy and practical politics. Students gain understanding of politics through a combination of on-campus study and such off-campus opportunities as internships in national, state or local government and the Washington Semester Program.

General-Liberal Requirements 60

Total required credit hours in Political Science 33

(18 of the 33 credits must be in 300 and 400 level courses)

A. REQUIRED COURSE 3
PSC 300 Political Analysis

B. DISTRIBUTION REQUIREMENTS

American Government and Politics 6

PSC 200 Urban Government
PSC 215 American Presidency
PSC 304 Public Administration
PSC 305 State & Local Government and Politics
PSC 306 American Politics and Political Parties
PSC 316 Development of American Constitutional Law
PSC 317 Civil Liberties and the U.S. Constitution
PSC 320 Legislative Politics
PSC 333 practical Politics
PSC 350 American Pqblc Policy
PSC 352 Welfare State U.S.A.
PSC 355 Urban Ethnic Politics
PSC 406 Political Behavior and Public Opinion
PSC 408 Contemporary Issues in American Constitutional Law

International Relations 3

PSC 201 Principles and Problems of International Relations
PSC 307 American Foreign Policy
PSC 314 International Relations of the Middle East

Comparative Government 3

PSC 210 European Political Systems
PSC 312 Politics of Developing Countries
PSC 313 History and Politics of the Middle East
PSC 315 Government and Politics of Sub-Sahara Africa
PSC 318 Government and Politics of the Far East

Political Theory and Philosophy 3

PSC 324 Introduction to Legal Thought
PSC 325 Political Thought: Plato to Aquinas
PSC 326 Political Thought: Machiavelli to Marx
PSC 333 Practical Politics
PSC 404 Contemporary Political Thought

C. GENERAL ELECTIVES IN POLITICAL SCIENCE 15

PSC 101 Introduction to Government and Politics
PSC 103 American Government and Politics
PSC 105 Great Political Issues
PSC 202 Topics in Political Science
PSC 335 Political Alienation
PSC 356 Politics of Energy
All PSC 303 courses
PSC 470 Honors Seminar
PSC 497 Washington Semester Program

Electives 28

Physical Education 2

TOTAL REQUIREMENTS 123

PSYCHOLOGY (0723)

Offered by the Department of Psychology
 DR. JERRY F. CATALDO, Chairperson/Classroom Building C312/878-6215
Bachelor of Arts degree granted

The B.A. student receives a general research-oriented background in the science of Psychology which will qualify him/her 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 in courses at all levels. The broad content areas represented include learning, perception, life-span development and old age, animal behavior, social processes, and normal and abnormal behavior.

General-Liberal Requirements	60
Total required credit hours in Psychology	33
A. REQUIRED COURSES	15
PSY 101 Introduction to Psychology	
PSY 206 Statistics in Psychological Research	
PSY 450 Experimental Psychology I	
PSY 451-458 Experimental Psychology II (choose one)	
PSY 472 Seminar on Psychology	
B. ELECTIVES SELECTED BY ADVISEMENT	18
TWO 400 level psychology courses excluding the above	
required courses and excluding 490-499	6
An additional 12 hours of Psychology must be taken, with no	
more than 6 hours from PSY 205, PSY 207, PSY 380-399,	
PSY 490-499	12
Electives	28
Physical Education	2
TOTAL REQUIREMENTS	123

PSYCHOLOGY (0724)

Offered by Department of Psychology
 DR. JERRY F. CATALDO, Chairperson/Classroom Building C312/878-6215
Bachelor of Science degree granted

A specialized B.S. Degree is offered in the following areas: a) Behavior Modification, b) Environmental Psychology, or c) Psychology of Aging. 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.

Special Admission Requirements: Formal enrollment in a Specialized B.S. degree program requires permission of the Psychology Department. The student must meet with the Department Chairperson and should not consider herself/himself enrolled without formal and written departmental approval.

General-Liberal Requirements	60
Total required credit hours in Psychology	36-39

Behavior Modification Specialty (36)

A. REQUIRED COURSES	36
PSY 101 Introduction to Psychology	
PSY 206 Statistics in Psychological Research	
PSY 450 Experimental Psychology I	
PSY 451-458 Experimental Psychology II (choose one)	
PSY 472 Seminar on Psychology	
PSY 304 Psychology of Learning	
PSY 310 Behavior Modification I	
PSY 311 Personality: Theory and Research	
PSY 410 Behavior Modification II	
PSY 411 Abnormal Psychology	
PSY 481 Psychological Tests and Measurements	
PSY 499 Independent Study	

B. ELECTIVES SELECTED BY ADVISEMENT

Additional courses from the Exceptional Education Department may be recommended depending on the specific interests of the student.

(Continued p. 154)

PSYCHOLOGY (0724) continued**Environmental Psychology Specialty (39)**

A. REQUIRED COURSES	24
PSY 101 Introduction to Psychology	
PSY 206 Statistics in Psychological Research	
PSY 450 Experimental Psychology I	
PSY 451-458 Experimental Psychology II (choose one)	
PSY 370 Environmental Psychology I	
PSY 470 Environmental Psychology II	
PSY 472 Seminar on Psychology	
PSY 499 Independent Study	
B. ELECTIVES SELECTED BY ADVISEMENT	15
At least two courses from the following:	6
PSY 304 Psychology of Learning	
PSY 308 Basic Concepts of Perception	
PSY 325 Social Behavior	
PSY 365 Industrial Psychology	
PSY 481 Psychological Tests and Measurements	
C. ELECTIVE COURSES IN DEPARTMENTS OUTSIDE PSYCHOLOGY	9

Psychology of Aging Specialty (36)

A. REQUIRED COURSES	30
PSY 101 Introduction to Psychology	
PSY 206 Statistics in Psychological Research	
PSY 450 Experimental Psychology I	
PSY 451-458 Experimental Psychology II (choose one)	
PSY 472 Seminar in Psychology	
PSY 311 Personality: Theory and Research	
PSY 327 Adult Development and Aging I	
PSY 327 Adult Development and Aging I	
PSY 355 Life-span Developmental Psychology	
PSY 427 Adult Developing and Aging II	
PSY 499 Independent Study	
B. ELECTIVES SELECTED BY ADVISEMENT	6
ONE additional 400 level psychology course	3
ONE additional psychology course except PSY 205, 207, 380-386, 388-399, and 490-499	3

Electives:

Behavior Modification Specialty	25
Environmental Psychology Specialty	22
Psychology of Aging Specialty	25
Physical Education	2
TOTAL REQUIREMENTS	123

HONORS IN PSYCHOLOGY

Offered by the Department of Psychology

DR. JERRY F. CATALDO, Chairperson/Classroom Building C312/878-6215

Bachelor of Arts with Honors or Bachelor of Science with Honors degree granted

Departmental Honors is for students who are performing unusually well in their courses. The Honors designation is an adjunct to either the B.A. or B.S. degrees 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 SUCB. (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 SUCB is also a requirement.

General-Liberal Requirements 60**Total required credit hours in Psychology:**

B.A. degree	36
B.S. degree	39
PLUS	
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 39-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 PSY 496 may be substituted where applicable, for an elective course.

Electives:

B.A. degree	25
B.S. degree	22
Physical Education	2
TOTAL REQUIREMENTS	123

SOCIAL SCIENCE (Interdisciplinary) (0729)

Offered by the Department of History and Social Studies Education
 DR. DONALD D. LEOPARD, Chairperson/Classroom Building C205/878-5412
Bachelor of Arts degree is granted

General-Liberal Requirements	60
Total required courses in Social Sciences	39
THREE courses from Afro-American Studies (only those courses with a S.S. designation), Anthropology, Criminal Justice, Economics, Geography, Political Science, Psychology, Social Studies, Sociology, or History other than American and European History	9
THREE additional courses at the upper division level in one of the above disciplines or in either European or American History to constitute an area of concentration	9
THREE upper division courses from the above disciplines outside the area of concentration	9
HISTORY—Two courses in American History	6
HISTORY—Two courses in European History	6
Courses must be selected to include SST 102, Problem Solving in the Social Studies, and a seminar in History or the Social Sciences.	
Foreign Language Requirement	0-12
Electives	13-25
Physical Education	2
TOTAL REQUIREMENTS	123

**SOCIAL STUDIES EDUCATION (0640)**

Offered by the Department of History and Social Studies Education
 DR. DONALD D. LEOPARD, Chairperson/Classroom Building C205/878-5412
Bachelor of Science degree is granted

The Social Studies Education Program prepares students for teaching positions at the junior and senior high school levels in the courses of history, geography, sociology, economics, etc., that make up the social studies curriculum. The program emphasizes both theoretical foundations and practical experiences.

Special Admission Requirements: Students should contact the Coordinator of Social Studies Education, G.A. McFarren, Room C215 New Classroom Building, 878-6139.

General-Liberal Requirements	60
Total required credit hours in Social Studies	36
THREE courses from Anthropology, Criminal Justice, Economics, Geography, Political Science, Psychology, Social Studies, Sociology or History other than American and European History	9
THREE additional courses at the upper division level in one of the above disciplines or in either European or American History to constitute an area of concentration	9
TWO upper division courses from the above disciplines outside the area of concentration	6
HISTORY—Two courses in American History	6
HISTORY—Two courses in European History	6
Courses must be selected to include SST 102, Problem Solving in the Social Studies; SST 200, Field Experiences in Secondary Social Studies, and seminar in History or the Social Sciences.	

Total required credit hours in Education	24
EDU 303 Educational Psychology	3
EDU 353 Human Development During Adolescence	3
SSE 309 Teaching Secondary School Social Studies	3
EDU 403 Historical and Philosophical Forces Influencing Secondary Education	3
SSE 409 Practicum in Teaching Social Studies in the Secondary School	12
Electives	0-24
Physical Education	2
TOTAL REQUIREMENTS	123

SOCIAL WORK (0435)

Offered by the Department of Community/Social Services and Criminal Justice
EDWARD L. MORGAN, Chairperson/Classroom Building C114/878-5705

Bachelor of Science degree granted

The Social Work Program prepares students for professional social work practice at the baccalaureate 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, interventive methods, research and field instruction.

Admission Requirements: The program is primarily upper division although students may apply earlier. G.P.A. of 2.5 and brief statement of career goals. Letters of reference may be requested.

General-Liberal Requirements 60

Total required credit hours in Community Social Services 42

REQUIRED COURSES

- CSS 105 Interpersonal Relations
- CSS 203 The Child and Family
- CSS 220 Introduction to Social Work
- CSS 309 The Adult in Contemporary Society
- CSS 317 Experimental Child and Family Studies
- CSS 319 Social Dynamics of Poverty
- CSS 320 Organization of Community Services
- CSS 422 Interventive Methods I
- CSS 423 Interventive Methods II
- CSS 419 Social Welfare Policy
- CSS 485 Senior Seminar
- CSS 490-493 Field Instruction — 9 hrs.

Electives 19

Physical Education 2

TOTAL REQUIREMENTS 123

SOCIOLOGY (0730)

Offered by the Department of Geography & Sociology
DR. RAYMOND W. WAXMONSKY, Chairperson
Classroom Building A 213/878-6216

Bachelor of Arts degree granted

Sociology is the study of human beings and their societies. The sociology program at SUCB 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 SUCB. The various subdivisions within the department are reflected in the several different concentrations which constitute sociology minors. For further information, contact the departmental office.

General-Liberal Requirements 60

Total required credit hours in Sociology 35

A. REQUIRED COURSES 17

- SOC 101 Introduction to Sociology 3
- SOC 305 Methods in Social Research 4
- SOC 306 Social Statistics 4
- SOC 403 Contemporary Sociological Theory or
- SOC 405 Foundations of Sociological Thought 3
- SOC 409 Seminar in Sociology 3

B. ELECTIVES WITHIN MAJOR PROGRAM 18

Any courses designated Sociology, as well as ANT 402—Cultural Anthropology, may be elected.

Foreign Language Requirement 12

Electives 14

Physical Education 2

TOTAL REQUIREMENTS 123

SPANISH LANGUAGE and LITERATURE (0714)

Offered by the Department of Foreign Language
DR. GISELE FEAL, Chairperson/Bishop Hall 120/878-5414

Bachelor of Arts degree granted

The program enables students to develop language skills and an appreciation of Hispanic literature and culture in the context of a broader study of the humanities. The required courses give the basic foundation; sufficient elective hours are available for the student to pursue other options such as another language, area studies and other related fields.

General-Liberal Requirements	60
Total required credit hours in Spanish	36
A. REQUIRED COURSES	15
SPA 301-302 Spanish Conversation and Composition	
SPA 307-308 Survey of Spanish Literature	
or	
SPA 310-311 Survey of Spanish-American Literature	
SPA 306 Civilization of Spain	
or	
SPA 309 Civilization of Latin America	
B. ELECTIVES SELECTED BY ADVISEMENT	21
Electives	25
Physical Education	2
TOTAL REQUIREMENTS	123



SPANISH—Secondary Education (0656)

Offered by the Department of Foreign Language
DR. GISELE FEAL, Chairperson/Bishop Hall 120/878-5414

Bachelor of Science (Education) degree granted

The Spanish — Secondary Education program enables a student to earn provisional certification to teach Spanish in New York State secondary schools. The student develops Spanish language skills and studies Spanish structure, the Spanish sound system, 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-Liberal Requirements	60
Total required credit hours in Spanish	30
A. REQUIRED COURSES	18
SPA 301 Spanish Composition and Conversation	
SPA 302 Spanish Composition and Conversation	
SPA 305 Spanish Phonetics	
SPA 306 The Civilization of Spain	
or	
SPA 309 The Civilization of Latin America	
SPA 307-8 Survey of Spanish Literature	
or	
SPA 310-11 Survey of Spanish American Literature	
(Note: all of the above are to be taken before student teaching)	
B. ELECTIVES SELECTED BY ADVISEMENT	12
(courses at 300-level or higher)	
Total required credit hours in Professional Education	27
A. REQUIRED COURSES	12
SED 303 Educational Psychology for Teachers of Adolescents	
SED 304 Forces Influencing Secondary Education	
SED 305 Reading and Study Skills in the Secondary Classroom	
SED 410/FLE 410 Methods and Materials for Teaching Foreign Languages in the Secondary Schools	

(Continued p. 162)

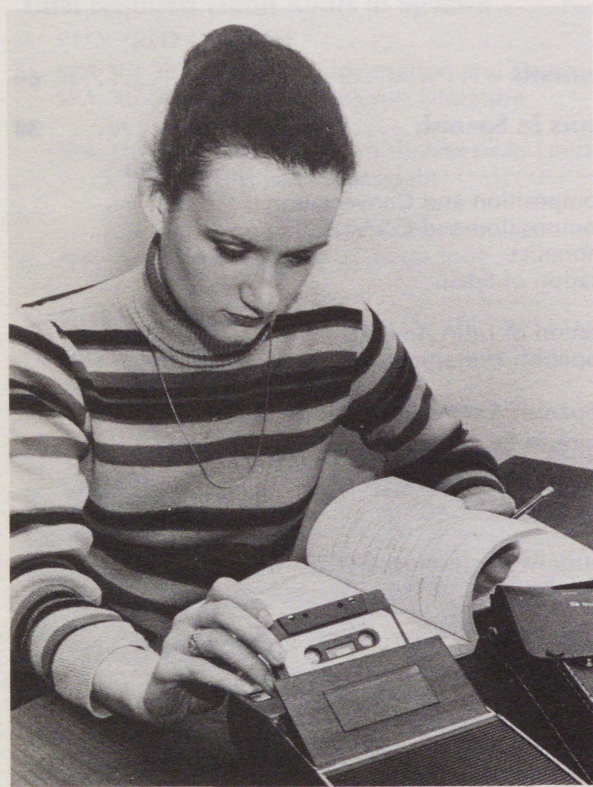
SPANISH—Secondary Education (0656) continued

B. FIELD EXPERIENCE	15
SED 250 Field Experience: Secondary Education and Related Careers	
SED 413/FLE 413 Practicum in the Teaching of Foreign Languages in the Secondary Schools	

NOTE:

1. FLE 210 Field Experiences in Foreign Language Education may be substituted for SED 250.
2. SED 250 or FLE 210, SED 303, and SED 305 are prerequisites for FLE 413.

Electives	4
Physical Education	2
TOTAL REQUIREMENTS	123

**SPEECH (0120)**

Offered by the Department of Journalism, Broadcasting and Speech
DR. RONALD L. RABIN, Chairperson/Bishop Hall 234/878-6008

Bachelor of Arts degree granted

The Speech program is of a traditional form which emphasizes performance and theory. This program provides training valuable to many professions and is traditional preparation for law school as well as graduate study in speech.

General-Liberal Requirements	60
---	----

Total required credit hours in Speech	27
--	----

A. REQUIRED COURSES	21
---------------------------	----

JBS 103	Introduction to Human Communication
JBS 205	Experiences in Speech
JBS 207	Public Speaking
JBS 209	Communication and Group Processes
JBS 309	Argumentation and Debate
JBS 320	Oral Interpretation of Literature
JBS 421	Rhetorical Theory

B. ELECTIVES SELECTED BY ADVISEMENT	6
Two courses selected from the Department of JBS	

Required credit hours in Theatre	3
(One course selected by advisement)	

Electives	31
------------------------	----

Physical Education	2
---------------------------------	---

TOTAL REQUIREMENTS	123
---------------------------------	-----

THEATRE (0115)

Offered by the Department of Performing Arts
DR. JAMES F. MABRY, Chairperson/Albright Hall 201/878-6401

Bachelor of Arts degree granted

The Theatre Program introduces to the students all aspects of theatrical production. Course work and practical experience in Casting Hall productions provide a firm foundation in theatre. The Seminar involves practical work in the community.

General-Liberal Requirements 60

Total required credit hours in Theatre 39

A. REQUIRED COURSES 33

- THA 100, 101, 102 Play Reading
- THA 106 Intro. to Theatre Arts
- THA 200 Voice and Diction
- THA 207 Play Production
- THA 226 Acting I
- THA 315 History of Decor & Fashion
- THA 317 History of Theatre—Ant. to Ren.
- THA 318 History of Theatre—Ren. to Mod.
- THA 321 Oral Interpretation
- THA 450 Directing
- THA 496 Seminar in Theatre Arts

B. THEATRE ELECTIVES SELECTED BY ADVISEMENT 6
Electives in Theatre and in Performing Arts

Electives 22

Physical Education 2

TOTAL REQUIREMENTS 123

URBAN-REGIONAL ANALYSIS and PLANNING (0738)

Offered by the Department of Geography and Sociology
DR. RAYMOND W. WAXMONSKY, Chairperson
Classroom Building A 213/878-6216

Bachelor of Science degree granted

Planning is a discipline concerned with affecting 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 some of the principal planning areas, urban or community planning. Students majoring in the program are encouraged to develop their own, secondary area of interest in planning.

General-Liberal Requirements 60

Total required credit hours in Urban-Regional Analysis & Planning 40

A. REQUIRED COURSES 22

- GEG 305 Principles in Economic Geography
- GEG 309 Introduction to Urban Geography
- GEG 315 Introduction to Community Planning
- GEG 330 Land Resource Analysis & Planning
- SOC 305 Methods in Social Research
- SOC 402 Sociology of the City
- PSC 200 Urban Government

B. ELECTIVES SELECTED BY ADVISEMENT 18
Any two from each of Group A, Group B and Group C:

Group A 6

- GEG 313 Air Photo Interpretation
- GEG 413 Cartography
- ISM 111 Introduction to Computer Science
- ECO 305 Statistics for Economics

Group B 6

- GEG 310 Geography of Transportation
- GEG 405 Advanced Urban Geography
- GEG 409 Geography of Manufacturing
- GEG(ECO) 411 Regional & Urban Analysis
- ECO 412 Urban Economics
- GEG 415 Seminar in Urban Planning

(Continued p. 166)

URBAN-REGIONAL ANALYSIS AND PLANNING (0738) cont'd.

Group C	6
GEG 101 Man's Natural Environment	
GEG 307 Conservation	
GEG 322 Geography of Poverty	
GEG 410 Resource Use and Urban Planning	
ECO 310 Economics of Poverty	
PSC 304 Public Administration	
PSC 305 State & Local Government & Politics	
PSC 406 Political Behavior & Public Opinion	
SOC 310 Sociology of Human Ecology	
ANT 307 Urban Anthropology	
PSY 370 Environmental Psychology I	
BIO 104 Environmental Biology	
HIS 213 Histories of Cities in Western Civilization	
DES 210 Environmental Design I	
DES 310 Advanced Environmental Design	
GEG 495/499 Planning Internship	
Electives	21
Physical Education	2
TOTAL REQUIREMENTS	123



URBAN STUDIES (0735)

Offered by the Department of Geography and Sociology
 DR. RAYMOND W. WAXMONSKY, Chairperson
 Classroom Building A 213/878-6216

Bachelor of Arts degree granted

The Urban Studies degree is an interdisciplinary program. The intent of this program is to provide students with a general knowledge of the contemporary city by drawing upon the accumulated knowledge of the social sciences and other appropriate disciplines. The program is relatively unstructured with ample opportunity for the student to pursue her/his own special interests.

General-Liberal Requirements 60

Total required credit hours in Urban Studies 39

A. REQUIRED COURSES 18 or 19

SOC 402 Sociology of the City

One course selected from:

ECO 305 Statistics for Economics

PSY 206 Statistics in Psychological Research

SOC 306 Social Statistics

One course selected from:

HIS 213 History of Cities in Western Civilization

PSC 200 Urban Government

ECO 412 Urban Economics

One course selected from:

SOC 301 Nationality Groups in American Culture

SOC 317 Sociology of Race & Ethnicity

CSS 319 Social Dynamics of Poverty

One course selected from:

DES 210 Environmental Design I

GEG 309 Introduction to Urban Geography

SOC 310 Sociology of Human Ecology

One course selected from:

CFS 438 Urban Consumer Needs & Community Service

CSS 220 Introduction to Social Work

PSC 305 State & Local Government and Politics

SOC(PSC) 406 Political Behavior & Public Opinion

(Continued p. 168)

URBAN STUDIES (0735) continued

B. ELECTIVES SELECTED BY ADVISEMENT	20 or 21
Some combination of course work, independent project or study, to be selected under advisement with approval of the department chairman. The independent study or project may be credit earned as an internship or a field experience.	
Foreign Language Requirement	12
Electives	10
Physical Education	2
TOTAL REQUIREMENTS	123

VOCATIONAL TECHNICAL EDUCATION (0800)

Offered by the Department of Industrial Arts and Vocational Education
DR. EMIL H. HOCH, Chairperson/Upton Hall 314/878-6017

Bachelor of Science (Education) degree granted and Certification as a Vocational Teacher

The program prepares vocational-technical teachers for teaching positions in city high schools, area vocational schools (BOCES), technical institutes and community college technical programs. It provides both theoretical and practical preparation in planning, instructing and managing the learning environment for students who have or will have extensive work experience in a specified trade.

Special Admission Requirements:

1. Verified full-time trade experience: four years with a high school diploma; or two years with an AAS degree in the occupational area; or one year with a BS degree and 36 semester hours of coursework 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 BS

degree and teacher certification while earning and learning at their trade. The program takes about 5 years to complete.

3. Admissions interview.
4. Trade proficiency verified by a practical and theoretical examination.

General-Liberal Requirements 60

Total required credit hours in Vocational Technical Education ... 63

MAJOR FIELD 30

VTE 100 Applied Skill 15

VTE 200 Technical Information 15

PROFESSIONAL REQUIREMENTS 30

VTE 300 Introduction to Vocational Technical Education 3

VTE 301 Occupational/Content Analysis 3

VTE 302 Course Organization 3

VTE 306 Shop/Laboratory Design and Management 3

VTE 307 Use of Instructional Media 3

VTE 404 Methods of Teaching Vocational Technical Subjects 3

VTE 411 Evaluation of Instruction 3

VTE 412 Teaching Clinic 3

VTE 413 Practice Teaching and Observation 3

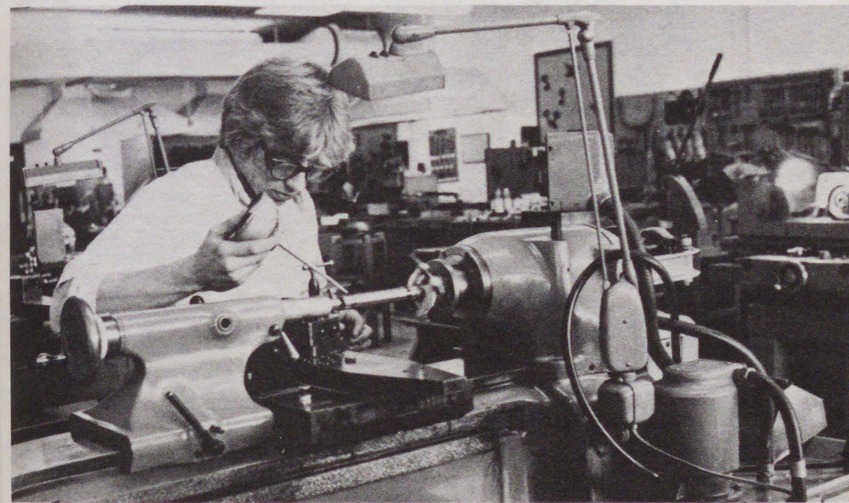
VTE 415 Professional Development Seminar 3

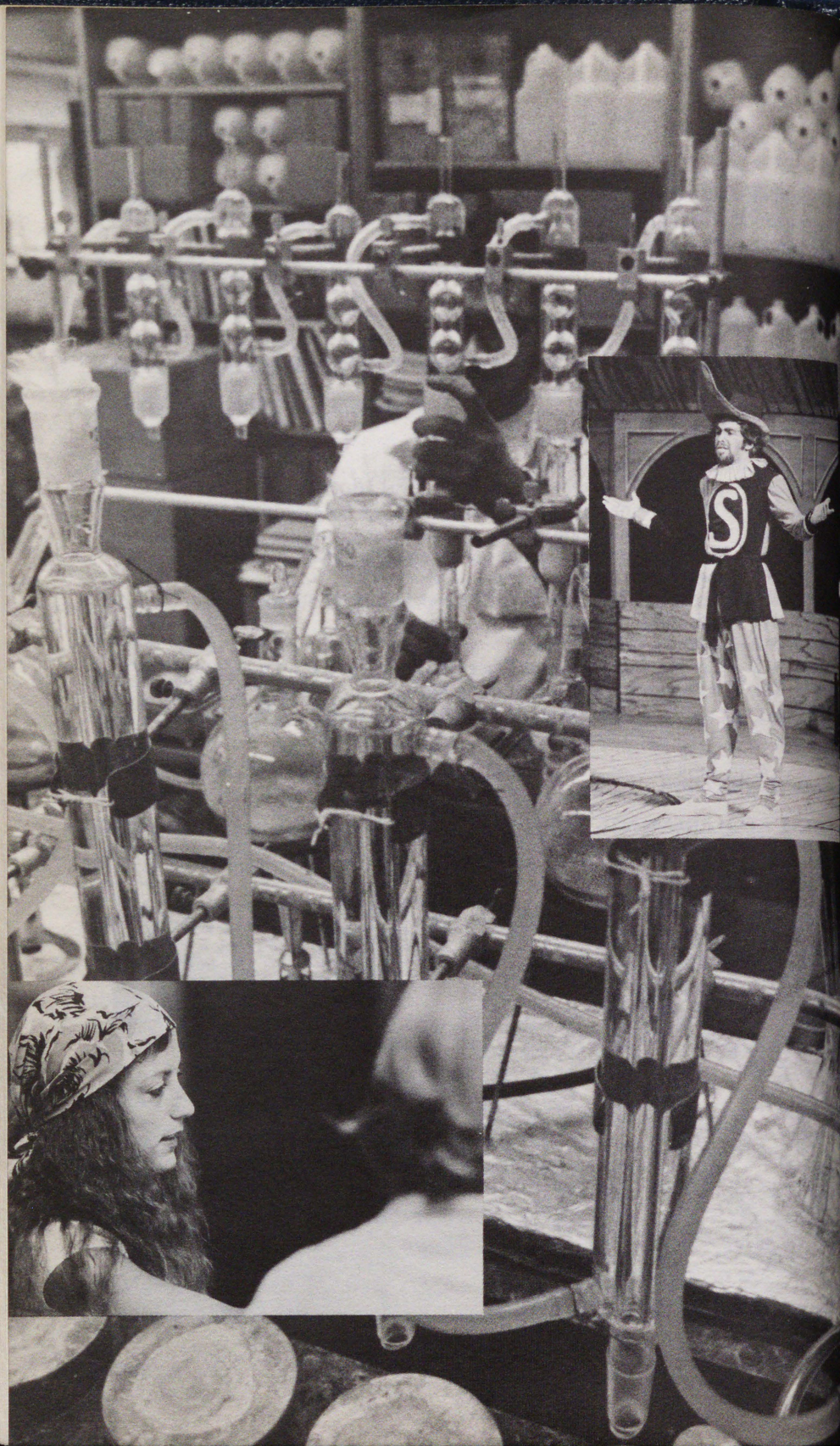
REQUIRED COURSE IN BEHAVIORAL STUDIES 3

EDU 303 Educational Psychology 3

Physical Education 2

TOTAL REQUIREMENTS 125

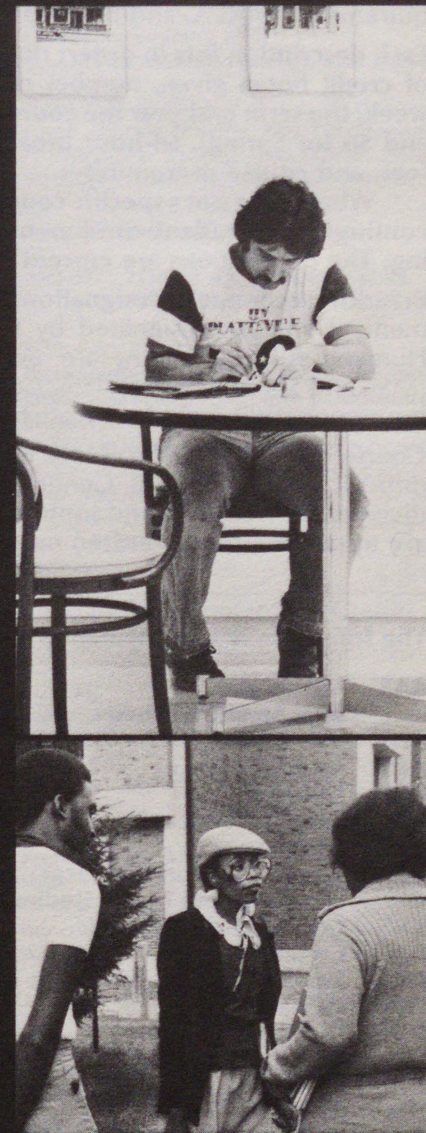




Courses:

A Complete Listing

6



The following section lists and describes each undergraduate course offered for the next two years. Courses are listed alphabetically. 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 breadth requirement.

(A complete explanation of the 60-hour breadth requirement may be found in the Curriculum section of the catalog under General Requirements for B.A. and B.S. degrees.)

Each description lists in order: the prefix, course number, title, number of credit hours given, number of clock hours the course meets 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, special fees, 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 April 1979.

Breadth requirement designation: If a course will satisfy the Arts requirement, it will be designated by the letter (A). Courses satisfying the Humanities requirement are designated (H); Mathematics/Science, (MS), and Social Sciences, (SS). Courses that are approved for the nine-hour general-liberal block from outside those four areas are marked (R).

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.

The following is an explanation of all prefixes used:

AAS	African and Afro-American Studies	ENG	English
ANT	Anthropology	EXE	Exceptional Children Education
AED	Art Education	FAR	Fine Arts
BIO	Biology	FLA	Foreign Languages
BUS	Business Studies	FLE	Foreign Language Education
CHE	Chemistry	FRE	French
CSS	Community/Social Services	SCI	General Science
CFS	Consumer and Family Studies	SED	General Science Education
CRS	Creative Studies	GEG	Geography
CRJ	Criminal Justice	GES	Geosciences
DAN	Dance	GER	German
DES	Design	GRK	Greek
DED	Distributive and Consumer Education	HPR	Health, Physical Education Recreation
ECO	Economics	HSC	Health Science
EDU	Education	HEB	Hebrew
ENT	Engineering Technology	HIS	History
		HEE	Home Economics Education

African and Afro-American Studies

Interdisciplinary
KEITH E. BAIRD, Adviser
Classroom Building 215D

Since the curriculum is interdisciplinary, some courses provide Arts Credit, some Humanities credit, and some Social Sciences credit in the breadth requirement.

Arts (Arts Credit)

**AAS 397 TOPICS AND PROBLEMS IN
AFRO-AMERICAN STUDIES**
3 cr. 3 cl.

F-79, F-80, Sp-81 (A)

Prerequisites: AAS 102 or 104, or upper junior and senior status with permission of instructor. **Special Note:** Arts credit only if topics are in Arts. An intensive investigation of the main themes and problems in the Afro-American experience. One of the upper level courses from which AAS majors may choose several; elective for non-majors.

Humanities (Humanities Credit)

AAS 101 ELEMENTARY SWAHILI
3 cr. 3 cl.

F-79 (H)

Study of the fundamentals of Swahili with emphasis on the spoken language.

AAS 102 ELEMENTARY SWAHILI
3 cr. 3 cl.

Sp-80 (H)

Prerequisites: AAS 101 or permission of instructor. Continuation of AAS 101 with emphasis on writing and reading. Emphasis on writing and reading, as a continuation of AAS 101.

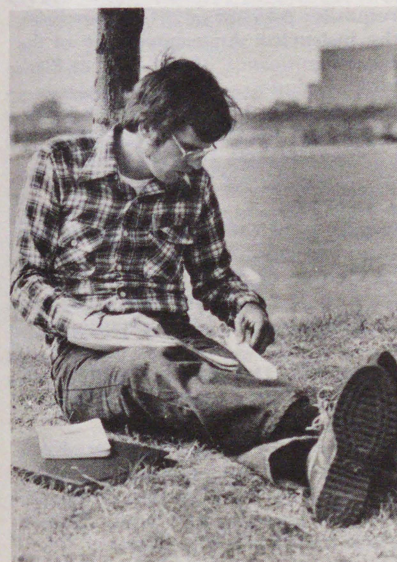
AAS 201 INTERMEDIATE SWAHILI
3 cr. 3 cl.

F-80 (H)

Prerequisite: AAS 102 or permission of instructor. Further development of basic skills

(Continued p. 174)

ISM	Information Systems Management
IAE	Industrial Arts Education
INT	Industrial Technology
ITA	Italian
JBS	Journalism, Broadcasting and Speech Communication
LAT	Latin
LIB	Library Research
MAT	Mathematics
MED	Mathematics Education
MUS	Music
NFS	Nutrition and Food Science
PHI	Philosophy
PHY	Physics
POL	Polish
PSC	Political Science
PSY	Psychology
RUS	Russian
REC	Recreation
SAF	Safety Studies
SSE/SST	Social Science Education
SOC	Sociology
SPA	Spanish
SWA	Swahili
THA	Theater Arts
VTE	Vocational Technical Education



6 / Courses

with emphasis on reading, writing and casual conversation.

AAS 202 INTERMEDIATE SWAHILI 3 cr. 3 cl.

Sp-81 (H)

Prerequisite: AAS 201 or permission of instructor. Emphasis on casual and formal speaking in Swahili as well as fast translations.

AAS 203 INTRODUCTION TO AFRICAN CIVILIZATION 3 cr. 3 cl.

F-80, (A, H)

An exploration of the patterns of the evolution of African societies from earliest times 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 397 TOPICS AND PROBLEMS IN AFRO-AMERICAN STUDIES 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (H)

Prerequisite: AAS 103 or AAS 104, or upper junior and senior status with permission of instructor. **Special Note: Humanities credit only if topics are in Humanities.** An intensive investigation of the main themes and problems in the Afro-American experience.

Social Sciences (Social Science Credit)

AAS 103 THE AFRO-AMERICAN EXPERIENCE IN NORTH AMERICA TO 1865 3 cr. 3 cl.

F-79, F-81 (SS)

A critical survey of the Black man's early existence in America traced from his African background to the end of the Civil War in the United States.

AAS 104 THE AFRO-AMERICAN EXPERIENCE IN NORTH AMERICA FROM 1865 TO PRESENT 3 cr. 3 cl.

Sp-80 (SS)

Prerequisite: AAS 103. **Required of AAS majors, elective for others.** An introductory analysis of the evolution of Afro-American society since 1865 with particular emphasis

on factors determining social, economic and cultural patterns of the Black community.

AAS/EDU 221 THE HISTORY OF BLACK EDUCATION IN AMERICA 3 cr 3 cl.

Sp-80, Sp-81 (SS)

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.

AAS/EDU 222 THE DEVELOPMENT OF MODERN EDUCATION IN AFRICA 3 cr 3 cl.

F-80, F-81 (SS)

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 302 THE POLITICAL IMPLICATIONS OF THE CULTURAL REVOLUTION IN BLACK AMERICA 3 cr. 3 cl.

(SS)

Prerequisite: AAS 103 or 104 or permission of the instructor. An examination of the political significance of the current Black cultural revolution.

AAS 331 THE RELEVANCE OF SOCIAL THEORIES TO THE BLACK EXPERIENCE 3 cr. 3 cl.

F-79, Sp-81 (SS)

Prerequisite: AAS 103 or 104 or permission of the instructor. An analysis of various social theories as they relate to class and ethnic social structures in the United States with emphasis on the Black experience.

AAS/SOC 302 THE BLACK FAMILY (SOC 332) IN AMERICA 3 cr. 3 cl.

Sp-80, F-81 (SS)

Prerequisite: AAS 103 or 104 or permission of the instructor. An exploratory study of the effects of the American social institution upon the Black American family life with emphasis on intra-family relations.

AAS 333 THE AFRO-WEST INDIAN AND SOCIAL CHANGE 3 cr. 3 cl.

F-81 (SS) **Prerequisite:** AAS 103 or 104 or permission of instructor. A survey of the principles, concept theories, and studies of social, economic, political, religious, educational and cultural change in the Afro-West Indian experience. Analysis of reform and revolutionary movements.

AAS 397 TOPICS AND PROBLEMS IN AFRO-AMERICAN STUDIES 3 cr. 3 cl.

Sp-80, F-80, Sp-81, F-81 (SS)

Prerequisite: AAS 103 or 104 or permission of the instructor. **Special Note: Social Sciences credit only when topics are in Social Sciences.** An intensive investigation of the main themes and problems in the Afro-American experience.

AAS/HIS 469 BLACK PROTEST AND LEADERSHIP IN THE U.S. IN THE TWENTIETH CENTURY 3 cr. 3 cl.

F-79, F-80, F-81 (SS)

Prerequisite: AAS 103 or 104 or permission of the instructor. An examination of the Black protest movements and leaders in twentieth-century America.

AAS 490 COMMUNITY RESEARCH AND DATA COLLECTION COLLOQUIUM 3 cr. 3 cl.

Sp-81 (SS)

Prerequisite: Twenty seven or more credits in African and Afro-American Studies, or senior status with permission of the instructor. An intensive colloquium on methods of academic research in Afro-American Studies, including the investigation and evaluation of sources and resources, the individual evaluation of existing community programs, and critical oral and written presentation of the results of the independent research. Required of all African and Afro-American Studies majors.

Courses / 6

Anthropology

Offered by the
Department of Anthropology
DR. WILLIAM E. ENGELBRECHT,
Chairperson
Classroom Building 107

ANT 100 HUMAN ORIGINS 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (SS)

An introduction to the fossil and archeological record of mankind. 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 of all majors. Recommended as a first or second course in anthropology.

ANT 101 INTRODUCTION TO ANTHROPOLOGY 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (SS)

Culture and human behavior; formation of personality; nature of social structure, interaction and the satisfaction of human needs; cross-cultural comparisons; archeology; linguistics; human evolution. Classification: Required of all anthropology majors. Recommended as a first or second course in anthropology.

ANT 144 INTRODUCTION TO FOLKLORE AND FOLKLIFE 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (SS)

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 201 GENERAL ANTHROPOLOGY 3 cr. 3 cl.

Sp-81 (SS)

An introductory survey of physical and cultural anthropology; human evolution, formation of races, human prehistory, the origin and development of human institutions, the processes of culture. Students

(Continued p. 176)

6 / Courses

who have passed ANT 100, ANT 101 or ANT/SOC 101 may not take this course for credit. Both ANT 201 and SOC 101 may be taken for credit.

ANT 202 MAN'S EARLY PAST; ARCHEOLOGY 3 cr. 3 cl.

F-80 (SS)

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 EVOLUTION AND VARIATION, INCLUDING RACE: PHYSICAL ANTHROPOLOGY 3 cr. 3 cl.

F-79, Sp-81 (SS)

Examination of physical evolution of primates and humans; physical variations 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 300 INDIANS OF WESTERN NORTH AMERICA 3 cr. 3 cl.

Sp-81 (SS)

Origins of American Indians; route of migrations of Western Indians and affiliations with Asiatic peoples; language families; cultures of Indians of Northwest Coast, Mackenzie-Yukon area, Plateau, Great Basin, Plains, California and Southwest.

ANT 301 INDIANS OF EASTERN NORTH AMERICA 3 cr. 3 cl.

F-79 (SS)

Prehistory of eastern North America; influences from Middle and South America, sub-Arctic and Arctic. Emphasis on cultures of Iroquois and Algonquian-speaking peoples.

ANT 302 PEOPLES OF MESO AMERICA 3 cr. 3 cl.

Sp-80 (SS)

Tribal and peasant peoples of Mexico, Guatemala, Central America, and the Caribbean. Introductory survey of prehistory; main emphasis on post-contact

development of distinctive folk cultures, the relationship between these and emerging national cultures. Recommended for Latin American Studies majors.

ANT 305 PEOPLES OF TRADITIONAL AFRICA 3 cr. 3 cl.

Sp-80 (SS)

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 cr. 3 cl.

Sp-80 (SS)

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 majors.

ANT 308 ARCHEOLOGICAL METHOD 3 cr. 3 cl.

SI-81 (SS)

Prerequisite: ANT 100 or equivalent course. Laboratory and field methods in archaeology will be studied. Opportunity for practical experience with various archaeological techniques will be provided.

ANT 312 ARCHEOLOGY OF THE NORTH AMERICAN INDIAN 3 cr. 3 cl.

F-80 (SS)

Special Note: ANT 100 and ANT 202 are strongly recommended as prior courses. Pre history of North America beginning with man's earliest presence in North America, including the Palaeo-Indian period, Archaic, Woodland and Mississippian in the East, and periods comparable in time in the West. Discussion of possible trans-Pacific and of trans-Atlantic influences on the development of American Indian culture.



ANT 315 RESEARCH METHODS IN CULTURAL ANTHROPOLOGY 3 cr. 3 cl.

F-79 (SS)

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 cr. 3 cl.

Sp-80, Sp-81 (SS)

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 cr. 3 cl.

Sp-81 (SS)

Prerequisite: a course in the natural or social sciences, or upper level status, or per-

Courses / 6

mission 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 cr. 3 cl.

F-80 (SS)

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 function of the skeleton. Methods used to determine physical appearance, age, sex, illness and injury in the individual. Reconstructing the population; demography, health status, growth patterns, genetic affinities.

ANT 326 FOSSIL MAN 3 cr. 3 cl.

F-80 (SS)

Prerequisite: a course in the natural or social sciences or upper level status. Human evolution as it is derived from the fossil record. Examination of major fossil man discoveries, their interpretation and place in the development of the human species.

ANT 327 MEDICAL ANTHROPOLOGY 3 cr. 3 cl.

F-80 (SS)

Prerequisite: Introductory anthropology; or a social science course, or upper division status (note: certain courses in Community/Social Services, Consumer Studies and Nutrition are also acceptable. Consult department). Introduction to medical anthropology and its relevance to contemporary American Society. Will include such topics as Folk and traditional healing practices, cultural definitions of illness and modern medical technology.

ANT 330 THE ANTHROPOLOGY OF OCEANIA 3 cr. 3 cl.

Sp-80 (SS)

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 cr. 3 cl.

Sp-80 (SS)

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 357 TOPICS IN ANTHROPOLOGY 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (SS)

Prerequisite: a course in the natural or social sciences, or upper level status, or permission of the 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 a specific problem or series of problems. Topics include: aggression and warfare, culture and health, shifting patterns of demography, ecological anthropology.

ANT 402 CULTURAL ANTHROPOLOGY 3 cr. 3 cl.

F-80 (SS)

An intensive comparative approach to the content and process of culture problems in the interpretation of cultural materials; cross-disciplinary approaches; applied anthropology. ANT 101 is strongly recommended as a prior course.

ANT 403 LANGUAGE AND CULTURE 3 cr. 3 cl.

F-79, F-80 (SS)

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 101 is strongly recommended as a prior course.

ANT 405 HISTORY OF ANTHROPOLOGICAL THOUGHT 3 cr. 3 cl.

F-79, F-80 (SS)

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 studied will be Darwin, Tylor, Boas, Koeber, Rivers, Malinowski, Levi-Strauss, and Sapir. Required of all anthropology majors. ANT 101 is strongly recommended as a prior course.

ANT 406 RELIGION, MYTH, AND MAGIC 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (SS)

Fetishism (Animism), Totemism, Polytheism and Monotheism. An in-depth analysis of Religion, Myth and Magic in pre-historic 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 Judaeo-Christian Tradition. ANT 101 is strongly recommended as a prior course. Recommended for Religious Studies Concentration.

ANT 408 CULTURE AND PERSONALITY 3 cr. 3 cl.

F-79, F-80 (SS)

Prerequisite: a course in the natural or social sciences, or upper level status, or permission of the instructor and ANT 101 or the permission of the instructor. A cross-cultural study of the role of individually variable genetic potentials and socioculturally variable norms, techniques of socialization and primary groups in the formation of the basic structures of modal and deviant personalities.

ANT 409 SOCIAL STRUCTURE 3 cr. 3 cl.

Sp-80 (SS)

Prerequisite: a course in the natural or social sciences, or upper level status, or permission of the instructor. The comparative study of social structure in different cultures, emphasizing the tribal. Kinship, occupational groups, government, social classes, and clubs will be included.

ANT 411 AFRICAN FAMILY AND KINSHIP 3 cr. 3 cl.

Sp-81 (SS)

Study of the family, kinship, and marriage among the peoples of Africa. Emphasis on the interrelationships of kinship with other aspect of the culture. Special Note: ANT 101 is strongly recommended as a prior course.

ANT 412 SEMINAR IN ANTHROPOLOGY 3 cr. 3 cl.

Sp-80 Sp-81 (SS)

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. Classification: Required of all anthropology majors.

ANT 414 SOCIAL CHANGE IN AFRICAN SOCIETIES 3 cr. 3 cl.

Sp-81 (SS)

A study of continuity and change in African cultures with emphasis upon kinship, economics, political organization, education, religion and paramedicine. Special Note: ANT 101 is strongly recommended as a prior course.

ANT 415 SEMINAR IN ARCHEOLOGY 3 cr. 3 cl.

F-79 (SS)

Prerequisite: ANT 202 or consent of instructor. Individual research projects to be designed by students with progress reports and discussion held every week. Topics will be confined to the teacher's field of interest.

**Art Education**

Offered by the Department of Art Education
DR. VINCENT C. ARNONE, Chairperson
Bishop Hall 150

AED 100 ESSENTIALS OF VISUAL ARTS 3 cr. 4 cl.

F-79, Sp-80, F-80, Sp-81 (AR)

The development of visual and perceptual awareness through expressive learning processes inherent in the visual arts. Art experiences with a variety of media that will accommodate individualized interpretations of art concepts which generate the formulations, judgments, and decisions of a liberally-educated individual. Non-art majors only.

AED 199 ORIENTATION IN ART EDUCATION 1 cr. 1 cl.

F-79, Sp-80, F-80, Sp-81 (AR)

A coordinated series of programs, discussions, and presentations, involving guest faculty members, visiting authorities, and students; presenting various points of view on the nature and function of the arts, education in the arts, and related areas of human experience. Required of all Art Education majors.

AED 200 FUNDAMENTALS OF ART INQUIRY 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (AR)

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 cr. 4 cl.

F-79, Sp-80, F-80, Sp-81

Prerequisite: Art Education major or consent of the Department Chairperson. An introductory course which serves as an entry experience to the professional program. A review which provides a basic understanding

(Continued p. 180)

ding 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 cr. 4 cl.

F-79, Sp-80, F-80, Sp-81

Prerequisites: Art Education major, AED 300, at least one course in Psychology or department permission. This course focuses on specific information and theories relevant to the teaching of art. Students will develop preoperational teaching models based on examined art and education theories and which are formulated to accommodate each student's perceived personal qualities. Required of all Art Education majors.

AED 302 FUNCTIONS AND PRACTICES IN ART EDUCATION 3 cr. 4 cl.

F-79, Sp-80, F-80, Sp-81

Prerequisite: Art Education major, AED 300, 301 and at least one course in Sociology, or department permission. This course will direct students to identify specific art content and processes which are educationally beneficial. They will then develop skills necessary to design plans, to implement, and to evaluate the teaching of those art concepts. These skills will be gained and tested by practice in mini-teaching and by participation in schools. Required of all Art Education majors.

AED 303 ELEMENTARY STUDENT TEACHING IN ART 6 cr. full-time, ½ semester.

F-79, Sp-80, F-80, Sp-81

Prerequisite: Art Education major, AED 302. Supervised student 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.

F-79, Sp-80, F-80, Sp-81

Prerequisite: Art Education major, AED 302. 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 cr. 4 cl.

F-79, Sp-80, F-80, Sp-81 (AR)

Prerequisite: one visual arts studio course for non-art majors; DES 105, DES 106, FAR 101, FAR 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 ART IN LIVING 3 cr. 4 cl.

F-79, Sp-80, F-80, Sp-81 (AR)

Prerequisite: one arts course or consent of the instructor. 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 theatre arts. Participation in a variety of creative activities.

AED 319 ART FOR ELEMENTARY AND EXCEPTIONAL EDUCATION CLASSROOM TEACHERS 3 cr. 4 cl.

F-79, Sp-80, F-80, Sp-81 (R)

Prerequisite: Elementary or Exceptional Education majors and one visual arts studio course or consent of the instructor. A study of the elementary school child's abilities and needs in relation to art at several developmental levels. Approaches used in teaching art in the primary and intermediate grades, the nature of the art experience for the elementary classroom teacher and for children. Studio experiences with ideas, processes, and materials used in elementary schools.

AED 320 INTRODUCTION TO ART THERAPY 3 cr. 4 cl.

F-79, Sp-80, F-80, Sp-81 (AR)

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, developmental centers, community centers, etc.

AED 325 ARTS AND SPECIAL NEEDS 3 cr. 4 cl.

F-79, Sp-80, F-80, Sp-81 (AR)

Prerequisite: AED 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.

AED 329 ART AND OLDER ADULTS 3 cr. 4 cl.

F-79, Sp-80, F-80, Sp-81 (AR)

Prerequisite: AED 320 and SOC 365 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 experiences with older adults in settings ranging from community centers and adult education to geriatric institutions.

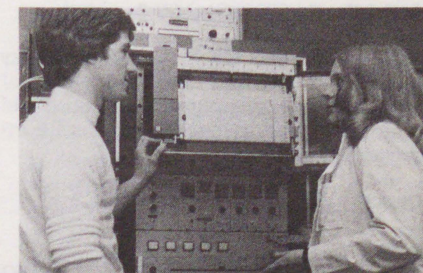
AED 335 WOMEN AND ART 3 cr. 4 cl.

F-79, F-80 (AR)

Prerequisite: one visual arts studio course or consent of the instructor. A flexibly structured course to afford opportunity for students to research, explore, analyze and produce work pertinent to women's role in the visual arts with instructor as guide as well as participant.

AED 495 PROJECT

AED 499 INDEPENDENT STUDY



Biology

Offered by the Department of Biology
DR. WILLIAM C. SCHEFLER, Chairperson
Science Building 313

BIO 100 PRINCIPLES OF BIOLOGY 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (MS)

Prerequisite: Not open to Biology majors. A consideration of some important principles of modern biology with special emphasis on their relevance to the problems of man and his environment.

BIO 104 ENVIRONMENTAL BIOLOGY 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (MS)

Prerequisite: Not open to Biology majors. Ecological principles, the nature of man's ecosystem, his role in changing the environment, illustrated by case histories.

BIO 114 CELL BIOLOGY 4 cr. 6 cl.

F-79, Sp-80, F-80, Sp-81 (MS)

Principles of structure and function at the cellular level.

BIO 115 GENERAL BOTANY 4 cr. 6 cl.

F-79, Sp-80, F-80, Sp-81 (MS)

Morphology, physiology, phylogeny, reproduction and adaptation of plants.

BIO 116 GENERAL ZOOLOGY 4 cr. 6 cl.

F-79, Sp-80, F-80, Sp-81 (MS)

Morphology, physiology, phylogeny, reproduction and adaptation of animals.

(Continued p. 182)

BIO 210 BACTERIOLOGY 3 cr. 4 cl.

F-79, F-80, (MS)

Prerequisite: BIO 100. Not open to Biology majors. Morphology and physiology of bacteria. General application to household science, sanitary science, hygiene and infectious diseases.

BIO 301 CELLULAR PHYSIOLOGY 4 cr. 6 cl.

F-79, F-80 (MS)

Prerequisites: BIO 114, CHE 201-202, or BIO 114 CHE 201 and BIO 305.

Physiological processes at the cellular level.

BIO 303 GENETICS 4 cr. 6 cl.

F-79, Sp-80, F-80, Sp-81 (MS)

Prerequisites: BIO 115 and 116.

Principles of heredity; inheritance of specific plant, animal and human traits; biochemical aspects of the gene; relationship to evolution.

BIO 304 LOCAL FLORA 3 cr. 5 cl.

Sp-80, Sp-81 (MS)

Prerequisite: BIO 115. Several Saturday field trips may be required. Collection, preservation and identification of representatives of the regional flora.

BIO 305 MOLECULAR BIOLOGY 4 cr. 6 cl.

F-79, F-80, (MS)

Prerequisite: BIO 100, or 114, or 115, or 116, and CHE 201. Structure, organization and function in living matter at the molecular level.

BIO 306 ENTOMOLOGY 3 cr. 4 cl.

Sp-80, Sp-81 (MS)

Prerequisite: BIO 116.

A study of the morphology, physiology, ecology and life history of insects. Major emphasis is placed on interrelationships of insects and man.

BIO 310 MICROTECHNIQUE 4 cr. 6 cl.

F-80 (MS)

Prerequisites: BIO 114, 115 and 116.

The preparation of biological materials for anatomical study. Special emphasis placed on techniques of fixation, sectioning staining and mounting.

BIO 311 HUMAN ANATOMY AND PHYSIOLOGY I 3 cr. 4 cl.

F-79, Sp-80, F-80, Sp-81 (MS)

Prerequisites: BIO 100 or 114.

Study of basic anatomy and physiology of cells, tissues, and selected organ systems of the human body. Emphasis will be placed on the cardiovascular, respiratory, digestive, urinary and reproductive systems.

BIO 312 HUMAN ANATOMY AND PHYSIOLOGY II 3 cr. 4 cl.

F-79, Sp-80, F-80, Sp-81 (MS)

Prerequisite: BIO 311.

Study of the basic anatomy and physiology of selected organ systems of the human body. Emphasis will be placed on the skeletal, muscle, nervous, sensory and endocrine systems.

BIO 315 ECOLOGY 4 cr. 6 cl.

F-79, Sp-80, F-80, Sp-81 (MS)

Prerequisites: BIO 115 and 116 and General Chemistry. Several half-day or all-day field trips may be required. 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.

**BIO 316 MICROBIOLOGY 4 cr. 6 cl.**

Sp-80, Sp-81 (MS)

Prerequisite: BIO 114, or 115, or 116.

Microorganisms and techniques of observing their morphology, growth characteristics, and distribution; the relationship of microorganisms to man and his activities.

BIO 320 BIOLOGY OF THE COLD BLOODED VERTEBRATES 4 cr. 6 cl.

F-79 (MS)

Prerequisite: BIO 116.

Study of the biology of fish, amphibians and reptiles with emphasis on their anatomy, ecology and classification.

BIO 322 HEREDITY & HUMAN AFFAIRS 3 cr. 3 cl.

F-79, F-80 (MS)

Prerequisite: BIO 100 and junior standing. Not open to Biology majors. Principles of human inheritance and the social implications of genetic technology to modern society.

BIO 361 BIOLOGY SEMINAR 1 cr. 1 cl.

F-79, F-80 (MS)

Prerequisite: None.

A series of weekly presentations by invited personnel. Class meetings are open to any interested persons, and Biology majors are especially urged to attend throughout their college career.

BIO 362 BIOLOGY SEMINAR 1 cr. 1 cl.

Sp-80, Sp-81 (MS)

Prerequisite: None.

A series of weekly presentations by invited personnel. Class meetings are open to any interested persons, and Biology majors are especially urged to attend throughout their college career.

BIO 402 VERTEBRATE PHYSIOLOGY 3 cr. 3 cl.

Sp-80, Sp-81 (MS)

Prerequisites: BIO 114 and 116.

An examination of the general principles underlying neurophysiology, cardiovascular, and respiratory physiology. The human will be the major organism studied.

BIO 403 ECONOMIC BIOLOGY AND CONSERVATION 3 cr. 4 cl.

Sp-80 (MS)

Prerequisite: BIO 100 or 104 or equivalents. Field trips will be required. Organisms of economic importance to man; basic concepts of modern agriculture; plant and animal diseases; principles of biological conservation including forests, soil, water, and wildlife.

BIO 404 PLANT MORPHOLOGY 4 cr. 6 cl.

Sp-80, Sp-81 (MS)

Prerequisite: BIO 115. A phylogenetic interpretation of the plant kingdom.

BIO 405 ORGANIC EVOLUTION 3 cr. 3 cl.

F-79 (MS)

Prerequisites: BIO 303 and 315.

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 inter-breeding population, to the variation pattern on the population level, and to the origin of species; more recent trends, such as introgressive hybridization, polyploidy, apomixis, and genetic hemeostasis will be developed.

BIO 406 BIOMETRICS 4 cr. 6 cl.

F-79, Sp-80, F-80, Sp-81 (MS)

Prerequisites: BIO 114, 115, and 116. 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. Use of desk calculator.

BIO 407 QUANTITATIVE ECOLOGY 4 cr. 6 cl.

F-79 (MS)

Prerequisites: BIO 315 and 1 year college level mathematics. Presentation of quantitative and analytical approaches to the study of ecology. Selected topics in physiological, population, ecosystem, biogeochemical, and systems ecology.

(Continued p. 184)

Theory and practice of designing and carrying out ecological experiments. Emphasis on quantitative methods available for ecological studies.

BIO 410 SOIL BIOLOGY 3 cr. 5 cl.
F-80 (MS)

Prerequisite: BIO 315. Field trips may be required. The soil biota, their interaction, adaptation, succession and ecological and economic importance.

BIO 411 PARASITOLOGY 3 cr. 4 cl.
F-79, F-80 (MS)

Foundations of parasitology; biology, morphology, and ecology of parasites; significance of the host-parasite relationship, pathogenesis and epidemiology. Emphasis is placed on species of medical or veterinary importance.

BIO 413 ORNITHOLOGY 3 cr. 4 cl.
Sp-81 (MS)

Prerequisite: BIO 100 or 116. Field work required. Birds, their structure, functions, origins and development; their identification and habits.

BIO 415 RADIATION BIOLOGY
4 cr. 6 cl.

F-79, F-80 (MS)

Prerequisite: Any one semester introductory course in biology or chemistry, or physics. Radioisotopes as biological tools; mechanisms of radiobiological actions; biological effects, radiation tolerance and dose measurements; personnel and area monitoring; problems of environmental radiations.

BIO 416 ADVANCED GENETICS
3 cr. 3 cl.

F-80 (MS)

Prerequisite: BIO 303.

Development of the interrelationships of the molecular and chromosome levels of genetics with emphasis on development and behavior.

BIO 417 FIELD MYCOLOGY 3 cr. 5 cl.
F-80 (MS)

Prerequisite: BIO 115. Field work required. Study of the identification, morphology, ecology, and economic importance of those fungi most often encountered in

natural environmental situations. Emphasis will be placed on the myxomycetes, ascomycetes, and basidiomycetes.

BIO 418 LIMNOLOGY 4 cr. 6 cl.
Sp-80 (MS)

Prerequisites: BIO 115 and 116.

Study of the physical, chemical, and biological factors influencing fresh water life. Lectures, demonstrations, and field trips.

BIO 421 INVERTEBRATE STRUCTURE AND FUNCTION 3 cr. 4 cl.

Sp-80, Sp-81 (MS)

Prerequisite: BIO 116. A three day field trip to the Atlantic shore may be required. Morphology, physiology, adaptation, ecology, reproduction and evolution of the invertebrates. A functional approach.

BIO 422 PLANT ANATOMY 4 cr. 8 cl.
F-79 (MS)

Prerequisites: BIO 114 and 115.

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 495 PROJECT

Prerequisite: Approval of the faculty advisor must be secured prior to registration.

BIO 499 INDEPENDENT STUDY

Prerequisite: Approval of faculty advisor must be secured prior to registration.



Business Studies

Offered by the
Department of Business Studies
DR. GREGORY W. GRAY,
Chairperson
Chase Hall 307

BUS 116 INTRODUCTION TO BUSINESS 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81

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. Required of Business Education majors.

BUS 117 INTRODUCTION TO RETAILING 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81

Role and functions of retailing as a channel of distribution, the relationship and responsibilities to the producer and to the consumer. Required of students in the Division according to the student's curriculum.

BUS 312 ACCOUNTING I 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81

Basic accounting principles underlying financial statements.

BUS 313 PRINCIPLES OF ACCOUNTING II 3 cr. 3 cl.

F-79, Sp-80, Sp-81

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 324 BUSINESS COMMUNICATIONS 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81

Prerequisite: BUS 116; Junior standing; permission of the instructor. An investigation of business communications as related to interaction in the private and public sector and in the social system; emphasis on rou-



tine communication, e.g., business letters and report writing. Required of Business Education majors.

BUS 325 PERSONNEL MANAGEMENT
3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (R)

Prerequisite: BUS 117.

Designed to give overview of philosophy of personnel management based on behavioral, classical managerial approaches, changes, human relations and operations research. Classification: Required of students in the division according to the student's curriculum.

BUS 326 INTRODUCTORY MERCHANDISING 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81

Prerequisite: CBS 117. Junior and senior standing. The art of science of merchandising management together with trends in merchandising. Classification: Required of students in the division according to the students' curriculum.

(Continued p. 186)

BUS 327 RETAIL ADVERTISING AND PROMOTION 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (R)

Prerequisite: BUS 117.

Analysis, solution, coordination of various media and sales materials to promote profit-producing programs with emphasis on the printing media. Exploration of relationship of behavioral sciences to advertising. Required of students in the division according to the student's curriculum.

BUS 328 SALES PROMOTION 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81

Prerequisite: BUS 117.

Principles of communication and advertising in non-newspaper media. Coordination of sales promotion activities and its effect on business organizations, industries and individuals. Required of students in the division according to student's curriculum.

BUS 329 SALES MANAGEMENT 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81

Prerequisite: Junior or Senior standing. **BUS 17, 429, and 325 recommended.** 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 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81

Prerequisites: Sophomore or junior standing. 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 336 VISUAL MERCHANDISING 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81

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 cr. 3 cl.

F-79, F-80

Prerequisite: BUS 11 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 of the securities market, the role it plays in the economy, and its interaction with the macro-economic system.

BUS 341 COMMODITIES 3 cr. 3 cl.

Sp-80, Sp-81

Prerequisite: BUS 116 or BUS 117; junior standing or permission of instructor. A study of commodities future trading; special emphasis on terminology, hedging procedures, trading procedures and price-making influences.

BUS 350 CURRENT PRACTICES IN BUSINESS TECHNOLOGY 3 cr. 3 cl.

Sp-80, Sp-81

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. Required of Business Education majors.

BUS 403 MARKETING II—BUYER BEHAVIOR 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81

Prerequisite: 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. Required according to the student's curriculum.

BUS 404 MARKETING RESEARCH 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81

Prerequisite: BUS 117, Statistics is recommended. A study of primary and secondary data as it relates to decision mak-

ing in business and government. Required according to the student's curriculum.

BUS 410 MANAGERIAL ACCOUNTING 3 cr. 3 cl.

Sp-80, F-80, Sp-81

Prerequisite: BUS 312 and BUS 117, 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 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81

Prerequisites: BUS 116; junior standing or permission of instructor. Concentration on the administration of office management systems; emphasis on office location, layout, organization, operation and personnel assignments. Course designed primarily for people entering middle and upper management positions in business and industry. Required of Business Education majors.

BUS 426 CREATIVE OPPORTUNITIES IN MANAGEMENT PRACTICES 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81

Prerequisite: BUS 117, junior or senior standing. Elements of sound thinking in dealing with employees, suppliers and consumers, using a systems approach through effective communications and creative thinking. Required of students in the Division according to student's curriculum. All college elective.

BUS 428 ADVANCED MERCHANDISING 3 cr. 3 cl.

Sp-80, Sp-81

Prerequisite: BUS 326 or permission of the 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. Elective according to the student's curriculum.

BUS 429 BUSINESS ORGANIZATION, MANAGEMENT AND OPERATION 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81

Prerequisite: BUS 117, junior or senior standing. Fundamental management principles underlying the organization and operation of business firms. Required of students in the division according to student's curriculum.

BUS 430 MARKET MANAGEMENT, SIMULATION AND DECISION MAKING 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81

Prerequisite: BUS 117, senior standing. Study the actual methods and techniques commonly employed in management decision making in business and industry. Attention also given to the role business labor/management relations play in scheduling and continuing business operations.

BUS 432 HOUSING MANAGEMENT 3 cr. 3 cl.

F-80

Prerequisites: General background of economics, science, art, sociology, psychology, and housing. Junior or senior standing. Permission of instructor. CFS 331, Housing the Family, or equivalent. Application of the techniques and universals to the management of multi-family housing, both public and private. Required of students according to the student's curriculum.

BUS 490 FIELD EXPERIENCE Credit to be arranged.

F-79, Sp-80, F-80, Sp-81

Prerequisite: junior or senior standing. Provides students the opportunity to have experience related to their majors in public or private agencies, business organizations, education institutions. Registration by permission of the faculty. Obtain necessary forms in CS 306.

Chemistry

Accredited by the American Chemical Society
Offered by the Department of Chemistry
DR. JOSEPH S. ZINGARO, Chairperson
Science Building 313

CHE 100 CHEMISTRY AND SOCIETY (no laboratory) 3 cr. 3 cl.

F-79, Sp-80, F-80, F-81 (MS)

A non-mathematical approach to the study of matter. Presentation of the fundamentals of chemistry followed by such socially relevant subjects as environmental pollution, drugs, Vitamin C, "The Pill," chemotherapy, and space technology. A one-semester study of chemistry which will be of value to non-science majors who seek a liberal education pertinent to modern society.

CHE 101 GENERAL CHEMISTRY I (Non-Majors) 3 cr. 5 cl.

F-79, Sp-80, F-80, Sp-81 (MS)

General Chemistry as a science exploring the facts and the theories dealing with the relationship between structure and properties of matter; relation of Chemistry to other fields of knowledge and to everyday life. Not open to chemistry majors.

CHE 102 GENERAL CHEMISTRY II (Non-Majors) 3 cr. 5 cl.

F-79, Sp-80, F-80, Sp-81 (MS)

Prerequisite: CHE 101.

A continuation of Chemistry 101. Not open to chemistry majors.

CHE 111 FUNDAMENTALS OF CHEMISTRY I 4 cr. 6 cl.

F-79, Sp-80, F-80, Sp-81 (MS)

Introduction to chemistry utilizing physiochemical principles with illustrative laboratory work of a quantitative nature.

CHE 112 FUNDAMENTALS OF CHEMISTRY II 4 cr. 6 cl.

F-79, Sp-80, F-80, Sp-81 (MS)

Prerequisite: CHE 111.

A continuation of Chemistry 111; laboratory work in semi-micro qualitative inorganic analysis and physiochemical experiments.

CHE 201 ORGANIC CHEMISTRY I 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (MS)

Prerequisite: CHE 112.

Chemistry of carbon compounds. Bonding, stereochemistry and structural theory. Fundamental reactions of the functional groups considered from the mechanistic viewpoint. Required for all chemistry majors.

CHE 201L ORGANIC CHEMISTRY LABORATORY I 1 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (MS)

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 syntheses, qualitative organic analysis and mechanistic studies. Required of all chemistry majors.

CHE 202 ORGANIC CHEMISTRY II 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (MS)

Prerequisite: CHE 201.

A continuation of Chemistry 201. Classification: Required of all chemistry majors.

