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College Catalog, 1972-1973

Buffalo State College

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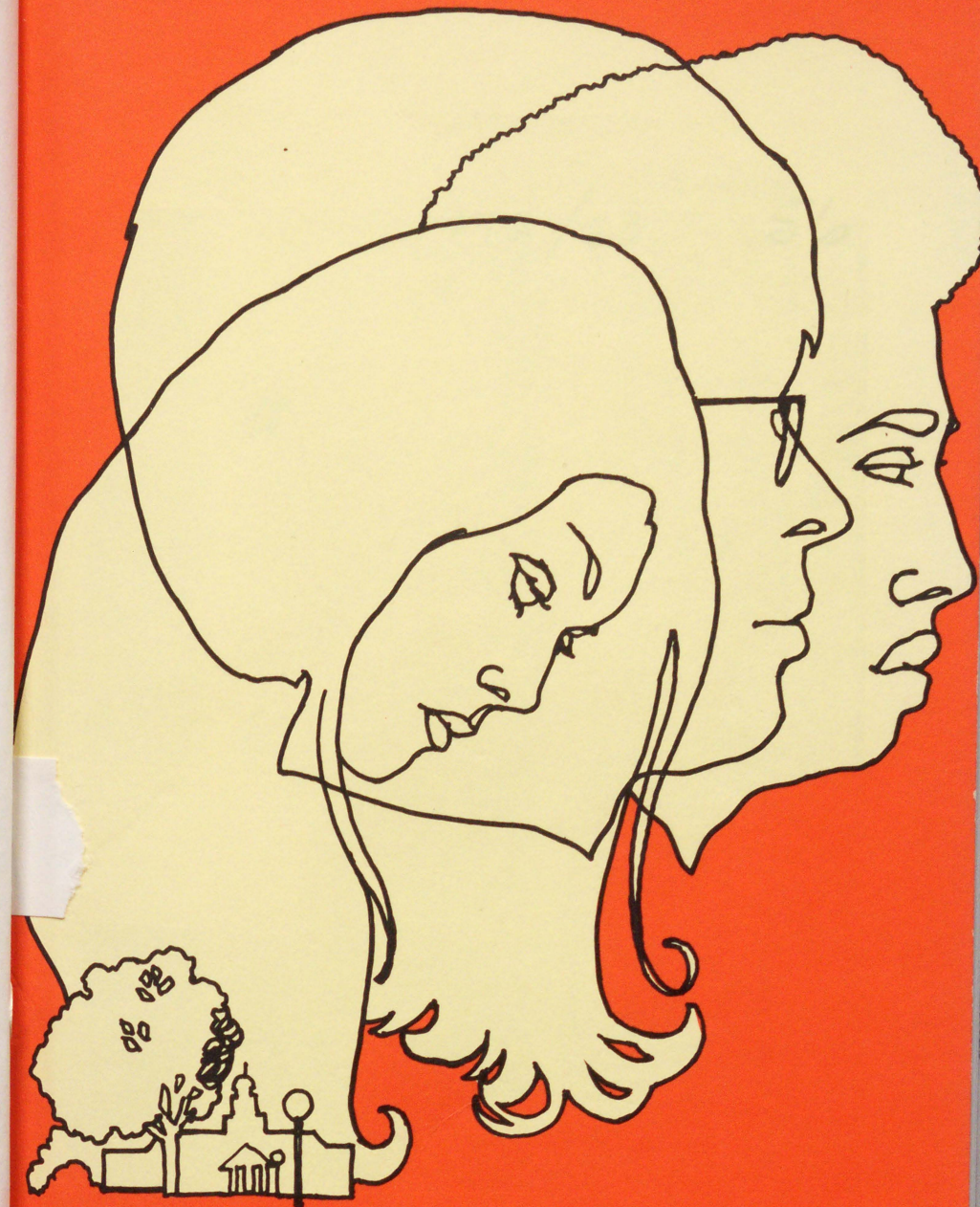