CHE 202L ORGANIC CHEMISTRY LABORATORY II 1 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (MS)

Prerequisites: CHE 202 (or concurrent registration) and CHE 201L. A continuation of Chemistry 201L. Classification: Required for all chemistry majors.

CHE 301 ANALYTICAL CHEMISTRY 4 cr. 8 cl.

Sp-80, Sp-81 (MS)

Prerequisite: CHE 112.

Theory and laboratory applications of quantitative analyses utilizing gravimetric, volumetric and physiochemical methods.

CHE 305 PHYSICAL CHEMISTRY I 3 cr. 3 cl.

F-79, F-80 (MS)

Prerequisites: CHE 202, MAT 126, and PHY 112. A study of the laws governing the behavior of chemical systems (thermodynamics, kinetic theory of gases, and the structure of matter). Required of all chemistry majors.

CHE 305L PHYSICAL CHEMISTRY LABORATORY I 1 cr. 3 cl.

F-79, F-80 (MS)

Prerequisites: CHE 202L, CHE 301 (either of the foregoing may be waived for non-majors with the permission of the instructor and CHE 305 (or concurrent registration). A laboratory study of fundamental chemical

principles. Classification: Required for all chemistry majors.

CHE 306 PHYSICAL CHEMISTRY II 3 cr. 3 cl.

Sp-80, Sp-81 (MS)

Prerequisite: CHE 305.

A study of the structure of condensed phases, electrochemistry, quantum chemistry, and reaction kinetics. Required for all chemistry majors.

CHE 306L PHYSICAL CHEMISTRY LABORATORY II 1 cr. 3 cl.

Sp-80, Sp-81 (MS)

Prerequisites: CHE 305L and CHE 306 (or concurrent registration). A laboratory study of fundamental chemical principles. Required for all chemistry majors.

CHE 310 LITERATURE OF CHEMISTRY 1 cr. 1 cl.

F-79, F-80, (MS)

Prerequisite: CHE 112.

Primary, secondary, and tertiary sources of chemical literature and library experience in usage. The literature search; research in documentation.

CHE 312 CHEMISTRY AND CRIMINALISTICS 3 cr. 3 cl.

Sp-80, Sp-81 (MS)

Prerequisite: CHE 112 or CHE 102 (with permission of the 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 cr. 3 cl.

F-79, F-80 (MS)

Prerequisite: CHE 112 or CHE 102 (with permission of the instructor). Discussion of air, water and soil pollution from a chemical point of view. Relevant slides and films; trips to neighboring sites to observe pertinent waste treatment and tours of appropriate scientific laboratories.

(Continued p. 190)



CHE 321 PRINCIPLES OF ORGANIC CHEMISTRY 4 cr. 6 cl.

F-79, F-80, (MS)

Prerequisite: CHE 102 or CHE 112.

A survey of organic chemistry including a treatment of the variety of functional groups and their chemical behavior. Special Note: Not open to chemistry majors.

CHE 322 BIOLOGICAL CHEMISTRY 4 cr. 6 cl.

Sp-80, Sp-81 (MS)

Prerequisite: CHE 321 or CHE 202.

Structure and functions of the substances of biochemical interest. Living systems. Special Note: Not open to chemistry majors.

CHE 331 PRINCIPLES OF PHYSICAL CHEMISTRY 3 cr. 3 cl.

Sp-80, Sp-81 (MS)

Prerequisites: CHE 112, PHY 102 or 112, MAT 127 or 162. General treatment of the principles of Physical Chemistry oriented toward the needs of students in the environmental sciences, health sciences and biology. Special Note: Not open to chemistry majors.

CHE 400 INORGANIC CHEMISTRY 3 cr. 3 cl.

Sp-80, Sp-81 (MS)

Prerequisite: CHE 305.

Laws and theories of inorganic chemistry with emphasis on the application of thermodynamic, kinetic and structural principles.

CHE 401 BIOCHEMISTRY I 4 cr. 6 cl.

F-79, F-80 (MS)

Prerequisite: CHE 305.

Physical and organic chemical studies of proteins, carbohydrates, lipids, and water applicable to cellular and membrane phenomena.

CHE 403 INSTRUMENTAL (ENS 300) ANALYSIS 4 cr. 8 cl.

F-79, F-80 (MS)

Prerequisites: CHE 301 and CHE 305.

Instrumental methods of chemical analysis through study of theory and operation of instruments including spectrophotometric, electroanalytical and chromatographic methods.

CHE 420 NUCLEAR CHEMISTRY 3 cr. 5 cl.

Sp-80, Sp-81 (MS)

Prerequisite: CHE 301.

Introduction to nuclear structure, radioactive decay, radiation chemistry, and radioisotope technique.

CHE 425 INDUSTRIAL CHEMISTRY 3 cr. 3 cl.

Sp-80, Sp-81 (MS)

Prerequisites: CHE 305 or 331, or equivalent, or permission of the instructor. Application of chemical principles to industrial operations. Subject matter will include the technologies of modern chemical processes and career opportunities in chemical industry. Topics to be covered may include: Fossil fuels, polymers, dye applications, sugars and starches, soaps and detergents, heavy chemicals, fermentation processes, explosives, agricultural chemicals, and pollution control methods.

CHE 430 ORGANIC CHEMISTRY III 3 cr. 3 cl.

F-79, Sp-81 (MS)

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 advisor must be secured prior to registration.

CHE 499 INDEPENDENT STUDY

Prerequisite: Approval of faculty advisor must be secured prior to registration.



Community/ Social Services

Offered by the Department of Community/Social Services & Criminal Justice
EDWARD L. MORGAN, Chairperson
Classroom Building 114C

CSS 105 INTERPERSONAL RELATIONS 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (R)

This course examines the process of which individuals attempt to reconcile their needs with the needs and demands of significant others in various settings. Required for all social work majors.

CSS 203 THE CHILD IN THE FAMILY 3 cr. 3 cl.

F-79, F-80

The first course in the human behavior in the social environment component of the social work program emphasizing the application of concepts, theories, and studies in the area of individual and family development. Required of all social work majors.

CSS 220 INTRODUCTION TO SOCIAL WORK 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81

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. Required for social work majors.

CSS 309 THE ADULT IN CONTEMPORARY SOCIETY 3 cr. 3 cl.

Sp-80, Sp-81 (R)

Prerequisite: CSS 203.

The second course in the human behavior in the social environment component of the Social Work Program. A consideration

of the impact of changing roles from young adulthood through death. Emphasis on application to human service practice.

CSS 310 SEXUALITY IN HUMAN DEVELOPMENT 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81

A course for future human service professionals which examines and analyzes human sexuality as part of human development. For Juniors and Seniors only.

CSS 317 EXPERIMENTAL CHILD AND FAMILY STUDIES 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81

Prerequisite: CSS 203, 309.

The application of research methodology and evaluative techniques to the field of social work with particular emphasis on child and family studies. Required for social work majors.

CSS 319 SOCIAL DYNAMICS OF POVERTY 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (R)

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. For Juniors and Seniors.

CSS 320 ORGANIZATION OF COMMUNITY SERVICES 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81

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.

(Continued p. 192)



**CSS 419 SOCIAL WELFARE
POLICY 3 cr. 3 cl.**

F-79, Sp-80, F-80, Sp-81

Prerequisite: CSS 220, 320. **Corequisite:** CSS field instruction, 423, 485. Consideration of the institutional response of American social welfare to individual and societal 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 effecting individuals, families and communities. For senior social work majors; by permission of instructor for non-majors.

**CSS 422 INTERVENTIVE
METHODS 3 cr. 3 cl.**

Sp-80, Sp-81

Prerequisite: CSS 105, 220, 320. **Required for social work majors.** Restricted to social work majors. 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.

**CSS 423 INTERVENTIVE
METHODS II 3 cr. 3 cl.**

F-79, F-80

Prerequisite: CSS 422. **Restricted to social work majors.** 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.

**CCS 440 PSYCHOPATHOLOGY IN
PARENT CHILD
RELATIONS 3 cr. 3 cl.**

F-79, Sp-80, F-80, Sp-81

Prerequisite: CSS 203, 309, or permission of instructor. A study of impairments in parent-child relationships including a representative survey of maladaptive reactions to family stress. Review of relevant ameliorative techniques and community mental health resources. Strong emphasis will be placed on theoretical and empirical findings.

**CSS 485 SENIOR SEMINAR
3 cr. 3 cl.**

Sp-80, Sp-81

Intensive analysis of selected topics in CSS. Restricted to majors in the final semester or special permission of Coordinator.

**CSS 490-494 FIELD INSTRUCTION
9-15 cr. 420 cl. (min.)**

F-79, Sp-80, F-80, Sp-81

Prerequisite: CSS 220, 320, 422. **Corequisite:** CSS 423, 485.

Supervised field experience in social services and mental health agencies in Buffalo and environs which meet standards of preparation for professional practice. On campus integrative seminar. Restricted to social work majors.

CSS 495 PROJECT

CSS 499 INDEPENDENT STUDY

Consumer and Family Studies

Offered by the Department of Consumer Studies & Home Economics
DR. SARAH L. MANNING, Chairperson
Caudell Hall 206

Many of the courses offered in Consumer and Family Studies are required by various programs. Please check the section of the catalog labeled Academic Programs under the headings of either Consumer and Family Studies or Home Economics Education to determine the requirements in your particular area of specialization.

**CFS 101 TRENDS IN CONSUMER
STUDIES 3 cr. 3 cl.**

F-79, F-80

Each CFS area will be presented and discussed to ascertain how it can aid the individual and society meet the future with formative and adaptable processes, showing career options available. Speakers and media will also be used to present opposing points of view. Classification: All college elective.

**CFS 107 INTRODUCTORY CLOTHING
3 cr. 4 cl.**

F-79, Sp-80, F-80, Sp-81

Appreciation of the sociological, psychological, aesthetic, and economic aspects of clothing; development of and understanding of basic construction skills. Required for HEE students only. Credit cannot be received for both CFS 107 and CFS 108.

CFS 108 APPAREL DESIGN 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81

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. Credit cannot be received for both CFS 107 and CFS 108.

**CFS 110 KNOW YOUR
MERCHANDISE 3 cr. 3 cl.**

F-79, Sp-80, F-80, Sp-81

A consumer-product analysis, designed to

familiarize students with men's, women's and children's clothing on the retail market. Fashion apparel, accessories, jewelry, toys and other consumer products will be investigated.

**CFS 212 THE FAMILY IN SOCIETY
AND CULTURE 3 cr. 3 cl.**

F-79, Sp-80, F-80, Sp-81 (R)

Study of the family against the background of social and cross-cultural perspectives. Social variation in family organization, community relationships. Credit cannot be received for both CFS 212 and SOC 203.

**CFS 230 FAMILY HEALTH AND
HOME NURSING 3 cr. 3 cl.**

F-79, Sp-80, F-80, Sp-81 (R)

Facts and procedures essential in preventing illness as well as maintaining and safeguarding the health of the individual and family techniques in home nursing, techniques in handling emergencies, community agencies concerned with family health.

**CFS 301 PREPARATION FOR MARRIAGE
AND FAMILY 3 cr. 3 cl.**

F-79, Sp-80, F-80, Sp-81 (R)

Prerequisite: Junior or senior standing.

This functional course examines and analyzes preparation for marriage and family relationships.

**CFS 302 HOUSEHOLD
EQUIPMENT 3 cr. 4 cl.**

F-79, Sp-80, F-80, Sp-81

Material and processes used in the manufacture of household equipment; problems of selection, use, arrangement and safety for satisfying home living.

**CFS 304 INTRODUCTION TO
RESEARCH METHODS 3 cr. 3 cl.**

Sp-80, Sp-81

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.

(Continued p. 194)

CFS 306 TEXTILE SCIENCE
3 cr. 4 cl.

F-79, Sp-80, F-80, Sp-81 (R)

Prerequisite: Organic Chemistry 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 cr. 4 cl.

F-79, Sp-80, F-80, Sp-81

Prerequisites: CFS 107 or 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 308 HUMAN DEV/FAMILY REL: ADOLESCENT YEARS THRU YOUNG ADULTHOOD 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (R)

Prerequisite: EDU 210.

Individual development during adolescence and young adulthood in family context.

CFS 309 ADULTHOOD 3 cr. 3 cl.

F-79, F-80 (R)

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.

CFS 310 ECONOMICS FOR CONSUMERS 3 cr. 3 cl.

F-79, F-80 (R)

Prerequisites: Beginning course in economics, junior or senior standing. Study of current consumer problems that arise out of dealings in the market, including fraud, product safety, consumer information, evaluation of private and government consumer programs.

CFS 315 CONSUMER PROBLEMS IN PERSONAL FINANCE 3 cr. 3 cl.

Sp-80, Sp-81

Prerequisite: Junior or senior standing. Credit cannot be received for both CFS 315

and CFS 325. Consumer problems and personal finance in today's economy. Emphasis placed on the consumer in the planning and spending of personal and family income.

CFS 320 PROBLEMS IN HOME EQUIPMENT 3 cr. 4 cl.

Sp-81

Prerequisite: CFS 302 or permission of instructor. The study of current developments in home equipment. Emphasis is placed upon individual investigation of home equipment, consideration of selection and arrangement of equipment for selected situations, individual and group evaluation of laboratory studies.

CFS 325 MANAGEMENT AND FAMILY FINANCE 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81

Credit cannot be received for both CFS 315 and CFS 325. Home management principles and application; process of management and interrelationships of the utilization of human and material resources.

CFS 331 HOUSING THE FAMILY 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (R)

Prerequisite: Junior or senior standing.

Individual and family needs and values in the selection of shelter; family spending patterns; design, location, fundamental equipment and furnishings of the home.

CFS 335 THE CONSUMER AND THE LAW 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (R)

Law concerning purchase of goods and services; consumer fraud, legal remedies.

CFS 357 CONTEMPORARY FASHION ANALYSIS 3 cr. 3 cl.

F-79, F-80

Prerequisites: CFS 107 or CFS 108, and CFS 306, or approval of instructor. Analysis of fashion cycles and theories, and consideration of societal influences on fashion. Students will examine current 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 409 ESSENTIALS OF SEX EDUCATION PROGRAMS 3 cr. 3 cl.

F-79, F-80 (R)

Course examines philosophies, approaches, content and materials related to education for sexuality in a variety of settings.

CFS 420 HOUSING AND THE URBAN CRISIS 3 cr. 3 cl.

Sp-80, Sp-81

Prerequisite: CFS 310 and CFS 331 or permission of the instructor. Housing supply, needs and related research; government in housing; housing design, urban renewal, community controls.

CFS 425 CLOTHING DESIGN THROUGH TAILORING 3 cr. 4 cl.

Sp-80, Sp-81

Prerequisites: CFS 306, CFS 307.

Selection, design, fitting and construction techniques pertaining to traditional and contemporary tailoring.

CFS 427 CLOTHING DESIGN THROUGH FLAT PATTERN TECHNIQUES 3 cr. 4 cl.

F-79, F-80

Prerequisites: CFS 306, CFS 307 or permission of instructor. Emphasis on fitting and figure problems; development of a master pattern from personal sloper; designing and creating garments through the use of flat pattern methods.

CFS 430 ISSUES OF THE MODERN AMERICAN FAMILY 3 cr. 3 cl.

Sp-80

Social, psychological and related concerns of the American family in the contemporary community.

CFS 431 FURNISHING THE HOME 3 cr. 3 cl.

F-79, F-80

Prerequisites: CFS 331 or permission of the instructor. Home environment in relation to individual and family needs and values; selection, arrangement, care and use of home furnishings and decorations.

CFS 437 TEXTILE EVALUATION 3 cr. 4 cl.

Sp-80, Sp-81

Prerequisite: CFS 306 or permission of the instructor. Fibers, yarns, fabrics and finishes emphasizing textile testing and utilizing test methods in relation to the consumer and environment.

CFS 438 URBAN CONSUMER NEEDS AND COMMUNITY SERVICES 3 cr. 3 cl.

F-79, F-80

Prerequisites: CFS 310, CFS 315 and CFS 335, permission of instructor. Urban needs of the individual and family, the availability, characteristics, functions of services and agencies within the community. Field experience.

CFS 439 PUBLIC POLICY AND THE CONSUMER INTEREST 3 cr. 3 cl.

Sp-80, Sp-81

Prerequisites: CFS 310, CFS 315 and CFS 335 or permission of instructor. Strongly recommended: economics and political science background. Junior or senior standing. 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 practical levels.

CFS 447 CLOTHING IN RELATION TO HUMAN BEHAVIOR 3 cr. 3 cl.

Sp-80, Sp-81

Prerequisite: CFS 107 or CFS 108.

Cultural, social and psychological aspects of clothing as they relate to human behavior. Directed study of individual interest.

CFS 448 COSTUME THROUGH THE AGES 3 cr. 3 cl.

Sp-81

Prerequisites: CFS 107 or 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.

(Continued p. 196)

CFS 449 TEXTILES THROUGH THE AGES 3 cr. 3 cl.

Ap-80

Prerequisites: CFS 306 or equivalent or permission of instructor. Survey of textiles from earliest period of time to the present with concentration on the technological development of textiles and its influence on today's design and culture.

CFS 457 FASHION MERCHANDISING 3 cr. 3 cl.

Sp-80, Sp-81

Prerequisite: CFS 306 or permission of instructor. Clothing and textiles merchandising procedures, markets, resources and trade practices, meaning and effect of fashion in relation to culture and society. Observation and evaluation of functions of local fashion operations.

CFS 458 CONSUMER PRODUCT STANDARDS 3 cr. 3 cl.

Sp-80, Sp-81

Prerequisites: CFS 302, CFS 306, NFS 334 or NFS 335, or permission of the instructor. A study of consumer problems in the field of product safety with emphasis on the roles and responsibilities of manufacturers, retailers, government and the consumer. Studies will be conducted which relate to flammability, hazardous substances, household equipment and other consumer products.

CFS 485 SENIOR SEMINAR 3 cr. 3 cl.

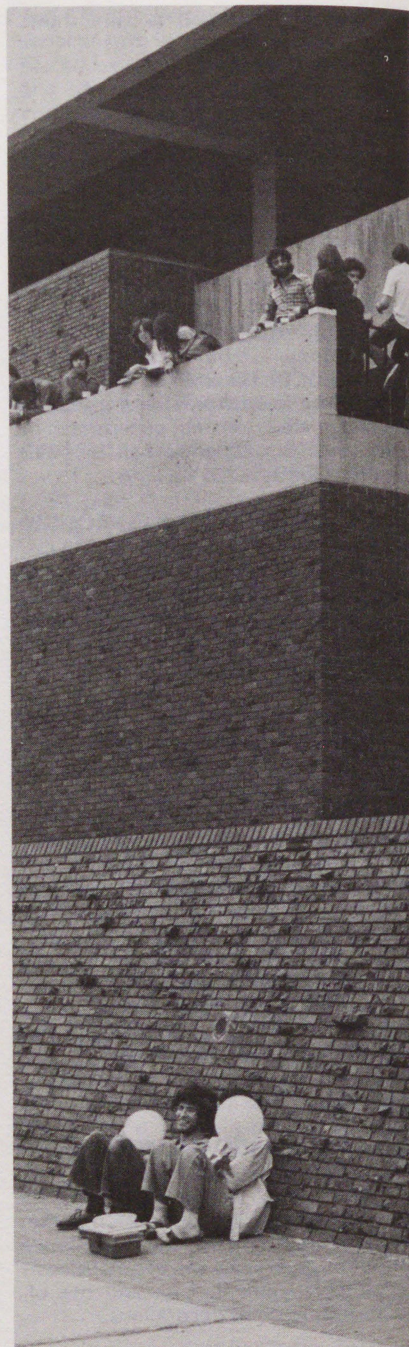
Sp-80, Sp-81

Intensive analysis of selected topics in human development and family relations.

CFS 490 FIELD EXPERIENCE 3-15 cr.

F-79, Sp-80, F-80, Sp-81

Prerequisites: Junior or senior standing, permission of the faculty. Obtain necessary forms in CH 207. Designed to provide for the integration of theoretical knowledge with practical experience in an institutional, business, social or governmental agency. Includes field participation, meetings with instructor, and written or other production.

CFS 495 PROJECT**CFS 499 INDEPENDENT STUDY**

Creative Studies

Offered by the Interdisciplinary Center for Creative Studies
DR. SIDNEY J. PARNES, Director
Chase Hall 217

CRS 205 INTRODUCTION TO CREATIVE STUDIES 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (R)

The purpose of this course is to increase the degree to which students recognize and nurture their creative potential, especially in sensing and meeting problems and challenges in all aspects of their academic and personal lives.

CRS 302 CREATIVE APPROACHES TO PROBLEM-SOLVING 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (R)

Prerequisite: CRS 205.

This course will allow students to further study and practice a variety of creative procedures for problem finding, problem analysis and problem solving, as applied to challenges in studying, in college adjustment and in other aspects of their own personal lives.

CRS 303 CREATIVE LEADERSHIP THROUGH EFFECTIVE FACILITATION 3 cr. 4 cl.

F-79, F-80 (R)

Prerequisite: CRS 302.

This course is designed to provide students with a greater grasp of creative principles and procedures, particularly for facilitation experience in problem-solving groups. A variety of pertinent problems concerning academic work, as well as the general college and personal life of students, will be used for the facilitation practice.

CRS 304 ADVANCED CREATIVE STUDIES 3 cr. 4 cl.

Sp-80, Sp-81 (R)

Prerequisite: CRS 303.

This course is designed (a) to provide further facilitation experience, and (b) to help students better analyze and interpret the literature of creativity in relation to

theories, research, and applications in discovering and nurturing creative talent.

CRS 305 SEMINAR/SYNECTICS 1 cr. 1 cl.

F-79, F-80 (R)

Prerequisite: CRS 302.

Selected topics of current interest related to methods, techniques, procedures, and models in problem solving and creativity, with particular emphasis upon synectics.

CRS 306 SEMINAR/CREATIVE ANALYSIS 1 cr. 1 cl.

Sp-80, Sp-81 (R)

Prerequisite: CRS 302.

Selected topics of current interest related to methods, techniques, procedures, and models in problem solving and creativity, with particular emphasis upon creative analysis.



Criminal Justice

Offered by the Department of Community/Social Services and Criminal Justice
EDWARD L. MORGAN, Chairperson
Classroom C114

CRJ 101 INTRODUCTION TO CRIMINAL JUSTICE SYSTEMS AND ADMINISTRATION 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (SS)
Analysis of the policies and practices of agencies involved in the operations of the criminal justice process from detection of crime and arrests of suspects through prosecution, adjudication, sentencing and imprisonment to release and revocation. The patterns of decisions and practices are viewed in the context of the entire criminal justice system, including the relationship of the public, the legislature, court, and agency in policy determination and control.

CRJ 201 CRIMINAL LAW AND PROCEDURES 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (SS)
This course is concerned with the administration of criminal law and criminal procedures. It will consist of an introduction and study of legal principles, doctrines and selected rules of the criminal law. The area of criminal procedure within the criminal justice system will also be explored, with emphasis on procedural problems and possible reforms.

CRJ 302 COMMUNITY ISSUES IN CRIMINAL JUSTICE 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (SS)
A discussion of the problems of crime as it confronts the American community and methods by which resolution may occur. This course makes extensive use of community professionals as guest speakers.

CRJ 315 RESEARCH DESIGN IN CRIMINAL JUSTICE 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (SS)
Prerequisite: Introductory Criminal Justice course; junior class standing; and ECO 305

or equivalent statistics course. Introduction to various data collection methods and questions of validity and reliability. Practical use of research devices in the criminal justice system is emphasized. The student will be required to develop a research design appropriate for use in the criminal justice field.

CRJ 316 FIELD STUDIES 6 cr. 6 cl.

F-79, Sp-80, F-80, Sp-81
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. (In-service students must be placed in fields other than that in which they are employed.) Graded S/U.

CRJ 317 (POL SC. 317) U.S. CONSTITUTION AND CIVIL LIBERTIES IN CRIMINAL JUSTICE 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (SS)
In-depth study of the legal principles influencing the origin and development of our criminal laws and the way, that over the years, these principles have evolved by court interpretation to accommodate social change and attitudes. The Bill of Rights and "due process" clause of the United States Constitution will be the focal point of this course.

CRJ 401 SEMINAR IN CRIMINAL JUSTICE 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81
Summation and evaluation of concepts, data and perceptions acquired by students from the experiences of the total Criminal Justice program at the two-year college and at SUCB. Required of all Criminal Justice majors. Elective (by consent of instructor) to other majors.

CRJ 402 ADVANCED ADMINISTRATION IN CRIMINAL JUSTICE 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (SS)
Advanced study in administration; analysis of the criminal justice organization internally and in relation to the external variables exercising organizational influence. Required of all Criminal Justice

majors. Elective (by consent of instructor) for other majors.

CRJ 406 INTRODUCTION TO CORRECTION MANAGEMENT 3 cr. 3 cl.

F-79 (SS)
An overview of the historical foundations of corrections and the development of principles of contemporary corrections administration. The organization, objectives and practices of modern probation services, institutions and after-care programs for juveniles and adults are examined and evaluated from the administrators' viewpoint.

CRJ 408 PROSEMINAR IN CRIMINAL JUSTICE 3 cr. 3 cl.

F-79 (SS)
Investigation, examination, and discussion of topics of current interest in criminal justice, techniques and analysis of criminal justice research. Topics to be announced.

CRJ 415 DECISION MAKING IN THE POLICE, JUDICIAL AND CORRECTIONAL SYSTEMS 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (SS)
Prerequisite: Junior class standing.
For example, the decision to arrest, to prosecute, the sentencing decision and those defining the correctional approach. The theoretical base of the course is a decision making model of value and stability performed at the critical juncture points of the system.

CRJ 418 ANALYSIS OF HOMICIDE

F-79, Sp-80, F-80, Sp-81 (SS)
Prerequisite: Upper division standing and 12 semester hours of criminal-justice-related courses or permission of instructor.
An analysis of criminal-justice response to criminal homicide through studying contemporary multiple homicide in the Buffalo area. Uses all pertinent documents and video-tapes of interrogation and confession. Surveys, theories, models, novel explanations and typologies.

CRJ 495 PROJECT

CRJ 499 INDEPENDENT STUDY

Dance

Offered by the Department of Performing Arts
DR. JAMES F. MABRY, Chairperson
Albright Hall 201

The Dance Minor requires DAN 201, DAN 302, DAN 303, and DAN 312.

DAN 200 BEGINNING MODERN TECHNIQUE 2 cr. 3 cl.

F-79, F-80 (A)
Exploration of movement in relation to time, space and energy and to the principle of alignment and balance through technique and improvisation.

DAN 201 RHYTHMIC ANALYSIS AND DANCE 3 cr. 3 cl.

(A)
Awareness and perception of rhythm. Analysis of rhythm in relation to music and movement, and to modern dance. Rhythmic devices utilized in dance. Study and application of percussion instruments as accompaniment for movement and dance.

DAN 220 BEGINNING BALLET 2 cr. 3 cl.

F-79, F-80 (A)
Designed to give the beginner an intensive introduction to ballet through the exploration of ballet technique, anatomical and aesthetic foundations, and ballet history.

DAN 224 DANCE APPRECIATION 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (A)
An elementary course in the history and philosophy of dance from ancient times until the present. Also some work in evaluation and criticism of modern dance.

DAN 250 JAZZ DANCE 3 cr. 6 cl.

(A)
Prerequisite: One semester of college Dance course or consent of instructor. A concise survey of the techniques and styles of jazz dance, from primitive to rock,

(Continued p. 200)

designed to give the student a comprehensive foundation in the jazz dance idiom. Emphasis will be placed on movement studies and basic compositional problems, illustrating the diverse possibilities of jazz dance.

**DAN 302 MODERN DANCE
TECHNIQUE AND
PRESENTATION 3 cr. 6 cl.**

F-79, F-80 (A) Fee \$10.

Prerequisite: "Dance 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 cr. 6 cl.**

(A)

Prerequisite: One semester of Modern Dance or equivalent and/or permission of instructor. Research in individual and group composition evaluation of original compositions.

**DAN 312 MODERN DANCE
TECHNIQUE 3 cr. 6 cl.**

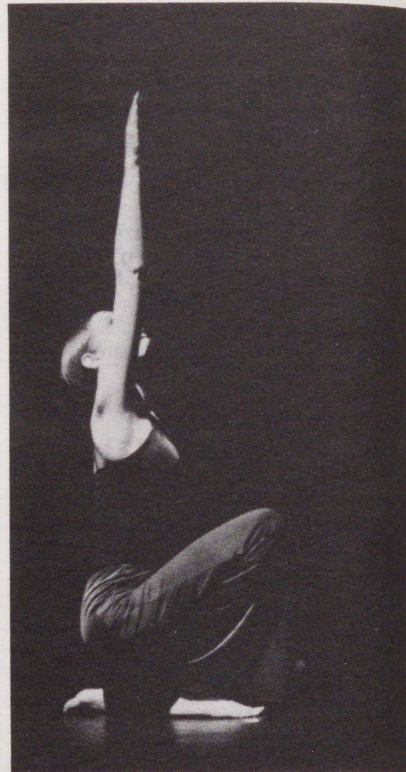
Sp-80, Sp-81 (A) Fee \$15.

Prerequisite: DAN 302 or permission of instructor. Open to students by audition only. This course offers the student exposure to various dance performance experiences. The student will be given the opportunity to participate in the processes involved in building a finished dance production, including audition, organizational rehearsals, and technical rehearsals.

**DAN 320 REHEARSAL AND
PRODUCTION 1 cr. 6 cl.**

Sp-80, Sp-81 (A)

Open to students by audition only. This course offers the student exposure to various dance performance experiences. The student will be given the opportunity to participate in the processes involved in building a finished dance production, including audition, organizational rehearsals, and technical rehearsals.



DAN 401 TEACHING DANCE 3 cr. 3 cl.
Sp-80, Sp-81

Prerequisite: DAN 201 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 teaching experience.

DAN 330 BALLET II 3 cr. 6 cl.
Sp-80, Sp-81 (A) Fee \$5.

Prerequisite: DAN 220 and/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 495 PROJECT

DAN 499 INDEPENDENT STUDY

Design

Offered by the Department of Design
MARIANNE VALLET-SANDRE, Chairperson
Upton Hall 315

**DES 105 INTRODUCTORY DESIGN
3 cr. 4 cl.**

F-79, Sp-80, F-80, Sp-81 (A)

Estimated Expenses \$25

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 106 EXPLORATORY DESIGN
3 cr. 4 cl.**

F-79, Sp-80, F-80, Sp-81 (A)

Estimated Expenses \$25

Prerequisite: DES 105

A continuation of the fundamentals of design with emphasis on compositional structure, color, spatial manipulation and three dimensional images. Development of skills in various media.

**DES 107 MECHANICAL AND
PERSPECTIVE DRAWING
3 cr. 4 cl.**

F-79, Sp-80, F-80, Sp-81 (A)

Estimated Expenses \$25

Descriptive drawing, including orthographic, isometric and perspective projection, as an aid in visualizing and planning the construction of three-dimensional art objects.

**DES 190 DESIGN SYMPOSIUM
3 cr. 3 cl.**

F-79, Sp-80, F-80, Sp-81 (A)

A non-technical study for non-majors of design as it relates to varied fields in our culture. Presentation of brief reviews of design as it functions in architecture, planning, and environment, metal, wood, ceramics, and textiles as well as advertising and industrial design. Elective except for Design, Fine Arts, Art Education, BA (Art) majors.

**DES 191 WORKSHOP IN CRAFTS I
3 cr 4 cl.**

F-79, Sp-80, F-80, Sp-81 (A)

Estimated Expenses \$15-25 dependent on projects selected

Creative experience in crafts, individual projects. Elective except for Design, Fine Arts, Art Education, BA (Art) majors. Fee depends upon project selected.

DES 205 ADVANCED DESIGN I 3 cr. 4 cl.

F-79, Sp-80, F-80, Sp-81 (A)

Expenses dependent on projects selected.

Prerequisite: DES 105 and 106.

The continued study of the origins, meanings, and dimensions of artistic form. Theoretical problems in two-dimensional and multi-dimensional problem areas.

**DES 210 ENVIRONMENTAL PLANNING
AND DESIGN 3 cr. 4 cl.**

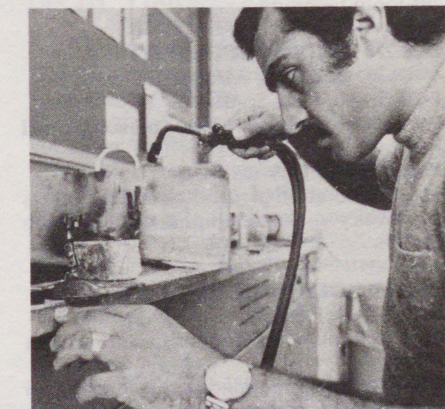
F-79, Sp-80, F-80, Sp-81 (A)

Estimated Expenses \$10

Prerequisite: DES 107 or equivalent

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 response of others. Studio projects use this shared experience to examine ways we can make our environment more "fertile," capable of sustaining and encouraging a wide range of human activity.

(Continued p. 202)



DES 230 VISUAL COMMUNICATIONS
3 cr. 4 cl.

F-79, Sp-80, F-80, Sp-81 (A)

Prerequisite: DES 106

Introduction to specialized work in advertising and graphic design. Influence of sociological and psychological data on contemporary visual symbolism. Studio problems in the design of editorial and promotional communications.

DES 240 DESIGN IN WOOD 3 cr. 4 cl.

F-79, Sp-80, F-80, Sp-81 (A)

Fee: \$10 Minimum—Depends upon projects selected**Prerequisite:** DES 106

Wood as a medium for expression and object design; technical and aesthetic problems.

DES 250 INTRODUCTION TO POTTERY
3 cr. 4 cl.F-79, Sp-80, F-80, Sp-81 (A) **Fee:** \$10

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 260 DESIGN IN FIBERS 3 cr. 4 cl.

F-79, Sp-80, F-80, Sp-81 (A)

Fee: \$10 plus additional expenses dependent on projects selected**Prerequisite:** DES 106

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 270 INTRODUCTION TO JEWELRY MAKING 3 cr. 4 cl.

F-79, Sp-80, F-80, Sp-81 (A)

Fee: \$10 plus approx. \$20 for personal small hand tools**Prerequisite:** DES 105

Basic exploration of materials and processes in jewelry making, emphasizing creative design.

DES 276 DESIGN IN METAL 3 cr. 4 cl.

F-79, Sp-80, F-80, Sp-81 (A)

Fee: Minimum \$15 depends upon project selected.

Metalsmithing as a medium for expression and object design, utilizing the unique

qualities of various metals and working techniques.

DES 302 COLOR, LIGHT AND MOTION
3 cr. 4 cl.

F-79, Sp-80, F-80, Sp-81 (A)

Fee: \$50 depends upon selected projects.

Advanced studies in color, light, and motion in the 2 & 3 dimensions. Individual studies in each area leading to projects involving the interaction of all areas.

DES 310 URBAN DESIGN 3 cr. 4 cl.

F-79, Sp-80, F-80, Sp-81 (A)

Fee: Estimated Expense \$10**Prerequisite:** DES 210

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 315 PUPPETRY 3 cr. 4 cl.Sp-80, Sp-81 (A) **Fee:** \$20

Puppet conception, instruction, staging and performance; study of all puppet forms on an individual and/or group basis.

DES 316 INTERIOR DESIGN I 3 cr. 4 cl.

F-79, Sp-80, F-80, Sp-81 (A)

Fee: Depends upon projects.**Prerequisite:** DES 107

An introductory course in the architectural design of interior space. New concepts and techniques, space, materials, color, aesthetics and aspects of function will be explored. The students will begin to develop basic drafting and presentation techniques for the analysis of design ideas.

DES 318 SCENOGRAPHY 3 cr. 4 cl.

F-79, Sp-81 (A)

Design for the 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 work drawings and the making of models.

**DES 320 FORM AND FUNCTION** 3 cr. 4 cl.

F-79, Sp-80, F-80, Sp-81 (A)

The practical application of 2 and 3 dimensional design principles towards the analysis, evolution and development of utilitarian forms in a changing environment.

DES 330 ADVERTISING DESIGN
3-6 cr. 4 cl.

F-79, Sp-80, F-80, Sp-81 (A)

Prerequisite: DES 230

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 331 ILLUSTRATION 3-6 cr. 4 cl.F-79, Sp-80, F-80, Sp-81 (A) **Fee:** \$5**Prerequisite:** DES 230

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 332 PHOTOMECHANICAL DESIGN
3-6 cr. 4 cl.

F-79, Sp-80, F-80, Sp-81 (A)

Fee and Materials \$50

Prerequisite: DES 106, FAR 220 or IAE 208. Photomechanical processes as a design and illustration medium. Studio experiences with copy film, color-proofing materials, and photostencil silkscreen process.

DES 333 CHILDREN'S BOOK ILLUSTRATION 3 cr. 4 cl.

F-79, Sp-80, F-80, Sp-81 (A)

Expenses dependent on projects selected.**Prerequisite:** DES 230

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 based on an understanding of skill, communication, production, design and audience.

(Continued p. 203)

**DES 334 LETTERING AND TYPOGRAPHY 3 cr. 4 cl.**

F-79, Sp-80, F-80, Sp-81 (A) Fees: \$10

Prerequisite: DES 230

The uses of typographic forms in graphic design. Problems in type specification, indication and arrangement. Study of the origins of the Western alphabet with exercises in calligraphy and hand lettering. Page and booklet layout.

DES 340 ADVANCED STUDIO IN WOOD DESIGN 3 cr. 4 cl.

F-79, Sp-80, F-80, Sp-81 by arrangement (A)

Fee: \$10—Additional expenses dependent on projects selected.**Prerequisite:** DES 240

The design and creation of a major project in wood, approached from the viewpoint of the designer-craftsman, utilizing a range of techniques, hand, power, and machine tools as needed.

DES 341 ADVANCED STUDIO IN WOOD DESIGN 3 cr. 4 cl.

F-79, Sp-80, F-80, Sp-81 by arrangement (A)

Fee: \$10—Additional expenses dependent on projects selected**Prerequisite:** DES 340

The design and creation of a major project in wood, approached from the viewpoint of the designer-craftsman, utilizing a range of techniques, hand, power, and machine tools as needed.

DES 350 INTERMEDIATE POTTERY —GLAZES 3 cr. 4 cl.F-79, F-80 (A) **Fee: \$20****Prerequisite:** DES 250

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 351 ADVANCED POTTERY—GLAZES 3 cr. 4 cl.F-79, F-80 (A) **Fee: \$20****Prerequisite:** DES 350

Continued studio practice in pottery form, glaze and firing methods with emphasis on individual interests. Independent work in the formulation of original glazes.

DES 352 INTERMEDIATE POTTERY —CLAYS 3 cr. 4 cl.Sp-80, Sp-81 (A) **Fee: \$20****Prerequisite:** DES 250

Studio practice in pottery form, glaze and firing methods through assigned problems and individual interests. Lectures and laboratory in clays and pottery materials.

DES 353 ADVANCED POTTERY—CLAYS 3 cr. 4 cl.Sp-80, Sp-81 (A) **Fee: \$20****Prerequisite:** DES 352

Continued practice in pottery form glaze and firing methods with emphasis on individual interests. Independent work in clay bodies.

DES 362 TEXTILE WEAVING 3-6 cr. by arrangement 4 cl.

F-79, F-80 (A)

Fee: \$10 plus additional expenses dependent on projects selected.**Prerequisite:** DES 260

Study and experience in basic techniques of floor loom weaving; pattern drafting; expressive and controlled design in woven fabric structures; aesthetic and practical considerations.

DES 364 TEXTILE PRINTING 3 cr. 4 cl.

F-79, Sp-80, F-80, Sp-81 (A)

Fee depends upon project selected.

Advanced study and exploration of textile printing processes, with emphasis on such techniques as silk screen, batik and block

printing on cloth; aesthetic and practical considerations in the design of printed textiles.

DES 365 TEXTILE PRINTING 3-6 cr. by arrangement 4 cl.

F-79, Sp-80, F-80, Sp-81 (A)

Fee depends upon project selected.

Advanced study and exploration of textile printing processes, with emphasis on such techniques as silk screen, batik and block printing on cloth; aesthetic and practical considerations in the design of printed textiles.

DES 366 APPLIED TEXTILE TECHNIQUES 3 cr. 4 cr.

(A) Offered by arrangement with instructor through Course-by-Contract

Fee: Depends upon project selected.**Prerequisite:** DES 260

Advanced study and exploration in such applied textile techniques as quilting, stitching, basketry, applique, knotting and hooking; aesthetic and practical considerations in making of wall hangings, banners and sculptural fiber forms.

DES 371 CAST JEWELRY 3 cr. 4 cl.

Sp-80, Sp-81 (A)

Fee: \$15 plus hand tools required in DES 270**Prerequisite:** DES 106, DES 270 desirable.

Design, materials and processes in casting jewelry in silver and gold.

DES 376 METALSMITHING 3-9 cr. 4 cl.

F-79, Sp-80, F-80, Sp-81 (A)

Fee: Minimum \$15—Additional expense depends upon project selected.**Prerequisite:** DES 276

Advanced experience in metalsmithing as a continuation of forming techniques introduced in DES 276.

DES 430 GRAPHIC DESIGN 3-9 cr. 4 cl.F-79, Sp-80, F-80, Sp-81 (A) **Fee: \$10****Prerequisite:** DES 230

Advanced problems in advertising, publication and packaging design. Materials, techniques and processes used in the preparation of visuals, design presentations and mechanicals. Emphasis on individual solutions to problems typical of those confronting the professional graphic designer.

DES 435 EXHIBITION TECHNIQUES 3 cr. 4 cl.

Sp-80, Sp-81 (A)

Basic design theory and communications in the field of exhibits, displays, and signage. Emphasis on structural concepts, lighting, kinetics, function materials and visual esthetics.

DES 439 GRAPHIC DESIGN PRACTICUM 3 or 6 cr. 8-16 cl.

F-79, Sp-80, F-80, Sp-81 (A)

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 8 hours a week for three credit hours. Admission by permission of Graphic Design advisors after portfolio review.

DES 454 CERAMIC SCULPTURE 3 cr. 4 cl.

Offered each semester by Contract. (A)

Fee: \$20**Prerequisite:** DES 250

Exploration of clay as a plastic, sculpture medium: relief, freestanding and architectural forms.

(Continued p. 206)



DES 459 SENIOR STUDIO IN POTTERY
6 cr. 18 cl.

Offered each semester by Contract. (A)

Fee: \$20**Prerequisite:** DES 350, 352, 454. **Required of all pottery majors.** Individually planned problems after consultation with instructors. Independent creative production.**DES 460 ADVANCED STUDIO IN TEXTILE DESIGN**
3-6 cr. by arrangement 4 cl.

Sp-80, Sp-81 (A)

Fee: \$10 plus additional expenses dependent upon projects selected.**Prerequisite:** DES 260, DES 362, DES 364, DES 366 **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 470 ADVANCED STUDIO IN JEWELRY** 3 cr. 4 cl.

F-79, Sp-80, F-80, Sp-81 (A)

Fee: \$15 plus small hand tools required in DES 270.**Prerequisite:** DES 270

Advanced exploration of materials and processes used in jewelry making, with increasing emphasis on design aspects; individually selected projects.

DES 471 ADVANCED STUDIO IN JEWELRY 3 cr. 4 cl.

F-79, Sp-80, F-80, Sp-81 (A)

Fee: \$15 plus small hand tools required in DES 270.**Prerequisite:** DES 470

Advanced exploration of materials and processes used in jewelry making, with increasing emphasis on design aspects; individually selected projects.

DES 495 PROJECT**DES 499 INDEPENDENT STUDY****Distributive and Business Education**Offered by the Department of Business Studies
DR. GREGORY W. GRAY,
Chairperson
Chase Hall 306**DED 300 PRINCIPLES OF BUSINESS AND DISTRIBUTIVE EDUCATION** 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81

Role of public relations, funding, history, philosophy, and business and distributive education program organization and operation in the secondary school. Required of Distributive Education and Business Education majors.

DED 401 CURRICULUM AND EVALUATION IN BUSINESS EDUCATION AND DISTRIBUTIVE EDUCATION 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81

Prerequisite: DED 300; **junior standing or permission of the instructor.** The development of school strategies and materials for the teaching of Business Education and Distributive Education subjects at the secondary level. Emphasis on designing modules of instruction, student evaluation in a business setting, and establishing student performance norms. Required of Business Education and Distributive Education majors.**DED 411 METHODS OF TEACHING BUSINESS AND DISTRIBUTIVE EDUCATION** 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81

Prerequisite: DED 300

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 and Business Education majors.

DED 414 ADMINISTRATION AND SUPERVISION OF YOUTH ORGANIZATIONS IN BUSINESS EDUCATION AND DISTRIBUTIVE EDUCATION 3 cr. 3 cl.

Sp-80, Sp-81

Prerequisites: DED 300, **Principles of Distributive Education.** Provide potential Business and Distributive Education teachers with those competencies needed to effectively perform the duties of a Future Business Leaders of America or Distributive Education Clubs of America chapter advisor. The basic principles and concepts would be applicable to other advisors of youth organizations.**DED 415 STUDENT TEACHING** 12 cr.

F-79, Sp-80, F-80, Sp-81

Prerequisite: DED 300, DED 411, **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 the total school program; weekly on-campus seminar as assigned. Required of Business Education and Distributive Education majors.**Economics**Offered by the Department of Economics & Political Science
DR. RICHARD J. KIEFFER, Chairperson
Classroom Building B210**ECO 101 THE ECONOMIC SYSTEM** 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (SS)

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.

ECO 103 ECONOMIC HISTORY OF THE UNITED STATES 3 cr. 3 cl.

Sp-81 (SS)

The development of the various sectors of the American economy: manufacturing, commerce, agriculture, transportation, the monetary system and organized labor from the American Revolution until the present.

ECO 201 PRINCIPLES OF MACROECONOMICS 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (SS)

A study of the economy as a whole which examines 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.

ECO 202 PRINCIPLES OF MICROECONOMICS 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (SS)

A study of the individual economic units in

(Continued p. 208)

the economy—consumers, firms, and resource owners—to determine how their decisions influence market prices and industry output. Includes a discussion of supply and demand, competition and monopoly, corporations, capitalism and socialism, labor, and international trade. Required for majors.

ECO 301 ECONOMICS OF LABOR RELATIONS 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (SS)

Prerequisite: Upper class standing.

A study of present-day techniques in labor management negotiations; the collective bargaining agreement; the development and structure of organized labor; principal labor relations legislation.

ECO 304 MONEY AND BANKING 3 cr. 3 cl.

Sp-80, Sp-81 (SS)

Prerequisite: ECO 201 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 the 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 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (SS)

Introduction to elementary statistical principles, descriptive statistics and statistical inference; applications in economics, business, and criminal justice. Required for major. (Majors may substitute MATH 111)

ECO 307 INTERMEDIATE MICROECONOMICS 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (SS)

Prerequisite: ECO 202

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 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (SS)

Prerequisite: ECO 201

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 310 ECONOMICS OF POVERTY 3 cr. 3 cl.

Sp-80 (SS)

A broad survey of the extent of poverty in the United States. While the social and political aspects will be considered, emphasis will be placed on an economic analysis of the cost of poverty and the alternative cost of reducing it.

ECO 314 CORPORATION FINANCE 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (SS)

Introduction to corporate financial management, and the U.S. capital markets, including the stock market. No previous course work in Economics is required.

ECO 316 INDUSTRIAL ORGANIZATION 3 cr. 3 cl.

F-80 (SS)

Prerequisite: ECO 202 or ECO 101 and consent of instructor. Students learn how basic microeconomic theory can be used to understand the activity of firms in U.S. industries and how to evaluate the performance of these industries. Selected industry studies (e.g., case studies of the beer, automobile, and professional sports industries) are used to examine the structure, conduct, and performance of actual U.S. industries.

ECO 317 ECONOMIC POLICY: GOVERNMENT AND BUSINESS 3 cr. 3 cl.

Sp-80, Sp-81 (SS)

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 anti-trust policy, regulation of utilities, con-

glomerates, multinational corporations, and public enterprise.

ECO 320 MANAGERIAL ECONOMICS 3 cr. 3 cl.

F-79, F-80 (SS)

Prerequisite: Background in statistics

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 325 BUSINESS AND ECONOMIC FORECASTING: AN INTRODUCTION TO ECONOMETRICS 3 cr. 3 cl.

F-79, F-80 (SS)

Prerequisite: ECO 201, ECO 305 or equivalent introductory 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 340 FEDERAL INCOME TAXATION 3 cr. 3 cl.

Sp-81 (SS)

Prerequisite: Upper-class standing or consent of instructor. An examination of the tax principles and policies 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 Code.

ECO 350 PUBLIC FINANCE 3 cr. 3 cl.

F-80 (SS)

Prerequisite: ECO 202 or consent of instructor. 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 401 INTERNATIONAL ECONOMICS 3 cr. 3 cl.

F-79 (SS)

Prerequisite: ECO 201 and ECO 202 or consent of instructor. 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 balances.

ECO 402 SEMINAR IN CURRENT ECONOMIC PROBLEMS 3 cr. 3 cl.

Sp-80 (SS)

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 cr. 3 cl.

F-80 (SS)

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 cr. 3 cl.

F-79 (SS)

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. Required for B.A. in Economics, but not for Management Concentration.

ECO 409 GEOGRAPHY OF MANUFACTURING AND SERVICE INDUSTRIES 3 cr. 3 cl.

See description listed under GEG 409.

ECO 411 REGIONAL ECONOMICS 3 cr. 3 cl.

F-80 (SS)

Prerequisite: ECO 201 and ECO 202 or consent of instructor. Analysis of location of economic activity, urbanization patterns, and regional growth and development.

(Continued p. 210)

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 cr. 3 cl.
F-79, Sp-81 (SS)

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 425 RESEARCH METHODS IN ECONOMICS 3 cr. 3 cl.

Sp-81 (SS)

Prerequisite: ECO 325

Introduces students to basic methods and problems in applied economic research and advanced econometric techniques. Is an extension of ECO 325 into the topics of organizing research projects, finding sources of data, selecting econometric techniques, using the computer, and writing research reports.

ECO 495 PROJECT

ECO 499 INDEPENDENT STUDY



Education

The education program is divided between two separate departments. Those courses designated with (*) are taught by the Behavioral and Humanistic Studies Department. Those having no designation are taught by the Curriculum and Supervision Department.

Department of Behavioral and Humanistic Studies
Chairperson
Bacon Hall 303

Department of Curriculum and Supervision
DR. NORMAN G. WALKER, Chairperson
Bacon Hall 302

EDU 120 FUNDAMENTALS OF READING AND STUDY SKILLS 3 cr. 3 or 4 cl.

F-79, Sp-80, F-80, Sp-81

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.

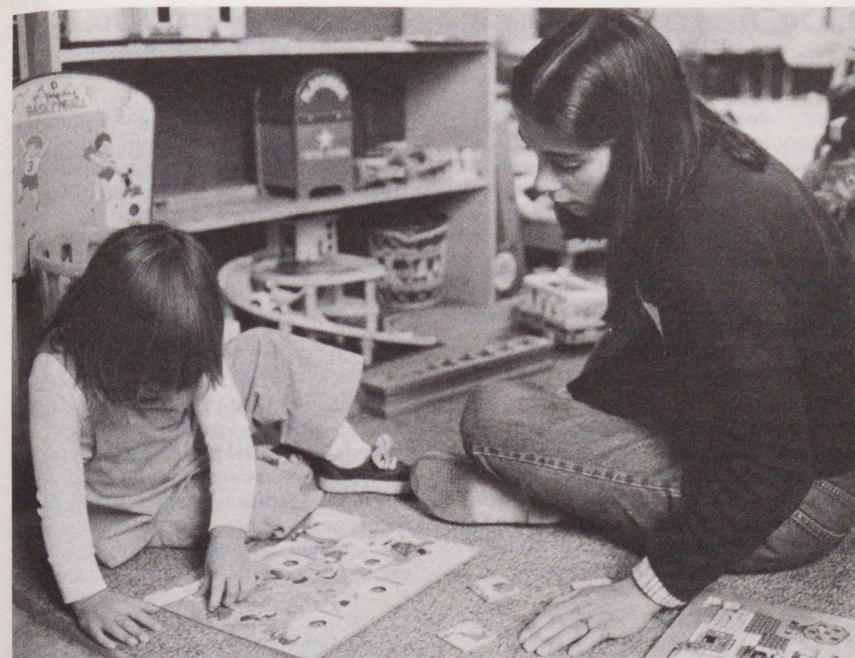
EDU 150 TUTORIAL READING 3 cr. 3 cl.
F-79, Sp-80, F-80, Sp-81

A teacher training tutorial type program. Students are trained in the techniques of the teaching of reading and students tutor 3 days a week at an inner city school on a one to one basis. A prime objective is an improvement of the tutor's as well as the child's reading skills. Permission of instructor is necessary.

EDU 201 SCHOOL AND SOCIETY 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81

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.

EDU 206 INTRODUCTION TO THE GROUP EXPERIENCE 3 cr. 3 cl.

F-80

Exploration and development of basic attitudes, understandings and skills involved in democratic group participation through laboratory and academic experiences. Elective.

EDU 207 SEMINAR ON HIGHER EDUCATION 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81

Emphasis on current issues on the college and university campus, although there is a brief treatment of the development of the university. Discussions revolve around spirit of inquiry, academic freedom for students and faculty, curriculum, teaching, rights and responsibilities, leadership, organization, and the place of the university regarding social problems. Elective.

EDU 208 SEMINAR ON THE COLLEGE STUDENT 3 cr. 3 cl.

Sp-80, Sp-81

Concern with the development of young adults in the settings of the larger culture and the sub-cultural milieu of the campus. Topics such as attitudes, values, types of students, activism, alienation, identity, drugs, sexuality, vocational goals and the impact of the institution on students will be considered. Elective.

EDU 210 INTRODUCTION TO HUMAN DEVELOPMENT 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81

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 level.

(Continued p. 212)

EDU 217 PERSPECTIVES ON EARLY CHILDHOOD EDUCATION
3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81

Prerequisite: EDU 210 or equivalent

A chronological overview of the influences of social and philosophical theories on early childhood. Attention is given to the changing needs of families of Child Care and Child Development Services for Pre-Kindergarten children. Classification: all-college elective general-liberal.

EDU 221 THE HISTORY OF (AAS 221) BLACK EDUCATION IN AMERICA 3 cr. 3 cl.

F-79, F-80 (SS)

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.

EDU 222 THE DEVELOPMENT OF (AAS 222) MODERN EDUCATION IN AFRICA 3 cr. 3 cl.

Sp-80, Sp-81 (SS)

A phase 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.

EDU 225 ETHNIC STUDIES IN THE EDUCATIVE PROCESS 3 cr. 3 cl.

Sp-80, Sp-81

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, are treated as unique groups with their own special values and needs. This course is sensitive to the conflicts, internal and external, between the various ethnic groups and mainstream American life and education.

EDU 300 INTRODUCTION TO TEACHING THE URBAN CHILD 3 cr. 3 cl.

Sp-80, Sp-81

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 301 THE TEACHING OF SOCIAL, STUDIES, SCIENCE AND MATHEMATICS 6 cr. 9 cl.

F-79, Sp-80, F-80, Sp-81

Prerequisites: EDU 201; 210; 314; 351 or 352; **cumulative average of 2.00.** Basic curriculum course; selecting, organizing and presenting elementary school science, mathematics, and social studies materials; evaluating pupil progress; observation and elementary classroom participation. Required of all EE majors and EXE majors seeking dual certification.

EDU 303/SED 303 EDUCATIONAL PSYCHOLOGY 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81

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 of secondary education majors according to program, and HEE and IAE education majors.

EDU 305 THE CHILD AND THE CURRICULUM 3 cr. 9 cl. (½ sem.)

F-79, Sp-80, F-80, Sp-81

Prerequisites: EDU 201; 210; 350; 351; or 352; 314; **cumulative average of 2.00 or higher.** Methods and materials for teaching mathematics, social studies, and science in the elementary school; selection, organization and evaluation of learning experiences; practical classroom experiences in working with children. Required of EXE juniors seeking single certification in exceptional education only.

EDU 314 TEACHING READING AND THE OTHER LANGUAGE ARTS IN THE ELEMENTARY SCHOOL 6 cr. 8 cl.

F-79, Sp-80, F-80, Sp-81

Prerequisites: EDU 201; 210; 350; 351, or 352. Development of attitudes, knowledges, skills necessary to extend communication skills of elementary children; interrelation 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 juniors.

EDU 318 LABORATORY IN THE STUDY OF YOUNG CHILDREN 3 cr. 4 cl.

F-79, Sp-80, F-80, Sp-81

Prerequisite: EDU 210 or PSY 355, or equivalent, or by permission of instructor. Application of child development principles in studying young children as individuals and group members. Students observe, record behavior, and participate in the teaching process at the College Learning Laboratory with children ages two to six years.

EDU 321 THE TEACHER AS DRUG EDUCATOR 3 cr. 3 cl.

Sp-80, Sp-81

Prerequisite: Junior or senior standing, completion of introductory courses in Human Development, Psychology and/or Behavioral Studies. An encounter group exploration of personal and professional components of drug education; the drug scene and its cultural context; psychological aspects of drug use and abuse; strategies of drug education. Elective for juniors and seniors in Education.

EDU 329 TECHNIQUES AND MATERIALS FOR PRE-KINDERGARTEN GROUPS 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81

Prerequisite: EDU 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 (creative play, art, music, science, mathematics, and language arts experiences).

EDU 333 INTRODUCTION TO EARLY CHILDHOOD EDUCATION 3 cr. 3 cl.

Sp-80

Exploration and development of basic attitudes, understandings, historical perspective and current approaches to early childhood education—nursery, kindergarten and primary levels; consideration of the culture, and the many interwoven complex factors related to a young child's behavior and learning.

EDU 338 OBSERVATION AND STUDY OF CHILDREN: NURSERY/PRIMARY 3 cr. 1-3 cl.

F-79, F-80

Prerequisite: EDU 210 or equivalent

Provides opportunity for students interested in early childhood education to study child behavior and development in nursery/primary school or other settings; special individual projects including observation and participation experiences.

EDU 350 HUMAN DEVELOPMENT DURING EARLY CHILDHOOD 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81

Prerequisite: EDU 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 substitutions—EDU 351; EDU 352; elective for others.

EDU 351 HUMAN DEVELOPMENT DURING MIDDLE CHILDHOOD 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81

Prerequisite: EDU 210

A consideration of child development and behavior with emphasis on teach-

(Continued p. 214)

ing/learning implications. Topics include a study of developmental processes during these ages, methods of studying children, problems of child behavior and development, and an analysis of learning in home and elementary school. Required of EE and EXE majors; permissible substitutions—EDU 350, 352; elective for others.

EDU 352 HUMAN DEVELOPMENT DURING EARLY CHILDHOOD
3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81

Prerequisite: EDU 210

A consideration of pre-adolescent and early adolescent behavior and development with emphasis on teaching/learning implications. Topics include a study of developmental processes during these ages, methods of studying youth, problems of pre-adolescent and early adolescent behavior and development, and an analysis of learning in home, community, and middle/junior high school settings. Required of EE and EXE majors; permissible substitutions—EDU 350, 351; elective for others.

EDU 353 HUMAN DEVELOPMENT DURING ADOLESCENCE
3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81

An introduction to the study of adolescent behavior and development with emphasis on implications for secondary school teaching. Includes a consideration of the nature of adolescence, developmental and behavioral characteristics, learning and secondary education, problems and issues of adolescents in today's society, ways teachers can study adolescents, and self-understanding. Required of Secondary Education majors according to program; elective for others.

EDU 401 PRACTICUM IN TEACHING
12 cr. 30 cl.

F-79, Sp-80, F-80, Sp-81

Prerequisite: Grade of "C" or higher in EDU 301 and EDU 314; average of 2.0 or higher in the professional sequence; cumulative average of 2.0 or higher in all coursework; passing grade in ENG 101-2 or equivalent; if referred, satisfactory completion of, or exemption from, EXE 100 (Student Speech Clinic).



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 extended majors and EXE majors (MR, PH, LBD) are required to take EDU 404.

EDU 402 SEMINAR IN EDUCATION
3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81

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 403, SED 304 HISTORICAL AND PHILOSOPHICAL FORCES INFLUENCING SECONDARY EDUCATION 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81

European influences in American education; religious 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. Classification: Required of 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; taken in the last semester when student teaching occurs in the first semester of the senior year.

EDU 404 PRACTICUM IN ELEMENTARY SCHOOL TEACHING 6 cr. 30 cl. (½ sem.)

F-79, Sp-80, F-80, Sp-81

Prerequisite: Grade of "C" or higher in EDU 301; average of 2.0 or higher in the professional sequence; cumulative average of 2.0 or higher in all coursework; passing grade in ENG 101-2 or equivalent; if referred, satisfactory completion of, or exemption from EXE 100 (Student Speech Clinic). Teaching under supervision in elementary grades five days per week; individual conferences and seminars with the college supervisor; tutorial and group teaching; audio-visual aids; classroom management, record keeping, evaluation techniques. Classification: Required of EE extended majors and EXE majors seeking dual certification.

EDU 405 PARENT-INFANT EXPERIENCE
3 cr. 3 cl.

F-79, F-80

Emphasis is upon 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 in an interdisciplinary field setting will be provided. Elective for juniors and seniors.

EDU 410 PHILOSOPHY OF EDUCATION
3 cr. 3 cl.

F-80

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.

EDU 412 COMPARATIVE EDUCATION
3 cr. 3 cl.

Sp-80, Sp-81

Education as an influence in world affairs; comparison of educational problems and their solutions in various countries; relationship of education programs to the cultural heritage and its future; selection of programs studied in terms of student interests and current developments. Elective for juniors and seniors.

EDU 415 SEMINAR IN EARLY CHILDHOOD EDUCATION
3 cr. 3 cl.

Sp-81

Curriculum development for children from three through eight; historical development; current problems and research; instructional materials and procedures; equipment; evaluating children's progress.

EDU 416/SED 305 TEACHING READING IN THE SECONDARY SCHOOL
3 cr. 3 cl.

F-79, F-80

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 and developing reading skills. Special emphasis placed on critical reading, study skills, and reading in the content areas. Required of English majors in secondary education.

(Continued p. 216)

EDU 417 PARENTS AND EDUCATION
3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81

Prerequisite: EDU 210 or PSY 255, or equivalent, or by permission of instructor.

The dynamics of working with parents individually or in groups for the purpose of enhancing their understanding of their children or of themselves as parents. Course is designed for prospective teachers or human service specialists. Required in Early Childhood concentration.

EDU 418 MEDIA IN EDUCATION
3 cr. 4 cl.

Summer-80, Summer-81

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 cr. 3 cl.

Summer-81

School curriculum in the common branch subjects; selecting, organizing and presenting curriculum material adapting the curriculum to the varying needs, interests, and abilities of pupils; evaluating pupil progress in terms of school objectives. Elective for juniors and seniors.

EDU 420 TEACHING LANGUAGE ARTS IN THE ELEMENTARY SCHOOL 3 cr. 3 cl.

Summer-81

Prerequisite: EDU 314

Factors that influence language development; interrelationship of the language arts skills of speaking, listening, reading, written expression, spelling, handwriting; methods of using creative writing, creative dramatics, choral speaking, poetry, leisure reading in the developmental elementary language arts curriculum. Elective for juniors and seniors.

EDU 421 DECISION MAKING IN THE USE OF INSTRUCTIONAL MATERIALS 3 cr. 3 cl.

Summer-80

Provides the student with information and

experience for selecting, using, and evaluating instructional materials.

EDU 422 INTRODUCTORY LABORATORY PRACTICUM IN READING 3 cr. 3 cl.

Sp-80, Sp-81

Prerequisite: EDU 314

Supervised laboratory experience in tutorial work with children experiencing mild reading disability. The student will review a 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 429 COGNITIVE AND SOCIALIZATION PROGRAMS FOR PRE-KINDERGARTEN CHILDREN 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81

Prerequisite: EDU 210 or equivalent, or by permission of instructor. Consideration of theories and research in cognitive development and their application in various model early childhood programs. Elements of program design and assessment will be explored. Upper division elective.

EDU 439 PERSONALITY AND THE TEACHING/LEARNING PROCESS 3 cr. 3 cl.

F-79, F-80

Prerequisite: Junior or senior standing.

A consideration of personality theories as they relate to the teaching/learning process; focus on critical dimensions of personality in the elementary and secondary classroom. Recognition of different personality patterns and the applications of those patterns in an educational setting. Elective for juniors and seniors.

EDU 450 INTRODUCTION TO EDUCATION LAW & FINANCE 3 cr. 3 cl.

Sp-81

A study of some of the legal and fiscal issues in public and higher education such as: collective negotiations, contract disputes, methods of financing the public school system, liability of school districts and employees. The doctrine of separation of church and state, equal protection and due

process in education, student and teacher rights and responsibilities, and the governance of education. Elective for juniors and seniors.

EDU 459 ANALYSIS SYSTEMS IN EDUCATION 3 cr. 3 cl.

Helps students develop skill in the objective appraisal of teaching and learning by the use of systems such as those developed by Mager, McAshan, Kibler, Whithall, Amidon, Flanders, Galloway, Burkhart, Rogers, and Medley.

EDU 460 MATHEMATICS CURRICULUM IN THE ELEMENTARY SCHOOL 3 cr. 3 cl.

F-80

Prerequisite: MAT 121

Attention will be focused upon instructional strategies and innovative programs with emphasize approaches, techniques and materials which have been developed and designed for the teaching of mathematics to elementary school children. Instruction will provide for independently structured activities and enable participants to systematically assess their individual growth and progress. Elective for juniors and seniors.

EDU 495 PROJECT**EDU 499 INDEPENDENT STUDY**

Engineering Technology

Offered by the Department of Technology
DR. MYRON E. LEWIS, JR., Chairperson
Upton Hall
DR. PETER S. PAWLIK, Program Coordinator
Upton Hall 501

ENT 300 ENGINEERING ANALYSIS
3 cr. 5 cl.

F-79, Sp-80, F-80, Sp-81

Prerequisite: Junior Standing. Applications of calculus and differential equations to problems in technology. Application of calculus to problems in technology. Introduction to applications of ordinary differential equations, Laplace transforms and Fourier series in modeling and analyzing mechanical and electrical systems. Introduction to the use of statistical methods in technology. Required for ENT majors.

ENT 301 MECHANICS I 3 cr. 5 cl.

F-79, Sp-80, F-80, Sp-81

Prerequisite: PHY 111.

A study of the basic principles and applications of statics and strength of materials. Topics covered include equilibrium of rigid bodies, friction, Centroids, movements of inertia, trusses, frames, tension/compression, torsion, bending, and compound stresses. Classification: Required of ENT majors.

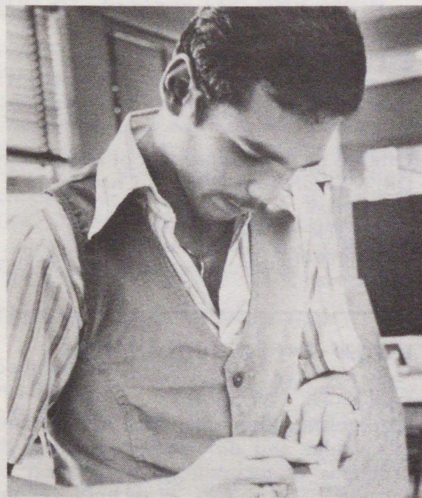
ENT 302 MECHANICS II 3 cr. 5 cl.

F-79, Sp-80, F-80, Sp-81

Prerequisites: ENT 300, 301.

A study of the principles and applications of dynamics and vibration. Topics covered include translation, rotation, plane motion, work-energy methods, impulse-momentum methods, gyroscopic motion, and vibration of one and two degree of freedom systems. Required of ENT majors.

(Continued p. 218)

**ENT 303 KINEMATICS 3 cr. 5 cl.**

Sp-80, Sp-81

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 ENT (Mechanical) majors.

ENT 311 THERMODYNAMICS 3 cr. 3 cl.

F-79, F-80

Prerequisites: ENT 300, PHY 111

An introduction to the principles of classical thermodynamics. Engineering applications to heat-power systems, refrigeration systems, and fluid machinery. Required of Mechanical and Electro-Mechanical Engineering Technology majors.

ENT 312 FLUID MECHANICS 3 cr. 5 cl.

Sp-80, Sp-81

Prerequisite: ENT 311

Application of fluid mechanics to analysis of pipe and channel flows, flow in heating and air-conditioning ducts and in fluid machinery. Analysis, design and operation of instrumentation for measuring pressure and flow. Theory of model construction and testing. Hydraulic and pneumatic power

and control. Required of ENT (Mechanical) majors.

ENT 331 ELECTRICAL CIRCUITS AND DEVICES I 3 cr. 5 cl.

F-79, Sp-80, F-80, Sp-81

Prerequisite: PHY 112

Study of the basic concepts and theorems 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 ENT majors

ENT 332 ELECTRICAL CIRCUITS AND DEVICES II 3 cr. 5 cl.

F-79, Sp-80, F-80, Sp-81

Prerequisite: ENT 331.

Study of electromechanical energy conversion, magnetic fields and circuits, magnetic materials, single and polyphase circuits, AC and DC machines, electrical power distribution. Required of ENT majors.

ENT 341 ELECTRONICS 3 cr. 5 cl.

F-79, F-80

Prerequisites: ENT 300 and ENT 331.

Introductory analysis and design of electronic circuits, with emphasis on semiconductor devices. Required of ENT (Electronics and Electromechanical) majors.

ENT 342 NETWORKS 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81

Prerequisites: ENT 300 and ENT 331

Signal analysis, circuit parameters, time domain circuit, steady state and transient solutions, Laplace transforms and applications, topics in frequency domain, network functions, theorems, sinusoidal steady state analysis from pole-zero plots. Introduction to network synthesis. Required of ENT (Electronics and Electromechanical) majors.

ENT 351 ELECTRONIC CIRCUIT ANALYSIS AND DESIGN I 3 cr. 5 cl.

F-79, Sp-80, F-80, Sp-81

Prerequisites: ENT 341 and ENT 342. Analysis and design of Electronic circuits, discrete and integrated with emphasis on Analog application. Required of ENT (Electronics) majors.

ENT 352 ELECTRONIC CIRCUIT ANALYSIS AND DESIGN II 3 cr. 5 cl.

F-79, Sp-80, F-80, Sp-81

Prerequisite: ENT 351

Analysis and design of electronic circuits, discrete and integrated with emphasis on digital applications. Required of ENT (Electronics) majors.

ENT 371 ELECTROMECHANICAL MACHINES 3 cr. 5 cl.

F-79, F-80

Prerequisite: ENT 332

Transformers, DC and AC generators and motors as integral part of electric power systems. Study of three-phase synchronous machines and induction motors, fractional horse-power AC motors. Introduction to linear induction motors. Electrical machines in control systems. Required of ENT (Electro-Mechanical) majors.

ENT 401 STRESS ANALYSIS 3 cr. 5 cl.F-79, F-80 **Fee:** \$5.00**Prerequisites:** ENT 300, ENT 302 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 include bending and torsion of beams and shafts, energy methods, thermal stress analysis and fatigue. The laboratory will stress familiarization with the instrumentation and measurement techniques used in experimental stress analysis. Required of ENT (Mechanical) majors.

ENT 402 SHOCK AND VIBRATION 3 cr. 5 cl.Sp-80, Sp-81 **Fee:** \$5.00**Prerequisites:** ENT 300, ENT 302, ENT 332.

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-two- and several-degree-of freedom systems. The laboratory will stress familiarization with the instrumentation and experimental techniques used in vibration analysis. Required of ENT (Mechanical) majors.

ENT 411 HEAT TRANSFER 3 cr. 5 cl.

F-79, F-80

Prerequisites: ENT 311, ENT 312

A study of the process of heat transfer and its application to the fields of power, energy conversion, and machine design. Topics covered include conduction, convection, radiation, mass transfer, heat exchanger design, heat pipes, combined modes of heat transfer, and applications to machine design. Required of ENT (Mechanical and Electro-Mechanical) majors.

ENT 421 MACHINE DESIGN I 3 cr. 5 cl.**Prerequisites:** ENT 302 and ENT 332

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 ENT (Mechanical) majors.

ENT 422 MACHINE DESIGN II 3 cr. 5 cl.

Sp-80, Sp-81

Prerequisites: ENT 401 and ENT 421

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 ENT (Mechanical) majors.

ENT 431 DIGITAL SYSTEMS I 3 cr. 5 cl.

F-79, Sp-80, F-80, Sp-81

Prerequisite: ENT 341

A study of the theory and design of digital systems. Required of ENT (Electronics) majors.

ENT 432 DIGITAL SYSTEMS II 3 cr. 5 cl.

F-79, Sp-80, F-80, Sp-81

Prerequisite: 431

Combinational circuits and memory devices, synchronous and asynchronous circuit design. Organization of digital systems, special purpose systems, small computers interfacing. Input-output, displays, algorithm implementation, use of LSI and MSI elements. Required of ENT (Electronics) majors.

(Continued p. 220)

ENT 441 ELECTROMAGNETIC FIELDS AND WAVES 3 cr. 3 cl.

F-79, F-80

Prerequisites: ENT 300 and ENT 332

Vector analysis, Electrostatic fields: Coulombs Law, Gauss' Law, energy and potential, conductors, dielectrics, capacitance, LaPlace's equation, solutions, magnetic fields: steady magnetic fields, magnetic forces, time varying fields and Maxwell's equations, applications, transmission lines, line parameters and solutions. Required of ENT (Electronics) majors.

ENT 442 MICROWAVE TECHNIQUES 3 cr. 5 cl.

Sp-80, Sp-81

Prerequisite: ENT 441

Transmission lines: Smith chart, impedance matching, wave guides, resonators, Microwave devices: Vacuum tubes, Klystron, reflex Klystron, TWT, BWO, magnecon. Microwave measurement: Power, frequency. Network analysis, Time domain reflectometry. Radiation. Required of ENT (Electronics) majors.

ENT 461 CONTROL I 3 cr. 5 cl.

F-79, F-80

Prerequisite: ENT 342

Introduction to control systems, classification, control system components, control system analysis, transient and steady state solutions, transfer functions, block diagram algebra, signal flow graphs, stability analysis, system classification, error constants, sensitivity analysis. Classification: Required of ENT (Electronics and Electromechanical) majors.

ENT 462 CONTROL II 3 cr. 5 cl.

Sp-79, Sp-80

Prerequisite: ENT 461

The analysis and design of feedback control systems, objectives and methods, specialized pole-zero topics, root locus, frequency response plots, feedback control system performance based on the frequency response, control system design: Root locus design, Bode design, Nicholas Chart design, digital control systems, advanced topics. Required of ENT (Electronics and Electromechanical) majors.

ENT 471 ELECTRICAL POWER SYSTEMS I 3 cr. 5 cl.

F-79, F-80

Prerequisite: ENT 342

Balanced and unbalanced polyphase systems, operating strategies and control of power systems, stability of power systems, elements of electrical machinery. DC machines, transformers, induction motors, synchronous machines and single-phase machines. Required of ENT (Electromechanical) majors.

ENT 472 ELECTRICAL POWER SYSTEMS II 3 cr. 5 cl.

Sp-79, Sp-80

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, overvoltage and insulation requirements; the power system is steady state as a control problem. Underground cable transmission system. Required of ENT (Electromechanical) majors.



English

Offered by the Department of English
DR. PAUL HALE, Chairperson
Ketchum Hall 326

ENG 098 UNDERSTANDING ENGLISH LANGUAGE 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (H)

An introductory course designed to create an awareness of the ways in which English functions and to develop a sensitivity to all phases of the language.

ENG 099 CRITICAL WRITING 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (H)

An introductory course designed to reinforce sentence and paragraph structure through emphasis on unity, consistency, order, and coherence.

ENG 100 ENGLISH COMPOSITION 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (H)

Emphasis on expository prose; writing assignments include the research paper.

ENG 101 COMPOSITION AND LANGUAGE 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (H)

Prerequisite: ENG 100 or exemption therefrom. Students taking 101 may not receive credit for 102 or 103. Introduction to the study of language with emphasis on the relationship of oral and written English.

ENG 102 COMPOSITION AND LITERATURE 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (H)

Prerequisite: ENG 100 or exemption therefrom. Students taking 102 may not receive credit for 101 or 103. Readings in literature with emphasis on the techniques of analyzing and writing about literature.

ENG 103 COMPOSITION AND MASS MEDIA 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (H)

Prerequisite: ENG 100 or exemption therefrom. Students taking 103 may not

receive credit for 101 or 102. Introduction to mass media with emphasis on written analysis of form and content.

ENG 110 ENGLISH LITERATURE I: SELECTED TOPICS 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (H)

A survey of topics, themes and authors in English Literature to 1700.

ENG 111 ENGLISH LITERATURE II: SELECTED TOPICS 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (H)

A survey of topics, themes and authors in English Literature from 1700 to 1900.

ENG 130 BIBLICAL AND CLASSICAL LITERATURE 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (H)

A study of Greek, Roman, and Biblical Literature.

ENG 131 MEDIEVAL AND RENAISSANCE LITERATURE 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (H)

A study of major European writers prior to 1600.

ENG 132 MODERN EUROPEAN LITERATURE 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (H)

A study of major European writers after 1600.

ENG 140 AMERICAN LITERATURE I: SELECTED TOPICS 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (H)

A survey of topics, themes and authors in American writers prior to the Civil War.

ENG 141 AMERICAN LITERATURE II: SELECTED TOPICS 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (H)

A study of major American writers after the Civil War.

ENG 151 INTRODUCTION TO POETRY 3 cr. 3 cl.

F-79, F-80 (H)

A study of the verbal and formal techniques of English and American poetry; prosody, verse forms, conventions, genres, diction and imagery.

(Continued p. 222)

**ENG 180 INTRODUCTION TO FOLKLORE 3 cr. 3 cl.**

F-80 (H)

A general introduction to the nature, form of folklore, and its function in society.

ENG 202 CREATIVE WRITING: NARRATIVE 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (H)

An introductory course emphasizing the writing of fiction. Open to sophomores, juniors and seniors who have satisfied the freshman writing requirement.

ENG 203 CREATIVE WRITING: POETRY 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (H)

An introductory course emphasizing the writing of poetry. Open only to students who have satisfied the freshman writing requirement.

ENG 205 HISTORY OF CINEMA I 3 cr. 3 cl.

F-79 (H) Fee: \$5.00

A broad survey of the development of the motion picture from its earliest forms in the 1890's to the inception of sound.

ENG 206 HISTORY OF CINEMA II 3 cr. 3 cl.

Sp-80 (H) Fee: \$5.00

A survey of the development of the motion picture from the inception of sound to the present.

ENG 230 COMPARATIVE LITERATURE 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (H)

Recurring ideas, themes, and theories in world literature. May be taken for credit more than once.

ENG 231 WOMEN IN LITERATURE: SELECTED TOPICS 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (H)

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. May be taken for credit more than once.

ENG 240 AFRO-AMERICAN LITERATURE TO 1940 3 cr. 3 cl.

Sp-80, Sp-81 (H)

Survey of Black America's 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 1920's and its relation to the development of Black revolutionary thought will be emphasized.

ENG 241 AFRO-AMERICAN LITERATURE SINCE 1940 3 cr. 3 cl.

F-79, F-80, (H)

Survey of Black revolutionary thought and artistry in writers such 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 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (H)

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 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (H)

A study of literature in English from 1900 to 1945.

ENG 253 CONTEMPORARY LITERATURE II 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (H)

A study of literature in English from 1945 to the present.

ENG 260 CHILDREN'S LITERATURE 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (H)

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 cr. 3 cl.

Sp-80 (H)

Prerequisites: None.

Introduction to American folklore and its uses.

ENG 300 WRITING FOR THE PROFESSIONS 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (H)

Prerequisite: Fulfillment of the mastery of English composition requirement. Practice in writing for students who wish to improve their competence in technical exposition, report writing, and technical editing.

ENG 301 ADVANCED COMPOSITION 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (H)

Prerequisite: Fulfillment of the mastery of English composition requirement. Practice in writing expository papers.

ENG 303 LITERATURE IN THE FILM 3 cr. 3 cl.

Sp-80 (H) Fee: \$5.00

A study of the motion picture as a vehicle for literature. Analysis and comparison of the verbal and pictorial forms.

ENG 304 FORMS OF THE FILM 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (H) Fee: \$5.00

A study in 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 315 SHAKESPEARE I 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (H)

Prerequisite: Sophomore standing or three hours of English. A study of the early comedies, tragedies and histories.

ENG 316 SHAKESPEARE II 3 cr. 3 cl.

F-79, F-80 (H)

Prerequisite: Sophomore standing or three hours of English. A study of the late comedies, tragedies, and histories.

ENG 330 LITERATURE OF THE BIBLE 3 cr. 3 cl.

F-79, F-80 (H)

Prerequisite: Sophomore standing or three hours of English. A study of the Bible as literature.

ENG 331 FRENCH LITERATURE (FRE 331) IN TRANSLATION 3 cr. 3 cl.

(H) See FRE for offerings.

Prerequisite: Sophomore standing or three hours of English. See FRE for offerings. Selected masterpieces of French literature in translation: novels, poetry, plays, and essays. French majors must obtain the approval of both their department chairman and the instructor.

ENG 332 RUSSIAN LITERATURE (RUS 332) IN TRANSLATION 3 cr. 3 cl.

(H) See RUS for offerings.

Prerequisite: Sophomore standing or three hours of English. See RUS for offerings. Such writers as Gogol, Pushkin, Tugenev,

(Continued p. 224)

Goncharov, Tolstoy, Dostoevsky, Chekhov, Gorky, Bunin, and Pasternak; relationships to western European literature.

ENG 333 YIDDISH LITERATURE (FLA 333) IN TRANSLATION 3 cr. 3 cl.

(H) See FLA for offerings.

Prerequisite: Sophomore standing or three hours of English. See FLA for offerings. A study of selected work from such writers as Shalom Aleichem, I.L. Peretz, Sholom Asch, I.J. Singer, I.B. Singer, Morris Rosenfeld and relationships to East European and American Literature and culture.

ENG 334 POLISH LITERATURE (POL 334) IN TRANSLATION 3 cr. 3 cl.

(H) See POL for offerings.

Prerequisite: Sophomore standing or three hours of English. See POL for offerings. Selected masterpieces of Polish literature and culture from the Middle Ages to the period of Romanticism: novels poetry, plays and short stories and their relationship to western European literature. Knowledge of Polish not required.

ENG 335 ITALIAN RENAISSANCE (ITA 335) LITERATURE IN TRANSLATION 3 cr. 3 cl.

(H) See ITA for offerings.

Prerequisite: Sophomore standing or three hours of English. See ITA for offerings. The development of humanism from Petrarch to Tasso.

ENG 336 MODERN ITALIAN (ITA 336) LITERATURE IN TRANSLATION 3 cr. 3 cl.

(H) See ITA for offerings.

Prerequisite: Sophomore standing or three hours of English. See ITA for offerings. Major writers of the twentieth century.

ENG 338 RUSSIAN LITERATURE (RUS 338) SINCE THE REVOLUTION 3 cr. 3 cl.

(H) See RUS for offerings.

Prerequisite: A basic literature course or permission of instructor. An examination of the state of Russian literature from the Revolution to the present. Such writers as Gorky, Sholokhov, Terz, Yevtushenko, Solzhenitzyn, Pasternak. Knowledge of Russian not required.

ENG 339 MODERN POLISH (POL 339) LITERATURE IN ENGLISH TRANSLATION 3 cr. 3 cl.

(H) See POL for offerings.

Prerequisite: Sophomore standing or three hours of English. See POL for offerings. Selected masterpieces of Polish literature and culture from 1863 to the present: novels, poetry, plays and short stories and their relationship to western European literature. Knowledge of Polish not required.

ENG 350 CONTEMPORARY DRAMA I 3 cr. 3 cl.

F-79, Sp-81 (H)

Prerequisite: Sophomore standing or three hours of English. Drama from the 1880's until the end of World War II of such playwrights as Ibsen, Strindberg, Chekhov, Lorca, Synge, O'Casey and O'Neill.

ENG 351 CONTEMPORARY DRAMA II 3 cr. 3 cl.

Sp-80 (H)

Prerequisite: Sophomore standing or three hours of English. Drama since World War II. Includes Epic Theatre, Absurdism, and Theatre of Cruelty of such playwrights as Brecht, Ionesco, Beckett, Genet, Miller, Albee, Pinter, Baraka and Arabal.

ENG 354 ETHNIC-AMERICAN MINORITY LITERATURE 3 cr. 3 cl.

Sp-80 (H)

Prerequisite: Sophomore standing or three hours of English. 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 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (H)

Prerequisite: Sophomore standing or three hours of English. Major writers in the development of short fiction; may include seminal stories of writers from Poe or Gogol to Pirandello, Joyce, Faulkner, Camus, Malamud, Boll, Sifliote or W.M. Kelly. This course may change emphasis and content.

ENG 356 FUTURISTIC FICTION 3 cr. 3 cl.

F-79, F-80 (H)

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 cr. 3 cl.

F-79 (H)

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 1970's.

ENG 377 INTRODUCTION TO SEMANTICS 3 cr. 3 cl.

F-79, F-80 (H)

Prerequisite: Sophomore standing or three hours of English. 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 cr. 3 cl.

Sp-80, Sp-81 (H)

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 cr. 3 cl.

F-79, F-80 (H)

Prerequisite: ENG 203 or consent of instructor. A creative workshop for students experienced and/or talented in the writing of poetry.

ENG 404 STUDIES IN CINEMA 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (H) Fee: \$5.00

Prerequisite: Minimum of one lower-level film course or consent of the instructor. May be taken more than once where con-

tent is different. An analytical, in-depth study of a film genre, performer, director, or period.

ENG 411 CHAUCER 3 cr. 3 cl.

F-80 (H)

Prerequisite: six hours of literature courses. A study of representative works of Geoffrey Chaucer.

ENG 413 MILTON 3 cr. 3 cl.

Sp-80 (H)

Prerequisite: six hours of literature courses. A study of representative work of John Milton.

ENG 415 SEVENTEENTH CENTURY ENGLISH LITERATURE 3 cr. 3 cl.

F-80 (H)

Prerequisite: six hours of literature courses. A study of the literature of 17th century England.

ENG 416 EIGHTEENTH CENTURY ENGLISH LITERATURE 3 cr. 3 cl.

Sp-81 (H)

Prerequisite: Six hours of literature courses. A study of the literature of 18th century England.

ENG 417 ENGLISH NOVEL TO 1800 3 cr. 3 cl.

F-79 (H)

Prerequisite: Six hours of literature courses. A study of the English novel prior to 1800.

ENG 418 ENGLISH NOVEL 1800-1900 3 cr. 3 cl.

F-80 (H)

Prerequisite: Six hours of literature courses. A study of representative 19th century English novels.

ENG 419 ROMANTIC MOVEMENT IN ENGLISH LITERATURE 3 cr. 3 cl.

Sp-80 (H)

Prerequisite: Six hours of English. A study of representative English Romantic writers.

(Continued p. 226)

ENG 420 EARLY VICTORIAN LITERATURE 3 cr. 3 cl.

Sp-81 (H)

Prerequisite: Six hours of English.

A study of representative English writers, 1832-59.

ENG 421 LATER VICTORIAN LITERATURE 3 cr. 3 cl.

Sp-80 (H)

Prerequisite: Six hours of English.

A study of representative English writers, 1859-1914.

ENG 422 JAMES JOYCE AND HIS CONTEMPORARIES 3 cr. 3 cl.

F-79, F-80 (H)

Prerequisite: Six hours of English.

A study of the major factor of James Joyce; supplemental readings in other writers of the period.

ENG 432 COMPARATIVE DRAMA: TRAGEDY 3 cr. 3 cl.

F-80 (H)

Prerequisite: Six hours of English.

A study of tragic drama from Aeschylus to the present.

ENG 441 ROMANTIC MOVEMENT IN AMERICAN LITERATURE 3 cr. 3 cl.

F-79 (H)

Prerequisite: Six hours of English.

A study of representative American Romantic writers.

ENG 442 AMERICAN NOVEL TO 1900 3 cr. 3 cl.

F-80 (H)

Prerequisite: Six hours of English.

A study of the 19th century American novel.

ENG 450 STUDIES IN POETRY 3 cr. 3 cl.

F-80 (H)

Prerequisite: Six hours of English.

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 cr. 3 cl.

F-79, F-80 (H)

Prerequisite: Six hours of English.

Analysis of selected aspect 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 cr. 3 cl.**

Sp-80, Sp-81 (H)

Prerequisite: Six hours of English.

A study of particular aspects of the drama: theme, motif, philosophic concept, 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 cr. 3 cl.

F-80 (H)

Prerequisite: Six hours of English.

A study of major British and/or American novels from 1914-1945.

ENG 455 CONTEMPORARY NOVEL II 3 cr. 3 cl.

Sp-81 (H)

A study of major British and American novels from 1945 to the present.

ENG 461 YOUNG ADULT LITERATURE 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (H)

Prerequisite: Six hours of English.

A study of literature appropriate to students in grades 7-12.

ENG 462 METHODS AND MATERIALS IN TEACHING SECONDARY SCHOOL ENGLISH 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (H)

Prerequisite: ENG 470, EDU 353, 303, and minimum cumulative average of 2.00. A study of secondary school curriculum materials and methods in instruction. Open only to juniors and seniors majoring in secondary English or elementary majors seeking certification in English; to be taken semester before student teaching.**ENG 464 STUDENT TEACHING IN SECONDARY SCHOOL ENGLISH 12 cr. 3 cl.**

F-79, Sp-80, F-80, Sp-81 (H)

Prerequisite: Completion of ENG 462 with minimum grade of "C" Cumulative average minimum 2.00. Full-time practice teaching, five days per week, for 14 weeks; seven weeks each in a junior high school situation and in a senior high school situation. College supervision bi-weekly. Elementary

extension students teach one situation. Required of juniors or seniors majoring in secondary English and elementary extension students.

ENG 470 FOUNDATIONS OF LANGUAGE 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (H)

A study of the structure of language with emphasis on English; relation of speech to writing; language families and their relationships; language change, significance of regional and social dialects.

ENG 472 ENGLISH GRAMMARS 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (H)

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 474 BLACK ENGLISH SPEECH 3 cr. 3 cl.

Sp-81 (H)

Prerequisite: English 470.

A study of the social, economic and educational implications of speech patterns among Black Americans.

ENG 476 NON-VERBAL COMMUNICATION 3 cr. 3 cl.

F-80 (H)

Prerequisite: Six hours of English.

A study of the history and development of Non-Verbal Communication and communication systems including: grimaces, gestures, postures, tone of voice.

ENG 490 ENGLISH SEMINAR 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (H)

Prerequisite: Six hours of English.

A study of specific topics or writers.

ENG 495 PROJECT

F-79, Sp-80, F-80, Sp-81 (H)

ENG 499 INDEPENDENT STUDY

F-79, Sp-80, F-80, Sp-81 (H)

Exceptional Children Education

Offered by the Department of Exceptional Children Education
DR. WARREN L. GLECKEL, Chairperson
Ketchum Hall 201

EXE 100 STUDENT SPEECH CLINIC 0 cr. TBA

F-79, Sp-80, F-80, Sp-81
Speech therapy for students found defective in speech production. Students enrolled must complete course to be eligible for student teaching, graduation. Open to all students. Hours by arrangement.

EXE 206 LANGUAGE DEVELOPMENT 3 cr. 3 cl.

Sp-80, Sp-81 (R)
Analysis of language, its development; understanding how children learn language, speech sounds, words, sentence structure, meaning; factors that influence language development. Open to all non-C.D. majors.



EXE 300 NATURE AND NEEDS OF EXCEPTIONAL CHILDREN 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (R)
Study of children who are exceptional due to intellectual, physical, behavioral, and sensory impairment. Required of all students in Exceptional Children Education.

EXE 301 OBSERVATION AND PARTICIPATION IN MENTAL RETARDATION 6 cr. 9 cl.

F-79, Sp-80, Sp-81
Prerequisites: EXE 404 and cumulative average of 2.00 or higher. Observing, classroom participating, selecting, organizing and presenting curriculum materials on different grade levels; evaluating pupil progress in classes for mentally retarded. Required for juniors in Mental Retardation.

EXE 302 INTRODUCTION TO MENTAL RETARDATION 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81
Prerequisites: EXE 300
In-depth consideration of the history, causes, social perspectives of mental retardation. Required of all Mental Retardation/Physical Handicap majors.

EXE 303 LANGUAGE ACQUISITION 3 cr. 3 cl.

F-79, F-80, F-81, F-82
Anatomy, physiology of normal speech, morphology, syntax, semantics; identifying structure, function of language of normal children at different levels of development; theories of language acquisition compared and contrasted.

EXE 304 SCIENCE OF SPEECH AND HEARING 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (R)
Anatomy, physiology of normal speech, hearing mechanisms, introduction to possible deviations; embryological development, neurology, production and reception of oral language. Observation in speech and hearing clinic. Classification: Required of sophomores in Communication Disorders.

EXE 305 PHONETICS 3 cr. 3 cl.

F-79, F-80, F-81, F-82
Production, representation of English (American) speech sounds; application of phonetics to deviations in children's speech. Observation in Speech and Hearing Clinic. Required of sophomores in Communication Disorders.

EXE 306 SPEECH PATHOLOGY I 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81
Prerequisite: EXE 305
Introduction to defects of speech; etiology, remedial procedures for treatment of functional speech problems; observation and treatment of functional speech disorders. Required of juniors in Communication Disorders.

EXE 307 SPEECH PATHOLOGY II 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81
Prerequisites: EXE 304, 305.
Etiology, remediation of organic speech problems. Required of juniors in Communication Disorders.

EXE 310 LEARNING AND BEHAVIORAL DISORDERS OF CHILDREN 6 cr. 12 cl.

F-79, Sp-80, F-80, Sp-81
Prerequisite: EXE 300
Incidence, nature of learning, behaviorally disordered children; problems of psychosocial adaption in educational setting. Clinically-oriented, supervised field practicum in residential centers for four to six hours per week. Required of sophomores in Learning and Behavioral Disorders.

EXE 311 OBSERVATION AND PARTICIPATION IN PHYSICAL HANDICAP 6 cr. 9 cl.

F-79, Sp-80, F-80, Sp-81
Prerequisites: EXE 417 and cumulative average of 2.0 or higher. Observing, classroom participating, selecting, organizing, presenting curriculum materials on different grade levels; evaluating pupil progress in classes for physically and neurologically impaired. Required of students in Physical Handicap.

EXE 313 OBSERVATION AND PARTICIPATION WITH THE LEARNING AND BEHAVIORALLY DISORDERED 6 cr. 12 cl.

F-79, Sp-80, F-80, Sp-81
Prerequisite: EXE 310 and cumulative average of 2.00 or higher. Observing, classroom participating, selecting, organizing, presenting curriculum material on different grade levels; evaluating pupil progress in classes for learning behaviorally disordered, socially maladjusted children. Required of juniors and seniors in Learning and Behavioral Disorders.

EXE 314 PSYCHOLOGY OF EXCEPTIONAL CHILDREN 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (R)
Examination of behavior trends common to various types of exceptionality; description, analysis, examination of educational implications.

EXE 345 COMMUNITY SERVICE WITH EXCEPTIONAL INDIVIDUALS 1-3 cr. 3-9 cl.

F-79, Sp-80, F-80, Sp-81
Interaction with exceptional persons in community agency settings. May be taken for 1, 2, 3 credit hours. Three credit hours required of Mental Retardation/Physical Handicap majors.

EXE 402 CLINICAL PROCEDURES & ORGANIZATION OF SCHOOL & CLINIC PROGRAMS 4 cr. (18 1/2 sem.)

F-79, Sp-80, F-80, Sp-81
Prerequisites: Thirty hours in Communication Disorders. Observation of speech, hearing programs in schools, hospitals, community agencies. Speech clinic eight hours per week. Required of seniors in Speech Pathology and Audiology.

EXE 403 MENTAL AND EDUCATION MEASUREMENT 3 cr. 4 cl.

F-79, Sp-80, F-80, Sp-81
General measurement, evaluation techniques; descriptive statistics; construction teacher-made instruments. Required of
(Continued p. 230)

juniors in Learning and Behavioral Disorders, Mental Retardation, Physical Handicap.

EXE 404 CURRICULUM PRACTICES FOR THE MENTALLY RETARDED
3 cr. 4 cl.

F-79, Sp-80, F-80, Sp-81

Prerequisite: EXE 302

Basic curricular practices, procedures in developing programs for mildly mentally retarded individuals. Required of juniors in Mental Retardation/Physical Handicap.

EXE 405 PRACTICUM IN SPEECH AND HEARING
6 cr. (daily 1/2 sem.)

F-79, Sp-80, F-80, Sp-81

Prerequisite: Thirty hours in Communication Disorders. Cumulative average of 2.0 or higher in all college courses and in major sequence. Clinical practice in schools under supervision of a speech and hearing clinician. Required of all seniors in Speech Pathology and Audiology.

EXE 409 CURRICULUM PRACTICES FOR LEARNING AND BEHAVIORALLY DISORDERED CHILDREN 3 cr. 4 cl.

F-79, Sp-80, F-80, Sp-81

Prerequisite: EXE 310

Organizing school program for learning, behaviorally disordered children; evaluating suitable group, individual activities for teaching basic school subjects.

EXE 411 LANGUAGE DIAGNOSIS AND REMEDIATION 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81

Prerequisite: EXE 307

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 seniors in Communication Disorders.

EXE 414 AUDIOLOGY 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81

Prerequisite: EXE 304

Hearing and hearing problems for speech-language pathologists. Physics of sound, the

decibel notation. Anatomy and physiology of the ear and pathologies of the auditory mechanism. Pure tone and audiometry. Clinical practicum hours required. Required of second semester sophomores or first semester juniors in Communication Disorders.

EXE 415 SPEECH READING AND AUDITORY TRAINING
3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81

Prerequisite: EXE 414

Aural rehabilitation for speech-language pathologists. Identification, referral, habilitation techniques for hearing impaired. Emphasis on auditory training, speech reading. Clinical practicum hours required. Required of juniors in Communication Disorders.

EXE 416 STUTTERING 3 cr. 5 cl.

F-79, F-80, F-81, F-82

Prerequisite: EXE 303

Therapeutic procedures for treatment of stuttering; tests for diagnosis, evaluation of problem. Parent counseling, methods for prevention; understanding speech aspects and individual with fluency problems. Observations of stuttering clinic. Required of juniors in Communication Disorders.

EXE 417 CURRICULUM PRACTICES FOR THE PHYSICALLY HANDICAPPED 3 cr. 4 cl.

F-79, F-80

Prerequisite: EXE 302

Organizing a school program for physically and neurologically impaired children; selecting, evaluating suitable group, individual activities for teaching basic school subjects. Required of juniors in Physical Handicap.

EXE 418 PRACTICUM IN TEACHING CHILDREN WITH RETARDED MENTAL DEVELOPMENT
6 cr. (daily, 1/2 sem.)

F-79, Sp-80, F-80, Sp-81

Prerequisites: Grade of "C" or higher in EXE 301 and cumulative average of 2.0 or higher. Practice teaching under supervision

in special class for mentally retarded students. Required of seniors in Mental Retardation.

EXE 419 TEACHING THE TRAINABLE RETARDED 3 cr. 4 cl.

F-79, Sp-80, F-80, Sp-81

Prerequisite: EXE 302

Curriculum methods, materials, problems in educating students who are moderately mentally retarded in public school classes and in classes in residential settings. Required of juniors planning to teach moderately retarded individuals.

EXE 420 SPEECH PROBLEMS OF CHILDREN 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (R)

Types, causes of speech defects, disorders in elementary school children; methods of treatment of minor disorders by classroom teacher; basic information, phonetics and speech science; observation of children presenting various speech problems.

EXE 421 PRACTICUM IN TEACHING CHILDREN WITH PHYSICAL HANDICAPS
6 cr. (daily, 1/2 sem.)

F-79, Sp-80, F-80, Sp-81

Prerequisites: Grade of "C" or higher in EXE 311 and cumulative average of 2.0 or higher. Practice teaching under supervision in special class for physically and neurologically impaired students. Required of seniors in Physical Handicap.

EXE 424 ORGANIZATION AND ADMINISTRATION OF SCHOOL PROGRAMS
2 cr. (4, 1/2 sem.)

F-79, Sp-80, F-80, Sp-81

Prerequisite: Thirty hours in Communication Disorders. Study of organization, administration or school program, case selection, case load, scheduling, records and reports; speech improvement, facilities. Required of seniors in Communication Disorders.

EXE 429 CLINICAL ACTIVITY
1-6 cr. 2-4 cl.

F-79, Sp-80, F-80, Sp-81

Observation, participation in diagnosis and therapy in the speech and hearing clinic. One or two credits each semester after freshman year.

EXE 430 PRACTICUM IN TEACHING CHILDREN WITH LEARNING AND BEHAVIORAL DISORDERS
6 cr. (daily, 1/2 sem.)

F-79, Sp-80, F-80, Sp-81

Prerequisite: EXE 313, EXE 409. Cumulative average of 2.0. Grade of "C" or higher in EXE 313. Practice teaching with learning, behaviorally disordered children in public school special classes or residential settings. Required of seniors in Learning and Behavioral Disorders.

EXE 495 PROJECT

EXE 499 INDEPENDENT STUDY



Fine Arts

Offered by the Department of Fine Arts
DR. FRANCIS R. KOWSKY, Chairperson
Upton Hall 315G

FAR 100 INTRODUCTION TO FINE ARTS 3 cr. 4 cl.

F-79, S-80, F-80, S-81 (A)

Fee depends upon project selected

A study of the critical bases for procedures in the Fine Arts; introductory problems in studio performance. Lecture and studio experiences. Elective except for Art majors.

FAR 101 DRAWING I 3 cr. 4 cl.

F-79, S-80, F-80, S-81 (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; involving lecture and studio experiences.

FAR 102 DRAWING II 3 cr. 4 cl.

F-79, S-80, F-80, S-81 (A)

Fee depends upon project selected

Prerequisite: FAR 101

Drawing from the nude using various media with an emphasis on proportion, anatomy and pictorial structure; involving lecture and studio experience.

FAR 103 MODELING 3 cr. 4 cl.

F-79, S-80, F-80, S-81 (A)

Modeling as an introductory experience in the exploration of three dimensional form; development of perceptual and analytical attitudes; involving lecture and studio experiences. First year BFA students only.

FAR 210 INTRODUCTORY PAINTING 3 cr. 4 cl.

F-79, S-80, F-80, S-81 (A)

Fee depends upon project selected.

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 cr. 4 cl.

F-79, S-80, F-80, S-81 (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. Camera required.

FAR 230 INTRODUCTORY PRINTMAKING 3 cr. 4 cl.

F-79, S-80, F-80, S-81 (A)

Fee depends upon project selected.

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 cr. 4 cl.

F-79, S-80, F-70, S-81 (A)

Fee depends upon project selected.

Prerequisite: FAR 101

An 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 cr. 3 cl.

F-79, S-80, F-80, S-81 (A)

The development of art from prehistoric times through the Carolingian period. Particular emphasis will be placed upon Greek and Roman art and architecture, and the evolution of Early Medieval artistic trends in Rome and Constantinople.

FAR 251 ART HISTORY II 3 cr. 3 cl.

F-79, S-80, F-80, S-81 (A)

Recommended prerequisite: FAR 250

The development of art from the Romanesque period through the rise of the late 18th-century Romanticism. Particular emphasis will be placed upon the development of Medieval art in France, and upon the evolution of a Renaissance style in Italy.



FAR 300 DRAWING III 3 hrs. per sem. 4 cl.

S-80, S-81 (A)

Fee depends upon project selected.

Prerequisite: FAR 102

A continuation of Fine Arts 102 with an emphasis on surface anatomy and pictorial structure; includes lecture and studio experiences.

FAR 311 INTERMEDIATE PAINTING I 3 cr. 4 cl.

F-79, S-80, F-80, S-81 (A)

Fee depends upon project selected.

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 experiences.

FAR 312 INTERMEDIATE PAINTING II 3 cr. 4 cl.

F-79, S-80, F-80, S-81 (A)

Fee depends upon project selected.

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 experiences.

FAR 313 ADVANCED PAINTING 3-9 cr. 3 hrs. per sem. 4 cl.

F-79, S-80, F-80, S-81 (A)

Fee depends upon project selected.

Prerequisite: FAR 212

Advanced painting, with media, style and content based on individual needs; concentration on individually selected areas of development in painting; includes lecture and studio experiences.

FAR 321 INTERMEDIATE PHOTOGRAPHY I 3 cr. 4 cl.

F-79, S-80, F-80, S-81 (A)

Prerequisite: FAR 220

A continuation of introductory photography with more in-depth study; concurrent emphasis on technique and image to produce personal, expressive and significant images; includes lecture, field and studio experiences. Camera required.

FAR 322 INTERMEDIATE PHOTOGRAPHY II 3 cr. 4 cl.

F-79, S-80, F-80, S-81 (A)

Prerequisite: FAR 321

An advanced course in the photographic disciplines, stressing the individual, ex-

(Continued p. 234)

pressive, and creative approach to the making of significant photographic images; includes lectures, field and studio experiences. Professional quality camera required.

FAR 323 ADVANCED PHOTOGRAPHY
3-9 cr. 3 hrs. per sem. 4 cl.

F-79, S-80, F-80, S-81 (A)

Prerequisite: FAR 322

An advanced course in which individual directions and advanced photographic concerns may be explored; includes lecture, field and studio experiences.

FAR 331 INTERMEDIATE PRINTMAKING I 3 cr. 4 cl.

F-79, S-80, F-80, S-81 (A)

Fee depends upon project selected.

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. Lecture and studio experiences.

FAR 332 INTERMEDIATE PRINTMAKING II 3 cr. 4 cl.

F-79, S-80, F-80, S-81 (A)

Fee depends upon project selected.

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 lecture and studio experiences.

FAR 333 ADVANCED PRINTMAKING
3-9 cr. (3 hrs. per sem.) 4 cl.

F-79, S-80, F-80, S-81 (A)

Fee depends upon project selected.

Prerequisites: FAR 331 & 332

Advanced printmaking, media determined by the student in consultation with the instructor; includes lecture and studio experiences.

FAR 341 INTERMEDIATE SCULPTURE I
3 cr. 4 cl.

F-79, S-80, F-80, S-81 (A)

Fee depends upon project selected.

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. Lecture and studio experiences.

FAR 342 INTERMEDIATE SCULPTURE II
3 cr. 4 cl.

F-79, S-80, F-80, S-81 (A)

Fee depends upon project selected.

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. Lecture and studio experiences.



FAR 343 ADVANCED SCULPTURE
3-9 cr. (3 hrs. per sem.) 4 cl.

F-79, S-80, F-80, S-81 (A)

Fee depends upon project selected.

Prerequisite: FAR 342

Concentration on individually selected areas of development in sculpture based on personal interest and needs; includes lecture and studio experiences.

FAR 345 FIGURE MODELING 3 cr. 4 cl.

F-79, S-80, F-80, S-81 (A)

Prerequisite: FAR 240

Figure modeling as a basic sculptural discipline; portrayal and interpretation of the human form; includes lecture and studio experiences.

FAR 400 DRAWING IV
3-6 cr. (3 hrs. per sem.) 4 cl.

S-80, S-81 (A)

Fee depends upon project selected.

Prerequisite: FAR 300

Advanced drawing with media and content based on individual needs. Concentration on individually selected area of development in drawing; use of model; lecture and studio experiences included.

FAR 410 SENIOR STUDIO IN PAINTING
6 cr. 8 cl.

F-79, S-80, F-80, S-81 (A)

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 advisor. BFA Painting majors only.

FAR 420 SENIOR STUDIO IN PHOTOGRAPHY 6 cr. 8 cl.

F-79, S-80, F-80, S-81 (A)

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 advisor. BFA Photography majors only.

FAR 430 SENIOR STUDIO IN PRINTMAKING 6 cr. 8 cl.

F-79, S-80, F-80, S-81 (A)

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 advisor. BFA Printmaking majors only.

FAR 440 SENIOR STUDIO IN SCULPTURE 6 cr. 8 cl.

F-79, S-80, F-80, S-81 (A)

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 advisor. BFA Sculpture majors only.



FAR 454 GREEK ART 3 cr. 3 cl.

F-79 (A)

Prerequisites: FAR 250 & 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. Required for Art History majors.

FAR 455 ETRUSCAN AND ROMAN ART
3 cr. 3 cl.

S-80 (A)

Prerequisites: FAR 250 & 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 cr. 3 cl.

S-81 (A)

Prerequisites: FAR 250 & 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 century; emphasizing historical and religious meaning.

(Continued p. 236)

ing of art, architecture, manuscript illumination and jewelled arts of the period. Illustrated lectures, extra class assignments.

FAR 457 GOTHIC ARTS 3 cr. 3 cl.

F-79 (A)

Prerequisites: FAR 250 & 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 and decline—from Abbot Suger and the Abbey Church of St. Denis to the Henry VII Chapel at Westminster Abbey. Required of Art History majors.

FAR 460 NORTHERN RENAISSANCE ART 3 cr. 3 cl.

F-80 (A)

Prerequisites: FAR 250 & 251

A concentrated study of the artistic production, including illuminated manuscripts, in the Netherlands, France, Germany, and England, from the late 14th through the early 16th century, including works of Broederlam, the Limbourg Brothers, the van Eycks, Roger van der Weyden, Petrus Christus, Hugo van der Goes, Bosch, Schongauer, and Duerer.

FAR 461 ITALIAN BAROQUE ART 3 cr. 3 cl.

F-80 (A)

Prerequisites: FAR 250 & 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 cr. 3 cl.

F-79 (A)

Prerequisites: FAR 250 & 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; lectures, discussions, extra class assignments.

FAR 463 TWENTIETH CENTURY ART 3 cr. 3 cl.

S-80, S-81 (A)

Prerequisites: FAR 250 & 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; including painting, sculpture, architecture, and other areas; extra class assignments.

FAR 467 BAROQUE OF NORTHERN EUROPE 3 cr. 3 cl.

S-81 (A)

Prerequisites: FAR 250 & 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, the Netherlands, and Germany.

FAR 468 ROMANESQUE ART 3 cr. 3 cl.

F-80 (A)

Prerequisites: FAR 250 & 251

A comprehensive study of architecture, sculpture, painting, and the decorative arts of Europe from the origins of a Romanesque style in the eleventh century through its culmination in the late twelfth 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 cr. 3 cl.

F-79, F-80 (A)

Prerequisites: FAR 313, 323, 333, 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. BFA majors only.

FAR 495 PROJECT

FAR 499 INDEPENDENT STUDY

Foreign Language

Offered by the Department of Foreign Language
DR. GISELE FEAL, Chairperson
Bishop Hall 121

Students may fulfill the foreign language requirement for the liberal arts degree in one of several ways, depending upon the number of years of high school level foreign language study completed.

Those interested in continuing the same language in college may need to take a placement test by applying to the secretary of the Foreign Language Department any time before semester registration. Or they may enroll directly in a foreign language course according to the number of years of language study in high school.

Those interested in studying a foreign language other than the one studied in high school, may credit their high school language preparation to the requirement.

Those interested in meeting the requirements by taking courses in related areas should consult the list of approved options prepared by the Foreign Language Department.

Major programs are offered in French, German, Spanish, and Italian. There are teacher education programs in French and Spanish. See also the section on foreign language requirement in B.A. programs, page 67.

Eighteen hours under advisement in any of the following will constitute a minor in the Foreign Language Department:

- Bilingual Education
- Classical Languages and Literature
- French Language and Literature
- German Language and Literature
- Italian Language and Literature
- Slavic Languages and Literature

A "C" placed immediately after the title of any course offered by the Department indicates that the course may be challenged by students with appropriate background in the subject matter.

FLA 100 ENGLISH AS A FOREIGN LANGUAGE 3 cr. 3 cl.

F-79, F-80 (H)

Prerequisite: Open only to students whose native language is not English. Spoken and written English designed to complement the foreign student's previous study of English. Required of foreign students whose score is inadequate on a diagnostic test.

FLA 101 ENGLISH AS A FOREIGN LANGUAGE 3 cr. 3 cl.

Sp-80, Sp-81 (H)

Prerequisite: Open only to students whose native language is not English. Spoken and written English designed to complement the foreign student's previous study of English. Required of foreign students whose score is inadequate on a diagnostic test.

FLA 201 INTRODUCTION TO LANGUAGE AND THE STUDY OF FOREIGN LANGUAGES 3 cr. 3 cl.

F-79, F-80 (H)

A general introduction to foreign language learning for non-language majors. Of particular value to students with no background in foreign language learning or with a fear or dislike of foreign language learning. Note: Not open to English or foreign language majors.

FLA 210 ITALIAN-AMERICANS: LITERATURE AND SOCIETY 3 cr. 3 cl.

Sp-80, Sp-81 (H)

The Italian experience in the United States as seen through works of fiction and non-fiction.

FLA 333 YIDDISH LITERATURE (ENG 333) IN TRANSLATION 3 cr. 3 cl.

Sp-80, Sp-81 (H)

Prerequisite: A basic literature course or permission of the instructor. A study of selected works from such writers as Shalom, Aleichem, I.L. Peretz, Sholom Asch, I.J. Singer, I.B. Singer and relationships to East European and American Literature and culture.

(Continued p. 238)

FLA 337 GREEK AND ROMAN MYTHOLOGY

See description under Classical Languages and Literature.

FLA 338 INTRODUCTION TO CLASSICAL GREEK DRAMA

See description under Classical Languages and Literature.

FLA 345 MATRIARCHAL MYTHOLOGY IN SPANISH AND FRENCH LITERATURE
3 cr. 3 cl. (in translation)

F-79 (H)

Prerequisite: A basic literature course or permission of the instructor. A study of the conflict of matriarchal and patriarchal mythologies as presented in selected Spanish and French dramas.

FLA 461 LANGUAGE TEACHING WORKSHOP 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81

Prerequisite: Mastery of the language to be taught and permission of the 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 large group instruction.

FLA 462 LANGUAGE TEACHING WORKSHOP 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81

Prerequisite: Mastery of the language to be taught and permission of the instructor. Continuation of FLA 461.

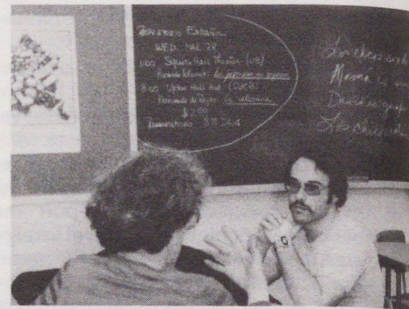
FLA 478 METHODS OF TEACHING ENGLISH AS A SECOND LANGUAGE 3 cr. 3 cl.

Sp-80, Sp-81

Prerequisite: An introductory course in linguistics or the structure of English, or permission of the instructor. Practical experience in preparing materials for teaching and testing English as well as discussion of the theory and practice of teaching English as a second language.

FLA 495 PROJECT**FLA 499 INDEPENDENT STUDY**
3 cr. class hours variable.

Offered depending upon availability. (H)
Prerequisite: Permission of instructor

**Foreign Language Education****FLE 210 FIELD EXPERIENCE IN FOREIGN LANGUAGE EDUCATION** 3 cr. 6 cl.

F-80, Sp-81

Prerequisite: Sophomore standing; completion of 302 level (or equivalent) in language of qualification; GPA above 2.0 in language of qualification or Good on MLA Scale; proficiency in English (FSI Scale—3). 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 410 METHODS AND MATERIALS FOR TEACHING FOREIGN LANGUAGES IN SECONDARY SCHOOLS 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81

Prerequisites: FLE 210 (for students entering the program in fall '79 or thereafter); EDU 303; EDU 353; GPA above 2.0. Introduction to the elements of a foreign language curriculum. Selecting, organizing and presenting material; designing classroom activities; evaluating student progress; teacher-pupil relationships.

Notes:

1. Required of students in Foreign Language teacher certification programs
2. Should be taken in the semester immediately preceding FLE 413
3. Not open to first semester juniors.

FLE 413 PRACTICUM IN THE TEACHING OF FOREIGN LANGUAGES IN THE SECONDARY SCHOOLS
12 cr. 30 cl.

F-79, Sp-80, F-80, Sp-81

Prerequisites: All mandated courses in language of specialization; Grade of C or higher in FLE 410; GPA above 2.0 in language of specialization; passing grade in ENG 101-102 or equivalent; if referred, satisfactory completion of EXE 100 (Student Speech Clinic); SED 250 or FLE 210; SED 303, SED 305. Teaching under supervision in a middle, junior high or senior high school five days per week, with additional participation in school program. Evaluation by college and school personnel.

Classical Languages and Literature**FLA 337 GREEK AND ROMAN MYTHOLOGY** 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (H)

Prerequisite: A basic literature course or permission of the 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 origin and meaning of the myths studied.

FLA 338 INTRODUCTION TO CLASSICAL GREEK DRAMA
3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (H)

Prerequisite: A basic literature course or permission of the 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 theatre and theatrical conventions.

French

Offered by the Department of Foreign Language
DR. GISELE FEAL, Chairperson
Bishop Hall 121

FRE 101 ELEMENTARY FRENCH (C)
3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (H)

Fundamentals of French with emphasis on the spoken language.

FRE 102 ELEMENTARY FRENCH (C)
3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (H)

Prerequisite: FRE 101 or equivalent
Continuation of FRE 101.

FRE 201 INTERMEDIATE FRENCH (C)
3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (H)

Prerequisite: FRE 102 or equivalent
Further development of the basic skills with emphasis on reading and writing.

FRE 202 INTERMEDIATE FRENCH (C)
3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (H)

Prerequisite: FRE 201 or equivalent
Continuation of FRE 201.

FRE 301 FRENCH CONVERSATION AND COMPOSITION 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (H)

Prerequisite: FRE 202 or equivalent
Practice in spoken and written French.

FRE 302 FRENCH CONVERSATION AND COMPOSITION 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (H)

Prerequisite: FRE 202 or equivalent
Practice in spoken and written French.

FRE 305 SPOKEN FRENCH 3 cr. 3 cl.

F-79, F-80 (H)

Prerequisite: FRE 301 and FRE 302, or permission of the instructor. Introduction to French phonetics and applied linguistics. Required for teaching majors.

(Continued p. 240)

FRE 306 THE CIVILIZATION OF FRANCE
3 cr. 3 cl.

Sp-80, Sp-81 (H)

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 cr. 3 cl.

F-79, F-80 (H)

Prerequisite: FRE 301 or permission of instructor. The Middle Ages through the Renaissance.

FRE 308 SURVEY OF FRENCH LITERATURE 3 cr. 3 cl.

Sp-80, Sp-81 (H)

Prerequisite: FRE 301 or permission of instructor. Classicism and the Enlightenment.

FRE 331 CONTEMPORARY (ENG 331) LITERATURE OF FRANCE IN TRANSLATION 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (H)

Prerequisite: A basic literature course or permission of instructor. Selected masterpieces of contemporary 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 cr. 3 cl.

F-81 (H)

Prerequisite: FRE 307-308 or permission of the instructor. The French theater of the seventeenth century.

FRE 403 NINETEENTH CENTURY FRENCH NOVEL 3 cr. 3 cl.

Sp-81 (H)

Prerequisite: FRE 307-308 or permission of the instructor. A study and analysis of major works of the period.

FRE 404 CONTEMPORARY FRENCH NOVEL 3 cr. 3 cl.

Sp-80 (H)

Prerequisite: FRE 307-308 or permission of the instructor. A study and analysis of major works of the twentieth century.

FRE 408 CONTEMPORARY FRENCH THEATER 3 cr. 3 cl.

F-79 (H)

Prerequisite: FRE 307-308 or permission of the instructor. The French Theater of the twentieth century.

FRE 415 ADVANCED GRAMMAR AND COMPOSITION 3 cr. 3 cl.

F-79, F-80 (H)

Prerequisite: FRE 301-302

Systematic study of advanced topics of French grammar with work in French composition. Recommended for teaching majors.

FRE 416 ADVANCED CONVERSATION AND COMPOSITION 3 cr. 3 cl.

Sp-80, Sp-81 (H)

Prerequisite: FRE 302 and FRE 415, or permission of the instructor. Advanced conversation dealing with contemporary French civilization and institutions. Recommended for teaching majors.

Special Note:

Any of the following courses may be added to the French electives offered. These may also be studied under FLA 495 (Special Project) or FLA 499 (Independent Study) with the approval of the appropriate instructor.

FLA 212 CONTEMPORARY FRANCE: ITS HERITAGE, ITS INFLUENCE**FRE 407 THE FRENCH ENLIGHTENMENT****FRE 409 NINETEENTH CENTURY FRENCH DRAMA****FRE 403 FRENCH RENAISSANCE****FRE 450 DIRECTED READINGS I****FRE 451 DIRECTED READINGS II****FRE 496 SENIOR SEMINAR I****FRE 497 SENIOR SEMINAR II**

Geography

Offered by the Department of Geography & Sociology
DR. RAYMOND W. WAXMONSKY,
Chairperson
Classroom Building 213A

GEG 100 CONTEMPORARY TOPICS IN GEOGRAPHY 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (SS)

An overview of the major subject areas in geography to include discussions of the spatial aspects of the natural, cultural, economic, urban and political environments of man, as well as his use and misuse of natural resources.

GEG 101 MAN'S NATURAL ENVIRONMENT 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (SS)

Nature of geography; earth-sun relationships; maps and map interpretation; and classification, world distribution, and origins of the major elements of the natural environment; climates, soils, natural vegetation, and landforms. Required of geography majors.

GEG 102 MAN'S CULTURAL ENVIRONMENT 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (SS)

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 104 MAN'S ECONOMIC ENVIRONMENT 3 cr. 3 cl.

S-81 (SS)

An examination of the principal economic activities by which man supports himself with particular attention given to major agricultural systems, forestry, fishing and some of the more important natural resources, including energy minerals.

GEG 107 RESOURCES AND MAN
3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (SS)

Relationships between man and physical environment; man's use and management of the environment and resources; consequences of man's modifications of the environment; changing values toward nature and resources. Required of Track 1 (Physical Geography/Conservation) Geography majors.

GEG 200 INTRODUCTION TO REGIONAL GEOGRAPHY
3 cr. 3 cl.

S-81 (SS)

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 occupation of each region.

GEG 202 GEOGRAPHY OF NORTH AMERICA 3 cr. 3 cl.

F-79 (SS)

Analysis of the basic geographic elements of North America (Canada and the United States) including the natural environment, natural resources, economic activities, population and urbanization.

GEG 203 GEOGRAPHY OF MIDDLE AMERICA 3 cr. 3 cl.

F-80 (SS)

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 CHINA & THE FAR EAST 3 cr. 3 cl.

F-79 (SS)

Excludes the Soviet Union; regional divisions; landforms, 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.

(Continued p. 242)

GEG 206 GEOGRAPHY OF NEW YORK STATE 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (SS)
Landform regions, climate and natural resources; development of transportation; utilization and conservation of soil, mineral, forest, wildlife and water resources; industrial development; distribution of population; location and functions of cities.

GEG 303 WORLD CLIMATOLOGY 3 cr. 3 cl.

S-80 (SS)

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 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (SS)

History of maps; types of maps; techniques in map interpretation; methods of developing map-reading skills. Open to upperclassmen.

GEG 305 PRINCIPLES OF ECONOMIC GEOGRAPHY 3 cr. 3 cl.

S-80 (SS)

Prerequisite: Junior or senior standing and ECO 202 or permission of instructor. Required of Urban-Regional Analysis & Planning majors and of Track 3 (Urban/Economic) Geography majors. 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.

GEG 307 CONSERVATION AND ENVIRONMENTAL MANAGEMENT 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (SS)

Discussion of concepts of natural, human and cultural resources; concepts and philosophy of conservation; problems and strategies in environmental management and resource consideration. Required of

Track 1 (Physical Geography/Conservation) Geography majors. Open to upperclassmen.

GEG 308 AGRICULTURAL GEOGRAPHY 3 cr. 3 cl.

S-81 (SS)

Study of agricultural activities with emphasis on world distribution of major crops and animals and their relationships to the physical environment; examination of world-wide distribution of commercial fishing and forest industries. Open to upperclassmen.

GEG 309 INTRODUCTION TO URBAN GEOGRAPHY 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (SS)

Spatial arrangement of land uses existing within the American city; differences between American cities of function, size and location; dynamics of change in city structures; central place theory and urban structures; and the role of urban structures; and the role of urban geography in city planning. Required for Urban-Regional Analysis and Planning majors and of Tracks 2 and 3 (Historical/Cultural and Urban/Economic Geography majors. Open to upperclassmen.

GEG 310 GEOGRAPHY OF TRANSPORTATION 3 cr. 3 cl.

F-80 (SS)

Prerequisite: Any urban oriented course or permission of instructor. Open to upperclassmen. Geography of urban transportation: factors affecting the location and economies of cities, intraurban mass transit; highways, rail, air transportation; planning and techniques of transportation and transit.

GEG 313 AIR PHOTO INTERPRETATION 3 cr. 3 cl.

S-80 (SS)

Prerequisite: GEG 101 or physical geology and/or cultural geography; or permission of instructor. Techniques of aerial photograph interpretation as applied to natural and man-made environments; technical aspects of obtaining and using aerial photographs; and remote sensing.

GEG 315 INTRODUCTION TO COMMUNITY PLANNING 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (SS)

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. Open to upperclassmen.

GEG 320 HISTORICAL GEOGRAPHY OF THE UNITED STATES 3 cr. 3 cl.

F-79 (SS)

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. Open to upperclassmen.

GEG 322 GEOGRAPHY OF POVERTY 3 cr. 3 cl.

F-80 (SS)

A geographical examination of selected major poverty areas, both urban and rural, in the world; analysis of spatial inequality and attempts to reduce this inequality.

GEG 330 LAND RESOURCE ANALYSIS & PLANNING 3 cr. 3 cl.

F-79 (SS)

Prerequisite: One of GEG 101, 107, 305, or 307; or a declared major in Urban-Regional Analysis and Planning and consent of the instructor. 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 351 GEOGRAPHY OF AFRICA 3 cr. 3 cl.

F-79 (SS)

Prerequisite: Junior or senior standing
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 cr. 3 cl.

F-80 (SS)

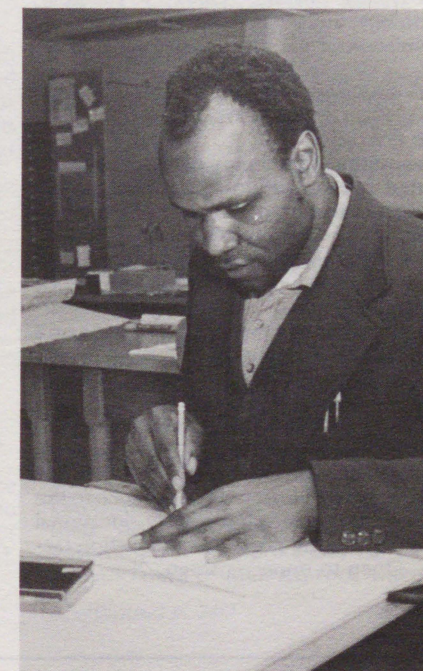
Excludes the Soviet Union; physiographic regions, landforms, climate, natural vegetation, soils, and drainage patterns; major economies and their relationships to the natural environment; interdependence of regions. Open to upperclassmen.

GEG 353 GEOGRAPHY OF THE SOVIET UNION 3 cr. 3 cl.

F-79 (SS)

Physiographic regions; landforms, climate, natural vegetations, soils, and drainage patterns; major economies and their relationships to the natural environment; problems resulting from changes in land use; interdependence of regions. Open to upperclassmen.

(Continued p. 244)



GEG 360 GEOGRAPHY OF ENERGY AND MINERAL RESOURCES 3 cr. 3 cl.

F-80 (SS)

Prerequisite: Junior standing

Geography of energy and mineral resources study of the world's distribution, production, and consumption of energy and mineral resources: their technical, economic, and spatial characteristics; their geo-political ramifications; their inadequacies and future outlook. Emphasis will be placed on the energy resources and select non-energy minerals in the United States but with some consideration of other key areas. Required of students minoring in Energy Science.

GEG 401 DEVELOPMENT OF GEOGRAPHIC THOUGHT 3 cr. 3 cl.

S-80, S-81 (SS)

Seminar on the development of geographic thought and methodology from the Ancient Greeks to modern times. Discusses the evolution of schools of thought among Greeks, Romans, Medieval Europeans, Arabians, and Moderns. Required of Geography majors. Open to History, Sociology, and Political Science majors by permission of the instructor only.

GEG 405 ADVANCED URBAN GEOGRAPHY 3 cr. 3 cl.

S-80 (SS)

Prerequisite: Nine hours of urban or urban related courses including GEG 309 or permission of instructor. 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 cr. 3 cl.

F-80 (SS)

Analysis of manufacturing of developed economies as illustrated by reference to the United States; location theory, locational decision making process, and location factors. Open to upperclassmen.

GEG 410 RESOURCE USE AND URBAN PLANNING 3 cr. 3 cl.

S-81

Principles and concepts of resource use and urban planning; interrelationships between natural and human resources; urban-metropolitan and regional planning. Open to upperclassmen.

GEG 411 (ECO 411) REGIONAL & URBAN ANALYSIS 3 cr. 3 cl.

S-80 (SS)

Prerequisite: ECO 202 or consent of instructor. Analysis of the spatial structure and functioning of the region. Emphasis will be placed upon comprehending the growth and development of the urban region with attention being given to the techniques of analyses used by practitioners in the discipline.

GEG 413 CARTOGRAPHY 3 cr. 4 cl.

F-80 (SS)

Prerequisite: GEG 101 or permission of instructor. 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 cr. 3 cl.

S-80, S-81 (SS)

Prerequisite: Twelve hours of Geography at least three of which are related to the seminar topic or permission of the instructor. One seminar, appropriate to the major's Track, is required of Track 1 (Physical Geography/Conservation) and Track 2 (Historical/Cultural) Geography majors. Investigation, examination, and discussion of topics of current interest in geography. Techniques and analysis of geographic research.

GEG 495 PROJECT (N grade permissible.)**GEG 499 INDEPENDENT STUDY** (N grade permissible.)

Geosciences

Offered by The Department of Geosciences, Physics, and Interdisciplinary Sciences
DR. ROBERT E. HORVAT, Chairperson
Science Building 271

All courses in geosciences may include occasional field trips.

GES 101 INTRODUCTORY GEOLOGY 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (MS)

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. Students obtaining credit for GES 101 may not obtain credit for GES 122. Concurrent registration in GES 103 is recommended for geology and geoscience majors.

GES 102 HISTORICAL GEOLOGY 3 cr. 4 cl.

F-79, Sp-80, F-80, Sp-81 (MS)

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.

GES 103 INTRODUCTORY GEOLOGY LABORATORY 1 cr. 2 cl.

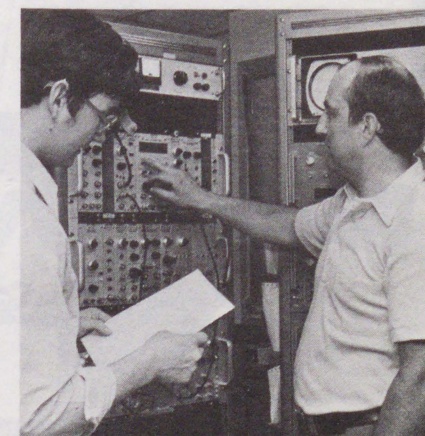
F-79, Sp-80, F-80, Sp-81 (MS)

Prerequisite: GES 101 or GES 122 (may be concurrent). Identification of rocks and minerals, map and aerial photograph interpretation.

GES 122 PRINCIPLES OF EARTH SCIENCE: GEOLOGY 3 cr. 4 cl.

F-79, Sp-80, F-80, Sp-81 (MS)

Topics from geology, selected for relevance to concepts and processes fundamental to earth science. Students obtaining credit for GES 122 may not obtain credit for GES 101.

**GES 131 INTRODUCTORY ASTRONOMY** 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 Summers (MS)

A non-mathematical survey of the universe. The sun, planets, moons, and comets comprising our solar system. Also an investigation of stars, galaxies, and finally the universe.

GES 223 ENVIRONMENTAL EARTH SCIENCE 3 cr. 3 cl.

F-79, F-80 (MS)

Practical study of interrelations of man and earth systems. Energy resources, non-renewable earth materials, earthquake prediction and control, volcanoes, land movements, man's effect on weather and climate.

GES 241 METEOROLOGY 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (MS)

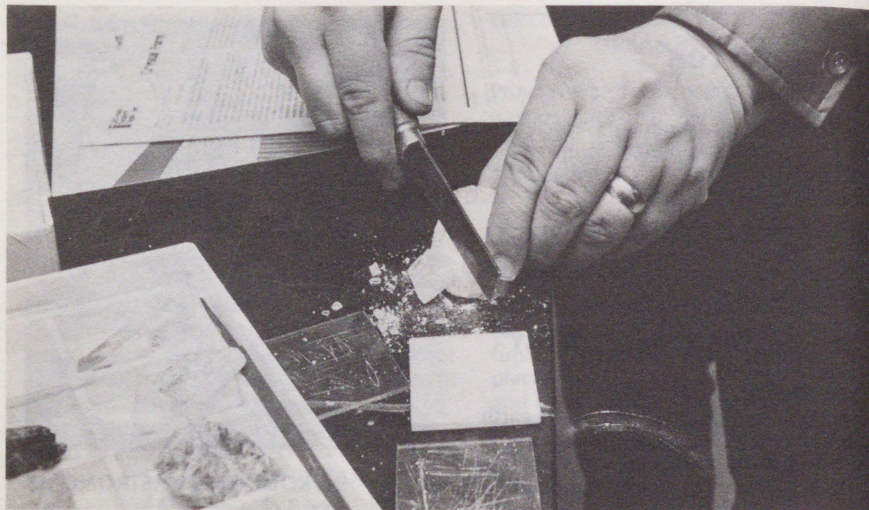
An introduction to weather, including prediction, meteorological instruments, atmospheric movements, humidity and precipitation, high and low pressure areas, air masses and fronts, heat balance, and climates past and present.

GES 301 STRATIGRAPHY 3 cr. 3 cl.

F-79, F-80 (MS)

Prerequisites: GES 101 or GES 122; GES 102 (may be concurrent). Basic principles governing the interpretation, correlation, nomenclature of stratified rock units.

(Continued p. 246)



GES 302 INVERTEBRATE PALEONTOLOGY 3 cr. 4 cl.

Sp-80, Sp-81 (MS)
Prerequisites: GES 102, BIO 116 and 1 additional semester of biology. Invertebrate fossils and their stratigraphic distribution.

GES 304 THE COMMON ROCKS AND MINERALS 3 cr. 4 cl.

F-79, F-80 (MS)
Prerequisites: GES 101 or GES 122; CHE 111-112 or CHE 101-102 (may be concurrent). The common rocks and minerals, emphasizing how they are identified, where they occur, and how they form.

GES 305 OPTICAL MINERALOGY 3 cr. 4 cl.

Sp-80, Sp-81 (MS)
Prerequisite: GES 304
 The use of the petrographic microscope and the identification of minerals in crushed grains and thin section.

GES 307 GEOMORPHOLOGY 3 cr. 4 cl.

Sp-80, Sp-81 (MS)
Prerequisite: GES 101 or GES 122 or GEG 101.
 Description and analysis of landscape with emphasis on the processes which lead to landform development, includes an introduction to quantitative studies.

GES 308 STRUCTURAL GEOLOGY 3 cr. 4 cl.

Sp-80 (MS)
Prerequisites: GES 101 or 122; GES 103
 Analysis of folds, faults, and other structural features in sedimentary and metamorphic terrains; introduction to rock mechanics, regional tectonics.

GES 331 MODERN SOLAR SYSTEM ASTRONOMY 3 cr. 3 cl.

F-79 (MS)
Prerequisite: GES 131 or equivalent
 The moon and the planets, their appearance, atmosphere, 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 NASA research and current problems in our understanding of the solar system.

GES 332 STELLAR AND GALACTIC ASTRONOMY 3 cr. 3 cl.

F-80, Sp-81 (MS)
Prerequisite: GES 131 or equivalent
 How astronomers have determined the properties of stars, the energy of stars, the masses and composition of stars, stellar evolution, the structure of the galaxy, the movement of stars in the galaxy.

GES 335 METHODS OF OBSERVATIONAL ASTRONOMY 3 cr. 4 cl.

F-79, Sp-81 (MS)
Prerequisite: GES 131
 Locating celestial objects in the night sky; use of astronomical telescopes to locate, observe, and photograph stars, nebulae and galaxies; using the sextant for navigation.

GES 339 ASTRONOMY AND COSMOLOGY 3 cr. 3 cl.

Sp-80 (MS)
Prerequisite: GES 131 or equivalent
 Cosmology, the primeval fireball, quasars, pulsars, black holes, origin of the elements.

GES 359 THE GEOLOGY OF ENERGY AND MINERAL RESOURCES 3 cr. 3 cl.

Sp-81 (MS)
Prerequisite: Junior standing
 Origin, nature, and abundance of the earth's energy supplies and mineral deposits: coal, oil, natural gas, geothermal power, metallic and non-metallic mineral deposits.

GES 401 IGNEOUS AND METAMORPHIC PETROLOGY 3 cr. 4 cl.

F-79, F-80 (MS)
Prerequisite: GES 304, and CHE 111-112 or instructor permission. Description, origin, and classification of igneous and metamorphic rocks.

GES 403 GLACIAL GEOLOGY 3 cr. 4 cl.

F-80 (MS)
Prerequisite: GES 307
 Glacial landscapes, the behavior of ice, and the sequence of Pleistocene events. Includes theories on causes of Ice Ages. Emphasis on glacial history of the New York State Great Lakes region.

GES 404 FIELD GEOLOGY 3 cr. 5 cl. (or field trips)

Sp-80, Sp-81 (MS)
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 cr. 3 cl.

F-79 (MS)
Prerequisite: GES 101 or GES 122; GES 102.
 Major physical provinces of the United States and adjacent areas: their geologic history structure, and topographic development.

GES 409 FLUVIAL GEOMORPHOLOGY 3 cr. 4 cl.

F-79 (MS)
Prerequisite: GES 307
 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 cr. 2 cl.

F-79, F-80 (MS)
Prerequisite: GES 305; GES 401 (may be concurrent). The description, classification, and interpretation of rocks and their textures by means of the petrographic microscope.

GES 431 PLANETARIUM SEMINAR 3 cr. 4 cl.

F-80 (MS)
Prerequisite: Two semesters of astronomy
 Star identification and operation of the planetarium instrument. Developing and presenting planetarium programs for school children and/or the general public.

GES 495 PROJECT 1-3 cr. 2-6 cl.

F-79, Sp-80, F-80, Sp-81 Summers (MS)
Prerequisite: Approval of a faculty sponsor must be secured prior to registration. Environmental, energy, geology or astronomy related areas.

GES 499 INDEPENDENT STUDY 3-6 cr. 6-12 cl.

F-79, Sp-80, F-80, Sp-81 Summers (MS)
Prerequisite: Approval of a faculty sponsor must be secured prior to registration. Environmental, energy, geology or astronomy related areas.

German

Offered by the Department of Foreign Language
DR. GISELE FEAL, Chairperson
Bishop Hall 121

GER 101 ELEMENTARY GERMAN I 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (H)
Fundamentals of German with emphasis upon speaking.

GER 102 ELEMENTARY GERMAN II 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (H)
Prerequisite: GER 101 or equivalent
Continuation of GER101.

GER 201 INTERMEDIATE GERMAN I 3 cr. 3 cl.

F-79, F-80 (H)
Prerequisite: GER 102 or equivalent
Further development of the basic skills with emphasis upon reading, aural comprehension and speaking.

GER 202 INTERMEDIATE GERMAN II 3 cr. 3 cl.

Sp-80, Sp-81 (H)
Prerequisite: GER 201 or equivalent
Continuation of GER 201.



GER 301 GERMAN CONVERSATION AND COMPOSITION I (C) 3 cr. 3 cl.

F-79, F-80(H)
Prerequisite: GER 202 or equivalent
Practice in written and spoken German with emphasis upon the spoken language.

GER 302 GERMAN CONVERSATION AND COMPOSITION II (C) 3 cr. 3 cl.

Sp-80, Sp-81 (H)
Prerequisite: GER 202 or equivalent
Practice in spoken and written German with emphasis upon the written language.

GER 307 HISTORY OF GERMAN LITERATURE I 3 cr. 3 cl.

F-79, F-80
Prerequisite: Ger 202 or equivalent
Chronological study of German literature from the Middle Ages through the eighteenth century. Readings of representative selections from major authors.

GER 308 HISTORY OF GERMAN LITERATURE II 3 cr. 3 cl.

Sp-80, Sp-81
Prerequisite: GER 202 or equivalent
Continuation of GER 307. Reading of representative selections from the major authors of the Classical period and the nineteenth and twentieth centuries.

GER 337 INTELLECTUAL & CULTURAL TRENDS AS REFLECTED IN MODERN GERMAN LITERATURE 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (H)
Prerequisite: A basic literature course or permission of the instructor. A study of cultural trends and literary schools as manifested in selected works of major German authors of the 19th and 20th centuries. Lectures and readings in English; no knowledge of German required.

Greek

Offered by the Department of Foreign Language
DR. GISELE FEAL, Chairperson
Bishop Hall 121

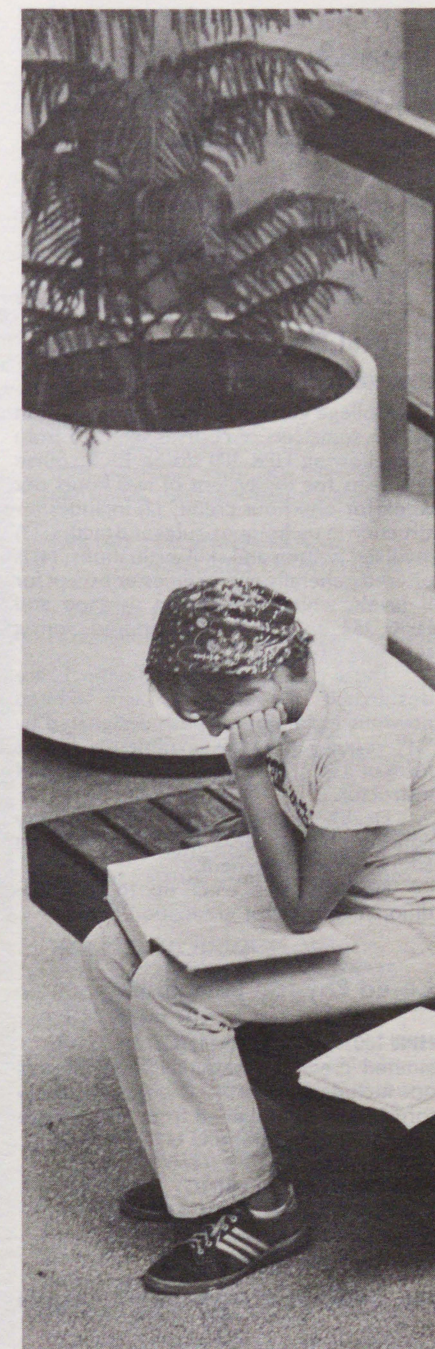
GRK 101 ELEMENTARY NEW TESTAMENT GREEK (KOINE) 3 cr. 3 cl.

F-79, F-80 (H)
Fundamentals of Koine Greek with emphasis upon reading.

GRK 102 ELEMENTARY NEW TESTAMENT GREEK (KOINE) 3 cr. 3 cl.

Sp-80, Sp-81 (H)
Prerequisite: GRK 101 or its equivalent
Continuation of GRK 101.

NOTE: Further study of Koine Greek at the 201 level and beyond is available under FLA 499, Independent Study.



Health, Physical Education and Recreation

Offered by the Department of Health,
Physical Education & Recreation
DR. FLORENCE M. HULETT, Chairperson
New Gym 204

Physical Education

HPR 100 Series

The College currently requires completion of two semesters of courses selected from the following HPR 100 series. Each course (1) meets the equivalent of two hours per week for one hour credit; (2) includes instruction in techniques, rules and tactics; (3) involved written and skill evaluations; (4) is offered generally every semester except for II levels, which depend on demand and HPR 132 and HPR 152, offered spring semester only.

Those courses designated with "I" are designated for students with limited previous experience. Those designated by "II" require previous experience in the form of a semester course or permission of instructor.

Health science and other theory courses do not satisfy the above Physical Education Requirement.

Students may elect up to four additional courses for graduation credit.

Co-ed Physical Education

HPR 100 SPECIAL PROJECT

Limited credit for certain PE experiences not included in the list below. Necessary forms must be obtained from HPER office prior to the registration.

COURSE RENUMBERING CO-ED PHYSICAL EDUCATION

Individual

100 SPECIAL PROJECT

101 INDIVIDUAL PHYSICAL EDUCATION

- 102 ARCHERY I
- 106 BOWLING I
- 110 GOLF I
- 114 JOGGING FOR PHYSICAL FITNESS
- 118 SELF DEFENSE I
- 119 SELF DEFENSE II
- 122 SKIING CONDITIONING
- 124 SKIING I (slopes)
- 128 CROSS-COUNTRY SKIING
- 129 ADVANCED CROSS-COUNTRY SKIING

Dual/Team

- 136 BADMINTON I
- 137 BADMINTON II
- 140 FENCING I
- 141 FENCING II
- 144 TENNIS I
- 148 VOLLEYBALL I
- 149 VOLLEYBALL II

Swimming

- 151 SWIMMING—NONSWIMMERS
- 152 SWIMMING—BEGINNERS
- 153 SWIMMING—INTERMEDIATE
- 155 LIFE SAVING

Students must be of intermediate swimmer level or secure permission of instructor. American Red Cross course requirement must be met.

Dance

- 160 RHYTHMIC MOVEMENT I
- 162 BALLROOM DANCE
- 164 FOLK DANCE I
- 165 FOLK DANCE II
- 166 JAZZ DANCE
- 168 TAP DANCE
- 170 MODERN DANCE I
- 171 MODERN DANCE II

Women

- 176 GYMNASTICS
(STUNTS-APPARATUS)
- 178 FIELD HOCKEY

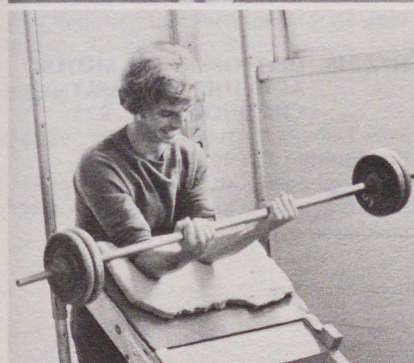
180 PHYSICAL FITNESS I

182 RACKETBALL

Men

- 190 AQUATIC SPORTS
- 192 FENCING—SABRE & EPES
- 194 HANDBALL
- 196 RACKETBALL
- 198 WEIGHT TRAINING

A course may not be repeated for credit. Students may challenge HPR 102, HPR 106, HPR 155 by applying to HPER Department by the announced date each semester, and following the assigned reading, knowledge test, and performance test procedure as scheduled.



Elective and Professional

The Physical Education Concentration for the Elementary Education major requires HPR 250, HPR 301, HPR 305, HPR 311, HPR 312, HPR 325. Other courses are by advisement.

The pattern of courses to meet the Coaching Requirement, approved by the State Education Department, includes HPR 300, HPR 301, HPR 335, plus one more of the HPR 202-209 Techniques and Theories (of Sports).

HPR 202 TECHNIQUES AND THEORIES OF SOCCER 3 cr. 3 cl.

F-79, F-80 (R)

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 cr. 3 cl.

F-79, F-80 (R)

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 cr. 3 cl.

Sp-80 (R)

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 3 cr. 3 cl.

Sp-80, Sp-81 (R)

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 cr. 3 cl.

F-79 (R)

A complete analysis of the sport of swimming with particular emphasis on history, present status, rules, techniques and theories.

(Continued p. 252)

HPR 209 TECHNIQUES AND THEORIES OF BASKETBALL 3 cr. 3 cl.

F-79, F-80 (R)

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 cr. 3 cl. (2 in pool)

Sp-80, Sp-81

Prerequisite: HPR 115 or current Life Saving card. A course in the knowledge and techniques of aquatic instruction, principles of site selection, class organization, teaching progressions, drills and skill instruction. Successful completion would lead to certification by the American Red Cross in Water Safety Instruction. Note: Students may challenge HPR 210 by applying to HPR Department by the announced date each semester, and following the assigned reading and knowledge test procedure as scheduled.

HPR 250 MOVEMENT AND MEANING: INTRO. TO THE ART & SCIENCE OF HUMAN MOVEMENT 3 cr. 3 cl.

F-79, F-80 (R)

Critical orientation to the discipline of Physical Education philosophical and historical perspectives; psychological, sociological, physiological foundations. Required for concentration in physical education.

HPR 300 ATHLETICS IN EDUCATION 3 cr. 3 cl.

Sp-80, Sp-81 (R)

Prerequisite: sophomore level

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 FOUNDATIONS OF HUMAN MOVEMENT 3 cr. 3 cl.

F-79, F-80 (R)

Prerequisite: Sophomore level

Study of selected anatomical, physiological and mechanical principles of movement

and their application to human motion. Required for both the Physical Education Concentration and the State Standards for the Coaching Requirement.

HPR 305 MOTOR DEVELOPMENT 3 cr. 3 cl.

F-79, F-80 (R)

Study of the developmental basis of physical activity. Required for the Physical Education Concentration.

HPR 311 GAMES FOR SCHOOL AND PLAYGROUND 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (R)

Prerequisite: HPR 250 for P.E. Concentration. Participation in, analysis and recording of, a variety and progression of games, skill activities and sports lead-ups suitable for "Play" situations in the home, school and community setting. Required for the Physical Education Concentration.

HPR 312 CREATIVE AND TRADITIONAL DANCE FOR CHILDREN 2 cr. 2 cl.

F-79, F-80 (R)

Prerequisite: Sophomore standing or HPR 250. Participation in the exploratory study of creative and traditional dance for children. Required for the Physical Education Concentration.

HPR 315 AQUATICS FOR THE EXCEPTIONAL CHILD 2 cr. 2 cl.

Sp-80, Sp-81

Prerequisite: Intermediate or higher swim level. Lecture and laboratory experience in adapting the skills and teaching methods of swimming for the exceptional child. American Red Cross Certification is possible.

HPR 316 DEVELOPMENTAL MOTOR ACTIVITIES FOR EARLY CHILDHOOD 3 cr. 3 cl.

F-79, F-80 (R)

Prerequisite: PSY 101 or EDU 210

The exploratory study of developmental motor activities and materials for early childhood.

HPR 319 SOCIOLOGY OF SPORT (SOC 319) 3 cr. 3 cl.

(S)

Prerequisite: SOC 101

The study of sport and related social phenomena of social statuses, norms, goals, values, and organizational networks.

HPR 325 PHYSICAL EDUCATION FOR CHILDREN 3 cr. 4 cl.

F-79, Sp-80, F-80, Sp-81 (R)

Prerequisite: Upperclass standing

Lecture and laboratory experiences stressing development of the child through physical education activities. Required for the Physical Education Concentration.

HPR 330 PHYSICAL EDUCATION AND RECREATION FOR THE EXCEPTIONAL CHILD 3 cr. 3 cl.

F-79, Sp-80, Sp-81

Prerequisite: EXE 300 or upper class standing. Lecture and laboratory experiences in adapting the skills and teaching methods of physical education and recreation for the exceptional child. Elective for second semester upperclassmen with a declared major in elementary education or exceptional education.

HPR 335 PREVENTION AND CARE OF ATHLETIC INJURIES 3 cr. 3 cl.

Sp-80, Sp-81 (R)

Prerequisite: HPR 301 or equivalent

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 minimal State standards for the Coaching Requirement.

HPR 495 PROJECT**HPR 499 INDEPENDENT STUDY****Health Science**

Offered by the Department of Health, Physical Education & Recreation
DR. FLORENCE M. HULETT, Chairperson
New Gym 204

HSC 204 PERSONAL AND COMMUNITY HEALTH 3 cr. 3 cl.

Sp-81 (R)

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. Included are critical issues mandated in New York State Public School.

HSC 320 ALCOHOL, NARCOTICS AND HALLUCINOGENS 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (R)

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 therapy. Note: Students may challenge HSC 320 by applying to HPR Department by the announced date each semester and following the assigned reading and knowledge test procedure as scheduled.

HSC 425 ALCOHOL PROBLEMS 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (R)

Prerequisite: Upper class standing

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 implications for teaching and for therapy.

HSC 495 PROJECT**HSC 499 INDEPENDENT STUDY**

Hebrew Language and Literature

Offered by the Department of Foreign Language
DR. GISELE FEAL, Chairperson
Bishop Hall 121

HEB 101 ELEMENTARY HEBREW 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (H)
Fundamentals of Hebrew with emphasis upon speaking.

HEB 102 ELEMENTARY HEBREW 3 cr. 3 cl.

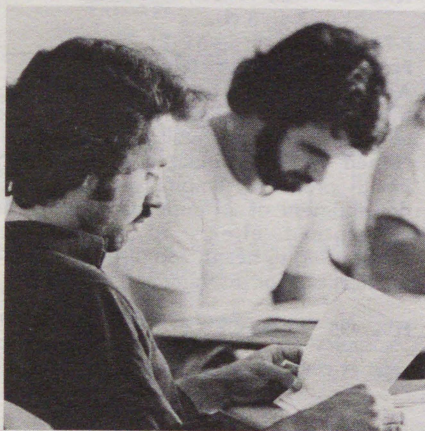
F-79, Sp-80, F-80, Sp-81 (H)
Prerequisite: HEB 101 or equivalent
Continuation of HEB 101.

HEB 201 INTERMEDIATE HEBREW 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (H)
Prerequisite: HEB 102 or equivalent
Further development of the basic skills with emphasis on reading and writing.

HEB 202 INTERMEDIATE HEBREW 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (H)
Prerequisite: HEB 201 or equivalent
Continuation of HEB 201.



HEB 301 HEBREW CONVERSATION AND COMPOSITION 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (H)
Prerequisite: HEB 202 or equivalent
Practice in spoken and written Hebrew with emphasis on the spoken language.

HEB 302 HEBREW CONVERSATION AND COMPOSITION 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (H)
Prerequisite: HEB 202 or equivalent
Practice in spoken and written Hebrew with emphasis on the spoken language.

HBI 101 INTRODUCTION TO THE BIBLICAL LITERATURE 3 cr. 3 cl.

F-79, F-80 (H)
The structure and development of the Hebrew Bible; major trends in Biblical Exegesis since antiquity; the interpretation of representative selections with the use of traditional and modern commentaries.

HBI 102 INTRODUCTION TO HEBREW LITERATURE 3 cr. 3 cl.

F-79 (H)
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. Formerly HBI 171

HBI 141 INTRODUCTION TO THE TALMUD 3 cr. 3 cl.

F-79 (H)
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.

HBI 201 THE PENTATEUCH (WITH COMMENTARIES) 3 cr. 3 cl.

Sp-80 (H)
Prerequisite: HBI 101 or equivalent
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.

HBI 202 THE PROPHETIC BOOKS OF THE HEBREW BIBLE 3 cr. 3 cl.

Sp-80 (H)
Prerequisite: HBI 101 or equivalent
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.

HBI 242 POST-BIBLICAL AND MEDIEVAL HEBREW LITERATURE IN TRANSLATION 3 cr. 3 cl.

Sp-81 (H)
Prerequisite: HBI 102 or equivalent
The nature and development of Hebrew poetry and prose from the Apocrypha (2nd century B.C.E.) to the end of the 18th century C.E. Representative selections from the writings of major authors—both religious and secular—in the fields of ethics, theology and law, as well as belles lettres.

HBI 341 READINGS IN THE TALMUD 3 cr. 3 cl.

Sp-80 (H)
Prerequisite: HBI 101 or equivalent
Selections from the Mishnah and Gemara with Rashi commentaries. Emphasis on texts conveying moral and ethical values relevant to modern issues.



History

Offered by the Department of History & Social Studies Education
DR. DONALD D. LEOPARD, Chairperson
Classroom Building 205

HIS 101 UNITED STATES IN THE TWENTIETH CENTURY 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (SS)
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 pluralistic society.

HIS 106 HISTORY OF AMERICAN LIFE I 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (SS)
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 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (SS)
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 of 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.

HIS 110 HISTORY AND IDEAS 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (SS)
Examination of selected problems in a historical frame of reference with emphasis

(Continued p. 256)

upon the techniques of critical analysis, writing, and class discussion.

HIS 115 FOUNDATIONS OF WESTERN CIVILIZATION
3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (SS)
Major contributions of three civilizations—Greek, Roman and Medieval—to the Western heritage in philosophy, art, literature, science, government, law and economy.

HIS 116 EUROPE SINCE 1500
3 cr. 3 cl.

F-79, F-80 (SS)
Growth of man's concept of himself and his world; evolution of the concepts of freedom and democracy; growth of science and the scientific spirit of inquiry; development of technology and man's reactions to it. Facism and Communism.

HIS 117 TWENTIETH CENTURY EUROPE
3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (SS)
Political, social, cultural and intellectual history of Twentieth Century Europe; factors contributory to World War I; the Versailles settlement, the Russian Revolution and the rise of Communism; collapse of collective security and the rise of Facism 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 cr. 3 cl.

F-80 (SS)
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 207 HISTORY OF SPAIN 3 cr. 3 cl.

Sp-80, F-80 (SS)
Geography; pre-Roman period; Roman and Visigothic eras; Islamic Spain, the Christian Reconquest; era of the Catholic Kings; age of Spanish and Portuguese Im-

perialism; the Golden Age of Spain, Enlightenment and reform in the 18th century; impact of French Revolution in Spain; recent developments in modern Spain.

HIS 208 HISTORY OF ENGLAND SINCE 1485 3 cr. 3 cl.

F-79 (SS)
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 209 HISTORY OF LATIN AMERICA: THE COLONIAL ERA 3 cr. 3 cl.

F-79, F-80 (SS)
Physical, Indian, and European backgrounds; Hispanic conquest and colonization; colonial administration; spread of Christianity; society and social life; transmission and diffusion of culture; conflict of empires.

HIS 210 HISTORY OF THE FAR EAST: THE REVOLUTIONARY ERA
3 cr. 3 cl.

F-79, F-80 (SS)
China, Korea, Japan and Southeast Asia in modern times; rise of nationalism; challenge of communism; problems of modernization and nation-building.

HIS 211 HISTORY OF MODERN AFRICA SINCE 1919 3 cr. 3 cl.

Sp-81 (SS)
Partition of Africa by European nations; impact of colonial regimes; African resistance movements; drive towards independence; problems of economic and social change; cultural and intellectual currents in Modern Africa.

HIS 212 HISTORY OF THE JEWS IN EUROPE 3 cr. 3 cl.

F-80 (SS)
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 IN WESTERN CIVILIZATION
3 cr. 3 cl.

Sp-80, Sp-81 (SS)
A history of cities in the Western World. Definition of "city," multiple causes for the development of cities; ancient and medieval cities; cities in Europe and America; pre-industrial colonial, modern-industrial and contemporary metropolitan. Urban Studies course option.

HIS 215 HISTORY OF CHRISTIAN THOUGHT 3 cr. 3 cl.

F-80
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; will be examined.

HIS 220 CLASSICAL GREECE AND ROME 3 cr. 3 cl.

Sp-80 (SS)
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 300 HISTORICAL PERSPECTIVES
3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (SS)
Prerequisites: Junior standing with at least two history courses or related liberal arts courses. Examination of various themes and problems encountered in the study of history. Analytical and historiographical approach to such topics as: Reform and Reaction in American Life; Nationalism in Latin America; Tyranny and Revolution in Europe; Religion and the Black Experience in America; Tradition and Change in Asia. Emphasis on class discussion and interpretative oral and written reports based on readings.

HIS 304 EUROPE AND NAPOLEON TO THE FIRST WORLD WAR
3 cr. 3 cl.

Sp-81 (SS)
Prerequisite: Junior or senior
Major influences in the nineteenth century Europe; nationalism, imperialism, Industrial Revolution, democracy and socialism; causes of World War I.

HIS 306 HISTORY OF AFRICA TO 1919 3 cr. 3 cl.

Sp-81 (SS)
Prerequisite: Junior or senior
Indigenous developments and early empires of Africa; the impact of Islam; Western contact and the slave trade; the development of European colonialism; the partition of Africa and colonial administrative policies of the European Powers; the waning of European power as the result of World War I.

HIS 309 AMERICAN LEADERS
3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (SS)
Studies in their historical context of the individuals and groups of leaders such as Business Leaders in the Gilded Age; Leaders of Women at the Turn of the Century; Leaders in the Rise and Fall of the Automobile; Minority Group Leaders; Presidential Leadership.

HIS 310 HISTORY OF THE FAR EAST: THE TRADITIONAL ERA
3 cr. 3 cl.

F-79, Sp-81 (SS)
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 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (SS)
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.

(Continued p. 258)



HIS 312 HISTORY OF ITALY
3 cr. 3 cl.

Sp-80 (SS)

Prerequisite: Junior or senior

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 POLITICS AND HISTORY
(PSC 313) IN THE MIDDLE EAST
3 cr. 3 cl.

Sp-80, Sp-81 (SS)

Prerequisite: Junior or senior

Analysis of the political-cultural 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 HISTORY OF LATIN
AMERICA: THE NATIONAL
ERA 3 cr. 3 cl.

Sp-80, Sp-81 (SS)

Prerequisite: Junior or senior

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; growth of culture; contemporary problems.

HIS 317 HISTORY OF RUSSIA TO 1917
3 cr. 3 cl.

F-79, F-80 (SS)

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 18th and 19th centuries; participation in world politics, expansion in Europe and in the East; participation in World War I.

HIS 318 HISTORY OF THE
SOVIET UNION 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (SS)

Prerequisite: Junior or senior

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 cr. 3 cl.

Sp-80, Sp-81 (SS)

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 cr. 3 cl.

Sp-80, Sp-81 (SS)

Prerequisite: Junior or senior

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 cr. 3 cl.

F-79, F-80 (SS)

Prerequisite: Junior or senior

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 cr. 3 cl.

F-79, F-80 (SS)

The American heritage; Negro existence under slavery; the Negro's role in influencing historical events; the freed Negro during reconstruction; Negro migration to the North and ultimate adjustment to urbanism; Negro leaders, institutions and thought; the Negro revolt.

HIS 335 HISTORY OF MEXICO 3 cr. 3 cl.

Sp-80, Sp-81 (SS)

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 342 ENGLISH LEGAL HISTORY
3 cr. 3 cl.

F-79, F-80 (SS)

Prerequisite: Junior or senior

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 OF
AMERICAN LEGAL HISTORY
3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (SS)

Prerequisite: Junior or senior, or HIS 342

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, nationalism and the law, industrialization, corporations, legal profession, social change and the law in the 19th and 20th centuries.

HIS 344 EMERGENCE OF
INDUSTRIAL AMERICA:
1877-1919 3 cr. 3 cl.

Sp-81 (SS)

Prerequisite: Junior or senior

The economic System in Post Civil War America, the American people and their various responses to the problems created by the emergence of industrialism; the Progressive Era and World War I; World War I as a progressive Crusade.

HIS 345 HISTORY OF THE
UNITED STATES SINCE 1941
3 cr. 3 cl.

F-79, Sp-80, Sp-81 (SS)

Prerequisite: Junior or senior

Political, diplomatic, 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 cr. 3 cl.

Sp-80, Sp-81 (SS)

Prerequisite: Junior or senior

The evolution of Marxist, anarchist, state socialist and right-radical ideologies in European thought and politics.

HIS 351 FRANCE SINCE 1815 3 cr. 3 cl.

F-80 (SS)

Selected problems in French political, social, economic and diplomatic history emphasizing historiography and interpretation of such periods as the restored monarch, the revolution of 1848, the Second Empire, the Third Republic and its successors.

(Continued p. 260)

HIS 354 HISTORY OF THE CARIBBEAN
3 cr. 3 cl.

Sp-80, Sp-81 (SS)

Prerequisite: Junior or senior

The Caribbean as a region; land, peoples, cultures; political and economic aspects of Caribbean countries today; pre-Columbian Indian cultures; Spanish and other. European colonization of the Caribbean; Puerto Rico from the Spanish conquest to 1898; Puerto Rico and the U.S., 1898 to present day; Cuba as a Spanish colony; sugar and slavery in the shaping of Cuban society; Cuba's wars for independence, 1868-1898; Cuba and the U.S.; Castro's Revolution, 1953 to present day.

HIS 355 HISTORY AND CULTURE OF ARGENTINA 3 cr. 3 cl.

F-80 (SS)

Prerequisite: Junior or senior

The origins of a people; foundations of a nation; evolution of a republic; recent aberrations and contemporary problems; Argentina and the United States, 1810-1965.

**HIS 360 THE HISTORY OF MODERN GERMANY** 3 cr. 3 cl.

Sp-80, Sp-81 (SS)

Prerequisite: Junior or senior

History, government and political thought; economic and cultural developments since the Reformation; the rise and impact of totalitarianism; developments from 1945.

HIS 365 AMERICAN LABOR HISTORY
3 cr. 3 cl.

F-79, F-80 (SS)

Prerequisite: Junior or senior

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 cr. 3 cl.

F-79, F-80 (SS)

Prerequisite: Junior or senior

Independence from Britain 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 1893 3 cr. 3 cl.

Sp-80, Sp-81 (SS)

Prerequisite: Junior or senior

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 375 HISTORY OF THE BYZANTINE EUROPE 3 cr. 3 cl.

F-80 (SS)

Prerequisite: Junior or senior

A history of the Byzantine Empire, its influence upon 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 cr. 3 cl.

F-79, F-80 (SS)

Prerequisite: Junior or senior, one course in American History. 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 cr. 3 cl.

Sp-81 (SS)

Prerequisite: Junior or senior, one course in American history. 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 exhibit labels.

HIS 404 THE SOUTH SECTIONALISM, AND THE CIVIL WAR 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (SS)

Prerequisite: Junior or senior

Sectional life and sectionalism; pro-slavery and anti-slavery crusades; military conduct of the war; constitutional and diplomatic problems; life behind the lines; political, social and economic reconstruction.

HIS 405 THE RENAISSANCE AND REFORMATION 3 cr. 3 cl.

Sp-80 (SS)

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 cr. 3 cl.

F-79, F-80 (SS)

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 HISTORY OF AMERICAN THOUGHT 3 cr. 3 cl.

Sp-80 (SS)

Prerequisite: Junior or senior

Sources of major bodies of thought and ideas in American History; their impact upon American culture; the role and ideas have played in producing a distinctive culture.

HIS 409 SEMINAR IN PROBLEMS OF AMERICAN HISTORY
3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (SS)

Prerequisite: Senior and official standing in one of the programs listed below. Readings, discussion and research on such selected problems as internal and external causes of the American Revolution; the frontier thesis; the causes of the Civil War; restrictions on immigration; isolationism in America. Classification: Fulfills seminar requirement for History majors, Social Science majors, and Secondary Social Studies majors.

HIS 412 HISTORY OF EAST CENTRAL EUROPE 3 cr. 3 cl.

F-80

Prerequisite: Junior or senior

Social, political, and economic history of the Baltic states and western Slavdom; struggle of eastern and western civilizations and competition of the great powers in this area; role of these peoples as Russian satellites.

HIS 415 HISTORY AND GOVERNMENT OF NEW YORK STATE
3 cr. 3 cl.

Sp-80 (SS)

Prerequisites: official standing in a social studies program. Aboriginal background; development of the colony; establishment

(Continued p. 262)

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 cr. 3 cl.

F-80 (SS)

Prerequisites: Junior or senior, HIS 380

An examination in detail of principles and techniques of collection and care of museum collection, the library, manuscript collection, audiovisual materials, archives, iconography, and historic sites; development of professional expertise in curatorship.

HIS 420 ADMINISTRATION OF THE HISTORICAL AGENCY OR MUSEUM 3 cr. 3 cl.

Sp-81 (SS)

Prerequisites: Junior or senior, HIS 380

Principles and practice of administration of the historical agency or museum; 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 cr. 3 cl.

F-80 (SS)

Prerequisite: Junior or senior

Henry VII and the new dynasty; religion and politics under the earlier 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 cr. 3 cl.

F-80 (SS)

The United States following the American Revolution through Andrew Jackson's administrations. Federal Authority, political party, 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 in detail.

HIS 450 MUSEUM INTERNSHIP 6 cr. 15 cl.

F-79, Sp-80, F-80, Sp-81 (SS)

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 and specific interests. All the students in the museum related disciplines, such as History, Anthropology, Art History, Education and the Natural Sciences are eligible to participate.

HIS 460 SEMINAR IN ASIAN HISTORY 3 cr. 3 cl.

Sp-81 (SS)

Prerequisite: Three credits in Asian History and 3 cr. in a related area. Reading, discussions, and research on selected problems in Asian History, with themes and periods selected by the seminar; emphasis on the gathering, interpretation, and use of historical sources. Fulfills seminar requirement for History majors, Social Science majors, and Secondary Social Studies majors.

HIS 470 SEMINAR IN EUROPEAN HISTORY 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81

Prerequisite: Six credits in European History. Readings, discussions, and research on selected problems in European History from the Classic to the Modern Period with emphasis on the gathering, interpretation, and use of historical sources. Fulfills seminar requirement for History majors, Social Science majors, and Secondary Social Studies majors.

HIS 495 PROJECT

HIS 499 INDEPENDENT STUDY

Home Economics Education

Offered by the Department of Consumer Studies & Home Economics

DR. SARAH L. MANNING, Chairperson
Caudell Hall 206

HEE 317 DIMENSIONS OF HOME ECONOMICS 3 cr. 3 cl.

F-79

Exploratory course, home economics, to develop understanding of aspects of careers within field; teaching in middle, junior-senior high home economics, occupational, adult education, extension service, community, foreign service. Observations in selected situations. All college elective.

HIS 417 HOME ECONOMICS IN THE URBAN SETTING 3 cr. 3 cl.

F-80

This course examines the environmental factors influencing the economically, culturally and/or educationally deprived urban youth. Emphasis is placed on methods, techniques and media appropriate for meeting needs of urban youth in Home Economics. Elective for HEE majors; others by permission.

HEE 424 ADULT EXPERIENCES IN HOME ECONOMICS 3 cr. 3 cl.

F-81

Introductory course in adult experiences in Home Economics. Consideration of nature, scope, organizational procedures, methods, materials, for teaching adults and out-of-school youth. Elective for HEE majors; others by permission.

HEE 460 PROFESSIONAL SEMINAR 6 cr. Daily

F-79, Sp-80, F-80, Sp-81

Prerequisites: Cumulative average of C and EDU 303. Principles of learning, study of curricula, methods, resources, evaluation procedures and problems encountered in teaching. Required of HEE majors.

HEE 461-462 PROFESSIONAL SEMESTER 9 cr. Daily

F-79, Sp-80, F-80, Sp-81

Prerequisite: Cumulative average of C. **Concurrent:** HEE 460. Student teaching experience in the New York State home economics program; supervised experience in cooperating schools. Required of HEE majors.

HEE 490 FIELD EXPERIENCE 3-6 cr.

F-79, Sp-80, F-80, Sp-81

Prerequisites: Junior or senior standing, permission of the faculty. Obtain necessary forms in Room CH 207. Course provides an opportunity to integrate technical knowledge with practical experience in an institutional, business, social or governmental setting. Includes supervised field participation, meetings with instructor, and written or other assignments.

HEE 495 PROJECT 1-3 cr.

F-79, Sp-80, F-80, Sp-81

Prerequisite: Permission of faculty

(Continued p. 264)



Industrial Arts Education

Offered by the Department of Industrial Arts & Vocational Education
DR. EMIL H. HOCH, Chairperson
Upton Hall 314

IAE 102 FOREST PRODUCTS TECHNOLOGY 3 cr. 6 cl.

F-79, Sp-80, F-80, Sp-81 Fee \$7.00

A study of man's utilization of the forests as a source of raw materials for manufactured items; relationships of how properties of trees and wood lead to development of processes associated with forest products; emphasis placed upon processes used in solid wood construction.

IAE 103 TECHNICAL DRAWING 3 cr. 6 cl.

F-79, Sp-80, F-80, Sp-81 Fee \$2.00

Survey of projection theory; multiview projection; special relationships and visualization of points, lines, planes, and solids; size and shape description through sketching and instrument drawing; industrial applications, standards and conventions, auxiliary views, revolutions, developments and intersections. Credit may not be given for both IAE 103 and 353.

IAE 104 TECHNICAL DRAWING AND PRODUCTION PLANNING 3 cr. 6 cl.

F-79, Sp-80, F-80, Sp-81 Fee \$2.00

Prerequisite: IAE 103

Idea development, sketching, design concepts, working drawings, reproductions, manufacturing processes and operations, illustrations, and drafting room procedures. Credit may not be given for both IAE 104 and IAE 354.

IAE 106 METAL TECHNOLOGY 3 cr. 6 cl.

F-79, Sp-80, F-80, Sp-81 Fee \$10.00

Fundamental concepts and techniques of metal production, shaping, fabrication, treating and identification as exemplified

by contemporary industrial technology. Emphasis placed on application of these principles in education.

IAE 123 PRINCIPLES OF MANUFACTURING 3 cr. 3 cl.

(R)

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.

IAE 206 INTRODUCTION TO THE CERAMIC INDUSTRIES 3 cr. 6 cl.

F-79, Sp-80, F-80, Sp-81 Fee \$8.00

Introduction to the major ceramic industries that utilize earthy, inorganic, non-metallic 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.

IAE 208 GRAPHIC ARTS 3 cr. 6 cl.

F-79, Sp-80, F-80, Sp-81 Fee \$9.00

Introduction to the major areas of the graphic arts industry. Fundamentals of typography, layout and copy preparation; general and process photography; printing by letterpress, offset lithography, screen process, gravure; bindery, paper and papermaking.

IAE 300 INTRODUCTION TO INDUSTRIAL ARTS EDUCATION 3 cr. 3 cl. plus obs.

F-79, Sp-80, F-80, Sp-81

Industrial Arts in general education; preparation for teaching industrial arts; philosophy and objectives; survey of approaches to industrial arts; organization of materials for instruction; public school observation. Required of IAE majors, to be taken immediately prior to IAE 414.

IAE 301 ELECTRONICS 3 cr. 6 cl.

F-79, Sp-80, F-80, Sp-81 Fee \$10.00

Basic electrical and electronic principles; generation, transmission, and use of electric power; electro-chemistry; transportation and communication; design, operation, and service of electrical devices; experimental circuit work and construction of projects.

IAE 302 POWER AND TRANSPORTATION 3 cr. 6 cl.

F-79, Sp-80, F-80, Sp-81 Fee \$5.00

Principles of operation, design, and function of power and transportation devices. Emphasis on types of stationary and mobile power plants, vehicles, and crafts; their function in our industrial society.

IAE 303 PLASTICS TECHNOLOGY 3 cr. 5 cl.

F-79, Sp-80, F-80, Sp-81 Fee \$12.00

Fundamentals of injection, compression, transfer, rubber, and blow molding; heat sealing; vacuum forming; casting and spraying of forms; welding of plastics; properties of polymers and elastomers; mold construction.

IAE 304 LETTERPRESS TECHNICS 3 cr. 5 cl.

F-79, F-80 Fee \$10.00

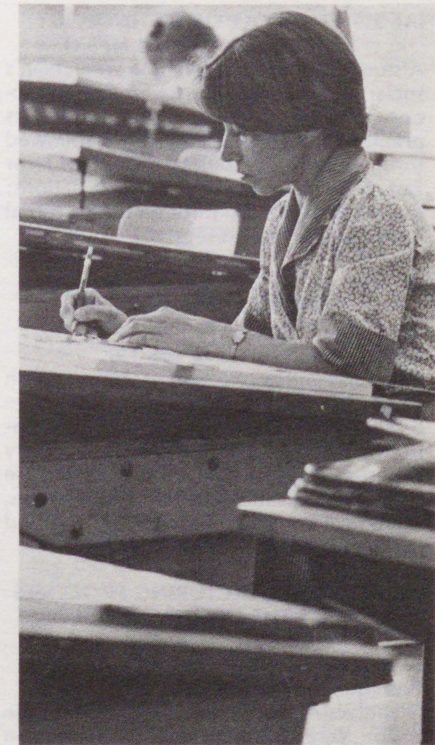
Prerequisite: IAE 208 or IAE 358

Contemporary typographic design and letterpress printing; emphasizing principles of slug casting, photoengraving, stereotype casting, matrix and plate molding, electrotyping, die making and cutting, panelling and embossing.

IAE 305 CREATIVE ARTS FOR INDIVIDUALS WITH SPECIAL NEEDS 3 cr. 4 cl.

F-79, Sp-80, F-80, Sp-81 Fee \$10.00

Experiences in creative arts and crafts and elementary industrial arts for children who present exceptional problems of learning; techniques needed in preparing handicapped children for occupations through activities in industrial arts; job analyses and occupational guidance related to the education of exceptional children. Elective EXE majors.



IAE 307 TECHNICAL DRAWING AND GRAPHICS 3 cr. 5 cl.

Sp-80, Sp-81 Fee \$2.00

Prerequisite: IAE 104 or IAE 354

Advanced study in technical sketching, graphics, working drawing, design drafting in selected areas of technology, reproductions and contemporary drafting practices.

IAE 309 SOLID AND COMPOSITION WOOD PRODUCTS TECHNOLOGY 3 cr. 6 cl.

F-79, F-80 Fee \$10.00

Prerequisite: IAE 102 or IAE 352

Advanced study and experience in the use of solid and composition wood processes through activities of line production and unit construction. Special emphasis upon wood identification, utilization and finishing.

(Continued p. 266)

IAE 313 THE ROLE OF TECHNOLOGY IN CIVILIZATION 3 cr. 3 cl.

A study of the relationship between man's social nature and his technological accomplishments. Beginning with its primitive form, the relationship is followed through early civilization, the rise of Near East, Mediterranean and Far East nations; the Medieval Period through the industrial revolution to the present.

IAE 314 MACHINE TOOL TECHNOLOGY 3 cr. 5 cl.

Sp-80, Sp-81 Fee \$12.00

Prerequisite: IAE 105 or IAE 356

Principles and application of the operation of the five basic machining techniques — drilling, turning and boring, milling, shaping or planning and grinding. Laboratory experience with machine tools includes the study and utilization of automation devices, numerical controls, mass production and metallurgy theory and practice.

IAE 315 MANUFACTURING PROCESSES OF THE CERAMIC INDUSTRIES 3 cr. 6 cl.

F-79, Sp-81 Fee \$8.00

Prerequisite: IAE 206 or IAE 366

Manufacturing processes utilized by the major ceramic industries. Emphasis on procurement, beneficiation, mixing, cutting, forming, agglomerating, conditioning, finishing, and assembling.

IAE 316 POWER TECHNOLOGY 3 cr. 6 cl.

F-79, Sp-81 Fee \$5.00

Prerequisite: IAE 302

Principles of operation, design, function of power systems employing various types of engines, mechanisms involved in the development, transmission and control of power, with emphasis on dynamic analysis of specific units and their application.

IAE 318 METAL FORMING TECHNOLOGY 3 cr. 5 cl.

F-79, Sp-81 Fee \$12.00

Prerequisite: IAE 106 or IAE 356

Advanced study of metal working processes exemplified by casting, shaping, welding, forging and finishing techniques; emphasis on individual experiences in contemporary metal working technology.

IAE 325 DEVELOPMENT OF AMERICAN INDUSTRIES 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (R)

Prerequisite: At least junior standing or permission of instructor. Study of America's technological society. The relationship of man and machine in the increasingly complex world of work. Understanding industry as a basis of culture.

IAE 326 OCCUPATIONS IN AMERICAN INDUSTRY 3 cr. 3 cl.

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.

IAE 327 SURVEY OF INDUSTRIAL POLLUTION CONTROL PROBLEMS 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (R)

Prerequisite: At least junior standing or permission of instructor. Overview and analysis of problems pertaining to pollution generation and abatement by industry during procurement, product development, production, distribution, and utilization.

IAE 352 FOREST PRODUCTS TECHNOLOGY 3 cr. 6 cl.

F-79, Sp-80, F-80, Sp-81 Fee \$7.00

Prerequisite: Upper division

A study of man's utilization of the forest as a source of raw materials for manufactured items; relationships of how properties of trees and wood lead to development of processes associated with forest products; emphasis placed upon processes used in solid wood construction. Credit may not be given for both IAE 102 and IAE 352.

IAE 353 TECHNICAL DRAWING 3 cr. 6 cl.

F-79, Sp-80, F-80, Sp-81 Fee \$2.00

Prerequisite: Upper division

Survey of projection theory; multiview projection; special relationships and visualization of points, lines, planes and solids; size and shape description through sketching and instrument drawing; industrial applications, standards and conventions, auxiliary views, revolutions, developments

and intersections. Credit may not be given for both IAE 103 and IAE 353.

IAE 354 TECHNICAL DRAWING AND PRODUCTION PLANNING 3 cr. 6 cl.

F-79, Sp-80, F-80, Sp-81 Fee \$2.00

Prerequisite: IAE 353

Idea development, sketching, design concepts, working drawings, reproductions, manufacturing processes and operations, illustrations, and drafting room procedures. Credit may not be given for both IAE 104 and IAE 354.

IAE 356 METAL TECHNOLOGY 3 cr. 6 cl.

F-79, Sp-80, F-80, Sp-81 Fee \$10.00

Prerequisite: Upper division

Fundamental concepts and techniques of metal production, shaping, fabrication, treating and identification as exemplified by contemporary industrial technology. Emphasis placed on the application of these principles in education. Credit may not be given for both IAE 106 and IAE 356.

IAE 358 GRAPHIC ARTS 3 cr. 6 cl.

F-79, Sp-80, F-80, Sp-81 Fee \$9.00

Prerequisite: Upper division

Introduction to the major areas of the graphic arts industry. Fundamentals of typography, layout and copy preparation; general and process photography; printing by letterpress, offset lithography, screen process, gravure, bindery, paper and paper-making. Credit may not be given for both IAE 208 and IAE 358.

IAE 366 INTRODUCTION TO THE CERAMIC INDUSTRIES 3 cr. 6 cl.

F-79, Sp-80, F-80, Sp-81 Fee \$8.00

Prerequisite: Upper division

Introduction to the major ceramic industries that utilize earthy, inorganic non-metallic 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. Credit may not be given for both IAE 206 and IAE 366.

IAE 401 INDUSTRIAL ARTS FOR THE ELEMENTARY SCHOOL 3 cr. 4 cl.

F-79, Sp-80, F-80, Sp-81 Fee \$5.00

Child growth through construction activities; application of Industrial Arts in the general curriculum of the elementary school. Industry and technology as a part of the culture and environment of the child. Classification: Elective for students not majoring in IAE.

IAE 402 GRAPHIC REPRODUCTION PROCESSES 3 cr. 6 cl.

Sp-80, Sp-81 Fee \$9.00

Prerequisite: IAE 208 or IAE 358

The photomechanical processes as related to offset lithography, screen process printing and gravure printing.

IAE 403 PLASTICS TECHNOLOGY 3 cr. 5 cl.

F-79, F-80 Fee \$12.00

Prerequisite: IAE 303

Analysis of the new and more sophisticated material and molding processes. Develop-

(Continued p. 268)



ment of tooling for the various molding processes. Study of automated molding systems and their effect on the economic status of the industry.

IAE 406 INVESTIGATION OF FOREST MATERIALS AND PRODUCTS
3 cr. 6 cl.

Sp-80, Sp-81 Fee \$5.00

Prerequisite: IAE 102 or IAE 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.

IAE 407 ARCHITECTURAL DRAWING
3 cr. 6 cl.

F-79, Sp-81 Fee \$2.00

Prerequisite: IAE 104 or IAE 354

Locations, restrictions, building codes, facilities, floor plans, elevations, and specifications of structures; materials, equipment, and methods of construction.

IAE 408 ELECTRONICS COMMUNICATION 3 cr. 6 cl.

Sp-80, Sp-81 Fee \$15.00

Prerequisite: IAE 301

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.

IAE 410 MATERIALS AND PRODUCTS OF THE CERAMIC INDUSTRY
3 cr. 6 cl.

F-80 Fee \$8.00

Prerequisite: IAE 205 or IAE 366

Major ceramic materials, products, and competency emphasized. Laboratory experiences with raw materials, manufactured materials, primary products, and secondary products.

IAE 413 PHILOSOPHY OF TECHNOLOGY
3 cr. 3 cl.

F-80 (R)

A critical examination of prevalent conceptions and issues relative to technology; its

meaning; its characteristics; its interdisciplinary scope; its relation to science; its place in education.

IAE 414 PROFESSIONAL SEMESTER
15 cr. cl. daily, 18 weeks

F-79, Sp-80, F-80, Sp-81 Fee \$5.00

Prerequisites: ENG 100, ENG 101 or comparable, IAE 300, Basic IA labs, EDU 303, CUM AVE - 2.00 or higher. Full time assignment in a junior or senior high school as a student teaching intern working with a supervising teacher and a college supervisor studying teaching as well as learning to teach Seminar meetings held in the public schools to study teaching techniques, organization of instructional materials, development of instructional media, evaluation of pupil growth, discipline in the classroom, guidance programs, laboratory organization and management and other aspects of teaching industrial arts. Guided full-time teaching experience including the use of video tape to analyze teaching; also participation in school and professional activities. Students must be prepared to accept assignment at any center.

IAE 417 DESCRIPTIVE GEOMETRY
3 cr. 5 cl.

Sp-80

Prerequisite: IAE 104 or IAE 354

Solutions of space problems involving points, lines, and planes. Surface developments and intersections, conic sections, vector geometry, and practical applications.

IAE 421 OCCUPATIONAL AND PRACTICAL NEEDS FOR STUDENTS WITH SPECIAL NEEDS 3 cr. 5 cl.

F-79, Sp-80, F-80, Sp-81 Fee \$5.00

Development of methods and techniques for teaching, organizing, instructional material, presenting group activities, analyzing occupations and evaluating students with special needs. Investigation of research pertaining to occupational training and job adjustment of students with special needs.

IAE 423 INTRODUCTION TO INDUSTRIAL ARTS FOR THE ELEMENTARY SCHOOL
3 cr. 5 cl. plus obs.

F-79, Sp-81

Prerequisite: IAE major or IAE 401

Elementary school philosophy, elementary school industrial arts philosophy; correlating industrial arts with the elementary school curriculum; child study; teaching techniques; guided observations in an elementary school; role of industrial arts in elementary school curriculum development.

IAE 424 THE INDUSTRIAL ARTS CONSULTANT IN THE ELEMENTARY SCHOOL 3 cr. 5 cl.

Sp-80

Prerequisite: IAE 423 or concurrent registration. Program development in industrial arts for the elementary school; role of technology; role of the industrial arts consultant; organization; experimental material application; teaching techniques; construction activities with classroom teachers and children.

IAE 428 TECHNICAL SEMESTER (MANUFACTURING)
6 cr. cl. - two days in industry weekly

F-80

Prerequisite: Four basic IA labs preferably including: IAE 102 and IAE 106 or IAE 352 and IAE 356. Split semester between on-campus technical courses and 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.

IAE 495 PROJECT

IAE 499 INDEPENDENT STUDY

Industrial Technology

Offered by the Department of Technology
DR. MYRON E. LEWIS, Chairperson
Upton Hall 502

INT 150 THE SHAPE OF THINGS
3 cr. 3 cl.

F-79 (R)

A study in 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 mechanisms.

INT 201 MATERIALS PROCESSING
3 cr. 5 cl.

F-79, Sp-80, F-80, Sp-81 Fee \$10.00

Prerequisite: IAE 353

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.

INT 260 DEVELOPMENT OF TECHNOLOGY 3 cr. 3 cl.

Sp-80 (R)

A chronological study of the development of man's technology; emphasis on prevailing ideas, known physical materials and processes, and pressures of his natural and social surroundings; consideration of man's technological future based on his historical development.

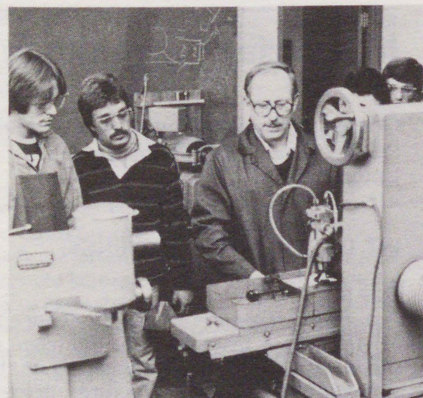
INT 311 MATERIALS SCIENCE AND TESTING 3 cr. 5 cl.

F-79, Sp-80, F-80, Sp-81 (R)

Prerequisite: Junior or senior standing

A study of the origin of composition of a representative gamut of industrial materials including metals and their alloys, woods, fuels, lubricants, cutting fluids, solvents, protective compounds or coatings, inks, adhesives, abrasives, plastics, and ceramics; application of testing procedures for identification and to determine physical and

(Continued p. 270)



chemical properties suitable for specific industrial uses. Required of INT majors.

INT 312 PRODUCTION PLANNING AND CONTROL 3 cr. 5 cl.

F-79, Sp-80, F-80, Sp-81 Fee \$1.50

Prerequisite: Junior or senior standing and INT 201. Provides working knowledge of the production planning and control function in industry; basic coverage of the techniques and procedures of production planning, scheduling, dispatching and control.

INT 313 STATISTICAL QUALITY CONTROL 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81

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.

INT 314 ELECTRO-MECHANICS 3 cr. 5 cl.

F-79, Sp-80, F-80, Sp-81 Fee \$5.00

Prerequisite: MAT 124 or equivalent

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 circuits and devices. Required of INT majors.

INT 350 GRAPHIC COMMUNICATIONS 3 cr. 5 cl.

F-79, Sp-80, F-80, Sp-81 (R) Fee \$6.00

Prerequisite: Junior or senior standing

An introduction to the major principles of technical graphic communications; a study of industrialized systems of information conveyance in a contemporary civilization; application of modern industrial reproduction processes to the solution of graphic problems. Required of INT majors.

INT 351 POWER-ENERGY-MECHANISMS 3 cr. 5 cl.

F-79, Sp-80, F-80, Sp-81

Prerequisite: INT 314, INT 201

A study of energy and power from sources through conversion systems and mechanisms to the application of power for manufacturing. Required of INT majors.

INT 400 MARKETING 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (R)

Prerequisite: Junior or senior standing

The establishment of a 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 INT majors; general-liberal elective for all others.

INT 401 MANAGEMENT SCIENCE 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (R)

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 INT majors; general-liberal elective for all others.

INT 402 HUMAN FACTORS ENGINEERING 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (R)

Prerequisite: PSY 365

The interaction of man and machines; development and use of human factors information including sensory, cognitive, and psychomotor processes as these influence the design of displays, controls, and workspaces; environment and safety consideration necessary to achieve desired man-machine outputs. Required of INT majors; general-liberal elective for all others.

INT 403 SYSTEMS ANALYSIS 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81

Prerequisite: INT 401, ISM 111

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 relates to modeling, and computer technology, feedback and information systems, and integration of systems. Required of INT majors. Elective for all others.

INT 405 MANUFACTURING TECHNOLOGY 3 cr. 6 cl.

F-79, Sp-80, F-80, Sp-81 Fee \$10.00

Prerequisite: Last semester senior standing

A senior project course that provides a hands-on experience in the total manufacturing cycle of a product from the idea inception stage through product planning, product design, processing studies, actual fabrication, and simulation of large scale production, and experience in setting time standards and taking time studies. Required of INT majors.

INT 495 PROJECT

INT 499 INDEPENDENT STUDY

Information Systems Management

Offered by the Department of Technology
DR. MYRON E. LEWIS, Chairperson
Upton Hall 502

ISM 111 INTRODUCTION TO COMPUTER SCIENCE 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (R)

Description of computers, concepts of languages and programming; study of fundamental capabilities of the FORTRAN language including looping, table handling, subroutines and their application to the solution of a wide variety of problems. Emphasis on the FORTRAN language. Programming skills are enhanced through actual use of the computer to run student-written programs. Required of ISM majors.

ISM 212 ASSEMBLY LANGUAGE PROGRAMMING 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81

Prerequisite: ISM 111

A low-level machine language will be studied in detail. Programming assignments will be made to develop skills in a low-level machine language so that the student will understand the fundamental computing machine features such as main storage and the instruction set. Required of ISM majors.

(Continued p. 272)



ISM 221 DATA STRUCTURES 3 cr. 3 cl.

Offered based upon staff availability

Prerequisite: ISM 111

Basic concepts of data management systems and data modeling structures (linear lists, linked and multi-linked structures) will be covered. Implementation of these plus storage management techniques will be achieved through programming in a high level language and/or a text editing language. Sorting and searching techniques are also covered.

ISM 310 COBOL PROGRAMMING I 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81

Prerequisite: ISM 111

The COBOL programming language and its commercial applications will be studied in depth. Assigned projects requiring actual computer use will enhance understanding of the language's features and capabilities. Required of ISM majors.

ISM 311 COMPUTER PROGRAMMING AND OPERATIONS RESEARCH 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81

Prerequisite: ISM 111

The use of the computer as a tool in solving problems related to Management Science. Basic concepts in probability and statistics, modeling, problem solving and decision-making will be introduced. Computer assisted solution techniques will be utilized to solve management problems in such areas as: inventory management, operations scheduling, resource allocation, queue management. The FORTRAN language will be used. Required for ISM majors.

ISM 312 ADVANCED METHODS IN COMPUTER APPLICATIONS 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81

Prerequisite: ISM 370, ISM 310

The study of a complex commercial information processing system, emphasizing the interfaces between system components and the timely flow of information through the system. Major topics in systems analysis (specification, design, testing, implementation, user education, performance

monitoring) will be discussed in relation to the system being studied. Required of ISM majors.

ISM 313 COMPUTER METHODS FOR TECHNOLOGISTS 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81

Prerequisites: ISM 111, ENT 300 (or one semester of calculus). The application of computers and numerical methods to problems of Engineering Technology. Numerical algorithms will be implemented in FORTRAN IV, APL, and on a minicomputer and then used to solve typical, mechanical, electrical and electromechanical design and analysis problems. Emphasis will be on actual student use of the computer. Required of all ENT majors.

ISM 314 INTERACTIVE COMPUTING 3 cr. 3 cl.

Offered based upon staff availability

Prerequisite: ISM 111 and/or instructor's permission. Study of interactive computing systems and languages. Applications of interactive computing to commercial systems, mathematics, social sciences, engineering, and physical sciences will be described. Assigned projects will enhance student's knowledge of an interactive computer language and of the systems supporting the language.

ISM 315 COMPUTER ORGANIZATION AND STRUCTURE I 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81

Prerequisite: ISM 212

Study of the inner workings of computer hardware and firmware; including software logic, computer logic, storage devices and microprogramming. Topics may include: fundamental computational operations, memory organization, serial and parallel information flow, and bus systems. Required of ISM majors.

ISM 318 SIMULATION AND MODELING 3 cr. 3 cl.

Offered based upon staff availability

Prerequisite: ISM 111, ISM 311, MAT 111 or equivalent. Models and the scientific method. Characteristics of simulation models. Models of dynamic systems for



machine implementation. Model design. Experimental optimization. Application of computer modeling, using a high level special purpose language, to problems such as queuing, inventory.

ISM 321 THEORY OF COMPILERS 3 cr. 3 cl.

Offered based upon staff availability

Prerequisite: ISM 212

Study of how a compiler functions and is structured. A typical compiler will be studied in detail.

ISM 370 SYSTEMS ANALYSIS 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81

Prerequisite: ISM 310

Introduction to system analysis and design. Topics include: the systems concept, defining a system, steps in systems analysis and design, management information systems, economics of alternative systems. Understanding of systems concepts will be enhanced by case studies and systems design projects. Required of ISM majors.

ISM 410 OPERATING SYSTEMS 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81

Prerequisite: ISM 212

Study of the scheduling and execution of jobs in a computer operating system. Topics include: processing programs (utilities), control programs, job supervision, scheduling, storage allocation, data retrieval, I/O control. Required of ISM majors.

ISM 411 DATA BASE INFORMATION PROCESSING 3 cr. 3 cl.

Offered based upon staff availability

Prerequisite: ISM 212 or permission of instructor. Study of the structure and usage of a data base and a data base processor. Comparison of different systems and organizations. Study of typical data base operations. A specific data base application will be studied in detail. Available data base packages will be used.

ISM 414 COBOL PROGRAMMING II 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81

Prerequisite: ISM 310

Further study of the COBOL language, programming techniques, and applications. Advanced language features will be presented. Emphasis on program design, readability, modification, efficiency and style. The organization and management of the programming process will be discussed. Projects will involve using these techniques in commercially-oriented programming applications. Required of ISM majors.

ISM 415 COMPUTER ORGANIZATION AND STRUCTURE II 3 cr. 3 cl.

Offered based upon staff availability

Prerequisite: ISM 315

Review of computer hardware: storage devices, output media, teletype, plotters, input media, graphic displays, CRT, terminals, minis, micros. May include speakers and visits to local installations. System and hardware comparison and selection.

ISM 422 INFORMATION SYSTEMS ANALYSIS 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81

Prerequisite: ISM 370, ISM 460

Study of the organization and structure of a management information systems division, including systems analysis, programming, and computer operations departments. Topics may include: staffing, goals, project management, organization, implementation problems, current topics in MIS, databases and data management. Required of ISM majors.

(Continued p. 274)

ISM 435 COMPUTER SEMINAR 3 cr. 3 cl.
Offered based upon staff availability
Prerequisite: Permission of instructor
Selected current topics not covered in other ISM courses.

ISM 460 OPERATIONS MANAGEMENT 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81

Prerequisite: ISM 315, Junior/Senior standing. Study of the management of a computer facility. Topics include: job scheduling, back-up systems, staff selection and organization, hardware selection, software selection, maintenance, data security, facilities security, documentation and standards. Other topics may include: teleprocessing, charge-out systems, RJE, centralization/decentralization. Required of ISM majors.

ISM 470 COMPUTER COMMUNICATIONS SYSTEMS 3 cr. 3 cl.

Offered based upon staff availability

Prerequisite: ISM 315

ISM 495 PROJECT

ISM 499 INDEPENDENT STUDY



Interdisciplinary Sciences (Formerly General Science)

Offered by the Department of Geosciences, Physics and Interdisciplinary Sciences
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 understandings. The professional requirements of the secondary science teacher certification are offered.

SCI 100 CONTEMPORARY TOPICS IN SCIENCE 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81, Summers (MS)
Significant and relevant topics to be selected through student-instructor planning. Problems to be studied will deal with life-centered, contemporary issues in relation to their scientific implications.

SCI 101 PHYSICAL SCIENCE FOR ELEMENTARY SCHOOL TEACHERS 3 cr. 4 cl.

F-79, Sp-80, F-80, Sp-81 (MS)
An activity-oriented course for elementary pre-service teachers. In addition to practical demonstrations of appropriate physical science concepts, students will "do" physical science activities of elementary school age children.

SCI 103 EARTH SCIENCE FOR ELEMENTARY SCHOOL TEACHERS 3 cr. 4 cl.

F-79, Sp-80, F-80, Sp-81 (MS)
Concepts in astronomy, geology and meteorology commonly covered in the elementary school curriculum and their application to the preparation of elementary school earth science activities.

SCI 105 PHYSICAL SCIENCE FOR NON-SCIENCE STUDENTS 3 cr. 3 cl.

F-79, F-80 (MS)

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 procedures of science. This course emphasizes doing rather than merely learning about science.

SCI 200 INTERDISCIPLINARY STUDIES OF SPACE 3 cr. 3 cl.

S-81 (MS)

The course will provide students with the opportunity to examine space explorations from different viewpoints; to become familiar with contemporary developments in space knowledge and to consider the implications of space studies for themselves and their area of educational concentration.

SCI 211 GENERAL OCEANOGRAPHY 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (MS)

An introduction to the science of the sea; the importance of the oceans in our civilization.

SCI 212 ENVIRONMENTAL OCEANOGRAPHY 3 cr. 3 cl.

Sp-80, Sp-81 (MS)

An environmental science approach to the study of the sea. Topics include marine geologic ecology, ocean law, and pollution.

SCI 225 THE EMERGENCE OF SCIENCE 3 cr. 3 cl.

F-79, F-80 (MS)

A humanistically-oriented investigation of the cultural and historical roots of modern science. The dawn of science. The rise of rational thought through the Dark Ages, Middle Ages, and the Renaissance. The influence of religion and philosophy on the development of science is also emphasized. Science as a human activity is related to man's broad humanistic and cultural heritage.

SCI 226 THE HUMAN DIMENSIONS OF SCIENCE 3 cr. 3 cl.

Sp-80, Sp-81 (MS)

The humanistic and cultural roots of modern science as it has developed from the Scientific Revolution of the 17th Century to the age of Nuclear Science. The contributions, along with the struggles and failures, of several of mankind's greatest minds are examined in a humanistic context. Modern science is treated as an integral part of everyone's cultural heritage, rather than as a specialized technical study.

SCI 231 POLLUTION, ENVIRONMENT AND SOCIETY 3 cr. 4 cl.

F-79, Sp-80, F-80, Sp-81 (MS)

From ecology to eco-action, population to pesticides, a survey of the scientific and societal implications of present-day environmental problems. The causes, effects and possible solutions of pollution problems with implications from conservation, chemistry, health and sociology.

SCI 232 ENERGY, ENVIRONMENT AND SOCIETY 3 cr. 4 cl.

Sp-80, Sp-81

An examination of energy use and abuse in our society. Includes environmental, economic, individual and societal perspectives. Major energy choices facing our society will be discussed.

SCI 302 DEVELOPMENT OF LIFE IN GEOLOGIC TIME 3 cr. 4 cl.

Sp-80, Sp-81

Evidences of organic evolution in the fossil record; Fossil Man; Evolution of landscape.

SED 308 METHODS AND MATERIALS IN TEACHING SECONDARY SCHOOL SCIENCE 3 cr. 4 cl.

F-79, F-80

Prerequisites: SED 303, SED 304, SED 305 (may be concurrent). Cumulative 2.00 or higher average; approval by Geosciences, Physics and Interdisciplinary Sciences Chairman. Components of the teaching-learning situation in a science classroom. Construction of components for an effective

(Continued p. 276)

tive teaching-learning situation. Also, the interrelationships of secondary science programs. Required of juniors or seniors in secondary science programs.

**SCI 311 OCEANOGRAPHY—
CONTEMPORARY TOPICS**
3 cr. 3 cl.

Sp-80 (MS)

Prerequisite: SCI 211 or SCI 212

Contemporary scientific, social, legal and political problems of oceanography. The public order of the oceans.

SCI 323 SCIENCE AS INQUIRY 3 cr. 3 cl.

Sp-81 (MS)

The procedures of science as a search for knowledge of natural phenomena; comparison with other methods of inquiry; implications for non-scientists.

**SCI 327 THE DEVELOPMENT AND
IMPACT OF ATOMIC SCIENCE**
3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (MS)

Prerequisite: 3 hours of science.

Man's understanding of the atom treated not as an isolated phenomenon but placed in its proper context as a science rising from and contributing to the long development of man's other sciences and his social and moral fabric. The societal and political implications of atomic science. The hardware and morality of atomic warfare. Intended to educate and inform the knowledgeable citizen of his atomic age.



**SCI 340 SCIENTIFIC STUDIES IN
ENVIRONMENTAL POLLUTION**
3 cr. 4 cl.

F-80 (MS)

Prerequisite: An intro environmental science course. A scientific, in-depth examination of selected environmental problems, drawn from current areas of concern. Includes societal perspectives, field work, and discussions of environmental classics such as *Silent Spring*.

**SED 408 PRACTICUM IN TEACHING
SCIENCE IN THE SECONDARY
SCHOOL** 12 cr. 30 cl.

F-79, Sp-80, F-80, Sp-81

Prerequisites: SED 308 with "C" or better, cumulative and previous semester average at least 2.00; In major field, over 2.00 average; ENG 101-102 or equivalent; if referred, Satisfactory completion, or exemption from EXE 100, Student Speech Clinic; approval by Geosciences, Physics and Interdisciplinary Sciences Chairman. 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 of juniors or seniors majoring in Secondary School Science.

**SCI 409 INTRODUCTION TO THE
HISTORY OF SCIENCE** 3 cr. 3 cl.

F-80 (MS)

Prerequisite: Junior standing

The origin and development of science and its methods; its interactions with culture and society. Careers and personalities of great scientists as factors in scientific progress.

**SCI 410 SCIENCE IN THE
ELEMENTARY SCHOOL
CURRICULUM** 3 cr. 4 cl.

Sp-80, Sp-81 (MS)

Prerequisite: Junior standing

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 411 ADVANCED
OCEANOGRAPHY** 3 cr. 4 cl.

F-80 (MS)

Prerequisite: Two years of undergraduate biology, chemistry, geology or physics. A general approach to the physics, chemistry, biology, and geology of the ocean floor.

**SCI 412 COASTAL ZONE
OCEANOGRAPHY** 3 cr. 3 cl.

F-79 (MS)

Prerequisite: SCI 211 or SCI 212

A study of the coastal zone as a resource and as an eco-system. Special emphasis on problems concerned with its planning and management.

**SCI 415 BASIC SCIENCE OF
RADIATION AND
RADIOISOTOPES** 3 cr. 4 cl.

F-80 (MS)

Prerequisite: Junior standing

Fundamental principles and techniques in the study of electromagnetic (lasers, microwaves, etc.) and nuclear radiation. Energy measurement applications, and radiation protection.

SCI 495 PROJECT (1-3) cr. (2-6) cl.

F-79, Sp-80, F-80, Sp-81, Summers (MS)

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) cr. (6-12) cl.**

F-79, Sp-80, F-80, Sp-81, Summers (MS)

Prerequisite: Approval of faculty sponsor must be secured before registration. Environmental, energy, science/society and science education related areas.

Italian

Offered by the Department of Foreign Language
DR. GISELE FEAL, Chairperson
Bishop Hall 121

ITA 101 ELEMENTARY ITALIAN (C)
3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (H)

Fundamentals of Italian with emphasis on listening and speaking skills.

ITA 102 ELEMENTARY ITALIAN (C)
3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (H)

Prerequisite: ITA 101 or equivalent
Continuation of ITA 101.

ITA 201 INTERMEDIATE ITALIAN (C)
3 cr. 3 cl.

F-79, F-80 (H)

Prerequisite: ITA 102 or equivalent
Further development of the basic skills with emphasis on reading and writing.

ITA 202 INTERMEDIATE ITALIAN (C)
3 cr. 3 cl.

Sp-80, Sp-81 (H)

Prerequisite: ITA 201 or equivalent
Continuation of ITA 201.

**ITA 301 ITALIAN CONVERSATION AND
COMPOSITION** 3 cr. 3 cl.

F-79, F-80 (H)

Prerequisite: ITA 202 or equivalent
Practice in written and spoken Italian.

**ITA 302 ITALIAN CONVERSATION AND
COMPOSITION** 3 cr. 3 cl.

Sp-80, Sp-81 (H)

Prerequisite: ITA 202 or equivalent
Practice in written and spoken Italian.

ITA 306 ITALIAN CIVILIZATION
3 cr. 3 cl.

F-79, F-80 (H)

Prerequisite: none, if offered in English; if offered in Italian, the prerequisite is ITA 202

(Continued p. 278)

or equivalent. An examination of cultural, intellectual and social developments in Italy past and present. To be offered in English and Italian as noted in the Master Schedule.

ITA 307 SURVEY OF ITALIAN LITERATURE (C) 3 cr. 3 cl.

F-79, F-80 (H)

Prerequisite: ITA 202 or equivalent
Readings and discussion of major works from the origins through the Cinquecento.

ITA 308 SURVEY OF ITALIAN LITERATURE (C) 3 cr. 3 cl.

Sp-80, Sp-81 (H)

Prerequisite: ITA 202 or equivalent
Readings and discussions of major works from the Seicento to the present day.

ITA 335 ITALIAN RENAISSANCE (ENG 335) LITERATURE IN TRANSLATION (C) 3 cr. 3 cl.

F-79, F-80 (H)

Prerequisite: a basic literature course or permission of the instructor. The development of humanism from Petrarch to Tasso. Knowledge of Italian not required.

ITA 336 CONTEMPORARY ITALIAN (ENG 336) LITERATURE IN TRANSLATION (C) 3 cr. 3 cl.

Sp-80, Sp-81 (H)

Prerequisite: A basic literature course or permission of the instructor. Major writers since World War II. Knowledge of Italian not required.

ITA 401 DANTE'S DIVINA COMMEDIA (C) 3 cr. 3 cl.

Sp-81 (H)

Prerequisite: an upper-division course or permission of instructor. Study of selected cantos as an introduction to Dante's work and times.

ITA 406 NINETEENTH CENTURY ITALIAN LITERATURE (C)

3 cr. 3 cl.

F-80 (H)

Prerequisite: An upper-division course or permission of instructor. Readings and discussions of representative works of poetry and novels.

ITA 450 DIRECTED READINGS I 3 cr. c cl.

Sp-80 (H)

Prerequisite: Permission of instructor
Variable topics.

ITA 451 DIRECTED READINGS II 3 cr. 3 cl.

Sp-81 (H)

Prerequisite: Permission of instructor
Variable topics.



Journalism, Broadcasting and Speech Communication

Offered by the Department of Journalism, Broadcasting & Speech Communication
DR. RONALD L. RABIN, Chairperson
Bishop Hall 234

JBS 100 INTRODUCTION TO JOURNALISM 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (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. Required of all Journalism majors. (Formerly JBS 200).

JBS 101 WRITING FOR THE MEDIA 3 cr. 4 cl.

F-79, Sp-80, F-80, Sp-81 (H)

Discussion and laboratory practice in organizing and writing various news and feature stories for the different media. Required of all Journalism majors. (Formerly JBS 201).

JBS 102 INTRODUCTION TO BROADCASTING 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (H)

An examination of current programming, philosophies, social effects and possible developments in radio and television broadcasting. Required of all Broadcasting majors. (Formerly JBS 202)

JBS 103 INTRODUCTION TO HUMAN COMMUNICATION 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (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, abstraction, and logic. Required of all Speech majors.

JBS 203 WRITING FOR PUBLICATION 3 cr. 4 cl.

F-79, Sp-80, F-80, Sp-81 (H)

Prerequisite: JBS 100, 101.

Principles and practices of news reporting and writing with special emphasis on news gathering for the college newspaper, The Record, including researching a news story for accuracy, comprehensiveness and interpretation. Required of all Journalism majors in news-editorial and public relations/advertising tracks.

JBS 205 EXPERIENCES IN SPEECH 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (A)

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.) Required of all Broadcasting and Speech majors.

JBS 206 SPEECH TRAINING FOR THE COMMUNICATION PROFESSIONS 3 cr. 3 cl.

F-80 (A)

A comprehensive study of the speech mechanism and of voice production.

JBS 207 PUBLIC SPEAKING 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (A)

Prerequisite: JBS 205

Organization, delivery and evaluation of public speech. Required of all Speech majors.

JBS 209 COMMUNICATION AND GROUP PROCESSES 3 cr. 3 cl.

F-80 (H)

Prerequisite: JBS 205

An interdisciplinary approach to discussion. Special consideration given to the nature and analysis of the discussion process. Required of all Speech majors.

JBS 222 TECHNICAL INTRODUCTION TO BROADCASTING 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (H)

Prerequisite: JBS 102

The legal, engineering and procedural knowledge of radio and television

(Continued p. 280)

necessary for the successful completion of studio production. Required of all Broadcasting majors.

JBS 305 NEWS REPORTING 3 cr. 4 cl.

F-79, Sp-80, F-80, Sp-81 (H)

Prerequisite: JBS 100, 101. **Additional prerequisites:** JBS 319 (may be taken concurrently), JBS 203 (for news editorial and public relations/advertising tracks only). Principles and practices of news gathering and writing processes. Emphasis on news recognition, reporting and preparation. News beats, news sources, research, accuracy, comprehensiveness and investigation.

JBS 308 PUBLIC RELATIONS/ADVERTISING 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (H)

Prerequisite: JBS 100, 101, 203, 319.

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. Required of all Journalism majors in public relations/advertising track.

JBS 309 ARGUMENTATION AND DEBATE 3 cr. 3 cl.

Sp-80 (A)

Prerequisite: JBS 205

The format and procedure of debate with practice in preparing and delivering cases. Required of all Speech majors.

JBS 310 INTERNATIONAL BROADCASTING 3 cr. 3 cl.

F-79, F-80 (H)

Prerequisite: JBS 102, upperclass standing. The history, programming patterns and control of international broadcast systems; includes a study of the cultural, linguistic, psychological and political effects of international broadcasting and direct satellite broadcasting.

JBS 317 BROADCAST SALES AND MANAGEMENT 3 cr. 3 cl.

F-79, F-80 (H)

Prerequisite: JBS 102, 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.

JBS 319 NEWS EDITING 3 cr. 4 cl.

F-79, Sp-80, F-80, Sp-81 (H)

Prerequisite: JBS 100, 101.

Fundamentals of copy editing, headline writing, and makeup. Practice in the relevant skills. Required of all Journalism majors.

JBS 320 ORAL INTERPRETATION OF LITERATURE 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (A)

Oral reading of prose, poetry, and drama-selection and arrangement of material for formal and informal audiences. Required of all Speech majors.

JBS 321 ORAL INTERPRETATION: SPECIAL TYPES 3 cr. 3 cl.

F-80 (A)

Prerequisite: JBS 320

The selection and adaptation of literary forms for choral interpretation, the lecture-recital, readers' theatre and chamber theatre.

JBS 325 MAGAZINE ARTICLE WRITING 3 cr. 3 cl.

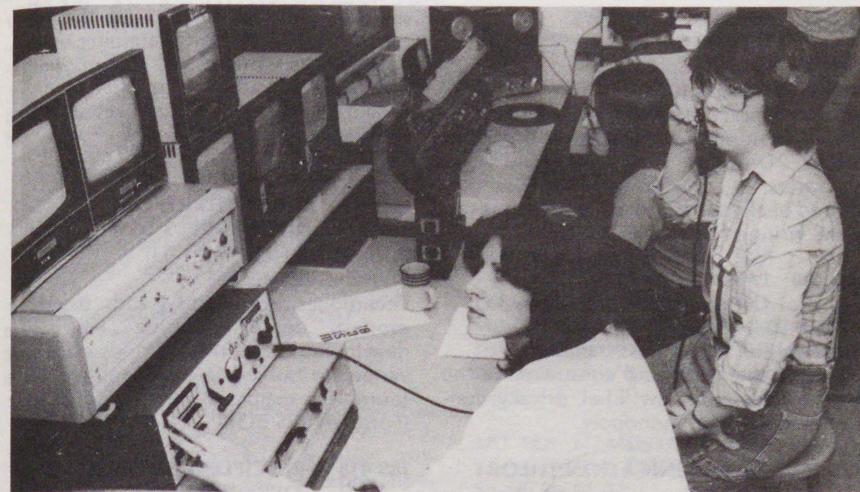
F-79, F-80 (H)

Prerequisite: JBS 101, 305, 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 newspaper plus freelancing methods and techniques.

JBS 326 EDITORIAL AND CRITICAL WRITING 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (H)

Prerequisite: JBS 100, 101, 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.



JBS 327 ORAL INTERPRETATION OF BLACK LITERATURE 3 cr. 3 cl.

F-80 (A)

A speech course designed to enhance an understanding and appreciation of Afro-American literature through an analysis of the linguistic techniques of major black literary works.

JBS 328 RADIO STUDIO OPERATIONS 3 cr. 4 cl.

F-79, Sp-80, F-80, Sp-81 (H)

Prerequisite: JBS 102, 222, permission of instructor. This course is designed to provide a laboratory experience in the principles and techniques of the radio studio. It is the corollary of JBS 329, Beginning Television Studio Operations. Required of all Broadcasting majors, and Journalism majors in broadcast newswriting track (or JBS 329).

JBS 329 BEGINNING TELEVISION STUDIO OPERATIONS 3 cr. 6 cl.

F-79, Sp-80, F-80, Sp-81 (H)

Prerequisite: JBS 102, 222, permission of instructor. An introduction to the fundamentals of television broadcasting theory, aesthetics, and production techniques; predominantly involves lectures with some experimentation, field trips to local television stations and lectures by local television personnel. Required of all Broadcasting

majors, and Journalism majors in broadcast newswriting track (or JBS 328).

JBS 330 INTERMEDIATE TELEVISION STUDIO OPERATIONS 3 cr. 6 cl.

F-79, Sp-80, F-80, Sp-81 (H)

Prerequisite: JBS 329, 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.

JBS 332 CONTEMPORARY ISSUES IN BROADCASTING 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (H)

Prerequisite: JBS 102

A current problems approach to an understanding of and appreciation for the development of the broadcasting industry. Required of all Broadcasting majors.

JBS 333 INTERVIEWING FOR MASS MEDIA 3 cr. 3 cl.

Sp-80, Sp-81 (A)

Prerequisite: JBS 101 or JBS 205

The theory, research, forms and techniques of interviewing for the mass media. Practicum experience in the classroom, the studio and on the street.

(Continued p. 282)

JBS 337 BROADCAST NEWS WRITING 3 cr. 4 cl.

F-79, Sp-80, F-80, Sp-81 (H)

Prerequisite: JBS 101

Study and practice in the special application of news writing and editing to the broadcast media. Uses of wire copy and tape recorders in producing newscasts. Required of all Journalism majors in broadcast news writing track.

JBS 400 LAW OF MASS COMMUNICATION 3 cr. 3 cl.

F-79, F-80 (H)

Prerequisite: Upperclass standing.

Study of the rights and constraints of the mass media under law: libel, privacy, contempt, copyright, monopoly.

JBS 401 COMMUNICATION THEORY 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (H)

Prerequisite: Upperclass standing.

A study of communication theory, research and philosophy. Emphasis is upon applications of communication theory to message design and source-receiver identifications.

JBS 402 VISUAL AND ORAL COMMUNICATION 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (H)

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 and techniques.

JBS 410 HISTORY OF MASS COMMUNICATION 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (H)

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, current programming practices, federal regulation, social impact, and public reaction.

JBS 412 BROADCAST PROGRAMMING 3 cr. 3 cl.

F-79, F-80 (H)

Prerequisite: JBS 100 or 102, upperclass

standing. An examination of the major forms of broadcast programming options. Topics include network affiliation, syndication, barter, radio automation services, broadcast ratings, broadcast research, and specific programming trends in radio and television.

JBS 415 ADVANCED REPORTING (INTERNSHIP) 3 cr. 4 cl.

F-79, Sp-80, F-80, Sp-81 (H)

Prerequisite: JBS 305

Techniques, problems, and trends in modern depth reporting. Practice in developing and writing stories on a wide variety of subject areas. Required of all Journalism majors in news-editorial track. (Formerly JBS 315).

JBS 418 PRINCIPLES OF PUBLICITY/ COPYWRITING (INTERNSHIP) 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (H)

Prerequisite: JBS 308, 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. Required of all majors in the advertising track. (Formerly JBS 318).

JBS 421 RHETORICAL THEORY 3 cr. 3 cl.

Sp-81 (H)
Prerequisite: JBS 103 or 205, permission of instructor. An examination of landmarks in the evolution of rhetorical communication. Special attention is given to historical context and to leading trends as exemplified by writers from both the past and present. Required of all Speech majors.

JBS 422 BROADCAST CRITICISM 3 cr. 3 cl.

Sp-80, Sp-81 (H)

Prerequisite: JBS 102, upperclass standing. An investigation and evaluation of the historical, present-day and possible future development of radio and television programming, providing the student with the basis for reasoned evaluation of the performance of these media. Required of all Broadcasting majors.

JBS 429 ADVANCED TELEVISION STUDIO OPERATIONS 3 cr. 4 cl.

F-79, Sp-80, F-80, Sp-81 (H)

Prerequisite: JBS 330, permission of instructor. A practical program with emphasis on individual training in specialized production techniques of television studio operation through the facilities of professional off-campus broadcasting organizations providing students with experience in a particular area of interest within a television production unit.

JBS 430 BROADCAST LAW AND REGULATION 3 cr. 3 cl.

Sp-80, Sp-81 (H)

Prerequisite: JBS 332.

This course examines the body of broadcast regulation and the ways in which these regulations have evolved. It includes congressional decisions, court interpretations and efforts of the broadcasting industry to regulate itself.

JBS 490 COMMUNICATION PRACTICUM I 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (H)

Prerequisite: permission of instructor.

Work in one of the communications industries under supervision; group and individual conferences at the College two days during the practicum; daily planning and recording keeping.

JBS 491 COMMUNICATION PRACTICUM II 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (H)

Prerequisite: permission of instructor. Continuation of JBS 490.**JBS 495 PROJECT 3 cr. 3 cl.**

F-79, Sp-80, F-80, Sp-81 (H)

Prerequisite: permission of instructor.**JBS 496 SEMINAR IN COMMUNICATION 3 cr. 3 cl.**

Sp-80, Sp-81 (H)

Prerequisite: permission of instructor. Examination of attitudes; sharpening of critical capacities; productive scholarly and creative works. Varying topics.

JBS 499 INDEPENDENT STUDY 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (H)

Prerequisite: Permission of instructor.**Latin**

Offered by the Department of Foreign Language
DR. GISELE FEAL, Chairperson
Bishop Hall 121

LAT 101 ELEMENTARY LATIN 3 cr. 3 cl.

F-79, F-80 (H)

Fundamentals of the Latin language. Essentials of Latin grammar with exercises. For students with no previous knowledge of Latin.

LAT 102 ELEMENTARY LATIN 3 cr. 3 cl.

Sp-80, Sp-81 (H)

Prerequisite: LAT 101 or equivalent

Continuation of LAT 101. The Latin element in the vocabulary of English and modern languages.

NOTE: Further study of Latin at the 201 level and beyond is available under FLA 499, Independent Study.

Library

Offered by the professional staff of Butler Library
DR. DAVID B. WALCH, Dean
Butler Library 205

LIB 100 LIBRARY RESEARCH: METHODS AND BIBLIOGRAPHY 1 cr. 1 cl.

F-79, Sp-80, F-80, Sp-81

The course will examine the storage and retrieval of information with the emphasis on libraries and reference tools. Topics will include search strategy design and execution, use of periodical, audio-visual, and microform resources, and computer searching of bibliographic data bases.

Mathematics

Offered by the Department of Mathematics
DR. ALWIN C. GREEN, Chairperson
Bishop Hall 308

The Mathematics Department offers the following as guidelines to students interested in taking mathematics courses: students with three and one-half to four years of high school mathematics background planning to major in a mathematics related area should enroll first in MAT 161. If a student has not taken more than the eleventh year of high school mathematics he may wish to enroll in MAT 124 before taking MAT 161. Students with only 2-3 years of high school mathematics wish to fulfill a mathematics requirement (elective) may elect any of the following: MAT 103, 105, 107, 111, 119, 120, 125, or 126.

Credit Policy

1. Transfer students who are mathematics majors should be allowed all-college credit for courses below the level of MAT 161, provided those courses were taken prior to transfer to this College and prior to taking courses at or beyond the level of MAT 161. All other students transferring to the College will have their mathematics courses evaluated using the established procedures developed by the Admissions Office in consultation with the Mathematics Department Chairperson.
2. Students who enroll in this College as freshmen, who take courses below the level of MAT 161 and who subsequently declare as a mathematics major, should be allowed all-college elective credit for these courses provided they are taken prior to taking courses at or beyond level of MAT 161.
3. As is now the case, courses below the level of MAT 161 should not count toward the fulfillment of the requirements of a mathematics major.

4. Persons who have declared a major in any of the Mathematics Departments' programs shall not be permitted to enroll in courses below the level of MAT 161. Students are required to declare a major upon transfer to the College or before the end of their third semester; i.e., before completing a total of 45 semester hours of college courses.

MAT 103 MATHEMATICS IN MODERN LIFE 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (MS)
Mathematics appreciation developed through such topics as: the nature and philosophy of mathematics; historical problems and personalities; mathematical systems; computers, statistics.

MAT 105 MATHEMATICS OF FINANCE 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (MS)
Prerequisite: Two years of high school mathematics. Simple interest and bank discount; compound interest; installment loans and revolving charge accounts; ordinary annuities; amortization and sinking funds, bonds, stocks.

MAT 107 CASINO GAMBLING 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (MS)
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 109 GAMES AND LINEAR PROGRAMMING 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (MS)
Elementary techniques for finding optimal choices among game strategies and in linear programming problems using the fundamental minimax theorem and the simplex method. Applications in areas such as business, industry, economics, social sciences, and behavioral sciences.

MAT 111 ELEMENTARY PROBABILITY AND STATISTICS 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (MS)
Prerequisite: Three years of high school mathematics. 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 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (MS)
Prerequisite: Two years of high school mathematics. Logis; sets; partitions; probability; vectors, matrices; linear programming.

MAT 120 ELEMENTARY MATHEMATICAL MODELS 3 cr. 3 cl.

Sp-80, F-80 (MS)
Prerequisite: 3 years of high school mathematics or equivalent. 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.

MAT 121 MATHEMATICS FOR ELEMENTARY TEACHERS I 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (MS)
Natural numbers; logic, nature of deductive proof; elementary set theory; numeration systems; non-metric geometry; integers.

MAT 122 MATHEMATICS FOR ELEMENTARY TEACHERS II 3 cr. 3 cl.

Sp-80, Sp-81 (MS)
Prerequisite: MAT 121 or equivalent
Number theory, divisibility, division algorithm, Euclidean algorithm, fundamental theorem; rational numbers; real numbers; metric geometry, measures; finite mathematical systems.

MAT 124 FUNDAMENTALS OF COLLEGE MATHEMATICS 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (MS)
Designed to prepare a student, who has not gone beyond Math II, for the calculus. Sets, union, intersection, functions, absolute value, polynomials, graphs, zeros, synthetic division; solving equations, inequalities; conic sections; complex numbers, vectors, determinants. May not be taken for credit by students with high school credit beyond Math II.

MAT 125 ANALYTIC GEOMETRY 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (MS)
Prerequisite: Three years of high school mathematics. Coordinate geometry of the line, circle, ellipse, parabola and hyperbola; transformation of axes; higher plane curves; polar coordinates; parametric equations. (Continued p. 286)

MAT 126 CALCULUS 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (MS)

Prerequisite: Three years of high school mathematics equivalent to Math 9, 10, 11 in New York Curriculum. Functions; limits; continuity; techniques for differentiation; applications; summations; anti-derivatives; definite integral; fundamental theorem of calculus; techniques for integration; applications. Credit may not be earned for both MAT 126 and MAT 161 or equivalents.

MAT 127 CALCULUS OF SEVERAL VARIABLES 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (MS)

Prerequisite: MAT 126 or equivalent

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.

Courses for Mathematics Majors Electives for All Qualified Students

MAT 161 ANALYTIC GEOMETRY AND CALCULUS I 4 cr. 4 cl.

F-79, Sp-80, F-80, Sp-81 (MS)

Prerequisite: Four years of high school mathematics equivalent to Math 9, 10, 11, 12 in New York Curriculum. Real numbers; analytic geometry of linear and quadratic forms, functions; limits: continuity; differentiation of algebraic functions; applications of the derivative; antidifferentiation. Credit may not be earned for both MAT 126 and MAT 161 or equivalents.

MAT 162 ANALYTIC GEOMETRY AND CALCULUS II 4 cr. 4 cl.

F-79, Sp-80, F-80, Sp-81 (MS)

Prerequisite: MAT 161

The definite integral; differentiation of transcendental functions; techniques of integration; applications of integration; the

fundamental theorem of calculus; logarithmic, exponential, trigonometric functions. Polar coordinates and conic sections.

MAT 181 PROBLEM SOLVING IN MATHEMATICS I 1 cr. 1 cl.

F-79, Sp-80, F-80, S-81 (MS)

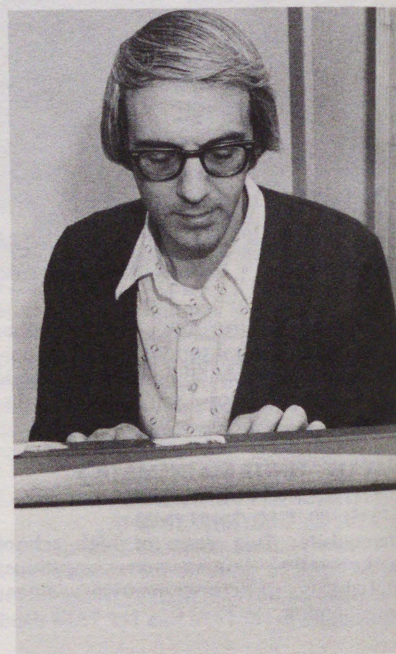
An introduction to the basic techniques of problem solving, creative problem solving, the methods of Polya, Wickelgren, and others, and applications to the areas of algebra, geometry, analysis, and recreational mathematics. The emphasis is on process rather than on content.

MAT 182 PROBLEM SOLVING IN MATHEMATICS II 1 cr. 1 cl.

F-79, Sp-80, F-80, Sp-81 (MS)

Prerequisite: MAT 181

A continuation of Math 181, involving a deepening and internalizing of problem solving techniques. The emphasis is still on process rather than content and topics from mathematics of interest to the student will be treated in greater depth with the student taking a strong leadership role in solving problems.

**MAT 202 INTRODUCTION TO LINEAR ALGEBRA 3 cr. 3 cl.**

F-79, Sp-80, F-80, S-81 (MS)

Prerequisite: One course in calculus

Vectors and vector spaces; linear dependence, basis and dimension; matrices and determinants; linear systems; linear transformations; eigenvectors; and invariant subspaces.

MAT 223 INTERMEDIATE MATHEMATICS FOR ELEMENTARY TEACHERS 3 cr. 3 cl.

Not offered (MS)

Prerequisite: 4 years of high school mathematics or equivalent. **Classification:** Elective. Logic, nature of deductive proof, elementary set theory, development of the real number system, finite mathematical systems as examples of formal deductive systems. Credit may not be earned for both MAT 121 and MAT 223.

MAT 263 ANALYTIC GEOMETRY AND CALCULUS III 4 cr. 4 cl.

F-79, Sp-80, F-80, S-81 (MS)

Prerequisite: MAT 162

Further study of continuous and differentiable functions, infinite series; elements of solid analytic geometry; vectors; partial differentiation; multiple integration.

MAT 301 INTRODUCTION TO MODERN ALGEBRA I 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (MS)

Prerequisite: MAT 202

An introduction to the fundamental concepts of modern abstract algebra of sets, mappings, binary operations; and to the algebraic structures of groups, rings, fields and automata.

MAT 302 INTRODUCTION TO MODERN ALGEBRA II 3 cr. 3 cl.

F-80 (MS)

Prerequisite: MAT 301

The topics of MAT 301 will be studied in greater depth. Additional topics will include a detailed study of rings and ideals, and/or field extensions and in introduction to Galois Theory.

MAT 309 DISCRETE MATHEMATICS 3 cr. 3 cl.

Sp-80 (MS)

Prerequisite: MAT 301

Automata, modules, group codes, linear machines, polynomial rings, cyclic codes, minimum polynomials, context-free grammars, tree automata, polish notation, push-down automata.

MAT 315 DIFFERENTIAL EQUATIONS 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (MS)

Prerequisite: MAT 263

Preliminary ideas on order, degree, and solutions; formation of differential equations; differential equations of first order linear equations with constant coefficients; special higher order equations; simultaneous equations; linear equations of the second order; series solutions.

MAT 316 INTERMEDIATE DIFFERENTIAL EQUATIONS 3 cr. 3 cl.

S-80, Sp-81 (MS)

Prerequisite: MAT 315

Laplace transform; inverse Laplace transform and applications; partial differential equations; Fourier series; Boundary value problems; transform methods application.

MAT 322 MODERN GEOMETRY 3 cr. 3 cl.

F-79, Sp-80, Sp-81 (MS)

Prerequisite: At least one course in calculus. Euclidean Constructions; Theorems of Menelaus and Ceva; Cross ratio, Harmonic points; Orthogonal Circles; Isometrics and Similarities in the Plane; Introduction of Projective Geometry.

MAT 329 PROJECTIVE GEOMETRY 3 cr. 3 cl.

F-79, Sp-80, Sp-81 (MS)

Prerequisite: MAT 202.

A study of projective geometry. Homogeneous Coordinates; Ideal points and lines; Matrices; Linear Transformations and Systems of Linear Equations; Desargues' and Pappus' Theorems; Projectives; Cross ratio; Conics Collineations; Transformation groups.

(Continued p. 288)

**MAT 351 ELEMENTARY THEORY OF NUMBERS 3 cr. 3 cl.**

Sp-80, F-80 (MS)

Prerequisite: At least sophomore status
Divisibility; Euclid's algorithm; prime numbers; prime factorization theorem; Euler's phi-function; Diophantine analysis; congruencies; theorems of Fermat, Euler, and Wilson.

MAT 360 INTRODUCTION TO COMPUTATIONAL MATHEMATICS 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (MS)

Prerequisite: MAT 202

APL programming language, Finite precision arithmetic roundoff and truncation error, elementary problems from linear and numerical analysis.

MAT 366 ADVANCED COMPUTATIONAL MATHEMATICS 3 cr. 3 cl.

F-80 (MS)

Prerequisite: MAT 360

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 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (MS)

Prerequisite: MAT 202

Introduction to network and graph theoretic concepts. Considers properties

and application in computational mathematics, social science, decision making, and physical science.

MAT 381 PROBABILITY 3 cr. 3 cl.

Sp-80, Sp-81 (MS)

Prerequisite: MAT 263

Probability spaces, discrete and continuous; distributions of discrete and continuous random variables; mathematical expectation; linear combinations of random variables.

MAT 382 STATISTICS 3 cr. 3 cl.

F-80 (MS)

Prerequisite: MAT 381

Sampling distributions; the central limit theorem; point and interval estimation; tests of hypotheses.

MAT 411 INTRODUCTION TO COMPLEX VARIABLES 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (MS)

Prerequisite: MAT 263

Complex numbers, analytic functions, elementary functions, contour integration, Taylor Series, Laurent Series, uniform convergences, calculus of residues, conformal mappings and applications.

MAT 417 INTRODUCTION TO REAL ANALYSIS I 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (MS)

Prerequisite: MAT 263

A rigorous treatment of elementary real analysis including: Topology of 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 cr. 3 cl.

Sp-80 (MS)

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 functions, multiple integrals, and Fubini's Theorem.

MAT 461 NUMERICAL ANALYSIS 3 cr. 3 cl.

Sp-80, Sp-81 (MS)

Prerequisite: 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 cr. 3 cl.

F-79, Sp-81 (MS)

Prerequisite: MAT 301

Sets and functions; metric spaces; topological spaces; connectedness; compactness; separation.

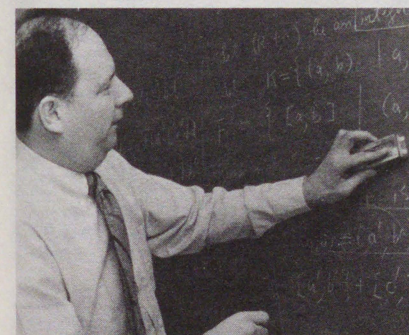
MAT 490 SEMINAR 3 cr. 3 cl.

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, Sample Theory, etc. Emphasis is on oral presentations by the students and discussions.

MAT 495 PROJECT**MAT 499 INDEPENDENT STUDY****MED 397 METHODS IN TEACHING SECONDARY SCHOOL MATHEMATICS 3 cr. 3 cl.**

F-79, Sp-80, F-80, Sp-81

Prerequisites: Admission to the secondary teaching option of the mathematics department;



ment; completion of two of EDU 303, EDU 353, EDU 403 with a grade of "C" or better; QPA of 2.2 (out of 4.0) in mathematics. An introduction to the theory and practice of classroom teaching for the prospective secondary mathematics teacher. Actual field experience in classroom discipline, planning for instruction, curricular issues, evaluation and testing, and special learning techniques. Includes lectures, field observation, peer presentations, construction and critique of lesson plans, use of media, and research of teaching strategies.

MED 496 PROFESSIONAL SEMESTER EARLY SECONDARY MATHEMATICS 6 cr. 30 cl.

F-79, Sp-80, F-81, Sp-81

Prerequisite: Elementary Education Extension of Certification in MAT status; EDU 210 and one from EDU 350, 351, 352; MAT 161-2, 322 and 301 with a minimum MAT average of 2.20; a minimum cumulative and previous semester average of 2.00; senior status. **Classification:** Required of Elementary Education majors seeking certification to teach Junior High School Math. 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 497 PROFESSIONAL SEMESTER 12 cr. 30 cl.

F-79, Sp-80, F-81, Sp-81

Prerequisite: EDU 303 and EDU 353 or PSY 204 and 255; Modern Geometry; Modern Algebra or Linear Algebra; a minimum mathematics average of 2.20; a minimum cumulative and previous semester average of 2.00; Senior status. **Classification:** Required of seniors majoring in Secondary School Mathematics; elective for liberal arts Mathematics majors. 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 Department of
Performing Arts
DR. JAMES F. MABRY, Chairperson
Albright Hall 201

MUS 112 APPLIED MUSIC 1 cr. ½ cl.

F-79, Sp-80, F-80, Sp-81 (A)

Studio Fee may be required.

Prerequisite: Previous performance with the instrument, audition required.

MUS 113 ORCHESTRA 1 cr. 2½ cl.

F-79, Sp-80, F-80, Sp-81 (A)

Prerequisite: Performance ability on an orchestral instrument. Regular rehearsals and scheduled performance with the Symphonic Orchestra group.

MUS 114 CONCERT BAND 1 cr. 2½ cl.

F-79, Sp-80, F-80, Sp-81 (A)

Prerequisite: Performance ability on a band instrument. Regular rehearsals and scheduled performance with College Band.

MUS 117 ENSEMBLE 1 cr. 1-2½ cl.

F-79, Sp-80, F-80, Sp-81 (A)

Prerequisites: Audition; permission of Instructor. Training and supervised performance in vocal and instrumental chamber music.

MUS 118 JAZZ ENSEMBLE 1 cr. 2½ cl.

F-79, Sp-80, F-80, Sp-81 (A)

Prerequisites: Audition; permission of Instructor. Training and supervised performance in Jazz and Dance Band combinations.

MUS 121 ALL-COLLEGE GOSPEL CHORUS 1 cr. 4 cl.

F-79, Sp-80, F-80, Sp-81 (A)

Training and supervised performance in the singing of Gospel Music.

MUS 125 COMPREHENDING MUSIC 3 cr. 3-4 cl.

F-79, Sp-80, F-80, Sp-81 (A)

Comprehensive treatment of how to read music, how to improve music, how to listen to music, and how to discuss music. Elective

(required only for students in the 24-hour elementary education music concentration).

MUS 161-164 APPLIED MUSIC 1 cr. 1 cl. (A)

Prerequisite: Audition. Courses must be taken in sequence.

Class instruction in Instrument or Voice, I-IV.

MUS 165 KEYBOARD HARMONY 1 cr. 1 cl.

F-79, Sp-80 (A)

Prerequisite: Permission of Instructor Applied Music; Keyboard Harmony. Class instruction in piano emphasizing playing chords for songs used in elementary schools. Required for 36-hour extended concentration.



MUS 171-172, 173-174, 271-272, 273-274, 371-372, 373-374, 471-472, 473-474 APPLIED MUSIC 1-2 cr. ½-1 cl.

F-79, Sp-80, F-80, Sp-81 (A) Studio Fee may be required

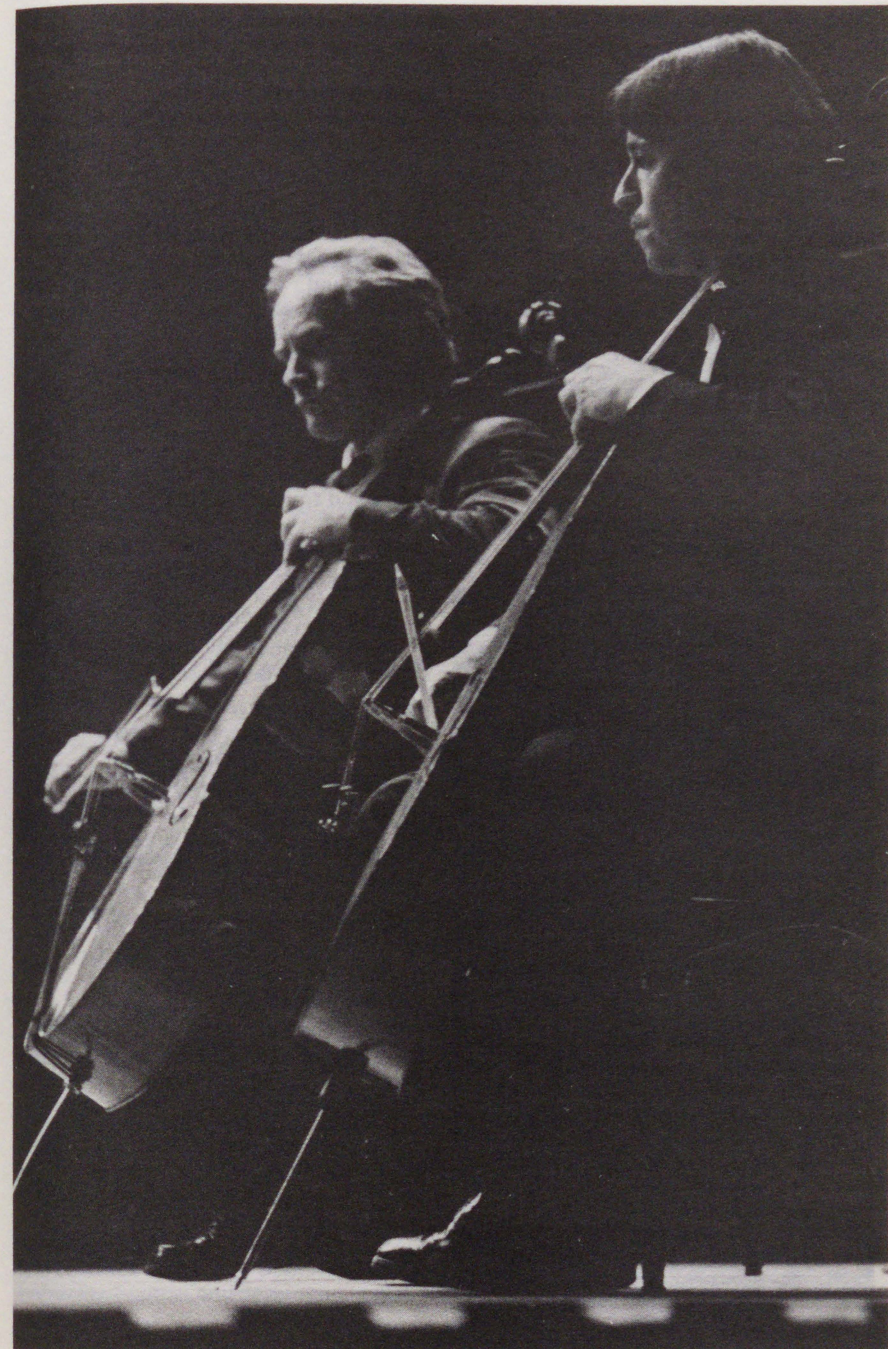
Individual lessons for students of voice or instrument. Required for Music majors, and for 36-hour extended concentration.

MUS 201 SYMPHONIC LITERATURE 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (A)

The symphony orchestra; the understanding and employment of the masterpieces of Classic, and Romantic and Contemporary composers; attendance at selected concerts.

(Continued p. 292)



**MUS 202 VOCAL LITERATURE,
17TH-20TH CENTURIES**
3 cr. 3 cl.

(A)

Class instruction and listening experience in the principal literature of choral and art songs of these centuries. Attendance at selected concerts.

**MUS 203 CHAMBER MUSIC
LITERATURE 3 cr. 3 cl.**

Sp-80, Sp-81 (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 cr. 3 cl.

F-80 (A)

Class instruction and listening experience in the principal literature of opera.

**MUS 205 AMERICAN POPULAR
MUSIC IN THE 20TH CENTURY**
3 cr. 3 cl.

F-79, Sp-80, F-81, Sp-81 (A)

Class instruction and listening experience in the principal literature of American popular music.

**MUS 206 JAZZ AND ROCK
FOUNDATIONS 3 cr. 3 cl.**

F-79, Sp-80, F-80, Sp-81 (A)

Music and materials illustrating basic historical development of jazz, rhythm and blues, and rock.

**MUS 208 ORIENTAL ART MUSIC:
CHINA, JAPAN, KOREA**
3 cr. 3 cl.

F-79, F-80 (A)

Sources and development of the idioms, styles and sound media of the Orient.

**MUS 209 ORIENTAL ART MUSIC:
INDIA, INDONESIA, IRAN**
3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (A)

Sources and development of the idioms, styles and sound media of the Far East.

**MUS 210 RUDIMENTS OF
TRADITIONAL MUSIC
NOTATION 3 cr. 3 cl.**

F-79, Sp-80, F-80, Sp-81 (A)

Musical notation and rudimentary sight reading; elementary harmony, chord structure, modulation; some listening and music appreciation.

**MUS 211 INTRODUCTION TO
CONDUCTING 1 cr. 1 cl.**

Sp-80 (A)

Prerequisite: MUS 125

A course in group conducting such as might be helpful to a classroom teacher.

MUS 212 CRITICISM 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (A)

An open-ended, instructed discussion of critical thinking, with practice in writing criticism.

**MUS 217 EXPERIENCES IN MUSIC
FOR BEGINNERS 3 cr. 3 cl.**

F-79, Sp-80, F-80, Sp-81 (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 218 ESSENTIALS OF MUSIC
READING 3 cr. 3 cl.**

F-79, Sp-80, F-80, Sp-81 (A)

Prerequisite: MUS 210 or equivalent

A sight-singing and ear-training course for students with some experience in music and almost no previous formal training. Required for 24-hour concentration in Music. Elective for Music minor and others. This course may not be applied toward a music major or 36-hour extended concentration.

**MUS 301 INTRODUCTION TO MUSIC
LITERATURE 3 cr. 3 cl.**

F-79, F-80 (A)

Prerequisite: Junior or senior status

Introduction to music from antiquity to present; musical forms and styles; vocal and instrumental music.

**MUS 302 MUSIC HISTORY,
ANTIQUITY THROUGH
BAROQUE 3 cr. 3 cl.**

Sp-80 (A)

Prerequisite: A course in Western Classical Music or ability to read music. Emphasis on Medieval, Renaissance, and Baroque styles. Required of Music majors.

**MUS 303 MUSIC HISTORY,
CLASSIC AND ROMANTIC**
3 cr. 3 cl.

F-79 (A)

Prerequisite: MUS 302 or permission of the instructor. The 18th and 19th century opera, oratorio, solo song, chamber music, symphony and other forms. Required of Music majors.

**MUS 304 MUSIC HISTORY,
20TH CENTURY 3 cr. 3 cl.**

Sp-80, Sp-81 (A)

Prerequisite: Mus 302 or permission of the instructor. Sources and development of the

idioms, styles and new sound media of music in the present century. Required of Music majors.

MUS 305 MODERN JAZZ 3 cr. 3 cl.

F-79, F-80 (A)

Prerequisite: MUS 206, or MUS 205

A study of the history and development of modern jazz from 1941 to the present.

MUS 306 URBAN BLUES AND ROCK
3 cr. 3 cl.

Sp-80, Sp-81 (A)

Prerequisite: MUS 206, or MUS 205

Sources and development of the idioms, styles, and sound media of this music.

**MUS 311 MUSIC THEORY I, MELODY
AND TWO-PART TEXTURE**
3 cr. 3 cl.

F-79, F-80 (A)

Prerequisite: Music major or permission of instructor. Species counterpoint and contrapuntal forms. Required of Music majors.

**MUS 312 MUSIC THEORY 2, HARMONY
AND SONORITY 3 cr. 3 cl.**

Sp-80, Sp-81 (A)

Prerequisite: MUS 311, and 171

Diatonic and chromatic harmony, harmonic structure and harmonic rhythm. Required of Music majors.

**MUS 315 MUSIC THEORY 3, COMPLEX
TEXTURES IN TONAL
MUSIC: HARMONY,
COUNTERPOINT, AND FORM**
3 cr. 3 cl.

F-79, F-80 (A)

Prerequisite: MUS 311, 312, 318, 173

Intermediate level studies in tonal harmony and counterpoint in music forms. Emphasis on aural development and analysis. Required for Music majors.

**MUS 316 MUSIC THEORY 4, RESOURCES
USED IN COMPOSITION AND
ANALYSIS OF 20TH CENTURY
MUSIC 3 cr. 3 cl.**

Sp-80, Sp-81 (A)

Prerequisite: MUS 311, 312, 315, 318, 271
Serialism, Cell Structure, Sonorities and

(Continued p. 294)



other musical intervals used by selected 20th Century composers.

MUS 317 MUSIC FOR CHILDREN
3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (A)

Prerequisite: Juniors and seniors only
Demonstrations, workshop techniques, a variety of musical experiences to build skills, develop knowledge of basic music fundamentals and elementary education techniques. Emphasis on participation. Required for 24 and 36-hour concentrations.

MUS 318 SIGHT-SINGING AND EAR-TRAINING 3 cr. 3 cl.

Sp-80, Sp-81 (A)

Prerequisite: Music major or permission of instructor. Sight singing; musical dictation; scale patterns; interval, note and rest values; cadences and progressions; rhythms and meter. Required of Music majors.

MUS 319 AMERICAN FOLK MUSIC
3 cr. 3 cl.

Sp-80, Sp-81 (A)

Prerequisite: MUS 206, or MUS 205
Lectures, reading and listening experience in the various idioms of American Folk Music.

MUS 320 COUNTRY MUSIC, U.S.A.
3 cr. 3 cl.

F-79, F-80 (A)

Prerequisite: MUS 206, or MUS 205

A study of the history and development of Country Music in America.

MUS 321 ARRANGING, VOCAL, INSTRUMENTAL, POPULAR AND JAZZ 3 cr. 3 cl.

Sp-80 (A)

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.

MUS 322 CONDUCTING 3 cr. 3 cl.

F-79, F-80 (A)

Prerequisite: MUS 311 or 318, or permission of instructor. Use of baton; reading and observation; attendance at selected concerts. Required of Music majors.

MUS 324 ACCOMPANYING 3 cr. 3 cl.

F-79 (A)

Prerequisite: Permission of instructor
Class instruction and supervised performance in accompanying choral groups and instrumental and vocal performance with study of representative examples of literature.

MUS 404 CLASSROOM MUSIC SEMINAR 3 cr. cl.

F-79, F-80 (A)

Prerequisite: MUS 317

Advanced study of classroom music activities in depth. Work with a class of school children by instructor and students at least once a week. Observations, projects, readings in a laboratory-workshop setting.

MUS 150-450 DIRECTED STUDY SEMINAR 3 cr. 3 cl. per semester

F-79, Sp-80, F-80, Sp-81 (A)

Prerequisite: Permission of the instructor, which must be granted each semester.

Supervised projects in an area of music study, such as but not restricted to composition and theory, all students reporting to a common seminar. A student who in the judgment of the Seminar Director and the Department Chairman is qualified for this course may be admitted in any semester and may continue, subject each semester to the same qualification, until graduation.

MUS 155-455 DIRECTED STUDY SEMINAR, THEORY
3 cr. 3 cl. each semester

F-79, Sp-80, F-80, Sp-81 (A)

Prerequisite: Performance ability on musical instrument, knowledge of major scales. Supervised projects in the area of musical theory, all students reporting to a common seminar. A qualified student may be admitted in any semester and may continue, subject each semester to the same qualifications, until graduation.

MUS 457 STUDENT TEACHING, MUSIC
6 cr. 15 cl.

F-79, Sp-80, F-80, Sp-81

Prerequisite: 36 hours in Music and permission of the instructor; 2.00 cumulative average. Music teaching under supervision in the elementary schools.

MUS 495 PROJECT

MUS 499 INDEPENDENT STUDY

Nutrition and Food Science

Offered by the Department of Nutrition & Food Science

DR. DENNIS K. PONTON, Chairperson
Caudell Hall 106A

NFS 101 INTRODUCTORY FOOD
3 cr. 4 cl.

F-79, Sp-80, F-80, Sp-81 (R)

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 305 ADVANCED FOOD 3 cr. 4 cl.

F-79, Sp-80, F-80, Sp-81

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: CULTURAL ASPECTS 3 cr. 4 cl.

Sp-80, Sp-81

Laboratory coat/apron required

Prerequisite: NFS 305

Techniques of demonstration related to foods with accent on cultural food presentations.

NFS 334 CONTEMPORARY NUTRITION
3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (R)

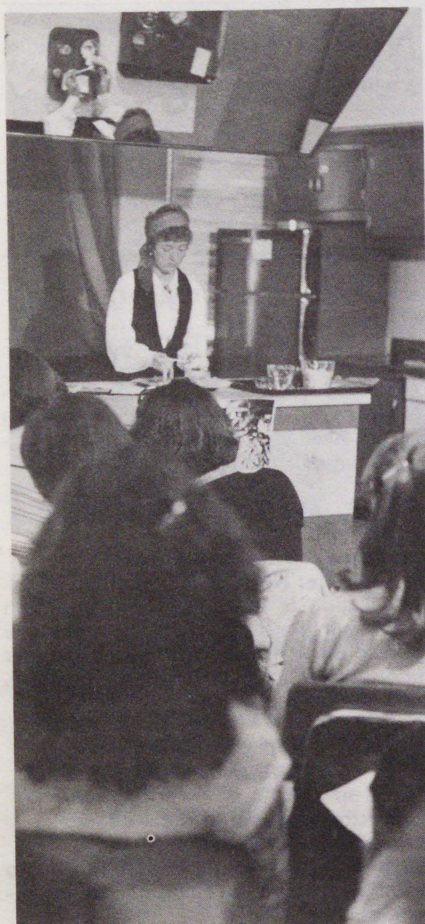
An analysis and appraisal of human food habits in terms of specific parameters which determine nutritional welfare.

NFS 335 HUMAN NUTRITION 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (R)

Prerequisites: CHE 102 or CHE 112 for Home Economics section; BIO 311, CHE 321 for Dietetics section. The study of nutrients es-

(Continued p. 296)



essential for man throughout the life cycle with emphasis on the chemistry, sources and factors affecting utilization and metabolism.

NFS 336 MATERNAL, INFANT AND CHILD NUTRITION 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81

Prerequisite: NFS 335

Nutritional needs from the time of conception through adolescence. Application of principles of nutrition to pregnant mothers, infants, preschoolers, school age children and adolescents. Discussion of maternal and child nutrition services and programs.

NFS 361 PRINCIPLES OF MANAGEMENT IN FOOD SERVICE 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81

The application of management principles in food service systems.

NFS 362 QUANTITY FOOD MANAGEMENT 4 cr. 6 cl.

F-79, Sp-80, F-80, Sp-81 Laboratory coat/apron required

Prerequisites: NFS 305, NFS 361

The use of knowledge of food in the construction of nutritious, attractive and economical meals for health care institutions. The understanding of the technical operations necessary in the procurement, production, distribution, sanitation and control of quality foods.

NFS 363 QUANTITY FOOD PRODUCTION 3 cr. 5 cl.

Sp-80, Sp-81

Laboratory coat/apron required

Prerequisites: NFS 305, NFS 361

Experience in application of food preparation principles to quantity production, menu planning, use and care of institutional equipment, standardized formulae and costs and service to the public.

NFS 400 FOOD SCIENCE 3 cr. 4 cl.

F-79, Sp-80, F-80, Sp-81

Laboratory coat/apron required

Prerequisites: CHE 321, NFS 101, NFS 335 or permission. A study of the characterization, analysis and identification of the components of food, the effect of processing on food and the interrelationship of various aspects of food science to nutrition.

NFS 439 NUTRITIONAL BIOCHEMICAL ANALYSIS 1 cr. 2 cl.

F-79, Sp-80, F-80, Sp-81

Laboratory coat/apron required

Prerequisites: CHE 322, NFS 335

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 role of nutrients as protein, glucose, cholesterol or ascorbic acid in human and animal metabolism.

NFS 440 ADVANCED HUMAN NUTRITION 3 cr. 3 cl.

F-79, F-80

Prerequisites: CHE 322, NFS 335

The role of nutrients at the cellular level with emphasis on intermediary metabolism of carbohydrate, protein and lipid. Nutritional assessment including dietary, biochemical and clinical evaluation.

NFS 441 DIETARY MODIFICATIONS IN DISEASE 3 cr. 3 cl.

F-79, Sp-80, Sp-81

Prerequisite: NFS 440

Physiological basis for diet modification with special emphasis on normal metabolism of nutrients and deviations from normal metabolism in disease.

NFS 442 NUTRITION AND DISEASE I 3 cr. 3 cl.

Sp-80, Sp-81

Prerequisites: NFS 440, **Corequisite:** NFS 446

Consideration of selected parameters requiring dietary modification in disease conditions affecting gastrointestinal tract, liver, gall bladder and endocrine glands.

NFS 443 NUTRITION AND DISEASE II 3 cr. 3 cl.

F-79, F-80

Prerequisites: NFS 442, **Corequisite:** NFS 447

Consideration of selected parameters requiring dietary modifications in surgical conditions, cardiovascular disease, selected inborn errors of metabolism and renal disease.

NFS 444 COMMUNITY NUTRITION 3 cr. 3 cl.

Sp-80, Sp-81

Prerequisite: NFS 443, **Corequisite:** NFS 448

Nutrition as a component of health care is viewed and discussed through the various nutrition services provided for individuals and groups throughout the life cycle within a community.

NFS 445 NUTRITIONAL CARE A 2 cr. 4 cl.

F-79, F-80 Clinical dress required

Prerequisite: NFS 335, **Corequisite:** NFS 336

Application of basic nutrition principles related to maternal, infant and child health

in hospitals and community settings. Development of interviewing skills and use of appropriate tools for dietary evaluation.

NFS 446 NUTRITIONAL CARE B 3 cr. 6 cl.

Sp-80, Sp-81 Clinical dress required

Prerequisite: NFS 445, **Corequisite:** NFS 442

Application of nutrition and behavioral knowledges associated with acute and chronic diseases in hospital settings. The use of problem-solving approach and application of management principles.

NFS 447 NUTRITIONAL CARE C 4 cr. 8 cl.

F-79, F-80 Clinical dress required

Prerequisite: NFS 446, **Corequisite:** NFS 443

Application of knowledge and skills in providing nutritional care for individuals with acute and chronic disease. Opportunities to participate with multidisciplinary health team in providing care in an institutional setting.

NFS 448 NUTRITIONAL CARE D 5 cr. 10 cl.

Sp-80, Sp-81 Clinical dress required

Prerequisite: NFS 447, **Corequisite:** NFS 444

Opportunity to provide nutritional care to groups of patients in hospitals. Participation in promoting continuity of care through discharge planning, patient and family teaching and utilization of community resources. Involvement with health and social agencies in the community.

NFS 467 PURCHASING AND FOOD COST ACCOUNTING 4 cr. 6 cl.

Sp-80, Sp-81

Prerequisite: NFS 363

Standards for selection of food in an institution service and use of basic accounting principles underlying financial statements.

NFS 468 OPERATIONAL SYSTEMS IN MANAGEMENT 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81

Prerequisites: NFS 361, NFS 363 and permission.

Concepts of quantitative methods of management science applied to decision making concerning policies, design and

(Continued p. 298)

procedures for control and evaluation of food service operations. Emphasis on management of human resources and systems concept.

NFS 469 INSTITUTIONAL ORGANIZATION AND MANAGEMENT 3 cr. 3 cl.

Sp-80, Sp-81

Prerequisite: NFS 467

Organization, financial control and personnel management of institution food departments.

NFS 470 THE LAWS OF INNKEEPERS IN FOOD SERVICE 3 cr. 3 cl.

F-79, F-80

Prerequisites: NFS 362 or NFS 363

An analysis and appraisal of the law as it pertains to the food industry.

NFS 490 FIELD EXPERIENCE Variable credit

F-79, Sp-80, F-80, Sp-81

Prerequisite: Registration with permission of instructor and chairperson using department forms available in Caudell 106A.

NFS 495 PROJECT Variable credit

F-79, Sp-80, F-80, Sp-81

Prerequisite: Registration with permission of instructor and chairperson using department forms available in Caudell 106A.

NFS 499 INDEPENDENT STUDY Variable credit

F-79, Sp-80, F-80, Sp-81

Prerequisite: Registration with permission of instructor and chairperson using department forms available in Caudell 106A.



Philosophy and Religious Studies

Offered by the Department of Philosophy & Religious Studies

DR. JAMES O. GRUNEBAUM, Chairperson
Bishop Hall 217

PHI 101 INTRODUCTION TO PHILOSOPHY 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (H)

An introduction to the literature and problems of philosophy.

PHI 102 INTRODUCTION TO MORAL AND SOCIAL PHILOSOPHY 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (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 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (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 RELIGIOUS STUDIES 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81

This course introduces the student to the rational study of religion. The religious view of man will be studied and those concepts basic to religious experience will be examined.

PHI 105 INTRODUCTION TO CHRISTIAN THOUGHT 3 cr. 3 cl.

F-79, F-80

A study of Christianity, the historical Jesus, His teachings, life and actions, 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 120 BIBLICAL FOUNDATIONS OF JEWISH PHILOSOPHY 3 cr. 3 cl.

F-79 (H)

Class considerations will emphasize: the nature of the "divine" in biblical thought; the universe as a "created place"; special relationships—God to man and man to God, God to Israel and Israel to God, God to the "nations" and the "nations" to God, God to Torah and Torah to God; the Land of Israel and Exile; nature and origin of Evil.

PHI 121 INTRODUCTION TO JEWISH THOUGHT 3 cr. 3 cl.

Sp-80 (H)

A study of the major divisions of Jewish thought and practice; Torah and the problem 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 practices, laws and institutions, the world to come; Judaism and Christianity; Judaism and Islam.

PHI 202 MODERN JEWISH PHILOSOPHY 3 cr. 3 cl.

Sp-80 (H)

An examination of modern Jewish philosophic thought and its place within the context of Western secular and religious philosophy; analysis of representative samples from the works of some major Jewish thinkers of the 19th and 20th centuries.

PHI 204 PHILOSOPHY OF RELIGION 3 cr. 3 cl.

Sp-80, F-80, Sp-81 (H)

A critical analysis of certain ideas relevant to philosophy of religion. The course will

focus on classroom discussion of religious ideas and on the philosophical problems confronting certain of these ideas.

PHI 205 MYSTICISM 3 cr. 3 cl.

F-79, F-80 (H)

This course offers an in-depth introduction to the study of mystical experience. The major ascetical disciplines of the world and their underlying philosophies will be covered. Topics will range from Yoga and Aen to Carlos Castaneda and 2001—A Space Odyssey.

PHI 207 PHILOSOPHY IN LITERATURE 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (H)

This course has as its goal the examination of the relation between philosophy and literature. Specifically by examining certain in common structural devices such as metaphors, analysis, parables and paradoxes, and by examining the interrelation between form and content as these relate to philosophical issues.

PHI 210 EXISTENTIALISM 3 cr. 3 cl.

F-79, F-80 (H)

A consideration of the problem of meaning and value in life in a context of various philosophical and literary works of religious and non-religious existentialists. Including Kierkegaard, Nietzsche, Heidegger and Sartre.

PHI 220 THE DEVELOPMENT OF JEWISH RELIGIOUS THOUGHT 3 cr. 3 cl.

Sp-81 (H)

An examination of Jewish philosophic thought as it appears in Biblical, Talmudic and medieval literary form with an overview of some contemporary issues.

PHI 221 BIBLE AND JEWISH THOUGHT 3 cr. 3 cl.

Sp-80 (H)

This course is a basic introduction to the Hebrew Bible for non-Hebraists. It will investigate elements in the background, setting, and philosophies of the Hebrew Bible with special attention to its place in

(Continued p. 300)

thought. The principle forms will be on the historical books of the Jewish Bible.

PHI 300 PROBLEMS OF PHILOSOPHY 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (H)

An analysis of selected problems in epistemology, metaphysics, ethnics and of certain movements in contemporary philosophy.

PHI 301 SOCIAL AND POLITICAL PHILOSOPHY 3 cr. 3 cl.

F-79, F-80, Sp-81 (H)

An examination of political authority, including its origins, its ends and objectives, its limits and its justification.

PHI 302 PHILOSOPHY OF ART AND BEAUTY 3 cr. 3 cl.

F-79, Sp-81 (H)

An analysis of the basic concepts presupposed in any critical examination of the arts, including painting, literature, and music.

PHI 303 JUSTICE & CRIMINAL JUSTICE 3 cr. 3 cl.

F-80 (H)

Prerequisite: Junior or senior or one course in Philosophy. An examination of basic theories of justice like egalitarianism and merititarianism as well as an examination of specific problems of justice like "What is just punishment?" "What is a just law?"

PHI 304 PHILOSOPHY OF LAW 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (H)

Prerequisite: Junior or senior or one Philosophy course. 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 PHILOSOPHY OF LANGUAGE I 3 cr. 3 cl.

F-80 (H)

Prerequisite: PHI 101

Analyticity, Meaning and Referring, Propositions and Truth.

PHI 306 PHILOSOPHY OF LANGUAGE II 3 cr. 3 cl.

Sp-81 (H)

Prerequisite: PHI 101

Speech Acts, The Philosophical Relevance of Transformational Grammar.

PHI 307 ELEMENTARY SYMBOLIC LOGIC 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (H)

An introduction to symbolic logic and the traditional logic of categorical sentences.

PHI 308 PHILOSOPHY OF LOVE AND SEX 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (H)

Prerequisite: Upper division standing

An examination of classic and contemporary philosophic theories of the nature, value, and purpose of human love and sexuality. Certain moral arguments found in such areas as abortion and premarital intercourse will also be considered.

PHI 309 PHILOSOPHY OF SCIENCE 3 cr. 3 cl.

F-79 (H)

Prerequisite: At least one course in natural science, one course in social science and two courses in philosophy or permission of the instructor. Functional analysis of the central concepts of the general logic of scientific activity. An attempt to describe the general logic of science through the literature in Philosophy of Science.

PHI 310 PHENOMENOLOGY & EXISTENTIALISM 3 cr. 3 cl.

Sp-80 (H)

Prerequisite: PHI 210, 317 or 318

A study of the central writings of Edmund Husserl, including the ideas and Cartesian Meditations. Followed by a reading of such existential phenomenologists as Heidegger, Sartre and Merleau-Ponty.

PHI 311 PHILOSOPHY OF DEMOCRACY 3 cr. 3 cl.

F-79 (H)

Prerequisite: Junior or senior or one course in Philosophy. An inquiry into the nature and moral justification of democratic institutions with special emphasis on the

problems of majoritarian decision making and on problems of welfare and equality.

PHI 312 METAPHYSICS 3 cr. 3 cl.

Sp-80 (H)

Prerequisite: PHI 317 or 318

Is Metaphysics Possible? Personal Identify Substance and Attributes, Universals and Particulars, Freedom of the Will, Mind and Body.

PHI 313 EPISTEMOLOGY 3 cr. 3 cl.

F-79 (H)

Prerequisite: PHI 317 or 318

Skepticism, Knowledge and Belief, Perception, Memory, Self-knowledge and Knowledge of Others, a Prior Knowledge.

PHI 315 EARLY MODERN PHILOSOPHY 3 cr. 3 cl.

F-80 (H)

Prerequisites: Two philosophy courses, one math or natural science or 200 Social Science. Philosophical systems of 14th, 15th, and 16th centuries are brought to bear upon emergence of 20th century technology, society and science. The shift from metaphysical perspectives of qualitative world to natural science perspectives based upon quantitative analysis of nature and reality.

PHI 316 EXISTENTIAL PHILOSOPHY (PHY 316) AND CONTEMPORARY PSYCHOLOGY 3 cr. 3 cl.

F-80 (H)

Prerequisite: PHI 101, 210, or 310

An examination of the "third force" movement in modern psychology with particular emphasis on its origins in phenomenology and existential philosophy. Philosophical and psychological literature, collectively described as humanistic and existential, will be explored and contrasted to competing models of philosophical and psychological inquiry.

PHI 317 THE HISTORY OF PHILOSOPHY I 3 cr. 3 cl.

F-79, F-80 (H)

Readings in selected original texts of the leading philosophers of ancient Greece and Rome, including such thinkers as Heraclitus, Parmenides, Plato, Socrates,

Aristotle, Epicurus. Three or four works will be read from a list composed of such works as Aristotles' Metaphysics and Nicomachean Ethics, and Plato's Republic, Thaetetus, and Parmenides.

PHI 318 THE HISTORY OF PHILOSOPHY II 3 cr. 3 cl.

Sp-80, Sp-81 (H)

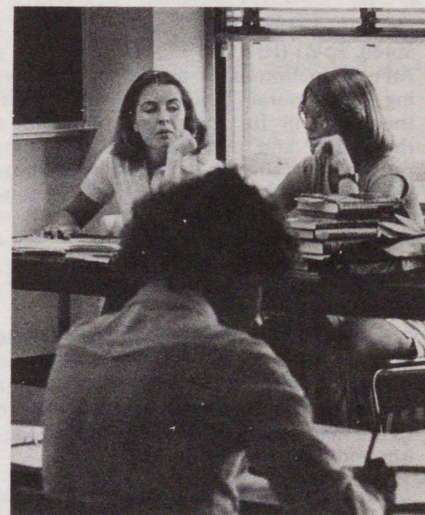
Readings in selected original texts from Hobbes, Locke, Berkeley, Hume, Descartes, Spinoza, Leibniz, Kant, and Hegel. Three or four works will be read from a list composed of such works as Descartes' Meditations, Humes' Enquiry Concerning the Human Understanding, and Kants' Prolegomena to any Future Metaphysics.

PHI 319 FIGURES IN EARLY CHRISTIAN PHILOSOPHY 3 cr. 3 cl.

F-80 (H)

This course is a study of the philosophical movements and themes which were an influence on and which were developed by the early Christian fathers of the Church. Special emphasis will be given to an examination of the original writings of such figures as Augustine, Boethius, John Scotus Erigena, Anselm, Aberlard, Bonaventure, Albertus Magnus, Thomas Aquinas, Duns Scotus, and Ockham.

(Continued p. 302)



PHI 320 CONTEMPORARY DEVELOPMENTS OF EARLY CHRISTIAN PHILOSOPHY
3 cr. 3 cl.

Sp-81 (H)

Prerequisite: One course in Philosophy

This course is a comparative study of certain fundamental philosophical problems as they were treated by philosophers of the early Christian Church and subsequently refined and developed by contemporary philosophers. Various epistemological, metaphysical, and theological problems will be among the issues selected for comparison and analysis.

PHI 321 WORLD RELIGIONS
3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (H)

Prerequisite: Junior or senior or one philosophy course. Philosophy—General Introduction to World Religion: The religious life of mankind, including the major Western and Eastern Religions.

PHI 322 INDIAN PHILOSOPHY
3 cr. 3 cl.

F-80 (H)

Prerequisite: Junior or senior or one philosophy course. A close examination of the nature and techniques of the various schools of philosophy in India. An examination of the major thinkers and theories from pre-historical foundations to contemporary developments.

PHI 323 ETHICS 3 cr. 3 cl.

Sp-80, Sp-81 (H)

An examination of the possibility of justifying our moral beliefs. Several moral theories will be examined on both a theoretical and practical level. Contemporary issues such as the morality of abortion and the equality of rights will be considered.

PHI 324 CHINESE AND JAPANESE PHILOSOPHY 3 cr. 3 cl.

F-79 (H)

Prerequisite: Junior or senior or one course in Philosophy. A close examination of the various philosophical traditions of China and Japan. Particular attention will be given to the major schools of Confucianism, Taoism and Zen.

PHI 325 PHILOSOPHY OF FUTURE MAN 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (H)

Prerequisite: Junior or senior or one Philosophy course. 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 the student to integrate his studies from other departments.

PHI 330 TWENTIETH CENTURY JEWISH PHILOSOPHY
3 cr. 3 cl.

Sp-81 (H)

Prerequisite: Junior or senior or one Philosophy course. Jewish Philosophy—Contemporary Jewish Philosophy: A survey of problems and thinkers indigenous to the 20th century and their particular reference to the Jewish community.

PHI 331 MORAL AND SOCIAL PROBLEMS OF JUDAISM
3 cr. 3 cl.

Sp-81 (H)

Prerequisite: Junior or senior or one Philosophy course. Basic ethical and social concerns in Rabbinic speculation and literature, with discussion centering on: Intention; Study vs. Practice; The Inclination-to-Evil; Repentance; Prayer and Faith; Justice; Work and Poverty; Suffering; Other-Worldliness; inter alia.

PHI 401 PROBLEM SEMINAR
3 cr. 3 cl.

Sp-80, F-80, Sp-81 (H)

Prerequisite: Consent of instructor. Intensive analysis of selected topics in philosophy.

PHI 402 SEMINAR IN PHILOSOPHY
3 cr. 3 cl.

Sp-80, F-80, Sp-81 (H)

PHI 495 PROJECT

PHI 499 INDEPENDENT STUDY

Physics

Offered by the Department of Geosciences, Physics, and Interdisciplinary Sciences
DR. ROBERT E. HORVAT, Chairperson
Science Building 271

The Physics area offers both courses of general interest such as PHY 100, PHY 103 and PHY 104 and courses for students who plan to major in science.

PHY 100 CURRENT TOPICS IN PHYSICS
3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (MS)

A one-semester, non-mathematical consideration of some current developments in physics and their relevance to society. Special Note: Designed for non-science majors. May not be substituted for PHY 101, 102, 111, 112.

PHY 101 GENERAL PHYSICS 3 cr. 4 cl.

F-79, Sp-80, F-80, Sp-81 (MS)

Mechanics, properties of matter, heat, wave motion, and sound; selection of laboratory experiences based on the student's curricular program.

PHY 102 GENERAL PHYSICS 3 cr. 4 cl.

F-79, Sp-80, F-80, Sp-81 (MS)

Prerequisite: PHY 101 or equivalent. Light, electricity, and magnetism, atomic physics; selection of laboratory experiences based on the student's curricular program.

PHY 103 UNDERSTANDING SOUND
3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (MS)

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. Special Note: Designed for non-science majors. May not be substituted for PHY 101, 102, 111, 112.

PHY 104 UNDERSTANDING LIGHT
3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (MS)

A one-semester non-mathematical consideration of light, color illumination and optics. Quality of illumination, images and distortions in the eye and camera, color processes, pigments and films, and other topics related to interaction of the individual and visual environment. Special Note: Designed for non-science majors. May not be substituted for PHY 101, 102, 111, 112.

PHY 109 INTRODUCTORY BIOPHYSICS I
4 cr. 5 cl.

F-80 (MS)

Basic mechanics with applications to biological systems and problems.

PHY 110 INTRODUCTORY BIOPHYSICS II 4 cr. 5 cl.

Sp-81 (MS)

Prerequisite: PHY 109 or equivalent

Electricity and magnetism, optics and modern physics with special emphasis on topics of interest to students in biology and health sciences.

PHY 111 GENERAL PHYSICS 4 cr. 5 cl.

F-79, Sp-80, F-80, Sp-81 (MS)

Mechanics, heat, wave motion, and sound. A rigorous treatment for science majors.

PHY 112 GENERAL PHYSICS 4 cr. 5 cl.

F-79, Sp-80, F-80, Sp-81 (MS)

Prerequisite: PHY 111

Electricity, magnetism, light, and modern physics.

PHY 201 ELECTRONICS 3 cr. 4 cl.

F-79, F-80 (MS)

Prerequisites: PHY 111-112 or equivalent

Electronics principles of scientific instrumentation. Semi-conductors, digital and analog instrumentation.

PHY 303 HEAT AND THERMODYNAMICS 3 cr. 3 cl.

Sp-81 (MS)

Prerequisites: PHY 111-112 or equivalent, and calculus. Transfer, emission, absorp-

(Continued p. 304)

tion, reflection of heat; thermodynamics; isothermal and adiabatic processes; heat engines.

PHY 305 MODERN ATOMIC PHYSICS
4 cr. 4 cl.

F-79, F-80 (MS)

Prerequisites: PHY 111-112 or equivalent, and calculus. The electron and its properties as shown by experiments; the Bohr-Rutherford theory and atomic spectra; qualitative concepts of the quantum theory; selected topics from nuclear physics; the special theory of relativity.

PHY 308 OPTICS 3 cr. 3 cl.

Sp-80 (MS)

Prerequisites: PHY 111-112 or equivalent, and calculus. Fundamentals of geometrical and physical optics, the nature and propagation of light; experiences with interference, diffraction, polarization; and double refraction.

PHY 351 THE PHYSICS OF ENERGY AND ENVIRONMENT 3 cr. 3 cl.

Sp-80 (MS)

Prerequisite: Junior standing

A study of energy and the environment. Energy utilization, environmental impact and safety. Present and proposed methods for utilization of large scale energy resources. (Not for major credit in physics).

PHY 403 X-RAYS 3 cr. 3 cl.

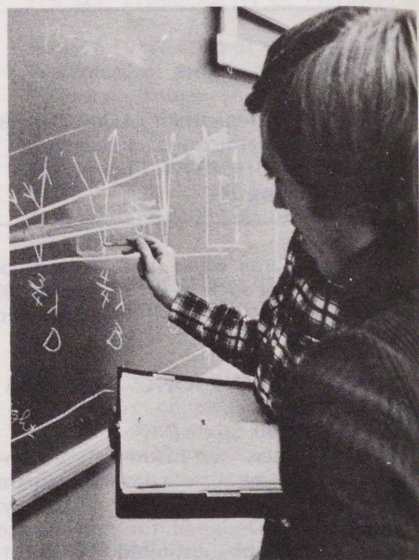
Sp-81 (MS)

Prerequisites: 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 cr. 3 cl.

F-79, F-80 (MS)

Prerequisites: PHY 305; PHY 420 or equivalent. Introduction to the methods of quantum mechanics with selected examples from one-dimensional problems, from atomic systems, and from quantum statistics.



PHY 408 NUCLEAR PHYSICS 3 cr. 3 cl.

Sp-80 (MS)

Prerequisites: PHY 111-112; PHY 420 or equivalent. The basic properties of nucleons and nuclei, radioactivity, nuclear models, the interaction of nuclear radiation with matter, nuclear reactions, the operation of particle accelerators, and an introduction to high energy physics.

PHY 410 ADVANCED PHYSICS LABORATORY 3 cr. 6 cl.

Sp-80, Sp-81 (MS)

Prerequisites: PHY 111-112 or equivalent. Selected classical experiments chosen from the area of mechanics, heat, sound, light, electricity and magnetism, and modern physics. May be repeated for a maximum of nine credit hours.

PHY 411 INTRODUCTION TO SOLID STATE PHYSICS 3 cr. 3 cl.

Sp-81 (MS)

Prerequisites: PHY 111-112; PHY 420 or equivalent. Theory of the structure of solids; thermal, magnetic and dielectric properties of matter in the solid state; specific heats, band theory, superconductivity.

PHY 412 PHYSICS SEMINAR
1 or 3 cr. 1 or 3 cl.

F-79, Sp-80 (MS)

Readings, reports and discussion of current problems and research in physics or the teaching of physics.

PHY 420 INTRODUCTION TO THEORETICAL PHYSICS
4 cr. 4 cl.

Sp-80, Sp-81 (MS)

Prerequisite: PHY 111-112; MAT 162 or equivalent. Various introductory topics in theoretical physics; use of vector analysis, ordinary differential equations, and partial differential equations in numerous problems in circuit theory, classical mechanics, acoustics and electromagnetic theory.

PHY 425 CLASSICAL MECHANICS
4 cr. 4 cl.

F-79 (MS)

Prerequisite: PHY 111-112; PHY 420 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, virtual work and introduction to mechanics in generalized coordinates.

PHY 430 ELECTRICITY AND MAGNETISM
3 cr. 3 cl.

F-80 (MS)

Prerequisites: PHY 111-112; PHY 420; MAT 263 or equivalent. The interactions of electric charges and currents in electric and magnetic phenomena. The fundamental theory and application to physical systems will be considered with an introduction to Maxwell's equations.

PHY 495 PROJECT 1-3 cr. 2-6 cl.

F-79, Sp-80, F-80, Sp-81. Summers. (MS)

Prerequisite: Approval of a faculty sponsor must be secured prior to registration. Energy and other physics related areas.

PHY 499 INDEPENDENT STUDY
3-6 cr. 6-12 cl.

F-79, Sp-80, F-80, Sp-81. Summers. (MS)

Prerequisite: Approval of a faculty sponsor must be secured prior to registration. Energy and other physics related areas.

Polish

Offered by the Department of Foreign Language
DR. GISELE FEAL, Chairperson
Bishop Hall 121

POL 101 ELEMENTARY POLISH
3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (H)

Fundamentals of Polish with emphasis upon speaking.

POL 102 ELEMENTARY POLISH
3 cr. 3 cl.

Sp-80, Sp-81 (H)

Prerequisite: POL 101 or equivalent
Continuation of POL 101.

POL 334 POLISH LITERATURE (ENG 334) IN TRANSLATION 3 cr. 3 cl.

F-79, F-80 (H)

Prerequisite: A basic literature course 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 audio-visual material. Knowledge of Polish not required.

POL 339 MODERN POLISH (ENG 339) LITERATURE IN TRANSLATION 3 cr. 3 cl.

Sp-80, Sp-81 (H)

Prerequisite: A basic literature course or POL 334 or permission of instructor. Selected masterpieces of Polish literature and culture from 1863 to the present, novels, short stories, drama and poetry, and their relationship to Western European literature. Knowledge of Polish not required.

Political Science

Offered by the Department of Economics & Political Science
DR. RICHARD J. KIEFFER, Chairperson
Classroom Building B218

PSC 101 INTRODUCTION TO GOVERNMENT AND POLITICS 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (SS)
Survey of the nature and scope of Political Science; ideological foundations of politics; comparative study of the governments of constitutional, totalitarian and developing systems; the dynamics of politics and the functions of political institutions.

PSC 103 AMERICAN POLITICAL INSTITUTIONS AND PROBLEMS 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (SS)
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 103 required of Second-year Social Studies majors.

PSC 105 GREAT POLITICAL ISSUES 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (SS)
Examination of some of the great political issues such as ideology, freedom, equality, political obligation, civil disobedience, law and morality.

PSC 200 URBAN GOVERNMENT 3 cr. 3 cl.

S-80, S-81 (SS)
An introduction to the political economy of urban areas in the 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 201 PRINCIPLES AND PROBLEMS OF INTERNATIONAL RELATIONS 3 cr. 3 cl.

F-79, F-80 (SS)
Elements of national power, regional and global balance of power and collective security systems, instruments of international politics—diplomacy, propaganda and war, forces of nationalism.

PSC 202 TOPICS IN POLITICAL SCIENCE 3 cr. 3 cl.

An analysis of several major contemporary problems. Emphasis is placed on the relationships between politics and various institutions. Topics include: Power, influence, and effects of political institutions on society.

PSC 210 EUROPEAN POLITICAL SYSTEMS 3 cr. 3 cl.

F-79; F-80 (SS)
Study of the structure and dynamics of politics in the major European countries with emphasis on political behavior and political process of decision making.

PSC 215 THE AMERICAN PRESIDENCY 3 cr. 3 cl.

S-80, S-81 (SS)
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 quarter of the 20th century.

PSC 300 POLITICAL ANALYSIS 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81
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. This course is required of all political science majors.

PSC 303 NEW DIMENSIONS IN POLITICAL SCIENCE 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81
In-depth study of current issues of substantial political significance. Several sections may be offered each semester. The nature of the topic will vary from semester to semester. Recent examples: Politics of Tax

Revolt, Politics of Terror, Sexual Politics. Students should consult current course listing for specific offering.

PSC 304 PUBLIC ADMINISTRATION 3 cr. 3 cl.

Sp-80, Sp-81
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 administration.

PSC 305 STATE AND LOCAL GOVERNMENT 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (SS)
Functions of state and local governments; constitutional and governmental structures; intergovernmental relations; decision-making; effects of metropolitanization; contemporary issues and problems, future trends and prospects.

PSC 306 AMERICAN POLITICS AND POLITICAL PARTIES 3 cr. 3 cl.

F-79; F-80 (SS)
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 307 AMERICAN FOREIGN POLICY 3 cr. 3 cl.

Sp-80; Sp-81 (SS)
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 312 POLITICS OF DEVELOPING COUNTRIES 3 cr. 3 cl.

Sp-80; Sp-81 (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 313 POLITICS AND HISTORY OF (HIS 313) THE MIDDLE EAST 3 cr. 3 cl.

F-79; Sp-81 (SS)
Analysis of the geographic, cultural and political settings; historical development since 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 interarea politics.

PSC 314 INTERNATIONAL RELATIONS OF THE MIDDLE EAST 3 cr. 3 cl.

F-79 (SS)
Study of the patterns of interactions 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 316 THE DEVELOPMENT OF AMERICAN CONSTITUTIONAL LAW 3 cr. 3 cl.

F-80 (SS)
Foundations of American constitutionalism; judicial review and its use through history; the Supreme Court in interaction with Congress, President, and (Continued p. 308)

States; evolving concepts of Federalism; development of civil rights and liberties policies.

PSC 317 U.S. CONSTITUTION AND (CRJ 317) CIVIL LIBERTIES 3 cr. 3 cl.

Sp-80, Sp-81 (SS)

In-depth study of the legal principles influencing the origin and development of our criminal laws and the way, that over the years, these principles have evolved by court interpretation to accommodate social change and attitudes. The Bill of Rights and "due process" clause of the United States Constitution will be the focal point of this course. Classification: Alternate course selection to PSC 408, Contemporary Issues in American Constitutional Law for Criminal Justice majors.

PSC 318 GOVERNMENT AND POLITICS OF THE FAR EAST 3 cr. 3 cl.

(SS)

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.

PSC 320 LEGISLATIVE PROCESS 3 cr. 3 cl.

Sp-80, Sp-81 (SS)

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. Classification: Elective.

PSC 324 INTRODUCTION TO LEGAL THOUGHT 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81

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 325 POLITICAL THOUGHT: PLATO TO AQUINAS 3 cr. 3 cl.

Sp-80 (SS)

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 326 POLITICAL THOUGHT: MACHIAVELLI TO MARX 3 cr. 3 cl.

F-80 (SS)

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 333 PRACTICAL POLITICS 3 cr. 3 cl.

A non-classroom structured activity which allows students to receive college credit while participating in 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 350 AMERICAN PUBLIC POLICY 3 cr. 3 cl.

Sp-80, Sp-81 (SS)

An examination of governmental policy with emphasis on the sources of policy, the policymaking process in national level political institutions, and the social impact of policy choices.

PSC 404 CONTEMPORARY POLITICAL THOUGHT 3 cr. 3 cl.

F-79, F-80 (SS)

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 406 POLITICAL BEHAVIOR AND (SOC 406) PUBLIC OPINION 3 cr. 3 cl.

Sp-81 (SS)

Conditions of democratic political behavior; opinion formation 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 408 CONTEMPORARY ISSUES IN AMERICAN CONSTITUTIONAL LAW 3 cr. 3 cl.

F-79, Sp-81 (SS)

Examination of recent developments in American Constitutional Law; comparison of the Warren and Burger 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 470 HONORS SEMINAR IN POLITICAL SCIENCE 3 cr. 3 cl.

Sp-80, Sp-81 (SS)

Selected topics in political science will be examined and analyzed in depth. Each student will prepare a special project or engage in off-campus study.

PSC 497 WASHINGTON SEMESTER (Daily) 15 cr.

F-79, Sp-80, F-80, Sp-81

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 class work, seminars and internship work. Selection is based on college wide competition. Interested students should contact the chairman of the department for information and appropriate application forms.

Psychology

Offered by the Department of Psychology
DR. JERRY F. CATALDO, Chairperson
Classroom Building C312

The Department of Psychology offers B.A. and B.S. Degrees. Psychology 101 is a prerequisite for all other psychology courses.

PSY 101 INTRODUCTION TO PSYCHOLOGY 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (SS)

The objective of this course is to introduce students to the scientific study of psychology. Topics include research methodology, genetic and environmental influences on the development of behavior, perception, learning, motivation and emotion, personality, social processes, and psychopathology. Required of all psychology majors and all IAE students.

(Continued p. 310)



PSY 202 SPECIAL TOPICS SEMINAR
3 cr. 3 cl.

Sp-80, Sp-81 (SS)

Prerequisites: PSY 101 and permission of instructor. This is a general seminar open to psychology majors and to non-majors. The specific area(s) of psychology selected for study varies from one seminar course to another. Topics to be covered are announced prior to student registration. Coursework involves the basic theoretical principles and empirical research of different content areas.

PSY 205 INDEPENDENT READING
1 cr. 1 cl.

F-79, Sp-80, F-80, Sp-81 (SS)

Prerequisites: PSY 101 and permission of instructor. Supervised readings project on a specific topic in psychology to be chosen by mutual agreement of student and faculty supervisor at time of registration.

PSY 206 STATISTICS IN PSYCHOLOGICAL RESEARCH
3 cr. 4 cl.

F-79, Sp-80, F-80, Sp-81 (SS)

Prerequisite: PSY 101

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 tubular presentation of data, measures of central tendency and dispersion, probability theory, t-tests, analysis of variance, chi-square, correlational techniques, and experimental design. Required of all psychology majors.

PSY 207 INDEPENDENT RESEARCH
1 cr. 1 cl.

F-79, Sp-80, F-80, Sp-81 (SS)

Prerequisites: PSY 101 and permission of instructor. Supervised research of an experimental or observational nature to be chosen by mutual agreement of the student and supervising faculty member at time of registration.

PSY 304 PSYCHOLOGY OF LEARNING
3 cr. 4 cl.

F-79, Sp-80, F-80, Sp-81 (SS)

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 physiological correlates of learning and memory, empirical laws of learning derived from research on humans and animals, and theoretical explanations of the learning process.

PSY 308 BASIC CONCEPTS OF PERCEPTION 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (SS)

Prerequisite: PSY 101

This course covers the major facts of perceptual functioning, from sensory processes to complex perceptual integrative processes. Emphasis on basic concepts concerning topics such as physiological correlates of perception, empirical laws and principles, theoretical explanation of perceptual processes and their determinants.

PSY 310 BEHAVIOR MODIFICATION I
3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (SS)

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. Required of psychology majors with specialization in Behavior Modification.

PSY 311 PERSONALITY: THEORY AND RESEARCH 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (SS)

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 will include problems of theory development and evaluation; major theoretical approaches, and personality determinants. Empirical research will be discussed.

PSY 316 EXISTENTIAL PHILOSOPHY (PHI) 316) AND CONTEMPORARY PSYCHOLOGY 3 cr. 3 cl.

Sp-81 (SS, H)

Prerequisites: PSY 101, one course in philosophy, plus 42 additional college

credits. An examination of the phenomenological and existential movement in contemporary psychology with emphasis on philosophical origin and developments. Philosophical and psychological literature, collectively described as humanistic and existential will be explored and contrasted to competing models of philosophical and psychological inquiry. Classification: Elective.

PSY 321 COMPARATIVE ANIMAL PSYCHOLOGY 3 cr. 3 cl.

F-79, F-80 (SS)

Prerequisites: PSY 101; BIO 116 also recommended. The study of animal behavior as viewed from a psychological perspective. Emphasis is placed on current theoretical models of animal behavior. Topics will 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 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (SS)

Prerequisite: PSY 101

A theoretical and empirical examination of the role of social factors in the individual's behavior. Topics include theory and research on attitude formation and change, affiliation, the attribution process, interpersonal attraction, small group dynamics, aggression, conformity, leadership and competition.

PSY 327 ADULT DEVELOPMENT AND AGING I 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (SS)

Prerequisite: PSY 101

An introduction to how humans develop and change throughout young adulthood, middle adulthood and old age. Current psychological theory and empirical evidence concerning patterns of aging, problems of aging and benefits of aging will be considered. Topics include social, psychological and biological determinants of adult development, cognitive change, personality change, family relations, life satisfaction, and the stigma of old age. Required of majors with specialization in Psychology of Aging.

PSY 355 LIFE-SPAN DEVELOPMENTAL PSYCHOLOGY 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (SS)

Prerequisite: PSY 101

Examines the psychological, social and biological factors that affect psychological development throughout the lifespan from the prenatal infant to the elderly adult. Topics covered include cognitive development, language acquisition, formation of sex roles, development of personality, emotion, and morality, and the stages of the life span.

PSY 365 INDUSTRIAL PSYCHOLOGY
3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (SS)

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 in influencing productivity, leadership and organizational theory are also considered. Required of INT majors.

PSY 368 PSYCHOLOGY OF DEATH AND DYING 3 cr. 3 cl.

Sp-80, Sp-81 (SS)

Prerequisites: Psychology 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 to be covered will include the stages of dying, counseling the dying person, attitudes and reactions to death, psychological needs served by funeral and burial rituals, suicide, euthanasia, the right to die, grief and bereavement.

PSY 370 ENVIRONMENTAL PSYCHOLOGY I 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (SS)

Prerequisite: PSY 101

An introduction to the study of Environmental Psychology. The course examines major features of the role of the physical environment in behavior. Topics covered include: theories of physical environment-behavior relations; research methods; territoriality; privacy; crowding; (Continued p. 312)

environmental perception and attitudes; pollution and behavior; buildings and behavior. Required of psychology majors with specialization in Environmental Psychology.

PSY 382 PSYCHOLOGY OF THE CONSUMER 3 cr. 3 cl.

Sp-80, Sp-81 (SS)

Prerequisites: PSY 101 and 42 additional college credits. An introduction to the field 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 cr. 3 cl.

F-70, F-80, (SS)

Prerequisites: Psychology 101 plus 42 additional college credits. This course will focus on the psychosexual aspects of human sexuality. Topics include: historical views of human sexuality; sex research; gender identity and role; early learning of sexuality; heterosexuality; homosexuality and bisexuality; ways of sex; social and legal issues of sex; portrayal and handling of sex in the media; sexual difficulties; and future trends of sexuality.



PSY 387 PSYCHOLOGY OF WOMEN 3 cr. 3 cl.

F-79, F-80 (SS)

Prerequisites: PSY 101 and 42 additional college credits. This course focuses on the empirical and theoretical issues related to the psychology of women. Topics covered include the biological basis 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 391 PSYCHOLOGY OF CONSCIOUSNESS 3 cr. 3 cl.

Sp-80, Sp-81 (SS)

Prerequisites: Nine hours of Psychology including PSY 101; PSY 347— AND Biology 101 recommended. An intensive survey of the experimental literature of psychological research and theory in the study of human consciousness and self-regulation. Topics covered include: the human brain; two modes of consciousness; temporal dimensions of consciousness; sleep and dreaming; self-regulation; hypnosis; drug-induced subjective states; and meditation.

PSY 404 THEORIES OF LEARNING 3 cr. 3 cl.

F-79, F-80 (SS)

Prerequisites: Nine hours of psychology including PSY 304. An in-depth examination of the major theoretical interpretations of learning. Topics discussed include the history and development of learning theories, cognitive versus S-R explanations, and recent mathematical, neurophysiological and information processing models.

PSY 410 BEHAVIOR MODIFICATION II 3 cr. 3 cl.

Sp-80, Sp-81 (SS)

Prerequisites: PSY 310 and permission of instructor. This course covers the ethical, legal, and practical issues involved in behavior modification. It provides role-played and actual experiences in applying methods of behavior change and control. Students are required to apply behavior modification techniques and to evaluate and report the outcomes of such applications. Required of majors with specialization in Behavior Modification.

PSY 411 ABNORMAL BEHAVIOR 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (SS)

Prerequisite: PSY 311

This course will examine the dimensions, theories, and empirical findings in psychopathology. Topics covered will include the concept of abnormality, problems and schemes of classification, theories of neurosis and psychosis, etiology, classification, and treatment of selected neurotic and psychotic disorders.

PSY 415 COMPETENT INFANT 3 cr. 3 cl.

F-79, F-80, (SS)

Prerequisite: PSY 355

An examination of the psychological world of the human infant. Topics covered will 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; theoretical models of early development.

PSY 416 ABNORMAL CHILD PSYCHOLOGY 3 cr. 3 cl.

Sp-81 (SS)

Prerequisite: Nine hours of psychology including PSY 355. PSY 411 recommended. The course will focus on the significant issues and problems related to child psychopathology. Topics covered will 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 421 PHYSIOLOGICAL PSYCHOLOGY 3 cr. 4 cl.

Sp-80, Sp-81 (SS)

Prerequisites: PSY 101 and 12 additional hours of psychology and/or biology. This course presents 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 cr. 3 cl.

F-79, F-80, (SS)

Prerequisites: 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. Required of majors with specialization in the Psychology of Aging.

PSY 430 PSYCHOLINGUISTICS: LANGUAGE STRUCTURES AND PROCESSES 3 cr. 3 cl.

F-79, F-80 (SS)

Prerequisites: Nine hours of psychology including PSY 101, PSY 308; PSY 304 recommended. This course is a systematic coverage of theoretical and empirical literature regarding human language processes. Topics include animal versus human communication, speech production, speech perception, language acquisition grammar, sentence production and comprehension, and the relationship between language and cognition. This course will integrate language processes into general framework of cognitive psychology.

PSY 432 HUMAN MOTIVATION AND EMOTION 3 cr. 3 cl.

F-79, F-80 (SS)

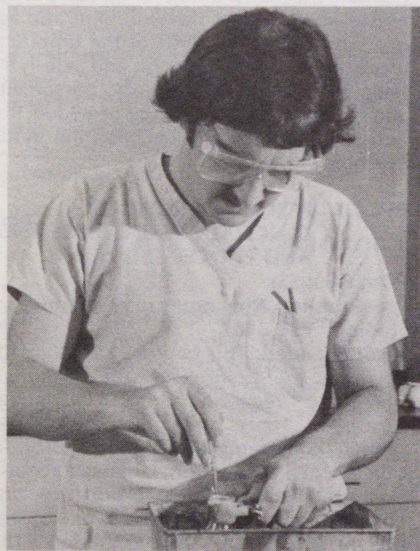
Prerequisites: Nine hours of psychology including PSY 304. This course examines the concept of motivation and considers the fundamental empirical and logical basis for its postulation and its use in psychological explanations of animal and human behavior. Emphasis is placed on what determines motives and how motivational processes interact with other psychological processes.

(Continued p. 314)

PSY 445 HISTORY AND SYSTEMS OF PSYCHOLOGY 3 cr. 3 cl.

Sp-80, Sp-81 (SS)

Prerequisites: 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 cr. 4 cl.**

F-79, Sp-80, F-80, Sp-81 (SS)

Prerequisites: Nine hours of psychology including PSY 206. An introduction to laboratory investigation in behavioral science. Topics 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 of all Psychology majors.

PSY 453 EXPERIMENTAL PSYCHOLOGY II: METHODS IN SOCIAL PSYCHOLOGY 3 cr. 4 cl.

Sp-80, Sp-81 (SS)

Prerequisites: 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 will include artifacts in social psychological research, the rights of subjects and responsibilities of experimenters, and the problem of generalizing results to the "real" world. Students will be required to complete at least five research exercises and reports, including formulation of at least one original experimental design. May be used to meet Experimental Psychology II requirement for Psychology majors.

PSY 454 EXPERIMENTAL PSYCHOLOGY II: METHODS IN PHYSIOLOGICAL AND COMPARATIVE PSYCHOLOGY 3 cr. 4 cl.

F-80 (SS)

Prerequisites: PSY 450; PSY 321 or PSY 421 recommended. A continuation of PSY 450, focuses on the research methods used in comparative and physiological psychology. Includes principles of behavioral observations, quantification of behavior, methods employed in the investigation of the nervous system, surgical and histological techniques, and the application of physiological methods in the understanding of behavior. Students will be required to complete at least five research exercises and reports, including the formulation of at least one original experimental design. May be used to meet the Experimental Psychology II requirement for majors.

PSY 455 EXPERIMENTAL PSYCHOLOGY II: METHODS IN VERBAL LEARNING AND VERBAL BEHAVIOR 3 cr. 4 cl.

Sp-81 (SS)

Prerequisites: PSY 450; PSY 304 recommended. A continuation of PSY 450, focuses on the research methods used in studying verbal learning and verbal behavior. Includes variables affecting learn-

ing and retention, forms of transfer of training, the role of mediation in cognition, and verbal conditioning in human and non-human species. Students will be required to complete at least five research exercises and reports including the formulation of at least one original experimental design. May be used to meet the Experimental Psychology II requirement for Psychology majors.

PSY 456 EXPERIMENTAL PSYCHOLOGY II: METHODS IN COGNITION AND PERCEPTION 3 cr. 4 cl.

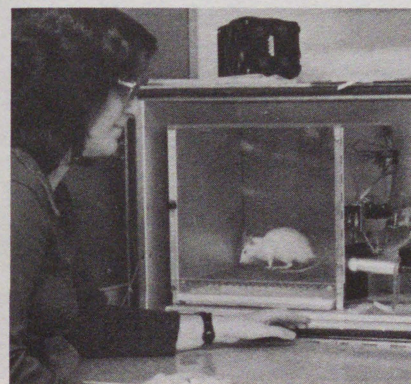
Sp-80 (SS)

Prerequisites: PSY 450; PSY 308 and 340 recommended. This course is a continuation of PSY 450 and focuses on the research methods used in cognition and perception. Topics covered will include classical psychophysical methods, recent developments in cognition, and audition, with emphasis being placed on the visual modality. Students will be required to complete at least five research exercises and reports including the formulation of at least one original experimental design. May be used to meet the Experimental Psychology II requirement for majors.

PSY 457 EXPERIMENTAL PSYCHOLOGY II: METHODS IN CLINICAL PSYCHOLOGY 3 cr. 4 cl.

F-79, F-80 (SS)

Prerequisites: PSY 450; PSY 411 recommended. A continuation of PSY 450, focuses on methods and analyses of data



used in clinical research. Includes 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, genetic and physiological techniques. Students will be required to complete at least five research exercises and reports including the formulation of at least one original experimental design. May be used to meet the Experimental Psychology II requirement for Psychology majors.

PSY 458 EXPERIMENTAL PSYCHOLOGY II: METHODS IN DEVELOPMENTAL PSYCHOLOGY 3 cr. 4 cl.

F-79, F-80 (SS)

Prerequisites: 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 will 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 five research exercises including one original experimental design. May be used to meet the Experimental Psychology II requirement for Psychology majors.

PSY 470 ENVIRONMENTAL (ENS 370) PSYCHOLOGY II 3 cr. 3 cl.

F-79, F-80 (SS)

Prerequisites: PSY 370 and permission of instructor; BIO 315 or SCI 321 recommended. This course is a continuation of PSY 370. It will examine many of the same issues but at a considerably advanced level. Topics covered will include: Theory building in the study of physical environmental behavior relations; innovative and unobtrusive measures; individual human needs in the physical environment; basic processes and their relationship to the physical environment. Required of psychology majors with specialization in Environmental Psychology.

(Continued p. 316)

PSY 472 SEMINAR ON PSYCHOLOGY
3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (SS)

Prerequisites: Experimental Psychology II or 15 hours in psychology; permission of 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 for Psychology majors.

PSY 481 PSYCHOLOGICAL TESTS AND MEASUREMENTS 3 cr. 3 cl.

Sp-80, Sp-81 (SS)

Prerequisites: Nine hours of Psychology including PSY 206. This course will discuss many of the issues and problems surrounding psychological testing. Topics to be discussed include: test reliability, validity, construction, administration, norms and interpretation. Examination of the most commonly used intelligence, personality and other psychological tests. Limited practicum experiences are also provided.

PSY 495 PROJECT

F-79, Sp-80, F-80, Sp-81 (SS)

Prerequisites: Approval of the faculty supervisor must be obtained prior to registration.

**PSY 496 HONORS THESIS I**

F-79, Sp-80, F-80, Sp-81 (SS)

Prerequisites: PSY 450, 72 additional hours of college credit, and permission of instructor. 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 area of interest and will present a formal research proposal (oral and written) to their supervisor and honors thesis committee. Any necessary pilot research will also be carried out. Required of students in the departmental honors major.

PSY 498 HONORS THESIS II

F-79, Sp-80, F-80, Sp-81 (SS)

Prerequisites: PSY 496 with a minimum grade of B and permission of instructor. 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 work before his faculty supervisor, thesis committee, and interested faculty members. Required for students in the departmental honors major.

PSY 499 INDEPENDENT STUDY

F-79, Sp-80, F-80, Sp-81 (SS)

Prerequisite: Approval of faculty advisor must be secured prior to registration.

Recreation

Offered by the Department of Health, Physical Education & Recreation
DR. FLORENCE M. HULETT, Chairperson
Gym 204

REC 204 PRINCIPLES AND PRACTICES RECREATION LEADERSHIP
3 cr. 3 cl.

Sp-81 (R)

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 cr. 3 cl.

F-79, F-80 (R)

Prerequisite: Sophomore standing

A critical analysis of the organization and administration of Intramural Sports Programs.

REC 495 PROJECT**REC 499 INDEPENDENT STUDY**

Russian

Offered by the Department of Foreign Language
DR. GISELE FEAL, Chairperson
Bishop Hall 121

RUS 101 ELEMENTARY RUSSIAN
3 cr. 3 cl.

F-79, F-80 (H)

Fundamentals of Russian with emphasis upon speaking and writing.

RUS 102 ELEMENTARY RUSSIAN
3 cr. 3 cl.

Sp-80, Sp-81 (H)

Prerequisite: RUS 101 or equivalent
Continuation of RUS 101.

RUS 332 RUSSIAN LITERATURE (ENG 332) IN TRANSLATION 3 cr. 3 cl.

F-79, F-80 (H)

Prerequisite: A basic literature course or permission of the instructor. Such writers as Gogol, Pushkin, Turgenev, Goncharov, Tolstoy, Dostoyevsky, Chekhov, etc.; relationships to western European literature. Knowledge of Russian not required.

RUS 338 RUSSIAN LITERATURE SINCE (ENG 338) THE REVOLUTION IN TRANSLATION 3 cr. 3 cl.

F-79, F-80 (H)

Prerequisite: A basic literature course or permission of the 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.

Note: Further study of Polish and Russian at the 201 level and beyond is available under FLA 499, Independent Study.

Safety Studies

Offered by the Department of Technology
DR. MYRON E. LEWIS, Chairperson
Upton Hall 502

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. A program with an Emphasis in Safety is available to Industrial Technology Majors.

SAF 300 THE HIGHWAY TRANSPORTATION SYSTEM 3 cr. 2 cl. 1 la.

Sp-80, Sp-81

Prerequisite: New York 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 320 PRODUCT SAFETY 3 cr. 3 cl.

Sp-80, Sp-81 (R)

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 cr. 3 cl.

Sp-80, Sp-81

An analysis of hazards in the workplace 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 cr. 3 cl.

F-79, F-80

A study of human and environmental factors affecting community safety; accident prevention and control principles; agencies and organization; 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 minor.

SAF 400 FUNDAMENTALS OF SAFETY 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (R)

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 first aid.

SAF 417 DRIVER EDUCATION AND TRAFFIC SAFETY I 3 cr. 2 cl. 2 la.

F-79, Sp-80, F-80, Sp-81

Prerequisite: New York State driver's license (a licensed operator for at least two years). First of two courses to be taken in sequence for provisional approval of Driver Education instructors in New York State: behind the wheel instruction; traffic and pedestrian safety; psycho-physical testing; traffic law; accident statistics; accident prevention techniques; traffic engineering; negligence and liability; insurance interpretation; effects of alcohol; automobile preventative maintenance; devices and aids in teaching. Required to teach high school Driver Education.

SAF 418 LEARNING TO DRIVE 0 cr. 2 cl. 2 la.

F-79, F-80

Prerequisite: New York State learner's permit, at least 18 years of age. Behind the wheel and classroom instruction, taught by upper-class college students in a supervised program of practice teaching. Course very closely parallels the high school driver education course in content and methods employed in instruction. Two periods classroom and two periods car instruction each

week. Available for students who do not have an operator's license, and who are at least 18 years old.

SAF 426 DRIVER EDUCATION AND TRAFFIC SAFETY II 3 cr. 2 cl. 2 la.

F-79, Sp-80, F-80, Sp-81

Prerequisite: SAF 417 completed within the previous two years. Second course in sequence for Driver Education teacher preparation; classroom and in the car practice teaching; organization and administration of high school Driver Education program; instructional techniques and methods; equipment, materials and facilities; public relations. Required to teach high school Driver Education.

SAF 430 FUNDAMENTALS OF INDUSTRIAL ACCIDENT PREVENTION 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81

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 industrial technology majors.

SAF 431 ORGANIZATION, ADMINISTRATION AND SUPERVISION OF INDUSTRIAL ACCIDENT PREVENTION PROGRAMS 3 cr. 3 cl.

F-79, F-80

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 cr. 3 cl.

Sp-80, Sp-81

A study of the various fleet management techniques and their application. Includes the scope and functions of the motor fleet safety supervisor; federal, state and local laws and regulations; selection and maintenance of equipment; customs and public relations.



Social Studies Education

Offered by the Department of History & Social Studies Education
DR. DONALD D. LEOPARD, Chairperson
Classroom Building 205

SST 102 PROBLEM-SOLVING IN THE SOCIAL STUDIES 3 cr. 3 cl.

F-79, F-80 (SS)
The methods of interdisciplinary problem-solving and emphasis upon the application of the method to selected contemporary problems.

SST 200 SED 250 FIELD EXPERIENCE IN SECONDARY SOCIAL STUDIES 3 cr. 3 cl.

F-79, F-80 (R)
The course will provide 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. Should be taken by Social Studies Education majors.

SST 303 SECONDARY SOCIAL STUDIES SEMINAR 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81
Prerequisite: Six (6) hours in professional education courses. Attention focuses on the problems of the teacher, methods of analyzing classroom behavior, techniques of teaching and self-evaluation of teaching practices. To be taken concurrently with SSE 409, Social Studies Student Teaching Practicum.

SSE 309 TEACHING SECONDARY SOCIAL STUDIES 3 cr. 4 cl.

F-79, Sp-80, F-80, Sp-81
Prerequisite: EDU 303, 353; cumulative average of 2.00 or higher; approval by the Coordinator of Social Studies Education. Selecting, organizing and presenting curriculum materials; teacher-pupil

relationships; evaluating pupil progress; introduction to classroom teaching. Required of juniors and seniors majoring in Secondary Social Studies.

SST 355 SOCIAL STUDIES SEMINAR IN CONFLICT RESOLUTION 3 cr. 3 cl.

Sp-80, Sp-81 (SS)
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 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81
Prerequisites: EDU 210 and EDU 352. To help the student to utilize more effectively 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 PRACTICUM IN THE TEACHING OF SOCIAL STUDIES IN THE SECONDARY SCHOOL 12 cr. 30 cl.

F-79, Sp-80, F-80, Sp-81
Prerequisite: SSE 309; grade of "C" or higher in SSE 309; cumulative and previous semester average of "C" or higher; a better than "C" average (higher than 2.00) in the academic area of major study is a prerequisite for student teaching and also for graduation; passing grade in ENG 101-102, or equivalent; if referred, satisfactory completion or exemption from EXE 100, Student Speech Clinic; approval by the Coordinator of Social Studies. 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 SEMINAR IN INTERDISCIPLINARY SOCIAL STUDIES METHODS 3 cr. 3 cl.

F-79, F-80, Sp-81 (SS)
Prerequisites: 9 credits in the Social Sciences. A study of the nature of interdisciplinary research, the design, fielding and analysis of social surveys.

SSE 495 PROJECT

SST 499 INDEPENDENT STUDY

Sociology

Offered by the Department of Geography & Sociology
DR. RAYMOND W. WAXMONSKY,
Chairperson
Classroom Building A213

SOC 101 INTRODUCTION TO SOCIOLOGY 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (SS)
An introduction to the study of human society, its culture, social structure, institutions, processes, and change, including an examination of socialization, relationships between and among individuals and groups in society. Required of all sociology majors. This course or its equivalent is a prerequisite for all other undergraduate courses in Sociology. Students who have received credit for SOC-ANT 101 (ANT-SOC 101), SS 101, or an equivalent introductory sociology course elsewhere, cannot receive credit for this course.

SOC 202 ANALYZING SOCIAL PROBLEMS 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (SS)
Prerequisite: SOC 101
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 the analysis of selected social problems.

SOC 209 INTRODUCTION TO WOMEN'S STUDIES 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (SS)
Prerequisite: SOC 101
An interdisciplinary analysis of women in society. Students will be exposed to scholarly research about sex roles in biology, psychology, the social sciences and the arts, and will be encouraged to examine it critically.

(Continued p. 322)

SOC 301 NATIONALITY GROUPS IN AMERICAN CULTURE 3 cr. 3 cl.

F-80 (SS)

Prerequisite: SOC 101

Problems and contributions of largest immigrant ethnic groups; patterns of immigration; immigrant institutions and community life; assimilation — Is it possible or desirable? Has it actually taken place? What is the "new ethnicity?"

SOC 303 SOCIAL PSYCHOLOGY 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (SS)

Prerequisite: SOC 101

Motivation and nature of attitudes; attitude change and stability; interpersonal perception and behavior; role prescriptions and role conflict; prejudice; conflict resolution.

SOC 304 SOCIAL STRATIFICATION 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (SS)

Prerequisite: SOC 101

Analysis of social inequality; contrasting theoretical views on the nature and significance of the unequal distribution of power in Western Civilization; extent of social mobility; differences in social class interests, values, and behavior. Elective for juniors and seniors.

SOC 305 METHODS IN SOCIAL RESEARCH 4 cr. 4 cl.

F-79, Sp-80, F-80, Sp-81 (SS)

Prerequisite: SOC 101 and six additional hours in sociology. The nature of scientific evidence; induction and deduction; the application of the scientific method 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 sociological materials from journals and books as illustrative material. Required for all sociology and Urban-Regional Analysis and Planning majors.

SOC 306 SOCIAL STATISTICS 4 cr. 4 cl.

F-79, Sp-80, F-80, Sp-81 (SS)

Prerequisite: SOC 101 and SOC 305

Statistical methods and reasoning will be used to analyze and clarify sociological information. Required for sociology majors.

(Mathematical Statistics may be substituted with departmental approval).

SOC 307 SOCIOLOGY OF EDUCATION 3 cr. 3 cl.

Sp-80 (SS)

Prerequisite: SOC 101

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 teachers, student sub-cultures and administrative behavior patterns on student performance in school; changing and alternative educational forms; and changing relationships in colleges and universities. Elective for juniors and seniors.

SOC 308 GROUP STRUCTURE AND PROCESS 4 cr. 4 cl.

Sp-80 (SS)

Prerequisite: SOC 101

Description and analysis of group structures and processes; the nature of interaction in various small and large group structures; the effect of groups on behavior of individuals. This course was formerly identified as Group Dynamics. Elective for juniors and seniors.

SOC 309 SOCIOLOGY OF CRIME 3 cr.

F-79, Sp-80, F-80, Sp-81 (SS)

Prerequisite: SOC 101

Crime; controversies concerning its nature, variation, causation, and means of prevention, reduction and the treatment of offenders. Covers theoretical perspectives in social and historical context. Some sections also present data regarding the extent of crime. This course was formerly identified as SOC 408. Elective for juniors and seniors.

SOC 310 SOCIOLOGY OF HUMAN ECOLOGY 3 cr. 3 cl.

F-80 (SS)

Prerequisite: SOC 101

The study of the interaction of man and his environment and the effect of this interaction on the quality of living, especially upon such social problems as poverty, crime,

physical and mental illness and various types of pollution. Elective for juniors and seniors.

SOC 311 SOCIAL MOVEMENTS 3 cr. 3 cl.

Sp-80 (SS)

Prerequisite: SOC 101

The analysis of various social movements. Relationships between individual discontent and social movements. Functional and dysfunctional aspects of different types of social movements. Elective for juniors and seniors.

SOC 313 SOCIOLOGY OF CHILDHOOD AND YOUTH 3 cr. 3 cl.

F-80 (SS)

Prerequisite: SOC 101

An analysis of the socialization of the children and adolescents as they emerge into adulthood. The impact of the family, the school, peer groups and mass media, sub-cultural differences are examined. Intergenerational conflict and other social problems of childhood and youth are analyzed. Elective for juniors and seniors.

SOC 314 SOCIOLOGY OF SEX ROLES 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (SS)

Prerequisite: SOC 101

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, comparatively, demographically, theoretically, and biologically, with particular attention given to the sociological implications of sex inequality in the economy and political systems, as well as in marriage and family relationships. Elective for juniors and seniors.

SOC 315 SOCIOLOGY OF WORK 3 cr. 3 cl.

F-79 (SS)

Prerequisite: SOC 101

An analysis of the functions of work organizations as a major process for articulation of contemporary society. Examination of typical work structures in industry and government. Examination of

work organizations and social change. The problems of the individual in a world of work and studies. Elective for juniors and seniors.

SOC 316 SOCIOLOGY OF THE FAMILY 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (SS)

Prerequisite: SOC 101

Family as a social institution; its historical development, function, and structure; cross cultural comparisons; sub-cultural analysis of the contemporary American family system. Discussion of alternatives to living in families, and of sex roles and sex role change. In the past this course has been identified as SOC 203. Students who have passed SOC 203 may not receive credit for this course. Elective for juniors and seniors.

SOC 317 SOCIOLOGY OF RACE AND ETHNICITY 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (SS)

Prerequisite: SOC 101

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. In the past this course has been identified as SOC 204, Race Relations (Black/White). Students who have passed SOC 204 may not receive credit for this course. Elective for juniors and seniors.

SOC 318 SOCIOLOGY OF URBAN ORGANIZATIONS 3 cr. 3 cl.

Sp-81 (SS)

Prerequisite: SOC 101

The primary purpose of this course is to analyze urban 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. Elective for juniors and seniors.

(Continued p. 324)

SOC 319 SOCIOLOGY OF SPORT
3 cr. 3 cl.

F-80 (SS)

Prerequisite: SOC 101

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 332 THE BLACK FAMILY
(AAS 332) IN AMERICA**
3 cr. 3 cl.

Sp-80 (SS)

Prerequisite: SOC 101

Elective for juniors and seniors. 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 the Black American family life with emphasis on intra-familial relations.

**SOC 365 THE AGED IN URBAN SOCIETY**
3 cr. 3 cl.

F-79, F-80, Sp-81 (SS)

Prerequisite: SOC 101

The changing status of the aged in urban society with emphasis on the U.S. Differing status roles of aged women and aged men. The aged in different cultures and subcultures. The problem 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. Students who have received credit for SOC 411 cannot receive credit for this course. Elective for juniors and seniors.

SOC 401 JUVENILE DELINQUENCY
3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (SS)

Prerequisite: SOC 101

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; and methods of prevention; use of case histories and field trips. Elective for juniors and seniors.

SOC 402 SOCIOLOGY OF THE CITY
3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (SS)

Prerequisite: SOC 101

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. Required of Urban-Regional Analysis and Planning majors. Elective for juniors and seniors.

SOC 403 CONTEMPORARY SOCIOLOGICAL THEORY
3 cr. 3 cl.

Sp-80, Sp-81 (SS)

Prerequisite: SOC 101 and six additional hours in 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. Optional (with SOC 405); requirement for Sociology majors. Elective for juniors and seniors.

SOC 404 SOCIOLOGY OF RELIGION
3 cr. 3 cl.

Sp-81 (SS)

Prerequisite: SOC 101

Theories in the 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. Elective for juniors and seniors.

SOC 405 FOUNDATIONS OF SOCIOLOGICAL THOUGHT
3 cr. 3 cl.

F-79, F-80 (SS)

Prerequisite: SOC 101 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, Emil Durkheim. Optional (with SOC 403): requirement for sociology majors. Elective for juniors and seniors.

SOC 406 POLITICAL BEHAVIOR AND (PSC 406) PUBLIC OPINION
3 cr. 3 cl.

Sp-80 (SS)

Prerequisite: SOC 101

Conditions of democratic political behavior; opinion formation in democratic systems; voting behavior and party affiliation in the United States; political behavior in governmental institutions; political behavior in selected western European societies. Elective for juniors and seniors. May be used for sociology or political science as the choice of the student.

SOC 407 SOCIOLOGY OF OCCUPATIONS
3 cr. 3 cl.

Sp-81 (SS)

Prerequisite: SOC 101

The social structure of American occupations. Occupational recruitment viewed as related to race, social class, and education. Careers and career lines. The changing structure. Elective for juniors and seniors.

SOC 409 SEMINAR IN SOCIOLOGY
3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (SS)

Prerequisite: SOC 101 and SOC 305

Research in selected area(s) of Sociology. Required for Sociology majors with senior standing (2nd semester seniors will be given first preference).

SOC 413 SOCIOLOGY OF LAW
3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (SS)

Prerequisite: SOC 101

A study of the structure and function of law in the American culture, with particular reference to the legal profession and the

(Continued p. 326)

situations in which the law arises and has an effect on the social system. Elective for juniors and seniors.

SOC 414 SOCIOLOGY OF ADDICTION
3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (SS)

Prerequisite: SOC 101

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. Elective for juniors and seniors.

SOC 415 POPULATION ANALYSIS AND PROBLEMS 3 cr. 3 cl.

Sp-80 (SS)

Prerequisite: SOC 101

Emphasizing the American experience, the course explores how and why populations grow and decline, and change in their composition. Issues discussed include methods and motivations for the use of family planning, reasons why people migrate from one location to another, and how data of the U.S. Census can be used to answer a broad range of social and economic questions in many disciplines. Elective for juniors and seniors.

SOC 416 THE AMERICAN JEWISH COMMUNITY 3 cr. 3 cl.

Sp-81 (SS)

Prerequisite: SOC 101

The structure of the Jewish community in America will be described with reference to the participation of Jews in economic, educational, religious, aesthetic and political institutions. Particular attention will be given to inter-group relations between Jews and other religious and ethnic groups. Elective for juniors and seniors.

SOC 418 TOPICAL SEMINAR IN SOCIOLOGY 3 cr. 3 cl.

F-80 (SS)

Prerequisite: SOC 101 and six hours in 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, if he/she wishes to undertake the course, will secure approval from the Department of Sociology. The course will then be listed in the Master Schedule with a subtitle indicating the area of special concentration. Elective for juniors and seniors.

SOC 419 SOCIOLOGY OF PUNISHMENT AND CORRECTIONS 3 cr. 3 cl.

Sp-80, Sp-81 (SS)

Prerequisite: SOC 101

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. Elective for juniors and seniors.

SOC 420 THE SOCIOLOGY OF HIGHER EDUCATION 3 cr. 3 cl.

F-79 (SS)

Prerequisite: SOC 101

An examination of colleges and universities as complex social organizations and bureaucratic structures. Among topics discussed will be: higher education and social change, the academic subculture, the status-role of professors, students and administrative personnel. Elective for juniors and seniors.

SOC 495 PROJECT

SOC 499 INDEPENDENT STUDY



Spanish

Offered by the Department of Foreign Language
DR. GISELE FEAL, Chairperson
Bishop Hall 121

SPA 101 ELEMENTARY SPANISH (C) 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (H)

Fundamentals of Spanish with emphasis on speaking and listening skills.

SPA 102 ELEMENTARY SPANISH (C) 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (H)

Prerequisite: SPA 101 or equivalent.

Continuation of SPA 101.

SPA 103 ELEMENTARY SPANISH (C) 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (H)

Prerequisite: SPA 102 or equivalent.

Continuation of SPA 102.

SPA 201 INTERMEDIATE SPANISH (C) 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (H)

Prerequisite: SPA 103 or equivalent.

Further development of the basic skills with increasing emphasis on reading and writing.

SPA 202 INTERMEDIATE SPANISH (C) 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (H)

Prerequisite: SPA 201 or equivalent.

Continuation of SPA 201.

Special Note: Any challenge of SPA 101, 102, 103, 201 or 202 is subject to certain restrictions. For details contact the coordinator of the Spanish section in the Foreign Language Department.

SPA 301 SPANISH CONVERSATION AND COMPOSITION 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (H)

Prerequisite: SPA 202 or equivalent.

Practice in spoken and written Spanish with emphasis on the spoken language.

SPA 302 SPANISH CONVERSATION AND COMPOSITION 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (H)

Prerequisite: SPA 202 or equivalent.

Practice in spoken and written Spanish with emphasis on the written language.

SPA 305 SPANISH PHONETICS
3 cr. 3 cl.

F-79, F-80

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 cr. 3 cl.

F-79, F-80 (H)

Prerequisite: SPA 202 or equivalent.

A consideration of the culture of 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 (C) 3 cr. 3 cl.

F-80 (H)

Prerequisite: SPA 202 or equivalent.

The Middle Ages to the Golden Age.

SPA 308 SURVEY OF SPANISH LITERATURE (C) 3 cr. 3 cl.

Sp-81 (H)

Prerequisite: SPA 202 or the equivalent.

The 18th Century to the present.

SPA 309 THE CIVILIZATION OF LATIN AMERICA 3 cr. 3 cl.

Sp-81 (H)

Prerequisite: SPA 202 or equivalent.

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.

(Continued p. 328)

6 / Courses

SPA 310 SURVEY OF SPANISH AMERICAN LITERATURE (C) 3 cr. 3 cl.

F-79 (H)

Prerequisite: SPA 202 or equivalent. The Colonial Period to Romanticism.

SPA 311 SURVEY OF SPANISH AMERICAN LITERATURE (C) 3 cr. 3 cl.

Sp-80 (H)

Prerequisite: SPA 202 or equivalent. Realism to the Present.

SPA 406 19TH CENTURY SPANISH LITERATURE (C) 3 cr. 3 cl.

F-80 (H)

Prerequisite: SPA 308 or permission of the instructor. Critical study of representative works of the period.

SPA 412 SPANISH AMERICAN LITERATURE OF THE 20TH CENTURY: THEATER AND POETRY (C) 3 cr. 3 cl.

F-79 (H)

Prerequisite: SPA 310, 311 or permission of the instructor. Critical study of representative works of the period.

SPA 415 ADVANCED GRAMMAR AND COMPOSITION (C) 3 cr. 3 cl.

Sp-80, Sp-81 (H)

Prerequisite: SPA 301-302 or permission of the instructor. Elements of stylistics and selected grammatical topics. Attention given to common errors of English speakers. Recommended for teaching majors and others who are obtaining English language skills as part of their preparation.

SPA 496 SENIOR SEMINAR I 3 cr. 3 cl.

F-80 (H)

Prerequisite: Permission of instructor. Topic to be chosen by professor.

SPA 497 SENIOR SEMINAR II 3 cr. 3 cl.

S-81 (H)

Prerequisite: Permission of instructor. Topic to be chosen by professor.

Swahili

Offered by the Department of Foreign Language
DR GISELE FEAL, Chairperson
Bishop Hall 121

SWA 101 ELEMENTARY SWAHILI (AAS 101) 3 cr. 3 cl.

F-79 (H)

A study of the fundamentals of Swahili with emphasis on the spoken language.

SWA 102 ELEMENTARY SWAHILI (AAS 102) 3 cr. 3 cl.

Sp-80 (H)

Prerequisite: SWA 101 (AAS 101) or permission of instructor. Continuation of SWA 101 (AAS 101), with emphasis on writing and reading.

SWA 201 INTERMEDIATE SWAHILI (AAS 201) 3 cr. 3 cl.

F-80 (H)

Prerequisite: SWA 102 (AAS 102) or permission of instructor. Further development of the basic skills, with emphasis on reading, writing and casual conversation.

SWA 202 INTERMEDIATE SWAHILI (AAS 202) 3 cr. 3 cl.

Sp-81 (H)

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.

Theatre Arts

Offered by the Department of Performing Arts
DR. JAMES F. MABRY, Chairperson
Albright Hall 201

THA 100, 101, 102 PLAY READING 1 cr. each up to 3 cr. 1 cl.

F-79, Sp-80, F-80, Sp-81 (A)

Reading and analysis of a variety of plays containing scenes appropriate for use in the various aspects of play production.

THA 106 INTRODUCTION TO THEATRE ARTS 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (A)

An introduction to all aspects of theatre. Includes discussion of professional, educational and community theatre.

THA 200 VOICE AND DICTION 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81 (A)

A comprehensive study of the speech mechanism and voice production.

THA 207 PLAY PRODUCTION 3 cr. 3 cl.

F-79, Sp-80 (A)

The analysis, planning and execution of the various production aspects of theatre. Practical experience.

THA 208 TECHNICAL THEATRE 3 cr. 3 cl. (A)

Prerequisite: THA 207 or consent of department. The various aspects of technical production; practical experience in all aspects of technical theatre.

THA 226 ACTING: THEORY AND PRACTICE 3 cr. 5 cl.

F-79 (A)

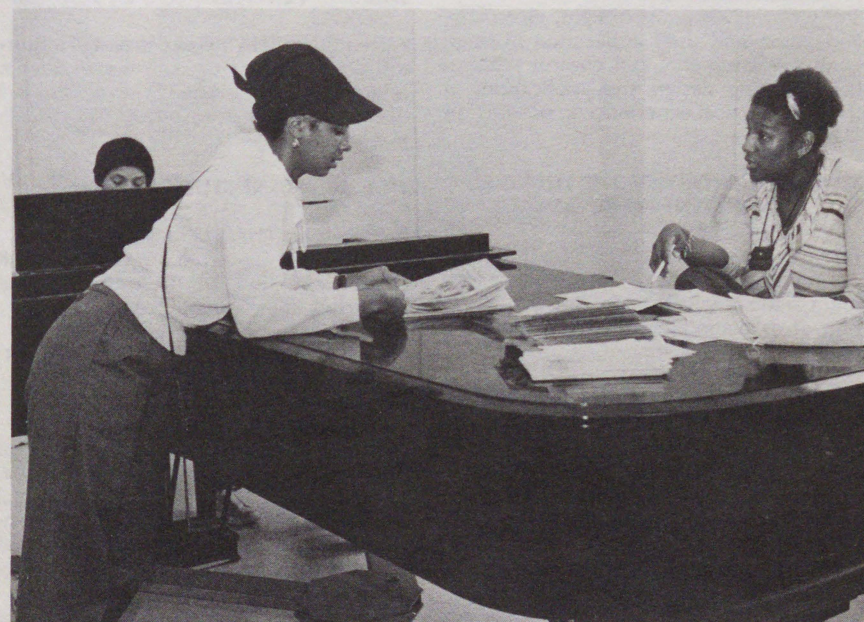
Prerequisite: THA 106 or consent of department. An examination of the actor's art, the relationship of theory to practice.

THA 260 BASIC MOVEMENT FOR ACTORS 3 cr. 3 cl.

F-79, F-80 (A)

Prerequisite: THA 106 or instructor's consent. Designed to give the student actor a knowledge and awareness of his body so that he can more fully incorporate the

(Continued p. 330)



physical dimensions of acting into his character portrayals.

THA 300 ADVANCED VOICE 3 cr. 3 cl.
(A)

Prerequisite: THA 200 Voice and Diction
Further application and appreciation of vocal production methods with a special emphasis on individualized projects.

THA 310 ADVANCED TECHNICAL PROBLEMS 3 cr. 3 cl.
(A)

Prerequisite: THA 208
Examination of special problems; theories and trends in technical theatre; independent projects in advanced technical theatre.

THA 311 COSTUME FOR THE THEATRE 3 cr. 3 cl.
Sp-80 (A)

Prerequisite: THA 106 or 207 or consent of department. nature, function, and history of costume; practical problems of costuming.

THA 312 LIGHTING TECHNIQUES 3 cr. 3 cl.
(A)

Prerequisites: THA 207
Study of the elements of light, electricity, and color, and their application in stage lighting instruments and control systems, basic lighting design and applications in theatre. Practical experience in production work.

THA 317 HISTORY OF THE THEATRE: ANCIENT TO RENAISSANCE 3 cr. 3 cl.
F-79 (A)

An examination of the origins and development of the physical theatre; the consideration of dramatic literature in its theatrical context.

THA 318 HISTORY OF THE THEATRE: RENAISSANCE TO MODERN 3 cr. 3 cl.
Sp-80 (A)

The emergence of the modern theatre; the consideration of dramatic literature in its theatrical context.



THA 319 PLAYWRITING 3 cr. 3 cl.
F-79 (A)

Prerequisite: THA 106 or consent of instructor. Development of critical capacities in reference to the student's own work and that of his classmates; productive work in playwriting.

THA 326 SCENE STUDY 3 cr. 3 cl.
Sp-80 (A)

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 cr. 3 cl.
(A)

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 characterization and their integration into the total acting experience of voice, body, and mind.

THA 386 BLACK THEATRE WORKSHOP I 3 cr. 3 cl.
(A)

The Black Theatre Workshop is designed for students interested in writing, directing, and/or performing in Black experience plays. The course includes the performance of Black rituals, scenes.

THA 407 ENSEMBLE THEATRE 3-9 cr. 3-9 cl.
(A)

Prerequisite: Audition
An examination of ensemble theatrical production through the preparation and performance of two full-length plays.

THA 426 ADVANCED ACTING 3 cr. 3 cl.
F-79

Prerequisite: THA 326 and consent of instructor. Styles, periods, and methods of Acting.

THA 450 DIRECTING 3 cr. 3 cl.
Sp-80, Sp-81 (A)

Prerequisite: THA 226 or consent of instructor. An examination of the responsibilities of the play director.

THA 495 PROJECT

THA 496 SEMINAR IN THEATRE ARTS 3 cr. 4 cl.
Sp-80, Sp-81

Prerequisites: 24 hours completed in Theatre Arts. Examination of attitudes; sharpening of critical capacities; productive scholarly and creative works.

THA 499 INDEPENDENT STUDY



Vocational Technical Education

Offered by the Department of Industrial Arts & Vocational Education
DR. EMIL H. HOCH, Chairperson
Upton Hall 314

VTE 100 COMPREHENSIVE THEORETICAL TRADE OR TECHNICAL SKILLS 15 cr.

Sp-80, Sp-81

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.

VTE 200 COMPREHENSIVE TRADE OR TECHNICAL PERFORMANCE SKILLS 15 cr.

F-79, F-80

An introduction to the history, philosophy and objectives of vocational technical education; growth of vocational education; description of the various programs of vocational education - full and part time; characteristics and content of effective programs; personal and professional characteristics of teachers and trends in vocational education.

VTE 300 INTRODUCTION TO VOCATIONAL TECHNICAL EDUCATION 3 cr. 3 cl.

F-79, F-80

An introduction to the history, philosophy and objectives of vocational technical education; growth of vocational education; description of the various programs of vocational education—full and part time; characteristics and content of effective programs; personal and professional characteristics of teachers and trends in vocational education.

VTE 301 OCCUPATIONAL/CONTENT ANALYSIS 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81

Techniques of analyzing a trade. Development of the elements of teachable content for a trade, including: the selection of skills, operations, tools, equipment and materials, mathematics, science, drawing, terminology, safety and hygiene.

VTE 302 COURSE ORGANIZATION 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81

Prerequisite: VTE 301

Arrangement of instructional material in a logical, performance based teaching-learning sequence appropriate to the students' ability.

VTE 306 SHOP/LABORATORY ORGANIZATION AND MANAGEMENT 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81

Emphasizing the many organizational factors essential to success in the teaching profession. Includes facility planning, supervision and managerial phases of the vocational-technical teacher's position.

VTE 307 USE OF INSTRUCTIONAL MEDIA 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-80

Effective preparation and use of commercial, instructor and student prepared media. Familiarization with sources, criteria for selection and evaluation procedures.

VTE 404 METHODS OF TEACHING VOCATIONAL TECHNICAL SUBJECTS 3 cr. 3 cl.

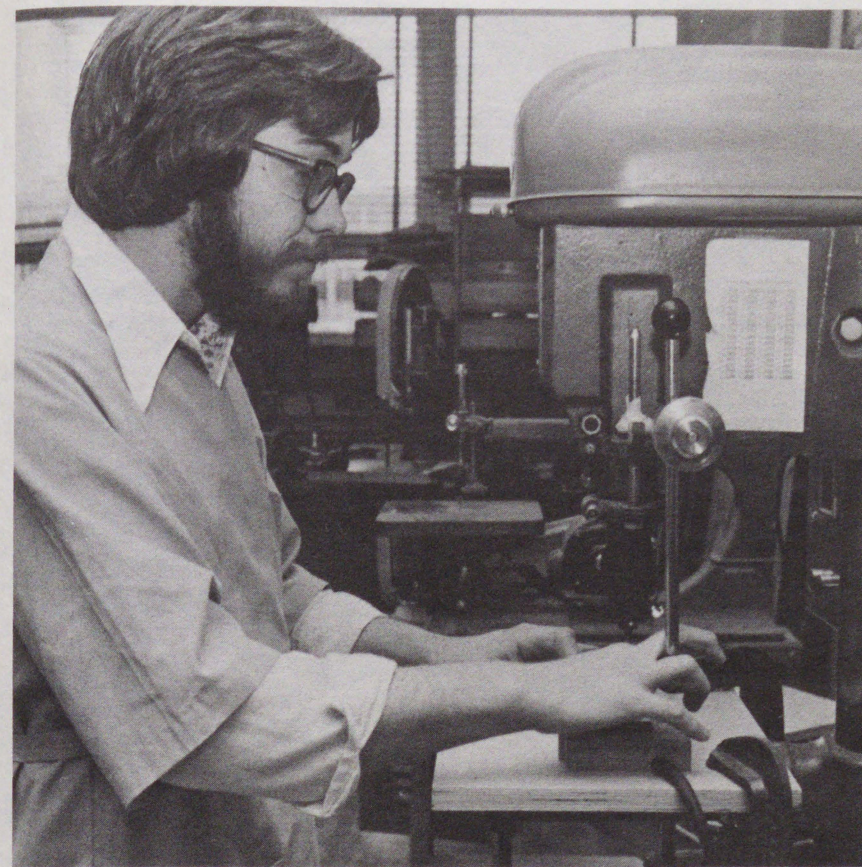
F-79, Sp-80, F-80, Sp-81

Basic principles and methods of teaching vocational technical subjects. Prepares the craftsman, technician, or engineer to effectively impart his knowledge to the learner.

VTE 411 EVALUATION OF INSTRUCTION 3 cr. 3 cl.

F-79, F-80

Types and characteristics of school tests; principles of test construction; practice in the development of tests and interpretation of test data - all related to vocational technical students and classes.



VTE 412 TEACHING CLINIC 3 cr. 3 cl.

F-79, Sp-80, F-80, Sp-81

Prerequisite: VTE 100, 200, 307, 404, EDU 303. Emphasizes specific methods and procedures, effective use of instructional aids, selection of student work assignments, and criteria for evaluation. Presentation of practice lessons by class members for constructive criticism and evaluation in a clinic situation using video tape.

VTE 413 PRACTICE TEACHING AND OBSERVATION 3 cr. 60 cl.

F-79, Sp-80, F-80, Sp-81

Prerequisites: VTE 412. Students should be prepared to accept an assignment at any school designated by the Student Teacher

Coordinator. Supervised observations of vocational technical classes in specially selected, approved vocational schools. Conferences and reports based upon teaching assignments will be required.

VTE 415 PROFESSIONAL DEVELOPMENT SEMINAR 3 cr. 3 cl.

Sp-80, Sp-81

Prerequisite: VTE 300, 412, 413. Verification of trade competency through satisfactory completion of trade theory and performance examinations. Opportunity to synthesize the pedagogical courses and practice teaching experience and to analyze the problems which confront the teacher.

Campus Resources

7

Academic Computing Center/336

Burchfield Center/336

Edward H. Butler Library/337

College Academies/338

College Learning Laboratory/338

College Store/339

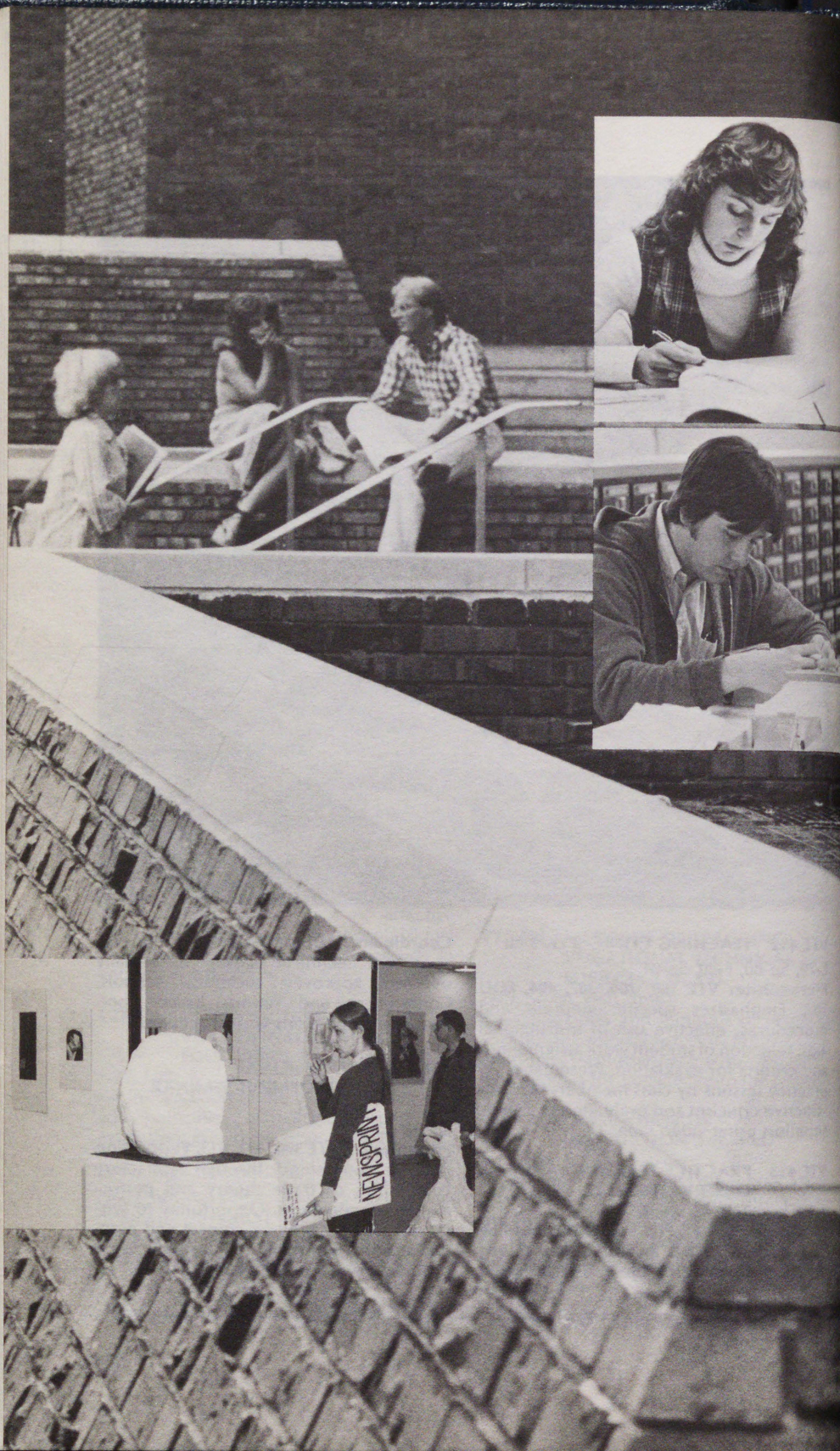
Day Care Center/340

Food Services/340

Great Lakes Laboratory/342

Instructional Resource Center/342

Student Union/343



Academic Computing Center

The Academic Computing Center in Rockwell Hall provides computer hardware and software for use by students, faculty and staff. Hardware includes a card reader/line printer remote-job-entry station to submit decks of punched cards and to receive printed output of results. Virtually all major computer languages are available including FORTRAN, COBOL, ASSEMBLER, and PL 1.

Sophisticated software systems such as SPSS, GPSS and MENTEST are available for statistical analysis, simulations, mathematical calculations, and editing.

The center also has terminals at many locations on campus. These can be used to submit programs and retrieve results from any of the languages or software systems mentioned above plus the extremely powerful interactive language, APL.

Students wishing to use these facilities are given access codes, assigned in conjunction with a class or academic department.

Students do not need access codes to use the BASIC language. BASIC is offered on several microcomputers located in the center.

The Academic Computing Center also scores and analyzes coded exams and materials.



Burchfield Center

Highlighting Western New York's cultural scene is the College's own Burchfield Center, a regional art center and repository for the works of Charles Burchfield, one of America's outstanding watercolorists and a long-time resident of the Buffalo area.

The center has been devoted to building a distinguished and comprehensive collection of the work of Charles Burchfield and making it available for study. In addition, significant art expression by other Western New York artists is encouraged through major exhibitions and the permanent collection. Each year the center attracts between 25,000 and 30,000 visitors.

The center serves the college community as a teaching museum. An Exhibition Techniques course, taught by the director, enables students to participate in planning, developing, and installing specific exhibitions. They gain experience in research and in creating descriptive catalogs and brochures to accompany the exhibits. 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.

The Burchfield Center is in Rockwell Hall and is open from 10 a.m. to 5 p.m. weekdays and from 1 to 5 p.m. on Sundays.

Edward H. Butler Library

One of the newer buildings on campus, Butler Library seats 2000 and houses a collection of more than 390,000 books, 2200 current periodicals

(Continued p. 338)



and an extensive collection of microforms and other non-print materials. There is space to eventually accommodate 500,000 volumes on open shelves. A Library Handbook detailing library services, hours, maps, and other important data is available upon request in the Reference Department. An **Independent Learning Center** provides multi-media self-instructional facilities.



College Academies

During the last few years the College has created four special academic academies to give expanded attention to areas of particular importance. The **Women's Studies Academy** coordinates and initiates activities with other academic and community groups involved with women's issues. The **Future Studies Academy** develops and coordinates programs to deal with future concepts and goals. The **Secondary Education Academy** encourages excellence in secondary teacher education while stimulating communication among the many secondary education programs on campus. The **Urban Studies Academy** originates special activities relating to the urban community and works at developing closer ties with the community.

College Learning Laboratory

The College Learning Laboratory is a research development and demonstration school that serves the College as a laboratory for the study and advancement of knowledge about children, learning, and teaching.

Enrollment numbers about 900 and includes Campus West, a magnet school operated jointly with the Buffalo Public Schools as part of its desegregation plan. The Lab offers classes for nursery school (age 18 months through 4 years) and kindergarten through eighth grade pupils as well as providing an exceptional education program for educable and

trainable mentally retarded children that starts in the primary grades and extends through high school.

The Lab regularly explores new instructional methods, develops new instructional materials, updates its curriculum, and carefully monitors pupil progress. Any academic department on campus may place students at the school as observers, participants, volunteers, and student teachers.

College Store

A full-service store, the College Store carries books and educational materials for course-related use and other merchandise to meet the casual needs of the college community. The store sells both new and used textbooks, paperbacks, teacher aids, children's books, art supplies, graphic and industrial arts supplies, film, souvenirs, toiletries, health and beauty aids, tobacco products, gifts, and clothing.

The store does not allow personal charge accounts but accepts Master Charge and VISA. Other available services include a post office, check cashing, refrigerator rentals, and film processing.

The College Store is run by the Faculty-Student Association, a non-profit corporation which operates the bowling lanes, pool room and coin-operated amusement games in the Student Union in addition to overseeing food service operations throughout campus, vending services, washers and dryers, and copiers in Butler Library.



Day Care Center

A well-rounded developmental program for children of students, faculty, and staff is provided by the Day Care Center in Caudell Hall. The center can accommodate between 35 to 40 children per hour and accepts on a first-come, first-served basis youngsters who are between the ages of two and five-and-a-half. Advance registration is required.

A modest hourly rate is charged for students and faculty. A well-balanced lunch and snack are provided. Sponsored by the United Students' Government, the center is licensed by the New York State Department of Social Services, Erie County Department of Health, City of Buffalo Fire Department and the City of Buffalo, Division of Building Inspection.

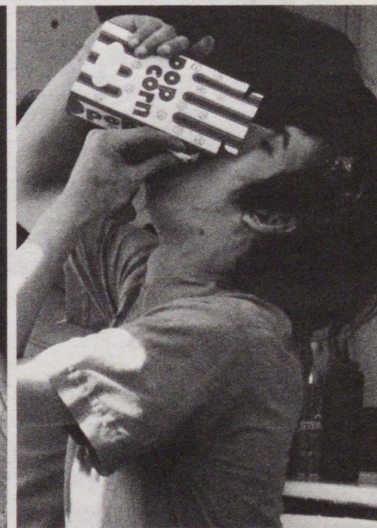
The Day Care Center is open from 7:45 a.m. to 4:45 p.m. Monday through Thursday and 7:45 a.m. to 3 p.m. on Friday. Inquiries may be made by calling 878-5335.

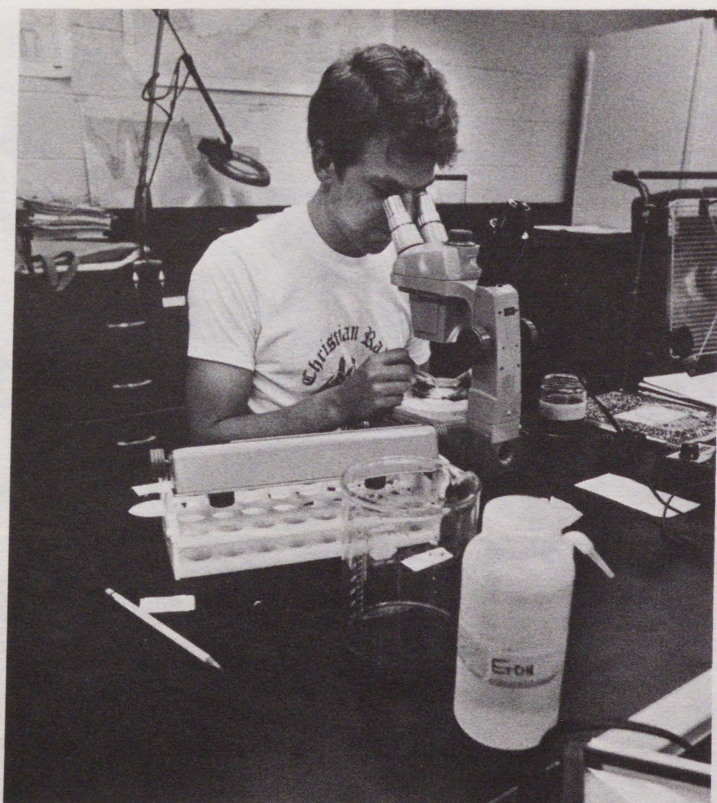
Food Services

Food service is available every day of the week, and students have their choice of many campus restaurants including the **College Pub**, the **Cookery** (pizza and subs), the **Estate Restaurant**, the **Parlour** cocktail lounge and the **Plaza** complex (housing a cafeteria, the Bengal Burger, Bake Shop, and Deli). The Estate and Parlour are located in Moot Hall; the others are in the Student Union. Resident dining facilities are located in Scjacuada Dining Hall.

The Faculty-Student Association is responsible for the college's food service operation. A schedule of restaurant hours can be obtained by calling the FSA office, 878-5211.

The Faculty-Student Association is governed by a 15-member board of directors. Membership is open to all students, faculty, staff, and the board of directors of the Alumni Association. The FSA office is located in Campus House.





Great Lakes Laboratory

Serving all of State University of New York as a research center, the Great Lakes Laboratory specializes in research and instruction in the area of aquatic sciences, particularly water pollution. The lab is the largest academically-affiliated program conducting investigations on the Great Lakes. A field station is located at the confluence of Lake Erie and the Niagara River. In addition, there are extensive modern laboratories in the Science Building on campus. The Great Lakes Lab owns several research vessels and maintains an extensive library.

Instructional Resource Center

A variety of instructional aid is supplied to the college faculty by the Instructional Resource Center located in the Communication Center (878-6931). The center produces audio and videotapes, slides, graphics, and transparencies for instruction in addition to providing audio-visual

equipment and operating a campus-wide television system for educational purposes.

Professional staff members give consultation and work closely with the faculty to develop new instructional materials and curricula. A film rental library distributes 16mm films and videotapes to faculty members, student teachers, schools, and community organizations throughout New York and surrounding states. Whole lessons can be videotaped and put on file in Butler Library for independent study by students.

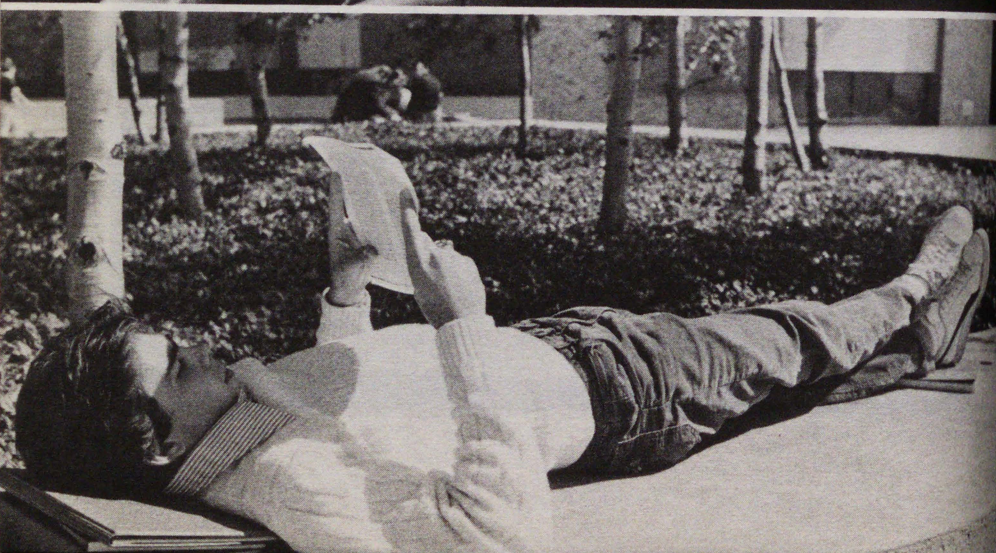
Student Union

For students, one of the most important buildings on campus has to be the Student Union, located on the west side of the quad academic core. Commuter and resident students alike make use of the facilities. It's a place for a refreshing pause.

The first floor houses the Snack Bar, Fitness Food Center, the Pub (College tavern), the pool room, eight bowling alleys, commuter locker rooms, the yearbook office, and the office of the campus radio station, WSCB. The College Store takes up much of the basement. On the second floor are the Fireside Lounge, Office of Commuter Services, and large social and meeting rooms. The third floor contains offices including those for United Students' Government, the Office of Student Activities, and the Director of the Student Union.

Union hours are: Monday through Thursday, 7 a.m. to midnight; Friday, 7 a.m. to 1 a.m.; Saturday, 9 a.m. to 1 a.m. and Sunday, 9:30 a.m. to midnight.





Academic Policies

8

Registration/346

Attendance/347

Auditing Courses/347

Dropping/Withdrawing from Course/348

Declaring a Major/348

Changing a Major/348

Leave of Absence/Withdrawal/349

Graduation and Commencement/350

Grading/352

Honors/355

Academic Probation/Dismissal/355

Level Codes (Academic)/356

Alternate Methods of Earning Credit/356

Transcript of Record/360

Teacher Education/361

Transportation to Off-Campus Sites/362

Unit of Credit/362

Waiver of Academic Regulations/362

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 Advisement Office, Cleveland Hall 417, 878-5222, for clarification of other regulations or procedures.



Registration

The Registrar has established the following registration procedures which all students must follow:

1. Pre-registration is mandatory for all currently registered students planning to return to the College the following semester. Those who do not pre-register may take part in manual registration only after all other undergraduates have completed their registrations.
2. Manual registration is for newly accepted students and for those whose computer pre-registrations are incomplete. All students must register on dates specified by the Registrar.
3. Drop-Add Days are scheduled for making adjustments to schedules. No student may add a new course after the Drop-Add-Day period.

4. 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.
5. Students with outstanding financial obligations will not be allowed to register at any time.
6. Students subject to possible dismissal under dismissal or probation regulations may pre-register, but they are not officially enrolled until their official status has been determined by the appropriate dean. If the determination is for dismissal, they must leave the College immediately.
7. Students clearly subject to dismissal should not begin a new semester or summer session.



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 for them 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 for such course, not be required to meet the requirements of the course, 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 Office of Admissions and Records, Cleveland Hall 207, 878-5511.

Dropping or Withdrawing from a Course

Dropping Courses

Students may completely cancel their registration in one or more courses by attending the official Drop Day each term. No record of the cancelled registrations will be maintained on the student's transcript. No financial penalty is assessed.

Withdrawal from Courses

Students who wish to leave a course after Drop Day and before the final withdrawal date (prior to the 10th week of the semester or fifth week of a summer session) may file withdrawal forms signed by the appropriate instructor with the Registrar's Office, Cleveland Hall 205. Withdrawals remain on the transcript and are recorded as W's.

Instructors are required to apprise students of their academic standing no later than the end of the ninth week of a semester or the fourth week of a summer session. If a student does not process an official drop and fails to continue with the course, his grade will be E.

Students withdrawing from some course work may be eligible for a refund in accordance with the Bursar charge rates. Beyond the end of the Bursar 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 must declare a major at the time of application for admission. Students must notify the chairperson of the department or division in which the major is declared. Students may have two majors at graduation provided all the requirements for each are met. In certain instances, a student may qualify for two degrees. The second degree requires a minimum of an additional 32 semester hours beyond those required for the first degree. This second degree requires the approval of the Office of Academic Affairs.

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. If approved by the department chairperson, the department will forward the form to the Registrar for recording. Such changes should be made by mid-semester to allow



registration for the next semester in courses that may be restricted to students in that major.

Leave of Absence

Students who wish to leave the College for personal or financial reasons may be granted leaves of absence of up to one full year so long as they are in good academic 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 withdrawn from all registered course work. That semester will be included in the one full year allowed for the leave.

Emergency medical leaves of absence of varying lengths of time are granted for documented serious injury or illness.

A change of status form is used to apply for a leave and can be obtained in the Academic Standards and Advisement Office, Cleveland Hall 417, 878-5222, or in the appropriate dean's office.

Withdrawal

To maintain good standing and eligibility for readmission to the College, students finding it necessary to withdraw must do so officially. Tuition refunds will be made on a prorated basis up to the fourth week of classes of the semester, upon written request and the recommendation of the department chairperson.

To officially withdraw, a student must:

1. Consult the department chairperson and obtain the change of status form from the appropriate dean's office.
2. File the form with the Registrar, Cleveland Hall 205, and complete the withdrawal procedure as outlined by that office.
3. Complete an exit interview form.

Failure to file for withdrawal will result in the recording of an E grade in each course for which the student is registered. Where it is impossible to withdraw in person, it must be done by letter from the student or parent to the dean. Students withdrawing officially with no outstanding obligations or commitments are considered to be in good standing.

Graduation and Commencement

All students expecting to qualify for a degree must fulfill certain requirements. They are:

1. File application with Registrar's Office, Grover Cleveland Hall 205, no later than three months prior to the date expected to earn the degree. The deadline for filing for January degrees is October 15; for May degrees, February 15; for August degrees, June 4 (graduate students' deadline is June 28). Students applying for degrees after these dates will automatically be put forward to the next list. Failure to make application before the February 15 deadline 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.
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.
 - b. Students must have taken 60 hours in the general/liberal area.

c. All candidates must have completed a minimum of 48 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-hour physical education activity courses.

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. Teacher 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 and returned to Certification Office, Bacon Hall 308.
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. Grades are an assessment of the quality of student achievement. 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.

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

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.

P-Pass and F-Fail grades are given for courses taken on a pass-fail basis (see section below). They may be submitted only under proper authorization. A W may be submitted only when a student has formally withdrawn from a course and only with the permission of the department chairperson or program coordinator. 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.

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. The department chairperson must be notified and given a description of the grades of completed work, the nature of the unfinished work, and the requirements remaining to be fulfilled.

Incompletes must be converted to a letter grade by April 1 for an I grade given at the end of the fall semester and November 15 for an I given at the end of spring semester or summer session. 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 full-time student with at least sophomore standing and a 2.20 cumulative average to take courses 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 any other failure (E) although the hours are not used in computing the cumulative average. No more than 18 hours of pass/fail credit may be applied toward a degree.

Any course, except English Composition 100-level courses or any course required for completion of a major, 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 a summer session. After receiving the approval signature of the student's adviser, the student must file a declaration of intent with the Registrar's Office, Cleveland Hall 205. 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 he earns; 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. No other letter grades 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.

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 session courses and before November 15 for spring courses. The appropriate dean must approve all grade changes.
2. Any other request for a grade change will be granted by the office of the appropriate dean after it has been considered by the Academic Appeals Committee or other committee authorized to consider such petitions. A full, written justification for the change must be submitted by the instructor to the office of the appropriate dean.



Repeating Courses

A student may repeat a course for which a failing grade was earned. If he subsequently passes, only the 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 Registrar's Office, Cleveland Hall 205, 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 session.

The cumulative average cannot be raised by repeating a course that has been previously passed.

Honors

Students earning a cumulative average of 3.50 or higher for a minimum of 14 credit hours in a semester will be named to the Academic Honors List for that semester. Grades of S and P will not be counted. Students are ineligible for honors if they are student teaching, have incomplete course work (I, N, X), or have 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 honors, a student must complete at least 60 credits at the College.

No student with outstanding grades of I, U, X or N may be considered for honors. (See section explaining grades.)

Academic Probation/Dismissal

Probation

A student whose cumulative average falls below a 2.00 is not considered to be in good academic standing and is automatically classified as on academic probation. The cumulative average is determined at the end of each semester, and it is the student's responsibility to know his status. A student on probation will have until the completion of the next regular semester to raise his cumulative average to 2.00. Failure to do so by that time can result in dismissal from the College.

A student facing dismissal because of a low cumulative average may appeal his status by seeking a hearing before the appropriate Probations Appeal Board. He can make an appointment for a hearing in the office of the dean of faculty responsible for his major program. Uncommitted students (who have not enrolled in major programs) can make such an appointment in the Academic Standards and Advisement Office, Cleveland Hall 417. The dean or the Director of Academic Standards and Advisement may extend the period of probation according to the merits of the individual student's case.

(Continued p. 356)

While knowledge of his status is the student's responsibility, the College normally notifies students of their probationary status by mail. It is the student's duty to maintain an up-to-date mailing address in the Office of Admissions and Records.

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 (See above).

Satisfactory Progress Toward a Degree: Financial aid guidelines require that a student show evidence of making satisfactory progress toward a degree to continue receiving aid. Students who have attempted fewer than 30 credits must have completed half of these courses with a cumulative average of 1.80. Students who have attempted between 31 and 60 credits must have completed half of these courses with a cumulative average of 1.90. Students attempting more than 60 credits must have completed 75% of the courses with a cumulative average of 2.00.

Anyone failing to meet these standards risks a termination of financial aid. After two consecutive semesters of not meeting these requirements, the student is no longer eligible for financial aid.

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	Junior — 57 to 88 hours
Sophomores — 29 to 56 hours	Senior — 89 hours and more

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. An undergraduate 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 student may not challenge a course in which he is currently enrolled.
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.

Contract

One form of independent study open to students who have reached the sophomore level and are in good academic standing is taking a course by contract. Students are provided with a course outline, bibliography, and statement of responsibilities and dates by which they are to be met. They 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, under special circumstances, are also eligible to take courses by contract.

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 secondary school records or significant achievements or have done honors work in pertinent fields in high school.

Application forms are available in the Registration Office, Cleveland Hall 204, and must be filed with that office by the deadline date published in the master schedule each semester. Applications must be signed by both the instructor and department chairperson.

Cross Registration

Students who have reached the sophomore level may take courses at any public or private college in Western New York for degree credit so long as they maintain a 12-hour credit load at Buffalo State. They may enroll for no more than two courses or eight credit hours 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 Registration Office, Cleveland Hall 204, and must be signed by the department chairperson and returned to the Registration Office.

Off-Campus Study

Courses may be taken at other institutions locally or elsewhere for transfer credit so long as approval from the department chairperson is obtained and the proper forms from the 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 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.

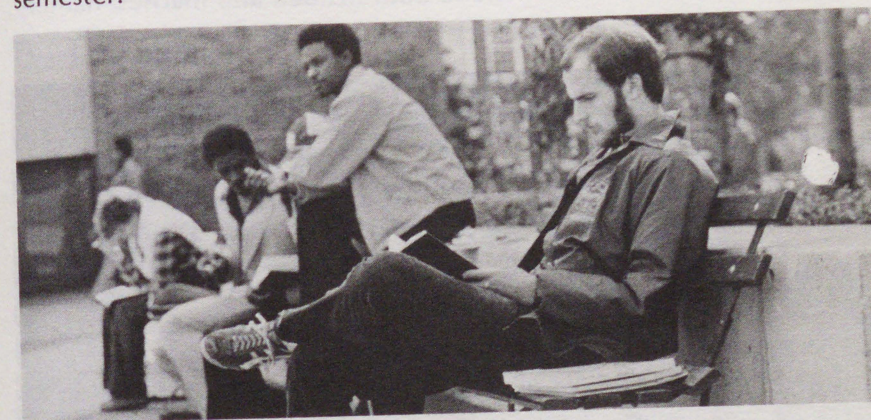
Students electing to do independent study should have a degree of knowledge in the area they have chosen in addition to a strong motivation to work alone much of the time. Independent study is never a substitute for a course already being offered that term.

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 any one semester.

Further information is available from department chairpersons, division directors and program coordinators. Application forms are available at the Registration Office, Cleveland Hall 204, and must be filed with that office by the deadline date published in the master schedule each semester.



Military Service

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 Office of Admissions and Records, Cleveland Hall 206. Documents showing completion of such courses should accompany all requests.

The maximum credit allowed from such sources is 16 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.

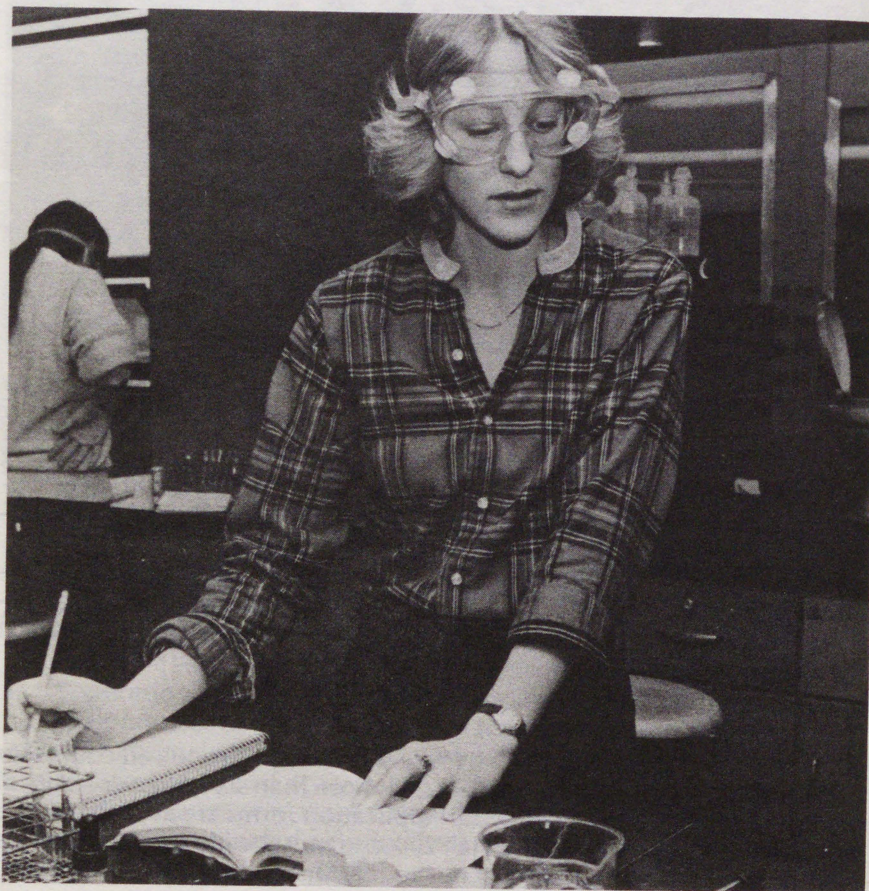
Project 495

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 at the Registration Office, Cleveland Hall 204, and must be filed with that office by the deadline date published in the master schedule each semester.

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. There is no charge for the first official transcript, but each additional one will cost \$2. No telephone requests will be honored. A transcript request form is available in the Registrar's Office, Cleveland Hall 205.

Mail requests must include the student's name, current address, social security number, dates of attendance, graduation date (if applicable), name and address to whom the transcript is to be sent, and a check or money order payable to State University College at Buffalo for \$2. Married women should include both maiden and married name.



Teacher Education

New York State Certification

All students who successfully complete an approved teacher education program at Buffalo State will receive a New York State Certificate of Qualification. Prior to graduation, education students must fill out a New York State Certification Affidavit, available at the beginning of each student-teaching semester at the All-College Student-Teaching Orientation. The forms are also available in Bacon Hall 308. In most cases, the State Certification Bureau will mail the certificate to eligible students within three months of graduation. More information can be obtained from the Certification Officer, Bacon Hall 308, 878-6121.

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 these offices: Academic Standards and Advisement, the deans, the Academy of Secondary Studies, and Certification Officer.

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 across from Bacon Hall 308. More details may be obtained from the Certification Officer.

Drug Education

All persons certified to teach in the public 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.

Student Teaching

Student-teaching experiences are coordinated through the office of the

(Continued p. 362)

8 / Academic Policies

All-Campus Student-Teaching Coordinator, Bacon Hall 308. Each student must fulfill the requirements detailed in the Student-Teaching Handbook which is distributed prior to student teaching.

Transportation to Off-Campus Instructional Sites

Each student has the responsibility for providing his 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 three class periods a week will earn three semester hours of credit. Studio, laboratory and shop classes 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 that waiver. No retroactive requests will be honored.

After consulting with the Academic Appeals Committee, the Director of Academic Standards and Advisement makes decisions on requests for waivers which do not relate to a student's major. His 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 department or major study area faculty.

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 340,000 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, more than 100,000 students are 24 years or older, reflecting State University's services to specific constituencies, such as refresher courses for the professional community, continuing educational opportunities for returning servicemen, 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 smoke 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 or internationally recognized figures in all the major disciplines. Their efforts are recognized each year in the form of such prestigious awards as Fulbright-Hayes, Guggenheim and Danforth Fellowships.

The University offers a wide diversity of what are considered the more conventional career fields, such as engineering, medicine, literature, dairy farming, medical technology, accounting, social work, forestry and automotive technology. Additionally, its responsiveness to

(Continued p. 364)

State University of New York

progress in all areas of learning and to tomorrow's developing societal needs has resulted in concentrations which include pollution, 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 based Educational Opportunity Programs provide counseling, developmental education and financial aid to disadvantaged students in traditional degree programs.

Overall, at its EOC's, two-year colleges, four-year campuses and university and medical centers, the University offers 3,600 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, by:

Providing local industry with trained technicians in a wide variety of occupational curriculums;

Providing transfer options to students who wish to go on and earn advanced degrees, and;

Providing the community with yet another source for technical and professional upgrading as well as personal enrichment.

During its brief history, State University has graduated more than 650,000 alumni, the majority of whom are pursuing their 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 per cent of their operating cost and one-half of their capital costs.

The State University motto is: "To Learn — To Search — To Serve."

State University of New York

State University Units

University Centers

State University at Albany
State University at Binghamton

State University at Buffalo
State University at Stony Brook

Colleges of Arts and Science

College at Brockport
College at Buffalo
College at Cortland
Empire State College
College at Fredonia
College at Geneseo
College at New Paltz

College at Old Westbury
College at Oneonta
College at Oswego
College at Plattsburgh
College at Potsdam
College at Purchase

Colleges and Centers for the Health Sciences

Health Sciences Center at Buffalo University Center
Health Sciences Center at Stony Brook University Center
Downstate Medical Center at Brooklyn
Upstate Medical Center at Syracuse
College of Optometry at New York City
College of Veterinary Medicine at Cornell University*

Agricultural and Technical Colleges

College at Alfred
College at Canton
College at Cobleskill
College at Delhi
College at Farmingdale
College at Morrisville

Specialized Colleges

College of Agriculture and Life Sciences at Cornell University*
College of Ceramics at Alfred University*
College of Environmental Science and Forestry at Syracuse
College of Human Ecology at Cornell University*
College of Technology at Utica/Rome
Fashion Institute of Technology of New York City**
Maritime College at Fort Schuyler
School of Industrial and Labor Relations at Cornell University*

*These operate as "contract colleges" on the campuses of private universities.

**While offering a limited number of baccalaureate degree programs in addition to the Associate Degree, FIT is financed and administered in the manner provided for community colleges.

State University of New York



Community Colleges

(Locally-sponsored, two-year colleges under the program of the 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 Buffalo
 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 County 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
 Sullivan County Community College at South Fallsburg
 Tompkins Cortland Community College at Dryden
 Ulster County Community College at Stone Ridge
 Westchester Community College at Valhalla

State University of New York

Board of Trustees

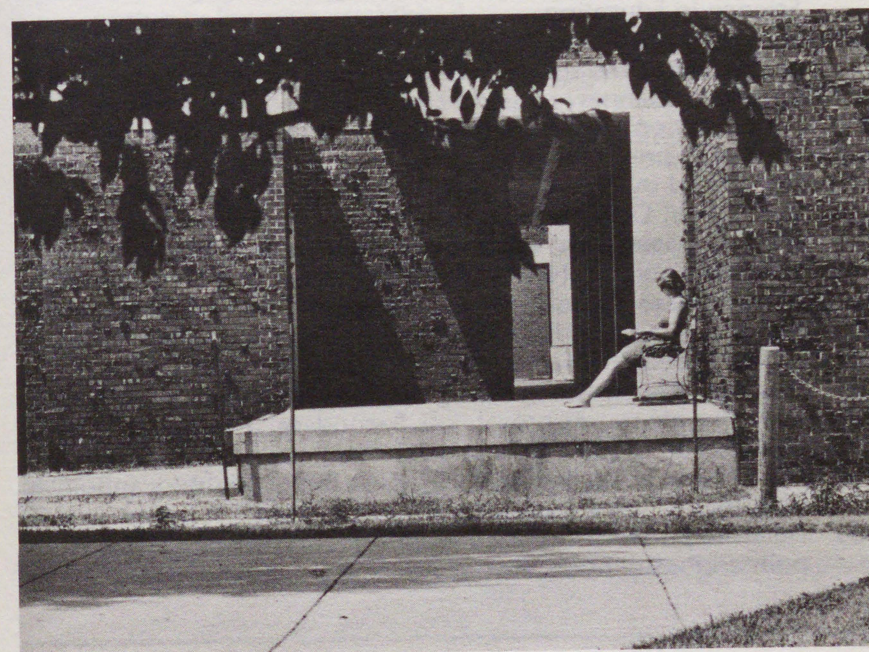
Donald M. Blinken, B.A., Chairman New York City
 James J. Warren, L.H.D., Vice Chairman Albany
 Robert R. Douglass, A.B., LL.B. New York City
 William D. Hassett, Jr., B.A., L.H.D. Snyder
 John L.S. Holloman, Jr., B.S., M.D. East Elmhurst
 Mrs. Nan Johnson, B.A., M.A. Rochester
 Mrs. Judith Davidson Moyers, B.S. Garden City
 Lillian Roberts New York City
 John A. Roosevelt, A.B. New York City
 Mrs. Edward Siegel, R.N. Roslyn
 Mrs. Walter N. Thayer New York City
 Thomas VanArsdale, B.E.E. New York City
 Darwin R. Wales, B.A., LL.B. Binghamton

Chancellor of the University

Clifton R. Wharton, Jr., B.A., M.A., Ph.D., LL.D., L.H.D., D.P.S.

Secretary of the University

Martha J. Downey, B.S., M.A.



Buffalo State College: Important Facts

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 Chairman 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
1963 Approval of Liberal Arts Degree Program
1963 Mrs. Bruce E. Wallis (formerly Kate Butler Righter) re-appointed Chairman of Local Council
1964 Approval of Secondary Teacher Education Curriculum in Foreign Language
1964 Approval of 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; Department of Chemistry accredited by American Chemical Society
1969 Master of Arts Degree with major in Chemistry, Biology and Philosophy authorized
1970 Bachelor of Technology Degree authorized
1971 Bachelor of Fine Arts Degree authorized; Centennial Year
1972 Accreditation renewed by Middle States Association of Colleges and Universities; 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
1979 Dr. Barbara R. Frey, Vice President for Academic Affairs became Acting President; Dr. D. Bruce Johnstone appointed President
-

Accreditations

American Chemical Society
 American Dietetic Association
 Board of Regents, University of the State of New York
 Council on Social Work Education
 Middle States Association of Colleges and Secondary Schools
 National Association of Industrial Technology
 National Council for Accreditation of Teacher Education

College Council

	Term Expires
Mrs. Bruce E. Wallis, Chairman	1981
Charles G. Blaine, Vice Chairman	1982
Mrs. Sylvia Callistein	1986
Pasquale A. Greco, M.D.	1988
Walter B. Holland, Jr., D.D.S.	1984
Richard H. Speranza	1987
Mrs. Harlan J. Swift	1983
Paul A. Tokasz	1985
Timothy J. Toohey	1980
Burton Warner (elected student member)	1980



Important:

Students Unable Because of Religious Beliefs 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 is unable, because of his 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 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 religious beliefs, an equivalent opportunity to make up any examination, study or work requirements which he 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 because of his availing himself 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 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.

Administration

As of Aug. 15, 1979

D. BRUCE JOHNSTONE, Ph.D. President
BARBARA R. FREY, Ed.D. Vice President for Academic Affairs
WILLIAM LICATA, Ed.D. Vice President for Administration
JAMES A. GOLD, D.Ed. Vice President for Student Affairs

PRESIDENT OF THE COLLEGE D. BRUCE JOHNSTONE, Ph.D.

Secretarial Asst. to the President Anna Tiberia
Exec. Asst. to the President Appt. Pending
Adviser to the President & Dir., Institutional Advancement Glenn R. Nellis, M.P.A.
 Exec. Dir., Buffalo State College
 Foundation, Inc. George Vangellow, B.S.
 Dir., Alumni Affairs Rosalie A. Turton, M.S.Ed.
Dir., Public Affairs Joyce E. Fink, Ed.M.
 Dir., College News Service Mary Lib Myers, B.S.J.
 Editorial Assoc. Dean Richmond, B.S.
 Publications Assoc. Margery A. Facklam, M.S.Ed.

VICE PRESIDENT, ACADEMIC AFFAIRS Barbara R. Frey, Ed.D.

Assoc. Vice President (Acting) Richard A. Wiesen, Ed.D.
Asst. Vice President (Acting) Richard A. Reynolds, M.A.
Dir., Academic Standards & Advising Richard N. Hall, M.Ed.
Dir., Creative Studies Sidney J. Parnes, Ph.D.
Dir., International Education & Special Programs Wendel B. Wickland, M.S.
All-College Coordinator of Student Teaching Russell D. Utz Jr., Ed.S.

Dean, Graduate Studies, Research, & Lifelong Learning Joseph M. Stetar, Ph.D.
 Asst. Dean Robert J. Stephen, M.Ed.
 Dir., Research & Development Complex Kenneth A. Cross, Ed.D.
 Dir., Research Services & Administration Michael J. Ryan, M.A.

Dean, Academic Services David B. Walch, Ph.D.
 Dir., Academic Computing William H. Updegraff, Ph.D.
 Dir., Instructional Resources H. Gene Steffen, Ph.D.

Dean, Faculty of Applied & Professional Studies (Acting)

Assoc. Dean Richard E. Collier, Ed.D.
 Assoc. Dean (Acting) Ralph D. Sollars, Ph.D.
 Dir., College Learning Laboratory Dorris M. Closs, Ed.D.
 Chp., Behavioral & Humanistic Studies Dept. Russell Macaluso, Ed.D.
 Chp., Business Studies (Acting) Appt. Pending
 Chp., Community/Social Services & Criminal Just. Dept. Gregory W. Gray, Ed.D.
 Chp., Consumer Studies & Home Economics Dept. Edward L. Morgan, M.S.
 Chp., Curriculum & Supervision Dept. Sarah L. Manning, Ph.D.
 Chp., Exceptional Children Education Dept. Norman G. Walker, Ed.D.
 Chp., Industrial Arts & Vocational Education Dept. Warren L. Gleckel, Ph.D.
 Chp., Nutrition & Food Science Dept. Emil H. Hoch, Ed.D.
 Chp., Technology Dept. Dennis K. Ponton, Ph.D.
 Dir., Teacher Corps Myron E. Lewis, Jr., Ed.D.
 Richard C. Pearce, Ed.D.

Dean, Faculty of Arts & Humanities

Assoc. Dean Charles L. Deihl, M.F.A.
 Chp., Art Education Dept. Neil H. Rudin, Ph.D.
 Chp., Design Dept. Vincent C. Arnone, Ed.D.
 Chp., English Dept. Marianne Vallet-Sandre, M.S.Ed.
 Chp., Fine Arts Dept. Paul V. Hale, Ph.D.
 Chp., Foreign Language Dept. Francis R. Kowsky, Ph.D.
 Chp., Journalism/Broadcast & Speech Communication Dept. Gisele Feal, Ph.D.
 Chp., Performing Arts Dept. Ronald L. Rabin, Ph.D.
 Chp., Philosophy & Religious Studies Dept. James F. Mabry, Ph.D.
 James O. Grunebaum, Ph.D.

Dean, Faculty of Natural & Social Sciences

Assoc. Dean Irene M. Hulicka, Ph.D.
 Chp., Anthropology Dept. Appt. Pending
 Chp., Biology Dept. William E. Engelbrecht, Ph.D.
 Chp., Chemistry Dept. William C. Scheffler, Ed.D.
 Chp., Economics & Political Science Dept. Joseph S. Zingaro, Ph.D.
 Chp., Geography & Sociology Dept. Richard J. Kieffer, Ph.D.
 Raymond W. Waxmonsky, Ph.D.

(Continued p. 374)

Administration

Chp., Geosciences/Physics/
Interdisciplinary Science Dept. Robert E. Horvat, Ph.D.
Chp., Health, Physical Education &
Recreation Dept. Florence M. Hulett, Ed.D.
Chp., History & Social Studies
Education Dept. Donald D. Leopard, Ph.D.
Chp., Mathematics Dept. Alwin C. Green, Ph.D.
Chp., Psychology Dept. Jerry F. Cataldo, Ph.D.
Dir., Great Lakes Laboratory Robert A. Sweeney, Ph.D.

VICE PRESIDENT, ADMINISTRATION William Licata, Ed.D.

Assoc. Vice President, Finance & Management James M. Caputi, B.B.A.
Comptroller Gary J. Phillips, Ed.M.
Assist. to the Comptroller Christine Miller, B.A.
Accountant John H. Whelan, B.A.
Bursar Richard T. Augustine, B.S.
Dir., Financial Aids William A. Troy, Ed.M.
Assoc. Dir. Daniel Hunter, Ed.M.
Counselors Aurea F. Drzewiecki, M.A.,
Warren Hoffman, Ed.M., Eleanor Martinear, Ed.M.,
Zofia W. Miller, Ed.M., Pamela Schoell, M.S.

Dir., Payroll Mary Ann Dekarz
Dir., Purchasing Patricia A. Lyons
Dir., Public Safety Laverne B. Anderson, M.S.Ed.
Asst. Dir., Law Enforcement Div. Appt. Pending
Coord., Environmental Health & Safety Brian R. Cole, B.S.
Dir., Physical Plant Robert Broomfield
Asst. to the Dir. James J. Yager, M.B.A.
Space & Inventory Officer Thomas J. Pepper, Ed.M.
Head Maintenance Supervisor Eugene W. Hillman
Senior Maintenance Supervisor George E. Rackl

**Asst. Vice President for
Faculty and Staff Relations** Heidi L. Mahoney, Ph.D.
Affirmative Action/Human
Development Officer Sheila J. Nickson
Personnel Officer Horace Donaldson, B.A.
Personnel Administrator Appt. Pending
Personnel Asst. Susan J. Hawkes, A.A.S.

Dir. of Admissions and Records Kevin M. Durkin, M.S.Ed.
Systems Coord. William P. Harden, Ed.M.
Registrar Neale W. Peck, B.A.
Asst. Registrar Carole S. Harris

Administration

Coord., Undergraduate Admission Paul T. Collyer, M.Ed.
Admissions Counselors Paul T. Bink, B.A.,
Lawrence E. Bynum, B.S., Charles E. Dimidio, M.S.
Transcript Evaluator Cynthia Green, M.S.
Coord., E.O.P. Admissions Michael Pirowskin, M.S.

Dir., Data Processing Raymond A. Chamberlain, B.S.
Computer Operations Manager Richard A. Szaflarski
Supervising Computer Operator David Cummings, B.S.
Data Entry Supervisor Marcy Ann Zulawski
Student Record Systems Analyst Linda Roneker
Student Record Systems Analyst Nancy R. Henry, B.S.
Management Systems Analyst Joel P. Swisher, B.A.
Financial Systems Analyst Albert B. Santini, B.S.
Systems Programming Specialist Vivian Quinn, B.S.
Student Accounts Analyst James H. Meeks, B.A.

Dir., Budget David A. Burdette, B.A.
Research Asst. Rebecca J. Schenk, B.A.

Dir., Institutional Research Richard C. Diedrich, Ph.D.
Research Assoc. Slawko Medinac, M.S.Ed.

AUXILIARY SERVICES—FACULTY-STUDENT ASSOCIATION:

Coord., Faculty-Student Association Gary E. Vickers, B.A.
Food Services Dir. Peter Liberti, A.A.S.
College Store General Manager Louis J. Kaminski
Coord., Auxiliary Services Daniel T. Sawers, B.S.

VICE PRESIDENT, STUDENT AFFAIRS James A. Gold, D.Ed.

Asst. to Vice President Richard J. LeCastre, M.S.
Special Asst. to Vice President Raymond P. Eberle, M.S.Ed.
Dean, Student Life Phillip Santa Maria, Ph.D.

Dir., Student Activities John E. Kennell, M.S.
Asst. Dir. John S. Frederick, M.S.

Dir., Counseling/Orientation Fedele J. Goi, Ph.D.
Assoc. Dir. Diane S. Gale, Ph.D.
Orientation Coordinators Norman M. Kiracofe, Ph.D.;
Michael E. Kager, M.S.

Counselors Eleanor L. Hardy, M.S.W.;
Stanley E. Sheets, Ph.D.

(Continued p. 376)

Administration

- Dir., Residence Life** Stephen E. Faust, M.A.
 Asst. Dir. Sheila L. Hausrath, B.A.
- Dir., Student Union** Donald W. Blundell, M.S.Ed.
- Dir., Commuter Services and Programs** Robert J. Naples, M.S.Ed.
- Dir., Student Health Center** Winifred G. Mernan, M.D.
 Physicians, Part-time ... Lester S. Sielski, M.D.; Susan T. Eluard, M.D.;
 Joseph D. Gentile, M.D.; Roy D. Miller, M.D.
 Nurses Mary T. Sullivan, M.S.; Mary D. Engel, R.N.;
 Shirley S. Hunt, R.N.; Joan T. Jones, R.N.;
 Irene Kolber, R.N.; Josephine Terranova, R.N.
 Barbara A. Chapman, R.N.
- Psychiatrist, Part-time Tirtadharyana Haryadi, M.D.
- Dir., Placement** June H. Truesdale, B.S.Ed.
 Counselors Ruth M. Campbell, Ph.D.;
 Eva M. McEachern, B.A.
- Dir., Student Judicial System** Lebanon L. Arrington, M.S.W.
- Dir., Foreign Student Advisement** Jean-Francois Gounard, Ph.D.
- Dir., Intercollegiate Athletics** Howard B. MacAdam, M.A.
 Assoc. Directors Fred J. Hartrick, M.S.;
 Gail F. Maloney, M.S.
- Coaches Donna M. Nawrocki, B.S.; Anthony C. Sartori, M.S.
- Dir., Educational Opportunity Program (SEEK)** Isaiah Reid, Ed.D.
 Asst. Dir. Leon Smith, M.S.Ed.
 Counselors Richard B. Allen, M.A.;
 Roslyn Berkovitz, M.Ed.; Mary A. Hughes, M.S.;
 Lily M. Winiger, B.A.; Gwendolyn Wooten, B.A.;
 Susan F. Sunshine, M.A.; Charles V. Render, B.S.;
 Helen Sweat, B.S.; Delcene A. West, M.S.
- Teaching Specialist Jean S. Levy, M.Ed.

Faculty & Professional Staff

Faculty 1979-81 according to information available April 1979. The date in parentheses following the name is that of first appointment to a position on the faculty or staff of this College.

DISTINGUISHED

- Stanley A. Czurlis** (1931), Research Professor, Art Education, Distinguished Service Professor and the State University Chancellor's Award for Excellence in Teaching 1975, Ph.D., University of Iowa
- Fraser B. Drew** (1945), Professor, English and Distinguished Teaching Professor, Ph.D., University of Buffalo
- Joseph F. Wincenc** (1947), Professor, Performing Arts and Distinguished Teaching Professor, M.A., Teachers College, Columbia University
- Gerald F. Accurso** (1965), Associate Professor, Interdisciplinary Sciences and Associate Dean, Graduate Studies, Research, and Lifelong Learning, Ed.D., State University of New York at Buffalo
- Arthur P. Ackerman** (1969), Professor, Exceptional Children Education, the State University Chancellor's Award for Excellence in Teaching, 1973, Ph.D., University of Oregon
- George Adoff** (1972), Assistant Professor, Criminal Justice, M.S.W., State University of New York at Buffalo
- Omair M. Ahmad** (1979), Assistant Professor, Technology, Eng.D., Concordia University
- John R. Aiken** (1964), Professor, History, Ph.D., University of Rochester
- James B. Aikman** (1970), Associate Professor, Industrial Technology, M.S., State University of New York at Buffalo
- John L. Allen** (1964), Associate Professor, Industrial and Vocational Education, Ed.M., State University of New York at Buffalo

- Richard B. Allen** (1969), Counselor, E.O.P., M.A., New York University
- Jon P. Amato** (1976), Assistant Professor, Geography, Ph.D., University of Toronto
- Joan Amorowicz** (1966), Assistant Professor, Curriculum and Supervision, Ed.D., State University of New York at Buffalo
- Duane J. Andersen** (1958), Professor, Design, M.S., University of Wisconsin
- Laverne B. Anderson** (1970), Director, Public Safety, M.S.Ed., State University College at Buffalo
- Sarah Anderson** (1974), Assistant Professor, College Learning Laboratory, M.S. Ed., State University College at Buffalo
- Bruce K. Andrew** (1965), Associate Librarian, 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
- Bernard D. Ansel** (1964), Associate Professor, History, Ph.D., University of Kansas
- Charles Aquino** (1968), Associate Professor, Journalism, Broadcast and Speech Communication, Ph.D., Syracuse University
- Arthur D. Arent** (1970), Assistant, Instructional Resources, M.S. Ed., State University College at Buffalo
- Vincent C. Arnone** (1963), Professor, Art Education and Chairperson of the Department, Ed.D., State University of New York at Buffalo
- Lebanon L. Arrington** (1969), Director, Student Judicial System, M.S.W., University of Kansas
- Richard T. Augustine** (1976), Bursar, B.S., State University of New York at Buffalo
- Herbert A. Aurbach** (1970), Professor, Sociology, Ph.D., University of Kentucky
- Virginia D. Austin** (1968), Professor, Performing Arts, M.Ed., Temple University
- Charles R. Bachman** (1965), Professor, English, Ph.D., Indiana University

Faculty & Staff

Robert C. Beaumler (1964), Associate Professor, Fine Arts, M.F.A., Yale University
Richard Baginski (1979), Assistant Director, Residence Life, M.S., Shippensburg State College
William T. Bailey (1964), Associate Professor, Mathematics, Ed.D., State University of New York at Buffalo
Keith E. Baird (1975), Associate Professor, African and Afro-American Studies/Anthropology, B.S., Columbia University
Eileen E. Ballard (1968), Assistant Professor, Curriculum and Supervision, M.S.Ed., State University College at Buffalo
Victor H. Balowitz (1964), Associate Professor, Philosophy and Religious Studies, Ph.D., Columbia University
Joseph P. Barback (1969), Professor, Mathematics, Ph.D., Rutgers University
Juana Barberi (1977), Counselor, Equal Opportunity Program, M.A., State University of New York at Buffalo
Geraldine E. Bard (1971), Instructor, English, M.A., State University College at Buffalo
Carolyn Bardol (1966), TV Technical Specialist, B.A., Alfred University
William J. Barnett (1950), Professor, Curriculum and Supervision, Ed.D., State University of New York at Buffalo
Donald Barr (1972), Assistant Professor, Health, Physical Education, and Recreation, Ph.D., State University of New York at Buffalo
Jack Barr (1960), Associate Professor, Mathematics, M.S., State University of Iowa
Saul Barron (1964), Professor, Chemistry, Ph.D., Ohio State University
Kent Bath (1974), Assistant Professor, Psychology, Ph.D., West Virginia University
Marguerite Battaglia (1972), Assistant Professor, College Learning Lab, M.S.Ed., State University of New York at Buffalo
James A. Battistoni (1965), Associate Professor, Art Education, Ed.D., State University of New York at Buffalo
Dolores Battle (1970), Assistant Professor, Exceptional Children Education, Ph.D., State University of New York at Buffalo
Denise Bauer (1966), Technical Assistant, Biology

R. Bruce Baum (1972), Associate Professor, Exceptional Children Education, Ph.D., University of Indiana
John B. Beach (1978), Assistant Professor, Technology, M.S., University of Michigan
Paul R. Beaudet (1961), Associate Professor, Geography and Sociology, Ph.D., Clark University
Alfred W. Becker (1963), Professor, Foreign Language, Ph.D., University of Maryland
Ruth A. Bedford (1967), Associate Librarian, M.S., University at Illinois
Dewayne A. Beery (1963), Associate Professor, Physics and Associate Dean (Acting), Faculty of Natural and Social Sciences, Ph.D., State University of New York at Buffalo
Nancy B. Belfer (1960), Professor, Design, M.F.A., School for American Craftsmen
Shirley Bennett (1972), Assistant Professor, College Learning Laboratory, B.A., State University of New York at Buffalo
William B. Bennett (1969), Associate Professor, Economics and Political Science, Ph.D., University of Rochester
Marion H. Benz (1972), Assistant Professor, Curriculum and Supervision, Ed.D., University of Rochester
Roslyn Berkovitz (1969), Counselor, E.O.P., M.Ed., State University of New York at Buffalo
Susan P. Besemer (1975), Assistant Librarian, M.L.S., Indiana University
Govind Bhagat (1974), Technical Assistant, Psychology, B.T., State University College at Buffalo
John A. Bice (1963), Professor, Fine Arts, M.F.A., University of Colorado
Paul T. Bink (1978), Admissions Counselor, B.A., Canisius College
Angelo N. Biondi (1967), Executive Director, Creative Education Foundation, M.S., State University College at Buffalo
John J. Bishop (1968), Professor, Fine Arts, Ph.D., Boston University
David A. Blaeuer (1964), Associate Professor, Mathematics, Ed.D., State University of New York at Buffalo

Donald W. Blundell (1970), Student Union Director, M.S.Ed., State University College at Buffalo
Marian R. Bode (1959), Associate Professor, Design, M.E., Wisconsin State College
Catherine Boehm (1974), Assistant Professor, College Learning Laboratory, M.S., State University of New York at Buffalo
Kenwyn Boldt (1966), Professor, Performing Arts, D.M., Indiana University
Joseph A. Bolinsky (1954), Professor, Fine Arts, M.F.A., State University of Iowa
F. Richard Boller (1967), Associate Professor, Industrial Arts and Vocational Education, M.A., Ball State University
Judith Bondurant (1977), Assistant Professor, Exceptional Children Education, Ed.D., University of Cincinnati
Jeanann S. Boyce (1977), Instructor, Business Studies, M.A., University of Massachusetts
Erma L. Boyd (1969), Assistant Librarian, M.L.S., State University College at Geneseo
Brian Brady (1977), Instructor, Design, B.A., University of Toronto
Margaret M. Breedlove (1965), Associate Professor, Nutrition and Food Science, M.A., Teachers College, Columbia University
Donald Brennan (1968), Associate for Instructional Resources, M.S.Ed., State University College at Buffalo
Monica M. Brinson (1959), Associate Professor, Consumer Studies and Home Economics, M.S., Purdue University
Robert W. Brock (1962), Professor, Fine Arts, M.F.A., Ohio University
Stanley E. Brooks (1961), Professor, Industrial Arts and Vocational Education, Ed.D., University of North Dakota
Robert Broomfield (1973), Director, Physical Plant
E. Carole Brown (1973), Assistant Professor, English, Ph.D., State University of New York at Buffalo
Ronald N. Brown, Jr. (1971), Programmer Analyst, Academic Computer Center

Jack C. Brueckman, Jr. (1964), Professor, Industrial Arts and Vocational Education, Ed.D., State University of New York at Buffalo
Eric Brunger (1954), Professor, History and Social Studies Education, and the State University Chancellor's Award for Excellence in Teaching, 1973, Ph.D., Syracuse University
John J. Bruno (1966), Professor, Curriculum and Supervision, Ed.D., State University of New York at Buffalo
Norbert R. Buczak (1967), Corporation Accountant, F.S.A.
Richard C. Burau (1967), Professor, Behavioral and Humanistic Studies, Ed.D., State University of New York at Buffalo
David A. Burdette (1968), Director of Budget, B.A., University of South Florida
Robert C. Burkhardt (1965), Professor, Art Education, Ed.D., Pennsylvania State University
William E. Burns (1966), Professor, Industrial Arts and Vocational Education, Ed.D., University of Maryland
Robert E. Buxton (1967), Professor, Industrial Arts and Vocational Education, Ed.D., University of Maryland
John C. Byczkowski (1973), Technical Assistant, Industrial Arts
Lawrence E. Bynum (1969), Admissions Counselor, B.A., State University of New York at Buffalo
E. Marie Caldwell (1973), Assistant Professor, Community/Social Services and Criminal Justice, M.S.S., Smith College School for Social Work
Frances M. Campbell (1975), Associate Professor, Journalism/Broadcast and Speech Communication, M.Ed., Johns Hopkins University
Ruth M. Campbell (1971), Placement Counselor, Ph.D., State University of New York at Buffalo
Robert B. Cantrick (1967), Professor, Performing Arts, Ph.D., University of Iowa
David A. Cappiello (1948), Professor, Industrial Arts and Vocational Education, Ed.D., State University of New York at Buffalo

Faculty & Staff

Faculty & Staff

James M. Caputi (1960), Associate Vice President for Finance and Management, B.B.A., Canisius College

John C. Carbonara (1964), Associate Professor, Philosophy and Religious Studies and the Chancellor's Award for Excellence in Teaching 1974, Ph.D. State University of New York at Buffalo

Joaquin J. Cardoso (1968), Professor, History and Social Studies Education, Ph.D., University of Wisconsin

Donald E. Carter (1964), Assistant Professor, Behavioral and Humanistic Studies, M.S., Kansas State College

Mark H. Castner (1978), Instructor, Technology, M.A., Fordham University

Jerry F. Cataldo (1969), Associate Professor, Psychology and Chairperson of the Department, Ph.D., State University of New York at Buffalo

Ernest F. Cavallo (1971), Television Engineer, Instructional Resources

Raymond A. Chamberlain (1970), Director, Data Processing, B.S., State University of New York at Buffalo

William J. Champion (1960), Professor, Performing Arts, M.M., University of Michigan

Barbara A. Chapman (1968), Nurse, R.N., Sisters of Charity Hospital and Canisius College

Fred E. Chapman (1964), Associate Professor, Industrial Arts and Vocational Education, Ed.D., State University of New York at Buffalo

Rudolph J. Cherkauer (1968), Professor, Mathematics, Ed.D., University of Buffalo

Francis Cheslik (1978), Assistant Professor, Journalism, Broadcasting and Speech Communication, Ph.D., Wayne State University

Simeon W. Chilungu (1970), Assistant Professor, Anthropology, Ph.D., State University of New York at Buffalo

Sung-Ja Cho (1974), Assistant Professor, Design, M.A., University of California at Los Angeles

Marie S. Clabeaux (1973), Professor, Anthropology, Ph.D., State University of New York at Buffalo

Jean B. Clayback (1969), Assistant Professor, Curriculum and Supervision, Ed.M., State University of New York at Buffalo

Dorris M. Closs (1967), Associate Professor, Consumer Studies and Home Economics, Ed.D., State University of New York at Buffalo

Leo A. Cohen (1969), Professor, Curriculum and Supervision, Ed.D., Boston University

Sidney Cohen (1966), Professor, Chemistry, Ph.D., University of Colorado

Louis Colca (1977), Assistant Professor, Community/Social Services and Criminal Justice, M.S.W., State University of New York at Buffalo

Brian R. Cole (1966), Coordinator, Environmental Health and Safety, B.S., State University College at Buffalo

Richard E. Collier (1971), Professor, Curriculum and Supervision and Dean, Faculty of Applied and Professional Studies (Acting), Ed.D., Syracuse University

Henry M. Collins (1968), Associate Professor, Biology, M.A., Harvard University

June M. Collins (1968), Professor, Anthropology, Ph.D., University of Chicago

Orvis F. Collins (1968), Professor, Geography and Sociology, Ph.D., University of Chicago

Paul T. Collyer (1971), Coordinator, Undergraduate Admission, M.Ed., State University of New York at Buffalo

Jean M. Conroy (1965), Associate Professor, Home Economics, College Learning Laboratory, M.S.Ed., State University College at Buffalo

David T. Converse (1964), Assistant Professor, Behavioral and Humanistic Studies, Ph.D., University of Nebraska

Bryna R. Cooperman (1969), Assistant Professor, Curriculum and Supervision, Ed.D., Ball State University

Pat A. Cordaro (1968), Technical Assistant, Biology, B.A., State University College at Buffalo

Eloise N. Courter (1966), Professor, English, Ph.D., University of Minnesota

Rufus S. Crane (1963), Associate Professor, Foreign Language, M.A., University of Wisconsin

Kenneth A. Cross (1969), Director, Research and Development Complex, Ed.D., State University of New York at Buffalo

Margaret G. Cruickshank (1965), Assistant Professor, Music, College Learning Laboratory, L.R.A.M., Royal Academy of Music

Paul M. Culkowski (1978), Assistant Professor, Technology, Ph.D., State University of New York at Buffalo

David Cummings (1970), Supervising Computer Operator, B.S., State University College at Buffalo

Keith L. Curry (1970), Professor, Exceptional Children Education, Ph.D., University of Iowa

Stanley A. Czurlles (1931), Research Professor, Art Education, Distinguished Service Professor, and State University Chancellor's Award for Excellence in Teaching 1975, Ph.D., University of Iowa

Daniel P. Dacey, Jr. (1960), Associate Professor, Foreign Language, A.M., Boston University

Eugene L-G Dakin (1947), Professor, Design, Professional Diploma, Columbia University

Arthur Darvishian (1962), Professor, Design, M.A., Michigan State University

Robert E. Davidson (1959), Associate Professor, Fine Arts, M.F.A., University of Guanajuato

Mary A. Davis (1977), Instructor, Business Studies, M.Ed., State University of New York at Buffalo

Robert J. Davitt (1965), Associate Professor, Interdisciplinary Sciences and the State University Chancellor's Award for Excellence in Teaching, 1977, Ed.D., State University of New York at Buffalo

Manuel P. De Almeida (1964), Associate Professor, Foreign Language, Ph.D., Laval University

John Decker (1973), Instructor, College Learning Laboratory, B.S., State University College at Brockport

Charles L. Deihl (1979), Associate Professor, Fine Arts, and Dean, Faculty of Arts and Humanities, M.F.A., Michigan State University

Mary Ann DeKary (1969), Director, Payroll

Mary K. Delmont (1972), Assistant Librarian, M.A., State University of New York at Buffalo

Faculty & Staff

Suzann Denny (1974), Assistant Professor, Design, M.S., Syracuse University

Joseph De Rose (1966), Associate Professor, Exceptional Children Education, M.Ed., Pennsylvania State University

Ram Desai (1963), Professor, Economics and Political Science, Ph.D., Michigan State University

Robert F. De Tombe (1973), Assistant Professor, Technology, Ed.D., West Virginia University

Paul J. DeWald (1967), Technical Specialist, B.A., State University of New York Empire State College

J. Patrick Dexter (1977), Assistant Professor, Community/Social Services and Criminal Justice, M.S.W., State University of New York at Buffalo

Stanley Dickson (1965), Professor, Exceptional Children Education, Ed.D., State University of New York at Buffalo

Richard C. Diedrich (1964), Director of Institutional Research, Ph.D., Syracuse University

Mary K. Dienst (1965), Associate Professor, Nutrition and Food Science, M.S., Cornell University

Charles E. Dimidio (1972), Admissions Counselor, M.S., State University College at Brockport

Jan L. Ditzian (1978), Lecturer, Technology, Ph.D., Purdue University

Frank P. Diulus (1973), Associate Professor, Behavioral and Humanistic Studies, Ph.D., University of Pittsburgh

Charles E. Dixon (1964), Associate Professor, Behavioral and Humanistic Studies, M.Ed., University of Toledo

Horace Donaldson (1974), Personnel Officer, B.A., Michigan State University

William A. Donnelly (1964), Professor, Journalism/Broadcast and Speech Communication, Ed.D., Teachers College, Columbia University

Thomas A. Donovan (1968), Associate Professor, Chemistry, Ph.D., University of Illinois

Edith F. Douglas (1949), Associate Professor, Business Studies, M.Ed., University of New Hampshire

Faculty & Staff

George W. Dowdall III (1973), Associate Professor, Geography and Sociology, Ph.D., Brown University

Jean A. Dowdall (1973), Associate Professor, Geography and Sociology, Ph.D., Brown University

Kenneth J. Downey (1968), Professor, Geography and Sociology, Ph.D., University of Illinois

Henry S. Dowski (1967), Associate Professor, Curriculum and Supervision, Ed.D., State University of New York at Buffalo

Nuala M. Drescher (1965), Professor, History and Social Studies Education, Ph.D., University of Delaware

Fraser B. Drew (1945), Professor, English and Distinguished Teaching Professor, Ph.D., University of Buffalo

Sherman F. Dreyer (1964), Professor, Technology, Ed.D., University of Oklahoma

Aurea Drzewiecki (1974), Financial Aids Counselor, M.A., Mount St. Joseph College

Walter M. Drzewieniecki (1963), Professor, History and Social Studies Education, Ph.D., University of Chicago

Robert C. DuBois (1962), Associate Professor, Interdisciplinary Sciences, Physics, M.S., Wayne State University

Marshall J. Duguay (1965), Professor, Exceptional Children Education, Ph.D., State University of New York at Buffalo

Kevin M. Durkin (1969), Director of Admissions and Records, M.S.Ed., State University College at Buffalo

John Dwyer (1970), Assistant Professor, English, Ph.D., State University of New York at Buffalo

Ralph R. Dykstra (1967), Assistant Professor, Curriculum and Supervision, M.S.Ed., State University College at Buffalo

Douglas P. Easton (1977), Assistant Professor, Biology, Ph.D., University of Iowa

Barbara J. Ebenstein (1975), Instructor, Performing Arts, M.A., Teachers College, Columbia University

Raymond P. Eberle (1966), Special Assistant to Vice President for Student Affairs, M.S.Ed., State University College at Buffalo

Frank C. Eckmair (1963), Professor, Fine Arts, M.F.A., Ohio University

Rupert J. Ederer (1967), Professor, Economics and Political Science, Ph.D., St. Louis University

Ann L. Egan (1971), Associate Professor, Consumer Studies and Home Economics, Ph.D., State University of New York at Buffalo

Bernard K. Egan (1961), Associate Professor, Art Education, and Coordinator of Student Teaching, M.Ed., Pennsylvania State University

John T. Egan (1970), Assistant Professor, Technology, Ph.D., State University of New York at Buffalo

Delwyn Ehresman (1978), Assistant Professor, Journalism, Broadcasting and Speech Communication, J.D., Case Western Reserve University

Mohamed El-Beahiry (1963), Professor, Economics and Political Science, Ph.D., Ohio State University

Gail M. Ellmann (1972), Assistant Librarian, M.L.S., State University of New York at Buffalo

Robert J. Elmes (1971), Associate Professor, Curriculum and Supervision, Ed.D., Indiana University

Susan T. Eluard (1977), College Physician, P.T., M.D., University of Sherbrooke

Sarah S. Emery (1970), Associate Librarian, M.L.S., State University of New York at Buffalo

Mary D. Engel (1969), Nurse, R.N., Mercy Hospital School of Nursing

William E. Engelbrecht (1973), Associate Professor, Anthropology and Chairperson of the Department, Ph.D., University of Michigan

Warren Enters (1968), Associate Professor, Performing Arts, B.A., University of Wisconsin

Donna L. Eskew (1976), Instructor, Performing Arts, M.A., University of Washington

Margery A. Facklam (1979), Publications Associate, Public Affairs Office, M.S.Ed., State University College at Buffalo

Loretta Fahey (1964), Nurse, M.S., University of Buffalo

Gerhard Falk (1957), Professor, Geography and Sociology, Ed.D., State University of New York at Buffalo

Stephen E. Faust (1975), Director, Residence Life, M.A., Shippensburg State College

Gisele Feal (1973), Associate Professor, Foreign Language and Chairperson of the Department, Ph.D., University of Michigan

Velma J. Febel (1956), Professor, Behavioral and Humanistic Studies, Ed.D., State University of New York at Buffalo

Joseph A. Fekete (1960), Professor, Geography and Sociology, Ph.D., University of Illinois

Herbert V. Ferster (1966), Professor, Behavioral and Humanistic Studies, Ph.D., State University of New York at Buffalo

Vincent J. Feudo (1977), Lecturer, Exceptional Children Education, M.S.Ed., University of Hawaii

Abel K. Fink (1956), Professor, Behavioral and Humanistic Studies, Ed.D., Teachers College, Columbia University

Joyce E. Fink (1965), Director of Public Affairs, and the State University Chancellor's Award for Excellence in Professional Service 1979, Ed.M., University of Buffalo

Daphne Finnegan (1978), Instructor, Performing Arts, M.A., University of Utah

Mary E. Fiore (1963), Professor, Performing Arts, Ph.D., Indiana University

Mildred J. Fischle (1965), Professor, Curriculum and Supervision, Ed.D., Ball State University

Lydia M. Fish (1967), Associate Professor, Anthropology, Ph.D., Indiana University

Marillyn M. Flavin (1967), Associate Professor, Curriculum and Supervision, Ed.D., State University of New York at Buffalo

Lawrence G. Flood (1977), Assistant Professor, Economics and Political Science, Ph.D., University of North Carolina at Chapel Hill

Irving S. Foladare (1958), Professor, Geography and Sociology, Ph.D., Columbia University

Catherine Foley (1970), Nurse, R.N., Meyer Memorial Hospital

Faculty & Staff

Monroe Fordham (1970), Assistant Professor, History and Social Studies Education, Ph.D., State University of New York at Buffalo

Richard J. Foster (1965), Associate Professor, Geosciences, M.S., Western Reserve University

Robert Fox (1968), Lecturer, English, M.Ed., State University of New York at Buffalo

Bernhard Frank (1965), Professor, English, Ph.D., University of Pittsburgh

Robert C. Frascatore (1967), Assistant Professor, Mathematics, M.A., University of Maine

Richard F. Frazita (1969), Assistant Professor, Curriculum and Supervision, Ed.D., State University of New York at Buffalo

John Frederick (1977), Assistant Director, Residence Life, M.A., Shippensburg State College

Barbara R. Frey (1963), Professor, Curriculum and Supervision and Vice President for Academic Affairs, Ed.D., Indiana University

Emanuel J. Fried (1973), Associate Professor, English, Ph.D., State University of New York at Buffalo

Ann K. Fulton (1975), Assistant Professor, Nutrition and Food Science, M.S., Eastern Michigan University

Diane Gale (1972), Associate Director, Counseling Orientation, Ph.D., State University of New York at Buffalo

Betty Gallagher (1946), Professor, Exceptional Children Education, Ph.D., University of Wisconsin

William T. Ganley (1972), Assistant Professor, Economics and Political Science, Ph.D., University of California at Berkeley

Monica M. Gensbittel (1952), Associate Librarian, M.L.S., State University College at Geneseo

Joseph D. Gentile (1977), Physician, P.T., M.D., State University of New York at Buffalo

Philip G. Gerace (1968), Materials Production Coordinator, Instructional Resources, B.S.Ed., State University College at Buffalo

Joseph E. Germano (1976), Instructor, Foreign Language, M.A., University of Colorado, Boulder

Faculty & Staff

Marion Giambra (1976), Teaching Specialist, Mathematics, Equal Opportunity Program, M.Ed., State University College at Buffalo

Arthur W. Gielow (1970), Technical Assistant, Geosciences, Physics, and Interdisciplinary Sciences

James Gillham (1977), Assistant Professor, Community/Social Services and Criminal Justice, Ph.D., University of Illinois at Urbana

Steven Gittler (1955), Professor, Curriculum and Supervision, Ed.D., University of Buffalo

Edward S. Gleason (1973), Technical Assistant, Geosciences, Physics, and Interdisciplinary Sciences

Warren L. Gleckel (1975), Assistant Professor, Exceptional Children Education and Chairperson of the Department, Ph.D., Syracuse University

Robert J. Glenn (1968), Associate Professor, Behavioral and Humanistic Studies, Ph.D., United States International University — California, Western Campus

Maryruth Glogowski (1975), Senior Assistant Librarian, M.L.S., State University of New York at Buffalo

Fedele J. Goi (1972), Director of Counseling Orientation, Ph.D., Temple University

James A. Gold (1977), Vice President for Student Affairs, D.Ed., Pennsylvania State University

Minerva J. Goldberg (1958), Professor and Assistant Director, Instructional Resources, Ed.D., State University of New York at Buffalo

Arlene H. Golden (1970), Associate Professor, English, Ph.D., Indiana University

Daniel Golden (1976), Associate Professor, English, Ph.D., Indiana University

Bonnie Gordon (1970), Assistant Professor, Design, M.F.A., Rochester Institute of Technology

Stuart Gorenstein (1978), Instructor, Journalism, Broadcasting, and Speech Communication, M.A., Syracuse University

Beverly Gounard (1978), Research Consultant, E.O.P., Ph.D., University of Waterloo

Jean-Francois Gounard (1978), Director, Foreign Student Advisement, doctorat d'universito, University of Bordeaux

Virginia E. Grabiner (1975), Assistant Professor, Geography and Sociology, Ph.D., (Criminology), University of California

Lee A. Grace (1973), Assistant Professor, Foreign Language, Ph.D., State University of New York at Buffalo

Mary Louise Grace (1975), Assistant Professor, Nutrition and Food Science, M.S., Cornell University

Albert Grande (1970), Professor, Behavioral and Humanistic Studies, Ph.D., University of Pittsburgh

Gregory W. Gray (1975), Assistant Professor, Business Studies and Chairperson of the Department (Acting), Ed.D., Pennsylvania State University

Leonard Graziplene (1968), Assistant Professor, Business Studies, Ph.D., State University of New York at Buffalo

Alwin C. Green (1972), Assistant Professor, Mathematics and Chairperson of the Department, Ph.D., Syracuse University

Cynthia D. Green (1979), Transcript Evaluator, Admissions, M.S.Ed., State University College at Buffalo

Dianne Green (1978), Assistant Professor, Economics and Political Science, Ph.D., University of Pittsburgh

Fred H. Greenberg (1964), Professor, Chemistry, Ph.D., University of Chicago

Barbara H. Griffo (1969), Assistant Professor, Curriculum and Supervision, M.S.Ed., State University College at Buffalo

James O. Grunebaum (1971), Associate Professor, Philosophy and Religious Studies and Chairperson of the Department, Ph.D., University of Chicago

Richard Gubernick (1969), Associate Professor, Fine Arts, M.F.A., University of Massachusetts

Joseph R. Guetta (1972), Technical Assistant, Technology, Associate Degree, American Television Institute

Gordon E. Guffner (1969), Associate Professor, Technology, M.S., State University of New York at Buffalo

David V. Gurney (1970), Associate Professor, Exceptional Children Education, Ed.D., State University of New York at Buffalo

James Guyker (1970), Assistant Professor, Mathematics, Ph.D., Lehigh University

Paul V. Hale (1963), Professor, English and Chairperson of the Department, Ph.D., New York University

Mary C. Hall (1969), Associate Librarian, M.L.S., State University of New York at Buffalo

Richard N. Hall (1964), Associate Professor, Industrial Arts and Director of Academic Standards and Advising, M.Ed., Washington State College

William P. Harden (1977), Admissions Counselor, Ed.M., State University of New York at Buffalo

Eleanor L. Hardy (1972), Counselor, M.S.W., University of Pennsylvania

Sidney L. Harring (1973), Assistant Professor, Geography and Sociology, Ph.D., Wisconsin University

Carole S. Harris (1973), Assistant Registrar and Coordinator of Registration

Genevieve M. Harris (1970), Technical Assistant, Biology

Fred J. Hartrick (1960), Associate Professor and Associate Director, Intercollegiate Athletics, M.S., Pennsylvania State University

Tirtadharyana Haryadi (1977), P.T. Psychiatrist, Health Center, M.D., Airlangga University

Sheila L. Hausrath (1973), Assistant Director, Residence Life, B.A., State University College at Buffalo

A. Jean Hawkes (1960), Assistant Professor, Health, Physical Education, and Recreation, Ed.M., State University of New York at Buffalo

Susan J. Hawkes (1973), Personnel Assistant, A.A.S., State University of New York at Buffalo

James D. Haynes (1967), Professor, Biology, Ph.D., Iowa State University

Gary Heiman (1976), Assistant Professor, Psychology, Ph.D., Bowling Green State University

Faculty & Staff

Ruth E. Heintz (1965), Associate Professor, Mathematics, Ed.D., State University of New York at Buffalo

Joan Helland (1978), Assistant Professor, Community/Social Services and Criminal Justice, Ph.D., University of California at Santa Barbara

Richard D. Heller (1965), Associate Professor, Health, Physical Education and Recreation, M.A. Wayne State University

Keith M. Henderson (1969), Professor, Economics and Political Science, D.P.A., University of Southern California

Franklin G. Hengerer, Jr. (1965), TV Producer-Director, M.F.A., Yale University

Nancy R. Henry (1970), Student Record Systems Analyst, Data Processing, B.S., State University of New York at Buffalo

Joyce D. Herceg (1969), Assistant Librarian, M.L.S., State University College at Geneseo

Donald A. Hess (1964), Professor, Exceptional Children Education, D.Ed., Pennsylvania State University

Donald R. Hetzner (1970), Associate Professor, History and Social Studies Education, Ed.D., State University of New York at Buffalo

Joseph K. Hichar (1970), Professor, Biology, Ph.D., Harvard University

Linda Hicks (1971), Lecturer, Exceptional Children Education, M.S.Ed., State University College at Buffalo

John L. Hill, Jr. (1958), Associate Professor, Art, College Learning Laboratory, M.A., Teachers College, Columbia University

Eugene W. Hillman (1949), Head Maintenance Supervisor

Albert A. Himmel (1962), Associate Professor, Chemistry, M.A., Montclair State Teachers College

Emil H. Hoch (1966), Professor, Industrial Arts and Vocational Education and Chairperson of the Department, Ed.D., University of Maryland

William G. Hoefert (1964), Associate Professor, Industrial Arts and Vocational Education, Ed.D., State University of New York at Buffalo

Melvin J. Hoffman (1968), Associate Professor, English, Ph.D., State University of New York at Buffalo

Faculty & Staff

- Warren J. Hoffman** (1977), Financial Aid Counselor, Ed.M., State University of New York at Buffalo
- Frank A. Hoffmann** (1966), Professor, English, Ph.D., Indiana University
- George T. Hole** (1965), Assistant Professor, Philosophy and Religious Studies, Ph.D., University of Rochester
- Paul R. Homer** (1954), Professor, Performing Arts, M.A., Teachers College, Columbia University
- Sharon Honig** (1973), Assistant Librarian, M.L.S., State University College at Geneseo
- Saul J. Horowitz** (1960), Associate Professor, Art Education, M.F.A., Cranbrook Academy of Art
- Robert E. Horvat** (1973), Assistant Professor, Geosciences, Physics, and Interdisciplinary Sciences and Chairperson of the Department, Ph.D., University of Wisconsin-Madison
- Elaine K. Horwitz** (1978), Instructor, Foreign Language, M.A., University of Illinois Urbana-Champaign
- Frederick C. Howe** (1972), Assistant Professor, Behavioral and Humanistic Studies, Ph.D., Michigan State University
- Constance Hsu** (1966), Assistant Librarian, M.S., Kansas State Teachers College
- Julius J. Hubler** (1948), Professor, Design, Ed.D., Columbia University
- Mary A. Hughes** (1978), Counselor, E.O.P., M.S., Canisius College
- Florence M. Hulett** (1967), Professor, Health, Physical Education, and Recreation and Chairperson of the Department, Ed.D., University of Oregon
- Irene M. Hulicka** (1967), Professor, Psychology, and Dean, Faculty of Natural and Social Sciences, Ph.D., University of Nebraska
- Shirley S. Hunt** (1974), Nurse, R.N., Buffalo General Hospital
- Daniel R. Hunter, Jr.** (1964), Associate Director, Financial Aids, 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, Curriculum and Supervision, Ed.D., State University of New York at Buffalo
- Carmen Iannaccone** (1966), Assistant Professor, Exceptional Children Education, Ed.D., State University of New York at Buffalo
- Barbara Ifflander** (1978), Assistant Professor, Nutrition and Food Science, M.S., University of Iowa
- Ivor Ilmet** (1967), Associate Professor, Chemistry, Ph.D., New York University
- Hadar Isseroff** (1968), Professor, Biology, Ph.D., Purdue University
- S. James Jakiel** (1963), Associate Professor, English, Ed.D., State University of New York at Buffalo
- R. Steven Janke** (1973), Associate Professor, Fine Arts, Ph.D., University of Michigan
- John Jauquet** (1968), Associate Professor, Design, M.F.A., University of Wisconsin
- Janie R. Jenkins** (1969), Associate Professor, Consumer Studies and Home Economics, M.S.Ed., Wayne State University
- Carrie L. Johnson** (1967), Placement Counselor, M.A., Columbia University
- Florence Johnson** (1968), Assistant Professor, College Learning Laboratory, M.S.Ed., State University College at Buffalo
- Michael Johnson** (1976), Instructor, Foreign Language, M.A., State University of New York at Buffalo
- D. Bruce Johnstone** (1979), President and Professor of Economics and Education, Ph.D., University of Minnesota
- Joan T. Jones** (1967), Nurse, R.N., Sisters of Charity Hospital
- Judith M. Jones** (1963), Associate Professor, College Learning Laboratory, M.S., State University of New York at Buffalo
- Julia B. Jones** (1962), Associate Professor, College Learning Laboratory, M.S.Ed., State University College at Buffalo
- Layman Jones, Jr.** (1966), Professor, Art Education, D.Ed., Pennsylvania State University
- Sister Martin J. Jones** (1969), Assistant Librarian, M.S.L.S., Catholic University of America

Faculty & Staff

- Andrew J. Joniak** (1974), Assistant Professor, Behavioral and Humanistic Studies, Ph.D., University of New Mexico
- Georgiana Jungels** (1974), Assistant Professor, Art Education, ATR, M.A., State University of New York at Buffalo
- Michael Kager** (1975), Coordinator, Student Orientation, M.S., State University College at Buffalo
- Louis J. Kaminski** (1973), Manager, College Store
- Estelle M. Kane** (1959), Associate Professor, Consumer Studies and Home Economics, M.A., University of Iowa
- Jurgis Karuza** (1978), Assistant Professor, Psychology, Ph.D., Wayne State University
- Mohsen D. Kashefi** (1973), Associate Professor, Technology, Ph.D., Louisiana State University
- Stanley F. Kasprzyk** (1960), Associate Professor, Industrial Arts and Vocational Education, Ph.D., Michigan State University
- Shirley Kassman** (1958), Professor, Design, M.S.Ed., State University College at Buffalo
- W. Maurice Kaushagen** (1974), Associate Professor, Technology, M.S., University of Illinois
- James M. Keech, Jr.** (1965), Associate Professor, English, Ph.D., Louisiana State University
- Lenore Kemp** (1950), Librarian, M.S.L.S., University of Buffalo
- John E. Kennell** (1969), Director of Student Activities, M.S., St. Francis College
- Aftab A. Khan** (1967), Associate Professor, Behavioral and Humanistic Studies, Ed.D., University of Maryland
- Azar Khosrovi** (1977), Associate Professor, Design, M.F.A., Yale University
- Richard J. Kieffer** (1974), Assistant Professor, Economics and Political Science and Chairperson of the Department, University of Missouri
- Marilyn Kihl** (1968), Assistant Librarian, M.L.S., State University College at Geneseo
- Kathleen Kilcullen** (1972), Instructor, College Learning Laboratory, M.S.Ed., State University of New York at Buffalo
- Yung-Mo Kim** (1968), Associate Professor, Economics and Political Science, Ph.D., State University of New York at Buffalo
- Thomas G. Kinsey** (1979), Assistant Professor, Interdisciplinary Sciences, Ph.D., University of Maryland
- Norman M. Kiracofe** (1973), Counseling Psychologist and Coordinator, Student Orientation, Ph.D., Temple University
- Arlene Kirchgessner** (1967), Assistant Professor, College Learning Laboratory, M.S.Ed., State University of New York at Buffalo
- Norma E. Klayman** (1964), Professor, Foreign Language, Ed.D., University of Buffalo
- Henry Klomp** (1955), Professor, English, Ph.D., University of Michigan
- Manny T. Koginos** (1967), Associate Professor, History and Social Studies Education, Ph.D., American University
- Robert H. Kohler** (1966), Professor, Physics, Ph.D., Massachusetts Institute of Technology
- Irene Kolber** (1975), Nurse P.T., R.N., Meyer Memorial Hospital
- Allan L. Korn** (1969), Associate Professor, Business Studies and Director, Co-op Education, Ed.D., State University of New York at Buffalo
- Eleonora Korzeniowska** (1970), Assistant Professor, Foreign Language, Doc., A. Mickiewicz University, Poznan, Poland
- Francis R. Kowsky** (1970), Associate Professor, Fine Arts and Chairperson of the Department, Ph.D., Johns Hopkins University
- Wanda M. Krauz** (1973), Assistant Librarian, M.S.L.S., Syracuse University
- James M. Kreider** (1969), Associate Professor, Exceptional Children Education, Ph.D., University of Michigan
- Leslie R. Krims** (1969), Associate Professor, Fine Arts, M.F.A., Pratt Institute
- Kalikathan S. Krishnamoorthi** (1976), Assistant Professor, Technology, M.A., M.S., State University of New York at Buffalo
- Wenzel Kupka** (1970), Technical Assistant, Design

Faculty & Staff

Theodore W. Kury (1963), Professor, Geography and Sociology, Ph.D., Louisiana State University

Donald Kutschall (1978), Instructor, Performing Arts, B.A., Ohio University

Jane B. Kweciak (1977), Assistant Professor, Foreign Language, Ph.D., Georgetown University

Richard R. La Croix (1973), Professor, Philosophy and Religious Studies, Ph.D., University of Minnesota

Marvin J. Lahood (1964), Professor, English, Ph.D., University of Notre Dame

James A. Lahren (1970), Professor, Industrial Arts and Vocational Education, Ed.D., State University of New York at Buffalo

Charles P. LaMorte (1955), Professor, Behavioral and Humanistic Studies, Ed.D., Columbia University

David E. Lampe (1969), Professor, English, Ph.D., University of Nebraska

David W. Landrey (1965), Assistant Professor, English, M.A., State University of New York at Buffalo

Henry J. Lang (1968), Associate Professor, History and Social Studies Education, Ph.D., Indiana University

Patricia Laska (1974), Technical Assistant, Chemistry, B.S., State University College at Buffalo

George M. Laug (1949), Professor, Biology, Ph.D., Syracuse University

Richard J. LeCastre (1972), Assistant to the Vice President for Student Affairs, M.S., State University College at Buffalo

Richard J. Lee (1973), Lecturer, Exceptional Children Education, M.S.Ed., State University College at Buffalo

Charles R. Lefcourt (1964), Associate Professor, English, Doct., University of Paris

Donald D. Leopard (1963), Associate Professor, History and Social Studies Education and Chairperson of the Department, Ph.D., Ohio State University

Francis S. Lestingi (1973), Associate Professor, Interdisciplinary Sciences, Ph.D., University of Wisconsin-Madison

Donald A. Leuschel (1966), Assistant Professor, Foreign Language, Ph.D., Indiana University

Jean S. Levy (1967), Teaching Specialist, Reading, Equal Opportunity Program, M.Ed., State University of New York at Buffalo

Anthony J. Lewis (1970), Associate Professor, English, Ph.D., University of Wisconsin

Myron E. Lewis, Jr. (1962), Professor, Technology and Chairperson of the Department, Ed.D., State University of New York at Buffalo

Peter F. Liberti (1968), Director, College Food Services, F.S.A., A.A.S., Erie Community College

Rosalyn Lindner (1974), Associate Professor, Geography and Sociology, Ph.D., University of Minnesota

William Licata (1959), Professor, Curriculum and Supervision and Vice President for Policy and Planning, Ed.D., State University of New York at Buffalo

Edna M. Lindemann (1946), Professor, Design and Director, Burchfield Center, Ed.D., Teachers College, Columbia University

Dorothy Jeanne Linek (1961), Assistant Professor, College Learning Laboratory, M.S.Ed., State University College at Buffalo

Chen Tung Liu (1969), Associate Professor of Mathematics, Ph.D., University of Rochester

Clifford V. Lochhaas (1967), Associate Professor, Exceptional Children Education, Ed.D., State University of New York at Buffalo

Harold R. Lofgren (1949), Professor, Art Education, M.A., Teachers College, Columbia University

Rex T. Lohmann (1975), Assistant Professor, Behavioral and Humanistic Studies, Ph.D., University of Pittsburgh

Marjorie Lord (1969), Assistant Librarian, M.L.S., State University of New York at Buffalo

Shirley S. Lord (1978), Assistant Professor, Community/Social Services and Criminal Justice, M.S.W., State University of New York at Buffalo

Jack C. Love (1962), Associate Professor, Industrial Arts and Vocational Education, M.A., Kent State University

Faculty & Staff

Bradley A. Lown (1970), Associate Professor, Psychology, and the State University Chancellor's Award for Excellence in Teaching, 1974, Ph.D., State University of New York at Buffalo

Robert B. Ludwig (1964), Assistant Professor, Mathematics, M.A., University of Missouri

Nancy J. Lund (1973), Associate Professor, Exceptional Children Education, Ph.D., University of Maryland

Patricia A. Lyons (1968), Director, Purchasing

James F. Mabry (1977), Associate Professor, Performing Arts and Chairperson of the Department, Ph.D., Washington University

Howard B. MacAdam (1961), Director, Intercollegiate Athletics, M.A., Michigan State University

Russell Macaluso (1966), Associate Professor, Curriculum and Supervision, and Director, College Learning Laboratory, Ed.D., State University of New York at Buffalo

John E. Mack, Jr. (1973), Associate Professor, Geosciences, the State University Chancellor's Award for Excellence in Teaching 1979, Ph.D., The Catholic University of America

Ronnie E. Mahler (1977), Assistant Professor, Community/Social Services and Criminal Justice, M.S.W., State University of New York at Buffalo

Heidi L. Mahoney (1970), Assistant Vice President for Faculty and Staff Relations, Ph.D., State University of New York at Buffalo

Sam Maislin (1975), Assistant Professor, Community/Social Services and Criminal Justice, Salmon P. Chase College of Law

Richard J. Makowski (1966), Television Engineer, Instructional Resources

Kathleen Mallea (1976), Assistant Professor, College Learning Laboratory, M.S., University of Wisconsin

Gail F. Maloney (1978), Assistant Professor and Associate Director, Intercollegiate Athletics, M.S., State University College at Buffalo

Charles Mancuso (1976), Instructor, Performing Arts, M.A., State University of New York at Buffalo

Stephen S. Mangione (1970), Photographer, Instructional Resources, B.F.A., Rochester Institute of Technology

Horace Mann (1955), Professor, Exceptional Children Education, Ph.D., Pennsylvania State University

Sarah L. Manning (1979), Professor, Consumer Studies and Home Economics and Chairperson of the Department, Ph.D., Cornell University

James Manno, Jr. (1978), Instructor, Business Studies, M.S.Ed., State University College at Buffalo

Kay E. Martin (1966), Assistant Professor, English, Ph.D., State University of New York at Buffalo

Paul D. Martin (1961), Professor, Fine Arts, M.F.A., Southern Illinois University

Eleanor Martinear (1972), Financial Aids Counselor, Ed.M., State University of New York at Buffalo

Kishio Matoba (1965), Associate Professor, Art Education, Ed.D., Syracuse University

June M. McArtney (1965), Assistant Professor, Mathematics, M.A., University of Buffalo

Dennis McCarthy (1977), Assistant Professor, Performing Arts, M.F.A., Carnegie Mellon

Richard J. McCowan (1968), Professor, Behavioral and Humanistic Studies, Ph.D., St. John's University

Terence R. McDonald (1972), Assistant Professor, Performing Arts, M.F.A., Southern Methodist University

James R. McDonnell (1964), Associate Professor, History and Social Studies Education, Ph.D., University of Wisconsin

Eva McEachern (1977), Assistant Director, Placement, M.S., State University of New York at Albany

G. Allen McFarren (1965), Professor, Social Studies Education, Ph.D., Ohio State University

Slawko Medinac (1975), Research Associate, Institutional Research, M.S.Ed., State University College at Buffalo

James H. Meeks (1974), Student Accounts Analyst, Administrative Data Processing, B.A., State University College at Buffalo

Faculty & Staff

Robert F. Mehl, Jr. (1966), Associate Professor, English, Ed.D., State University of New York at Albany

Daniel T. Meloan, Jr. (1966), Associate Professor, Chemistry, Ph.D., State University of New York at Buffalo

Winifred G. Mernan (1963), Director, Student Health Center, M.D., State University of New York at Buffalo

Howard J. Meyer (1950), Professor, Technology, M.Ed., State University of New York at Buffalo

Ronald Meyer (1968), Technical Assistant, Instructional Resources

Rudolf Meyer (1965), Associate Professor, Technology, M.A., State University of New York at Buffalo

Howard A. Meyers, Jr. (1964), Associate Professor, Health, Physical Education, and Recreation, M.S.Ed., State University College at Buffalo

Jeannette L. Miccinati (1978), Assistant Professor, Curriculum and Supervision, Ph.D., Cornell University

Christine Miller (1969), Technical Assistant to the Comptroller, B.A., State University College at Buffalo

Judith Miller (1974), Instructor, College Learning Laboratory, B.S.Ed., State University College at Buffalo

Rex Miller (1957), Professor, Industrial Arts and Vocational Education, State University Chancellor's Award for Excellence in Teaching 1978, Ed.D., University of Buffalo

Roy D. Miller (1977), Physician, P.D., M.D., State University of New York at Buffalo

Zofia W. Miller (1970), Financial Aids Counselor, Ed.M., State University of New York at Buffalo

Constance Milliner (1969), Technical Assistant, Chemistry

Benjamin H. Min (1964), Associate Professor, History and Social Studies Education, Ph.D., University of Massachusetts

Donald D. Mitchell (1974), Assistant Professor, Anthropology, Ph.D., Harvard University

Robert E. Moisand (1960), Associate Professor, Biology, Ph.D., University of Kentucky

Mabel D. Montgomery (1958), Professor, Mathematics, Ph.D., University of Buffalo

James J. Mooney (1963), Professor, Industrial Arts and Vocational Education, Ed.D., University of Maryland

Joseph J. Moran (1973), Assistant Professor, Behavioral and Humanistic Studies, Ph.D., Emory University

Edward L. Morgan (1969), Professor, Community/Social Services and Criminal Justice, and Chairperson of the Department, M.S., California State College at Los Angeles

John B. Morganti (1968), Professor, Psychology and the State University Chancellor's Award for Excellence in Teaching, 1975, Ph.D., State University of New York at Buffalo

Thomas J. Morrisey (1967), Professor, Industrial Arts and Vocational Education, Ed.D., University of Missouri

Martha Moss (1977), Assistant Librarian, M.A., University of Chicago

Thomas E. Mott (1967), Professor, Mathematics, Ph.D., Pennsylvania State University

John Murtaugh (1973), Associate Professor, Geosciences, Physics, Interdisciplinary Sciences, Ph.D., Ohio State University

Mary Lib Myers (1977), Director, College News Service, B.S.J., Ohio University

Valentine J. Nadolinski (1947), Professor, Biology, M.A., University of Buffalo

Lynne Napieralski (1970), Associate Professor, Design, M.S., State University College at Buffalo

Robert J. Naples (1973), Director, Commuter Services and Programs, M.S.Ed., State University College at Buffalo

Joseph V. Nardiello (1969), Assistant Professor, Foreign Language, Ph.D., Johns Hopkins University

Jill Nash (1974), Assistant Professor, Anthropology, Ph.D., Harvard University

Avtar Nat (1978), Instructor, Technology, M.S., State University of New York at Buffalo

Donna M. Nawrocki (1978), Coach, Intercollegiate Athletics, B.S., State University of New York at Buffalo

Hugh M. Neil (1964), Associate Professor, Art Education, Ed.D., State University of New York at Buffalo

Glenn R. Nellis (1968), Adviser to the President, M.P.A., Syracuse University

Paul R. Nevergold (1968), Technical Assistant, Geosciences, Physics, Interdisciplinary Sciences, M.Ed., State University of New York at Buffalo

Edward J. Newberger (1970), Associate Professor, Mathematics, Ph.D., Indiana University

Nancy J. Nichols (1973), Associate Professor, Curriculum and Supervision, Ed.D., Syracuse University

Sheila J. Nickson (1966), Affirmative Action/Human Development Officer

Ruth B. Noller (1969), Professor, Creative Studies, Ed.D., University of Buffalo

Linda Novitt (1974), Instructor, College Learning Laboratory, B.S.Ed., State University College at Buffalo

Leonard J. Nowicki (1964), Associate Librarian, M.S., Syracuse University

Donald E. O'Brien (1963), Associate Professor, Health, Physical Education and Recreation, M.S., Pennsylvania State University

Donald L. O'Brien (1969), Associate Professor, Curriculum and Supervision, Ed.D., State University of New York at Buffalo

William H. Oldenbrook (1968), Associate Professor, Foreign Language, Ph.D., Harvard University

Joseph Oliva (1965), Associate Professor, English, Ph.D., State University of New York at Buffalo

James R. Orgren (1966), Professor, Geosciences, Physics, Interdisciplinary Sciences, and the State University Chancellor's Award for Excellence in Teaching, 1977, Ed.D., State University of New York at Buffalo

Ki-Choul Oum (1967), Professor, Mathematics, Ph.D., Syracuse University

Vito R. Pace (1963), Professor, Industrial Arts and Vocational Education, Ed.D., State University of New York at Buffalo

Andrew Pacioni (1967), Associate Professor, Exceptional Children Education, M.A., Eastern Michigan University

Joseph M. Page (1961), Associate Professor, Exceptional Children Education, M.S., University of Wisconsin

James L. Palermo (1968), Associate Professor, Behavioral and Humanistic Studies, Ph.D., State University of New York at Buffalo

Anthony V. Paletta (1978), Instructor, Psychology, M.A., Wayne State University

Chester L. Palmer (1965), Professor, Health, Physical Education, and Recreation, Ed.D., Teachers College, Columbia University

Jean G. Palmer (1975), Assistant Professor, Health, Physical Education, and Recreation, M.A., Columbia University

John A. Palmer (1960), Professor, Behavioral and Humanistic Studies and the State University Chancellor's Award for Excellence in Teaching, 1977, Ph.D., State University of New York at Buffalo

Robert L. Palmer (1972), Counselor, E.O.P., M.S., Indiana University

L.E. Palmieri (1967), Librarian, Ph.D., University of Wisconsin

Howard H. Park (1969), Associate Professor, Economics and Political Science, Ph.D., University of Minnesota

William R. Parks (1978), Assistant Professor, Technology, Ed.M., State University of New York at Buffalo

Sidney J. Parnes (1967), Professor and Director, Creative Studies, Ph.D., University of Pittsburgh

Frank J. Pascarella (1970), Assistant Professor, Health, Physical Education, and Recreation, M.S., Springfield College

Antoinette Mann Paterson (1968), Professor, Philosophy and Religious Studies, and the State University Chancellor's Award for Excellence in Teaching, 1975, Ph.D., State University of New York at Buffalo

Peter S. Pawlik (1972), Associate Professor, Technology, Ph.D., State University of New York at Buffalo

Gerald O. Payne (1969), Professor, Curriculum and Supervision, Ph.D., University of Wisconsin

Faculty & Staff

Richard C. Pearce (1964), Director, Teacher Corps and Teacher Corps/Peace Corps Programs, Ed.D., State University of New York at Buffalo

Lois W. Pearson (1960), Professor, Curriculum and Supervision, Ed.D., University of Rochester

Frederick T. Pease (1978), Assistant Professor, Business Studies, M.Ed., State University of New York at Buffalo

Neale W. Peck (1967), Registrar, B.A., Colgate University

Thomas F. Peffer (1966), Space and Inventory Officer, Ed.M., State University of New York at Buffalo

Javier Penalosa (1978), Assistant Professor, Biology, Ph.D., Harvard University

Elizabeth G. Penn (1947), Professor, Behavioral and Humanistic Studies, Ed.D., Teachers College, Columbia University

Gretchen S. Perez (1966), Assistant Professor, Curriculum and Supervision, Ed.D., State University of New York at Buffalo

Stephen F. Phelps (1978), Assistant Professor, Curriculum and Supervision, Ph.D., Syracuse University

Dorothy B. Phillips (1970), Assistant Professor, Curriculum and Supervision, M.S.Ed., State University College at Buffalo

Gary Phillips (1974), Comptroller, C.P.A., Ed.M., Providence College

Joseph Piccillo (1967), Associate Professor, Art Education, M.S.Ed., State University College at Buffalo

Julia C. Piquette (1952), Professor, Journalism/Broadcast and Speech Communication, Ph.D., Northwestern University

Michael Pirowskin (1964), Coordinator, Admissions, E.O.P., M.S., State University of New York at Buffalo

Arthur W. Pitts, Jr. (1963), Professor, English, Ph.D., Louisiana State University

Theresa F. Platek (1968), Assistant Professor, English, Ed.D., State University of New York at Buffalo

Russell H. Plumb, Jr. (1978), Associate Director, Great Lakes Laboratory and Adjunct Assistant Professor, Chemistry, Ph.D., University of Wisconsin

Matthew J. Plunkett (1978), Instructor, Business Studies, M.B.A., Syracuse University

Allen H. Podet (1974), Assistant Professor, Philosophy and Religious Studies, D.H.L., Hebrew Union College

Leonard J. Poleszak (1956), Professor, Behavioral and Humanistic Studies, Ed.D., Michigan State University

Lansing R. Pollock (1970), Associate Professor, Philosophy and Religious Studies, Ph.D., University of Chicago

David Pomerantz (1977), Assistant Professor, Exceptional Children Education, Ph.D., University of Illinois

Phyllis B. Pomerantz (1977), Assistant Professor, Community/Social Services and Criminal Justice, M.S.W., University of Illinois at Urbana-Champaign

Dennis K. Ponton (1977), Associate Professor, Nutrition and Food Science and Chairperson of the Department, Ph.D., West Virginia University

N. John Popovich (1974), Assistant Professor, Industrial Arts and Vocational Education, Ed.D., Wayne State University

Marian Posdamer (1978), Instructor, Journalism, Broadcasting and Speech Communication, M.A., Syracuse University

Shirley A. Posner (1966), Associate Librarian, M.L.S., State University College at Geneseo

Thomas G. Powell (1970), Assistant Professor, History and Social Studies Education, Ph.D., Indiana University

Frederick W. Price (1967), Professor, Biology, Ph.D., King's College, University of London, England

June B. Prince (1948), Associate Professor, Health, Physical Education, and Recreation, M.Ed., Pennsylvania State University

Jill E. Provan (1976), Assistant for Instructional Resources, M.L.S., State University of New York at Buffalo

Thomas J. Quatroche (1964), Professor, Behavioral and Humanistic Studies, D.Ed., Pennsylvania State University

Vivian Quinn (1974), Systems Programming Specialist, B.S., University of Notre Dame

Ronald L. Rabin (1976), Assistant Professor, Journalism/Broadcast and Speech Communication, and Chairperson of the Department, Ph.D., Northwestern University

George E. Rackl (1959), Senior Maintenance Supervisor

Gauri S. Rai (1978), Associate Professor, Community/Social Services and Criminal Justice, Ph.D., Rutgers University

Ralph J. Raico (1967), Assistant Professor, History and Social Studies Education, Ph.D., University of Chicago

Periasamy K. Rajan (1978), Assistant Professor, Technology, Ph.D., Indian Institute of Technology, India

Eric A. Randall (1973), Associate Professor, Biology, Ph.D., Pennsylvania State University

Abdul H. Raoof (1967), Associate Professor, Economics and Political Science, Ph.D., New York University

Alex J. Ratkowski (1976), Assistant Professor, Economics and Political Science, Ph.D., University of Nebraska

Pulak Ray (1978), Assistant Professor, Geosciences, Ph.D., Louisiana State University

Martha J. Reddout (1970), Associate Professor, Nutrition and Food Science, M.P.H., University of North Carolina

Doreen Reed (1972), Assistant Professor, College Learning Laboratory, M.S., State University College at Buffalo

Chennareddy H. Reddy (1977), Assistant Professor, Technology, Ph.D., Osmania University, India

John E. Reedy (1965), Professor, English, D.Ed., Boston University

Howard M. Reid (1977), Assistant Professor, Psychology, Ph.D., University of Maine at Orono

Isaiah Reid (1970), Associate Professor, Curriculum and Supervision and Director, Educational Opportunity Program, Ed.D., Cornell University

Charles V. Render (1978), Counselor, Educational Opportunity Program, B.S., State University College at Buffalo

Faculty & Staff

Elbridge A. Renning, Jr. (1965), Assistant Professor, Geography and Sociology, M.A., State University of New York at Buffalo

Ronald M. Reuss (1964), Associate Professor, Biology, Ed.D., State University of New York at Buffalo

Richard A. Reynolds (1970), Associate Professor, Industrial Arts and Vocational Education, and Acting Assistant Vice President for Academic Affairs, M.A., San Francisco State College

William Reynolds (1968), Professor, Industrial Arts and Vocational Education, Ed.D., Cornell University

Carol Richards (1974), Assistant Librarian, M.L.S., State University of New York at Buffalo

Dean Richmond (1979), Editorial Associate, Public Affairs Office, B.S., Syracuse University

Robert E. Rivenbark (1966), Associate Professor, English, M.A., Johns Hopkins University

Joan W. Roberts (1978), Assistant Professor, English, Ph.D., University of Cincinnati

John E. Roberts (1968), Associate Professor, Industrial Arts and Vocational Education, Ed.D., State University of New York at Buffalo

Ronald E. Roblin (1969), Associate Professor, Philosophy and Religious Studies, Ph.D., University of North Carolina

John A. Roeder (1962), Professor, Industrial Arts and Vocational Education, Ed.D., State University of New York at Buffalo

David A. Rogers (1951), Associate Professor, History and Social Studies Education, Ph.D., University of Wisconsin

John R. Rogers (1966), Associate Professor, Art Education, M.F.A., Teachers College, Columbia University

Linda J. Roneker (1978), Student Record Systems Analyst, Administrative Data Processing

David Rooney (1979), Men's Basketball Coach, Intercollegiate Athletics, M.A., Westchester State College

Daniel P. Rosati (1977), Manager of Operations, Academic Computer Center, B.S., State University College at Buffalo

Faculty & Staff

Joan D. Rosso (1976), Instructor, English, B.A., D'Youville College

James D. Rotella (1968), Associate Professor, Behavioral and Humanistic Studies, Ed.D., State University of New York at Buffalo

Jerome Rothlein (1964), Associate Professor, Fine Arts, A.M., New York University

Agnes Roussos (1975), Lecturer, College Learning Lab, M.S., State University College at Buffalo

Neil H. Rudin (1969), Associate Professor, Foreign Language and Associate Dean, Faculty of the Arts and Humanities, Ph.D., State University of New York at Buffalo

Ellsworth M. Russell (1948), Professor, Industrial Arts and Vocational Education, Ed.D., Pennsylvania State University

James P. Russell (1979), Instructor, Geosciences and Physics, M.S., University of Illinois

Om P. Rustgi (1973), Associate Professor, Geosciences, Physics, and Interdisciplinary Sciences, Ph.D., University of Southern California

Michael J. Ryan (1979), Director, Research Services and Administration, M.A., Ball State University

Teresa C. Salas (1965), Professor, Foreign Language, Ph.D., Case Western Reserve University

Francis Salvamoser (1967), Associate Professor, College Learning Laboratory, M.Ed., Pennsylvania State University

Albert B. Santini (1964), Financial Systems Analyst, B.S., Indiana Institute of Technology

Anthony C. Sartori (1973), Coach, Intercollegiate Athletics, M.S., State University College at Buffalo

Donald J. Savage (1963), Professor, Performing Arts, Ph.D., University of Minnesota

Daniel T. Sawers (1974), Coordinator, Auxiliary Services, Faculty-Student Association, B.S., University of Tennessee

Douglas Schading (1975), Personnel Administrator, M.S.Ed., State University College at Buffalo

Arthur C. Schaeffer (1967), Television Producer-Director, M.A., California State University, San Diego

Kenneth L. Schank (1970), Professor, Industrial Arts and Vocational Education, Ed.D., University of Maryland

Winifred E. Schasel (1950), Associate Professor, Consumer Studies and Home Economics, M.S., Cornell University

William C. Scheffler (1958), Professor, Biology and Chairperson of the Department, Ed.D., State University of New York at Buffalo

William L. Scheider (1976), Instructor, Nutrition and Food Science, M.S., Cornell University

George A. Schena (1978), Assistant Professor, Exceptional Children Education, Ed.D., State University of New York at Buffalo

Rebecca J. Schenk (1976), Budget Research Assistant, B.A., State University College at Buffalo

Ned V. Schimizzi (1968), Associate Professor, Curriculum and Supervision, Ed.D., Indiana University

Robert C.G. Schmoyer (1967), Assistant Professor, Mathematics, M.A., Villanova University

Pamela Schoell (1976), Financial Aid Counselor, M.S., State University College at Buffalo

Estella Schoenberg (1967), Associate Professor, English, Ph.D., University of Tulsa

Kathleen K. Scholl (1978), Assistant Professor, Consumer Studies and Home Economics, Ph.D., Purdue University

Margaret M. Schrader (1949), Professor, Curriculum and Supervision, Ed.D., State University of New York at Buffalo

Edward M. Schulman (1977), Associate Professor, Chemistry, Ph.D., State University of New York at Stony Brook

William Schultz (1975), Assistant Professor, Technology, Ph.D., University of Wisconsin

William H. Schunak (1969), Associate Professor, Business Studies, Ed.D., State University of New York at Buffalo

Stephen E. Schwartz (1974), Instructor, Health, Physical Education, and Recreation, M.S.Ed., Northern Illinois University

Sheila Schwarzbarg (1973), Technical Assistant, Curriculum and Supervision, M.Ed., State University of New York at Buffalo

Claudine Schweber (1978), Assistant Professor, Community/Social Services and Criminal Justice, Ph.D., State University of New York at Buffalo

Charles B. Scofield (1963), Associate Professor, Industrial Arts and Vocational Education, M.Ed., Ball State Teachers College

Lawrence Scott (1977), Instructor, Technology, M.S., University of Miami

Stanford J. Searl (1969), Associate Professor, English, Ph.D., Syracuse University

Richard P. Seibert (1964), Assistant Professor, Geography and Sociology, Ph.D., State University of New York at Buffalo

Sharon Seklecki (1974), Instructor, College Learning Laboratory, M.S.Ed., State University College at Buffalo

Howard G. Sengbusch (1951), Professor, Biology, Ph.D., New York University

James E. Seward (1977), Assistant Professor, Journalism/Broadcast and Speech Communication, Ph.D., Ohio State University

Paula D. Serra (1977), Assistant Professor, Health, Physical Education, and Recreation, Ph.D., Michigan State University

Carl K. Seyfert (1967), Professor, Geosciences, Ph.D., Stanford University

Frank E. Sharkey (1966), Associate Professor, Industrial Arts and Vocational Education, M.A., Ball State Teachers College

James D. Shaw (1967), Assistant Professor, Mathematics, M.S., Fairleigh Dickinson College

James M. Shea (1967), Associate Professor, Technology, M.S.Ed., State University College at Buffalo

Indie S. Sheets (1969), Professor, Exceptional Children Education, Ph.D., George Washington University

Stanley E. Sheets (1968), Counselor and Clinical Psychologist, Ph.D., University of Wisconsin

Faculty & Staff

J. Stephen Sherwin (1956), Professor, English, Ed.D., New York University

Lester S. Sielski (1973), Physician, M.D., State University of New York at Buffalo

Elizabeth L. Simches (1967), Associate Professor, Exceptional Children Education, M.A., Hunter College

Noel Simmons (1959), Professor, Chemistry, Ph.D., University of Minnesota

Robert B. Simpson (1966), Professor, Behavioral and Humanistic Studies, Ed.D., Teachers College, Columbia University

Surjit Singh (1967), Associate Professor, Chemistry, Ph.D., St. Louis University

Julius P. Slavenas (1962), Associate Professor, History and Social Studies Education, Ph.D., University of Chicago

John J. Slivka (1969), Associate Professor, Mathematics, Ph.D., State University of New York at Buffalo

Phyllis A. Sloss (1970), Assistant Professor, English, Ph.D., State University of New York at Buffalo

Alden E. Smith (1965), Associate Professor, Biology, Ed.D., State University of New York at Buffalo

Edward O. Smith, Jr. (1963), Professor, History, Ph.D., Lehigh University

Leon Smith (1969), Assistant Director, Educational Opportunity Program, M.S.Ed., State University College at Buffalo

Manon Smith (1967), Associate Professor, Exceptional Children Education, M.Ed., Boston University

Lee R. Snyder (1975), Assistant Professor, Philosophy and Religious Studies, Ph.D., State University of New York at Buffalo

Ralph D. Sollars (1965), Professor, Curriculum and Supervision and Associate Dean, Faculty of Applied and Professional Studies, Ph.D., Ohio State University

Adrian Solomon (1968), Professor, Community/Social Services and Criminal Justice, Ph.D., Cornell University

Peter Sowiski (1974), Assistant Professor, Fine Arts, M.F.A., Ohio State University

Mary A. Spahn (1970), Professor, Curriculum and Supervision, Ed.D., State University of New York at Buffalo

Faculty & Staff

A. June Spero (1970), Adjunct Assistant Professor, Behavioral and Humanistic Studies, M.S., State University of New York at Buffalo

James R. Spotila (1972), Associate Professor, Biology, Ph.D., University of Arkansas

Eugene C. Stafford (1964), Associate Professor, Industrial Arts and Vocational Education, D.Ed., Pennsylvania State University

H. Gene Steffen (1946), Director, Instructional Resources, and State University Chancellor's Award for Excellence in Professional Service 1978, Ph.D., Cornell University

Annette Stein (1972), Associate Professor, College Learning Laboratory, Ed.D., State University of New York at Buffalo

Gregory P. Stein (1970), Assistant Professor, Geography and Sociology, Ph.D., University of Minnesota

Robert C. Stein (1965), Professor, Biology, Ph.D., Cornell University

Benjamin Steinzor (1953), Professor, Design, Ph.D., University of Southern California

Robert J. Stephen (1970), Assistant Dean and Director of Lifelong Learning, M.Ed., Pennsylvania State University

Samuel T. Stern (1962), Professor, Mathematics, Ph.D., University of Buffalo

Joseph M. Stetar (1975), Dean, Graduate Studies, Research, and Lifelong Learning, Ph.D., State University of New York at Buffalo

James L. Stewart (1963), Associate Professor, Industrial Arts and Vocational Education, M.S.Ed., Ball State Teachers College

Susan Stievater (1966), Associate Librarian, M.L.S., State University College at Geneseo

Neil R. Stillman (1963), Associate Professor, Technology, M.S.Ed., State University College at Buffalo

Raymond P. Stone (1959), Professor, Economics and Political Science, Ph.D., Princeton University

Mary T. Sullivan (1963), Nurse, M.S., Canisius College

Susan F. Sunshine (1976), Counselor, Educational Opportunity Program, M.A., Michigan State University

Henry J. Sustakoski (1964), Professor, English, B.A., State University of New York at Buffalo

I. Joyce Swartney (1968), Professor, Interdisciplinary Sciences, Ph.D., University of Wisconsin

Helen Sweat (1978), Counselor, Educational Opportunity Program, B.S., State University College at Buffalo

Carol R. Sweeney (1967), Adjunct Associate Professor, Biology, Ph.D., Ohio State University

Robert A. Sweeney (1966), Professor, Biology and Director, Great Lakes Laboratory, and State University Chancellor's Award for Excellence in Professional Service 1979, Ph.D., Ohio State University

Barlett C. Swett (1974), Assistant Professor, Curriculum and Supervision, D.Ed., Pennsylvania State University

Joel P. Swisher (1973), Management Systems Analyst, Data Processing, B.A., State University College at Buffalo

Richard A. Szaflarski (1967), Manager, Computer Operations

John Szczerbacki (1970), Instructor, College Learning Laboratory, M.S., State University of New York at Buffalo

Dominick A. Taddonio (1978), Assistant Professor, Health, Physical Education, and Recreation, M.Ed., Springfield College

Paul Tarantino (1964), Associate Professor, Design, M.F.A., Cranbrook Academy of Art

Josephine Terranova (1967), Nurse, R.N., Meyer Memorial Hospital

Irving H. Tesmer (1957), Professor, Geosciences, Ph.D., Syracuse University

Clement T. Tetkowski (1949), Professor, Design, Ed.D., Teachers College, Columbia University

Paul L. Thoms (1965), Assistant Professor, Exceptional Children Education, M.S.Ed., State University College at Buffalo

Hollis W. Tibbetts, Jr. (1965), Associate Professor, Mathematics, M.S., Syracuse University

James L. Tippet (1972), Assistant Professor, Community/Social Services and Criminal Justice, J.D. (LL.B.), State University of New York at Buffalo

George V. Tomashevich (1968), Professor, Anthropology, Ph.D., University of Chicago

Guy B. Torchinelli (1959), Associate Professor, Mathematics, M.S., University of Illinois

Richard Towne (1966), Professor, Exceptional Children Education, and State University Chancellor's Award for Excellence in Teaching 1974, Ph.D., Michigan State University

Doris M. Trafton (1957), Associate Professor, College Learning Laboratory, M.S., Syracuse University

Donald J. Treffinger (1979), Professor, Creative Studies, Ph.D., Cornell University

William A. Troy (1965), Director, Financial Aids, and the State University Chancellor's Award for Excellence in Administrative Services, 1977, M.S., State University of New York at Buffalo.

Terence J. Trudeau (1961), Professor, Industrial Arts and Vocational Education, Ph.D., Bowling Green State University

Donald W. Trueblood (1953), Associate Professor, Journalism/Broadcast and Speech Communication, M.A., Northwestern University

June H. Truesdale (1946), Director of Placement, B.S.Ed., State College for Teachers at Buffalo

Marvin Tunis (1968), Professor, Chemistry, Ph.D., University of Illinois

Rosalie Turton (1969), Director of Alumni Affairs, M.S. Ed., State University College at Buffalo

Mary Arnold Twining (1976), Assistant Professor, African and Afro-American Studies/Anthropology, Ph.D., Indiana University

Frances S.L. Tyau (1959), Associate Professor, College Learning Laboratory, Professional Diploma, Teachers College, Columbia University

Faculty & Staff

William E. Updegraff (1974), Assistant Professor, Technology, and Director of the Academic Computer Center, Ph.D., Ohio University

Jeannie Utz (1974), Librarian, College Learning Laboratory, B.S., Eastern Michigan University

Russell D. Utz, Jr. (1971), All-College Coordinator of Student Teaching, Ed.S., Eastern Michigan University

Marianne Vallet-Sandre (1973), Associate Professor, Design, and Chairperson of the Department, M.S.Ed., State University College at Buffalo

George Vangelow (1977), Executive Director, Buffalo State College Foundation, Inc., B.S., Rochester Institute of Technology

Rolland Van Hattum (1963), Professor, Exceptional Children Education, Ph.D., Pennsylvania State University

Russell C. Vannoy (1961), Assistant Professor, Philosophy and Religious Studies, Ph.D., University of Rochester

Gary E. Vickers (1974), F.S.A. Coordinator, B.A., State University of New York at Buffalo

Valerie A. Vogel (1978), Instructor, Psychology, M.A., Northern Illinois University

Conrad C. Vogler (1964), Associate Professor, Geography and Sociology, Ph.D., State University of New York at Buffalo

James J. Vullo (1960), Instructor, Fine Arts, Diploma, Art Institute of Buffalo and Honolulu Academy of Art

Samuel J. Wakshull (1963), Associate Professor, Exceptional Children Education, M.A., New York University

David B. Walch (1944), Librarian and Dean, Academic Services, Ph.D., University of Utah

Norman G. Walker (1963), Associate Professor, Curriculum and Supervision and Chairperson of the Department, Ed.D., Ball State University

Inez M. Ware (1959), Professor, Curriculum and Supervision, Ed.D., Teachers College, Columbia University

Richard Warren (1977), Assistant Professor, Psychology, Ph.D., Cornell University

Faculty & Staff

Henry J. Watts (1970), Professor, Geography and Sociology, Ph.D., Michigan State University

Raymond W. Waxmonsky (1968), Professor, Geography and Sociology and Chairperson of the Department, Ph.D., University of Illinois

Norman F. Weaver (1950), Professor, History and Social Studies Education, and the State University Chancellor's Award for Excellence in Teaching 1977, Ph.D., University of Wisconsin

Phillip A. Weaver (1969), Associate Professor, Exceptional Children Education, Ph.D., University of Michigan

William J. Weaver (1964), Associate Professor, Industrial Arts and Vocational Education, M.A., New York University

Martha A. Weber (1977), Instructor, Consumer Studies and Home Economics, M.A., Michigan State University

Barry H. Wech (1967), Technical Specialist, Great Lakes Laboratory

David P. Wegenast (1973), Assistant Professor, Community/Social Services and Criminal Justice, M.S.W., Wayne State University

Thomas Weinberg (1969), Assistant Professor, Geography and Sociology and the State University Chancellor's Award for Excellence in Teaching, 1973, Ph.D., University of Connecticut

James W. Wells (1968), Associate Professor, Physics, Ph.D., State University of New York at Buffalo

Walter Wells (1969), Assistant Professor, Design, B.S., State University College at Buffalo

Delcene West (1978), Counselor, EOP, M.S., Canisius College

James E. Westrope (1963), Associate Professor, Mathematics, M.A., University of Michigan

Wendel B. Wickland (1964), Assistant Professor, Biology and Director, International Education and Special Programs, M.S., Eastern Michigan University

John H. Whelan (1970), College Accountant, B.A., State University of New York at Buffalo

Richard A. Wiesen (1964), Professor, Mathematics and Acting Associate Vice President for Academic Affairs, Ed.D., State University of New York at Buffalo

Robert E. Wild (1965), Head, Graphics, Instructional Resources, B.F.A., Rochester Institute of Technology

Carole C. Williams (1968), Associate Professor, Health, Physical Education, and Recreation, Ed.D., University of North Carolina

DuWayne E. Wilson (1960), Associate Professor, Design, M.S.Ed., State University College at Buffalo

Maeruth P. Wilson (1967), Assistant Professor, English, M.Ed., State University of New York at Buffalo

Margaret L. Wilson (1966), Professor, Biology, M.D., University of Michigan Medical School

Robert C. Wilson (1963), Associate Professor, Design, M.A., Los Angeles College

Joseph F. Wincenc (1947), Professor, Performing Arts and Distinguished Teaching Professor, M.A., Teachers College, Columbia University

Idajean Windell (1973), Associate Professor, Exceptional Children Education, Ed.D., Indiana University

Lily M. Winiger (1975), Counselor, Educational Opportunity Program, B.A., State University of New York at Buffalo

Roland Wise (1955), Professor, Fine Arts, M.A., New York University

Claudette M. Wispe (1977), Instructor, Health, Physical Education and Recreation, M.A., University of Iowa

Anton Wolf (1963), Professor, Performing Arts, M.M., New England Conservatory of Music

Earl W. Wolfgruber (1960), Professor, Design, Ed.M., State University of New York at Buffalo

Carol J. Woodard (1969), Professor, Curriculum and Supervision, Ph.D., State University of New York at Buffalo

William D. Woodworth (1968), Professor, Curriculum and Supervision, Ed.D., State University of New York at Buffalo

Faculty & Staff

Gwendolyn Wooten (1975), Counselor, Educational Opportunity Program, B.A., Utica College

Michael R. Wright (1970), Assistant Professor, Performing Arts, Ph.D., University of California at Los Angeles

Mary V. Wyly (1972), Associate Professor, Psychology and the State University Chancellor's Award for Excellence in Teaching, 1976, Ph.D., University of Connecticut

James J. Yager (1974), Assistant to Director of Physical Plant, M.B.A., State University of New York at Buffalo

Ralph Yalkovsky (1962), Professor, Geosciences, Physics, and Interdisciplinary Sciences, Ph.D., University of Chicago

Tejaswini Yayathi (1976), Assistant Professor, Nutrition and Food Science, Ph.D., Pennsylvania State University

Bernard B. Yormak (1963), Professor, Exceptional Children Education, Ph.D., Pennsylvania State University

Darrell D. Young (1960), Professor, Interdisciplinary Sciences, Ed.D., State University of New York at Buffalo

Paul Zadner (1972), Associate Librarian, M.L.S., State University College at Geneseo

Sidney Zelson (1972), Professor, Foreign Language, Ph.D., Ohio State University

Laverne R. Zimmer (1952), Associate Professor, Early Secondary, College Learning Laboratory, M.A., Stanford University

Joseph S. Zingaro (1958), Professor, Chemistry and Chairperson of the Department, Ph.D., Syracuse University

Mary Ann Zulawski (1966), Data Entry Supervisor, Administrative Data Processing



Index

Academic Calendar 3, 4
 Academic Computing Center 336
 Academic Dismissal 356
 Academic Level Codes 356
 Academic Organization 62
 Academic Policies 345
 Academic Probation 355
 Academic Regulations,
 Waiver of 362
 Accreditation 370
 Activity Fee 26
 Administration 372
 Admission Procedures 22
 Admissions 17
 Advance Placement
 Examinations 356
 African and Afro-American
 Studies Courses 173
 African and Afro-American
 Studies (0734) Curriculum 70
 Aid to Native Americans 36
 Alternate Method of Earning
 Credit 356
 Anthropology Courses 175
 Anthropology (0733) Curriculum 72
 APACE Program 106
 Applied and Professional
 Studies, Faculty of 62
 Art (0105) Curriculum 74
 Art Education Courses 179
 Art Education (0100)
 Curriculum 75
 Art History (0130) Curriculum 77
 Arts and Humanities, Faculty of 62
 Athletics 58
 Attendance 347
 Auditing Courses 347

 B.A. and B.S., General
 Requirements 63
 B.A., Foreign Language
 Requirement 67
 B.F.A., General Requirements 69
 Basic Educational Opportunity
 Grant (BEOG) 34
 Biology Courses 181
 Biology (0725) Curriculum 78
 Biology—Secondary Education
 (0631) Curriculum 79
 Board of Trustees 367

Broadcasting (0707)
 Curriculum 80
 B.T., General Requirements 68
 Buffalo State College 7
 Burchfield Center 336
 Business and Distributive
 Education (0406)
 Curriculum 81
 Business Education (0404)
 Curriculum 82
 Business Studies: Special Studies
 (0430) Curriculum 83
 Business Studies Courses 185
 Butler Library 337

 Campus Resources 335
 Career Counseling 48
 Certification 361
 Certification, Dual 361
 Certification, Inter-state 361
 Certification, New York State 361
 Change of Grade 354
 Changing a Major 348
 Chemistry Courses 188
 Chemistry (0726) Curriculum 84
 Chemistry—Secondary Education
 (0632) Curriculum 85
 Class Attendance/Religious
 Beliefs 371
 Classical Languages and
 Literature 239
 College Academies 338
 College Aid Programs 40
 College Council 370
 College Fee 26
 College Learning Laboratory 338
 College Store 339
 Commencement 350
 Communication Disorders (0322)
 Curriculum 115
 Communication Skills 66
 Community/Social Services
 Courses 191
 Commuter Services 51
 Consumer and Family Studies
 Courses 193
 Consumer and Family Studies
 (0401) Curriculum 88
 Continuing Education 22, 46
 Contract 357

Cooperative Education 46
 Costs 26
 Course Challenge 357
 Counseling 54
 Courses 171
 Creative Studies 45
 Creative Studies Courses 197
 Credit, Unit of 362
 Criminal Justice Courses 198
 Criminal Justice (0771)
 Curriculum 92
 Criminalistics (0772)
 Curriculum 94
 Cross-Registration 358
 Curriculum 61

 Dance Courses 199
 Day Care Center 340
 Declaring a Major 348
 Departmental Entrance
 Requirements 21
 Departmental Major
 Requirement 67
 Design Courses 201
 Design (0175) Curriculum 95
 Dietetics (0410) Curriculum 96
 Directory 2
 Dismissal, Academic 356
 Distributive and Business
 Education Courses 206
 Dropping a Course 348
 Drug Education 361
 Dual Certification 361

 Early Admission 21
 Early Childhood (0431)
 Curriculum 100
 Earth Science—Secondary
 Education (0633) Curriculum 101
 Economics Courses 207
 Economics (0704) Curriculum 102
 Educational Opportunity
 Program (SEK) 19, 37, 50
 Education Courses 210
 Edward H. Butler Library 337
 Electives 68
 Elementary Education (0200)
 Curriculum 104
 Employment, Part-time 41

Engineering Technology
 Courses 217
 Engineering Technology: Electro-
 Mechanical (0820) Curriculum 110
 Engineering Technology: Electronics
 (0820) Curriculum 108
 Engineering Technology: Mechanical
 (0820) Curriculum 107
 English Courses 221
 English (0705) Curriculum 112
 English Requirement for
 Foreign Students 66
 English—Secondary Education
 (0610) Curriculum 113
 Estimated Budget 28
 Exceptional Children Education
 Courses 228
 Exceptional Children Education
 Curricula 115
 Extended Certification 105
 Professional Studies 62

 Faculty of Arts and Humanities 62
 Faculty of Natural and Social
 Sciences 62
 Faculty and Professional Staff 377
 Federal Aid Programs 34
 Fees 26
 Finances 25
 Financial Aid 30
 Fine Arts Courses 232
 Fine Arts Curricula 120
 Food Services 340
 Food Systems Management
 (0432) Curriculum 122
 FORCEP Program 106
 Foreign Language Courses 237
 Foreign Language Education
 Courses 238
 Foreign Language Requirement
 for B.A. 67
 French Courses 239
 French (0709) Curriculum 124
 French—Secondary Education
 (0651) Curriculum 124

 General-Liberal Requirement 63
 General Requirements for B.F.A. 69
 General Requirements for B.T. 68
 Geography Courses 241

Index

- Geography (0715) Curriculum 126
 Geology (0727) Curriculum 128
 Geosciences Courses 245
 Geosciences (0737) Curriculum 129
 German Courses 248
 German (0710) Curriculum 130
 Grades, Explanation of 352
 Grading 352
 Graduation 350
 Great Lakes Laboratory 342
 Greek Courses 249
 Guaranteed Student Loan Program 38

 Health Center 55
 Health Insurance 27
 Health, Physical Education and Recreation Courses 250
 Health Professions Advisement 47
 Health Science Courses 253
 Hebrew Courses 254
 History of College 368
 History Courses 255
 History (0716) Curriculum 132
 Home Economics Education Courses 263
 Home Economics Education (0400) Curriculum 132
 Honors 355
 Honors in Psychology 155
 Housing 52

 Incompletes 353
 Independent Study 358
 Individualized Study 44
 Industrial Arts Education Courses 264
 Industrial Arts Education (0500) Curriculum 134
 Industrial Technology Courses 269
 Industrial Technology (0810) Curriculum 135
 Information Systems Management Courses 271
 Information Systems Management (0825) Curriculum 136
 Instructional Resource Center 342
 Interdisciplinary Sciences Courses 274
 International Student Affairs 55
 International Students 20
 Inter-state Certification 361
 Italian Courses 277
 Italian (0711) Curriculum 137

 Jewish Studies Institute 45

 Journalism, Broadcasting and Speech Communication Courses 279
 Journalism (0708) Curriculum 138

 Latin Courses 283
 Law Enforcement Education Program 36
 Learning and Behavioral Disorders (0324) Curriculum 117
 Leave of Absence 349
 Library Courses 283

 Major, Changing a 348
 Major, Declaring a 348
 Map, Western New York 404
 Mathematics Competency 66
 Mathematics Courses 284
 Mathematics (0718) Curriculum 141
 Mathematics (0719) Curriculum 139
 Mental Retardation (0310) Curriculum 118
 Military Service 359
 Music Courses 290
 Music (0125) Curriculum 143

 National Direct Student Loan 35
 National Student Exchange 45
 Natural and Social Sciences, Faculty of 62
 New York State Aid Programs 37
 New York State Certification 361
 Nutrition and Food Science Courses 295

 Off-campus Study 358
 Office Administration: Special Studies (0433) Curriculum 144
 Office of Vocational Rehabilitation 39
 Orientation 50

 Part-time Employment 41
 Pass/Fail System 353
 Philosophy (0720) Curriculum 145
 Philosophy and Religious Studies Courses 298
 Physical Education Requirement 67
 Physical Handicap (0320) Curriculum 119
 Physics Courses 303
 Physics (0728) Curriculum 147
 Physics (0778) Curriculum 148
 Physics—Secondary Education (0634) Curriculum 149
 Placement Services 48

Index

- Polish Courses 305
 Political Science Courses 306
 Political Science (0722) Curriculum 150
 Pre-law Advisement 48
 Probation, Academic 355
 Program Descriptions 70
 Project 359
 Psychology Courses 309
 Psychology (0723) Curriculum 152
 Psychology (0724) Curriculum 153
 Psychology, Honors in 155

 Quality Point System 354

 Readmission 23
 Recreation Courses 317
 Refund Policy 29
 Regents Award 37, 38
 Regents College Scholarship 37
 Registration 346
 Registration, Cross 358
 Repeating Courses 354
 Residence Life 52
 Room and Board 26
 Russian Courses 317

 Safety Studies Courses 318
 SEEK Program 19, 37, 50
 Scholarships 40
 Short-term Loans 40, 41
 Significant Dates 368
 Skill Development Requirement 66
 Social Science (0729) Curriculum 156
 Social Security 35
 Social Studies Education Courses 320
 Social Studies Education (0640) Curriculum 157
 Social Work (0435) Curriculum 158
 Sociology Courses 321
 Sociology (0730) Curriculum 159
 Spanish Courses 327
 Spanish (0714) Curriculum 160
 Spanish—Secondary Education (0656) Curriculum 161
 Special Credit 19
 Special Study Options 44
 Speech (0120) Curriculum 163
 State Aid to Native Americans 39
 State University of New York 363
 State University Units 365

 Student Activities 56
 Student Expenses 26
 Student Government 58
 Student Life 54
 Student Retention 23
 Student Teaching 105, 361
 Student Union 343
 Students 43
 Study Abroad 44
 Summer Session 23
 Supplemental Educational Opportunity Grant (SEOG) 34
 Swahili Courses 328

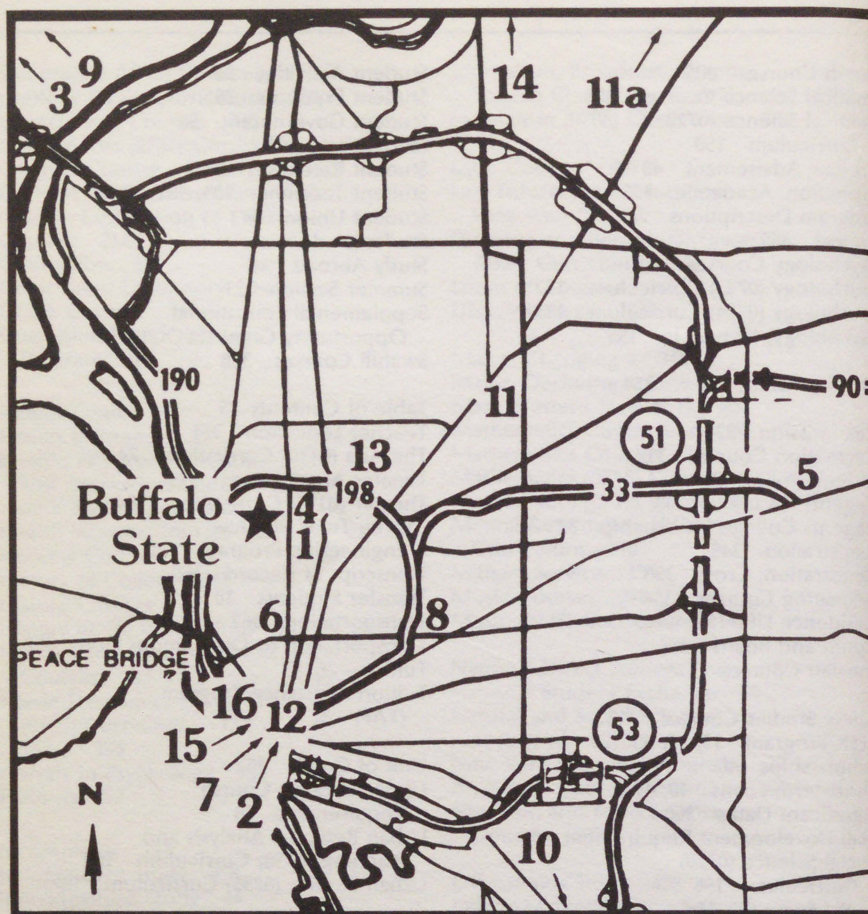
 Table of Contents 5
 Teacher Education 361
 The Arts (0110) Curriculum 74
 Theater Arts Courses 329
 Theater (0115) Curriculum 164
 "Three-Two" Physics-Engineering Program 150
 Transcript of Record 360
 Transfer Students 18
 Transportation 362
 Transportation to Off-Campus Sites 362
 Tuition 26
 Tuition Assistance Program (TAP) 37

 Unit of Credit 362
 Upper Division Course Requirement 68
 Urban Regional Analysis and Planning (0738) Curriculum 165
 Urban Studies (0735) Curriculum 167

 Veterans Administration Education Benefits 35
 Visiting Student Program 45
 Vocational Rehabilitation Office 39
 Vocational Technical Education Courses 332
 Vocational Technical Education (0800) Curriculum 168

 Waiver of Academic Regulations 362
 Withdrawal 350
 Withdrawal from Courses 348
 Work-Study 35

 XTEP Program 106



Points of Interest in the Buffalo State College Area

- | | |
|--|--|
| 1. Albright Knox Art Gallery | 9. Niagara Falls |
| 2. Amtrak Terminal | 10. Rich Stadium,
Orchard Park |
| 3. Artpark, Lewiston | 11. State University of
New York at Buffalo |
| 4. Buffalo and Erie County
Historical Society | 12. Studio Arena Theatre |
| 5. Greater Buffalo
International Airport | 13. Zoo |
| 6. Kleinhans Music Hall | 14. Melody Fair |
| 7. Memorial Auditorium | 15. Convention center |
| 8. Museum of Science | 16. Shea's Buffalo Theater |

Admissions Office
State University
College at Buffalo
1300 Elmwood Avenue
Buffalo, New York 14222

Non-Profit Org.
U.S. Postage
PAID
Buffalo, N.Y.
Permit No. 277



JONES, SISTER MARTIN J.
BUTLER LIBRARY
(BL) 208