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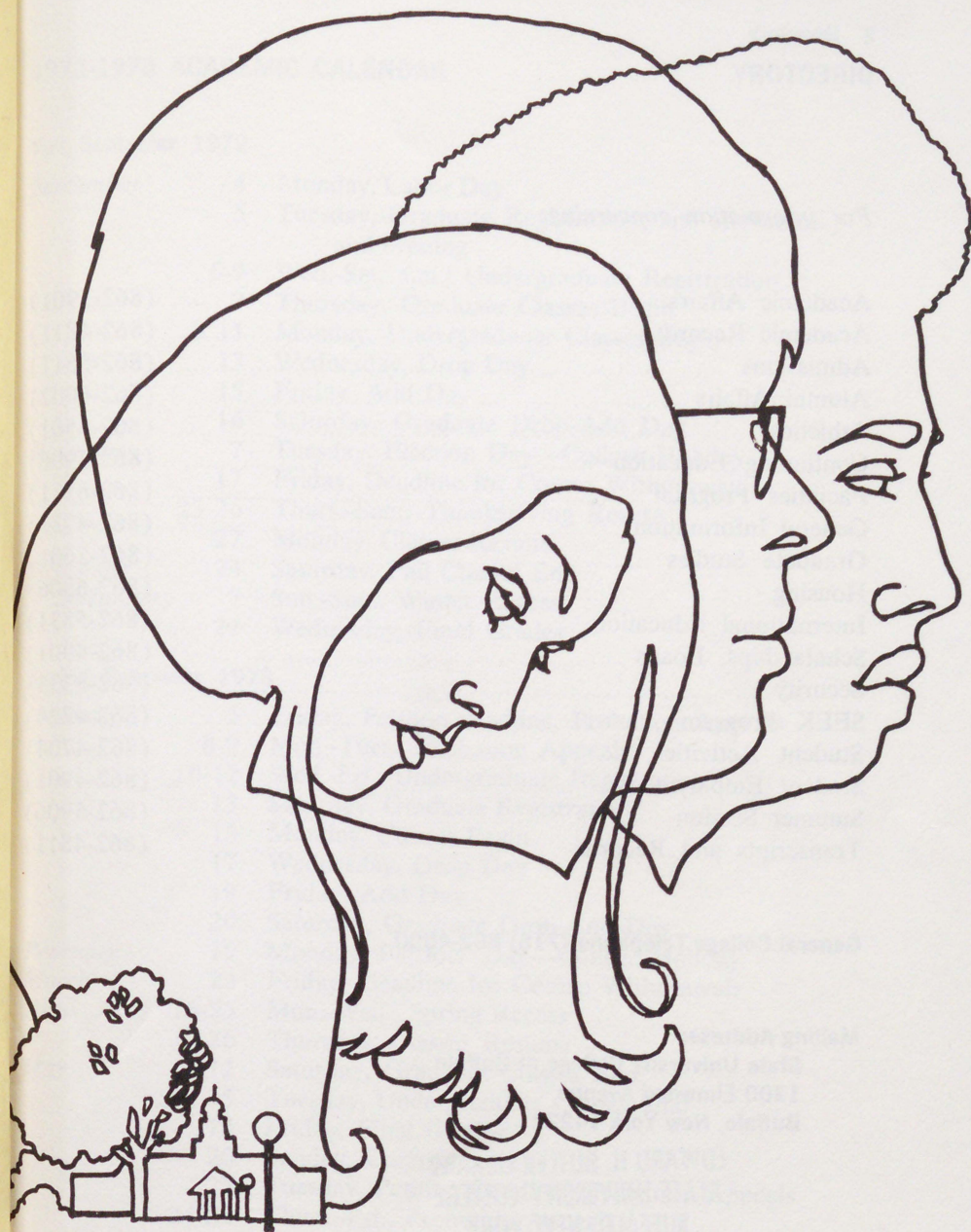


State University of New York

College at Buffalo

Undergraduate Catalog 1972-73

EDWARD H. BUTLER LIBRARY
STATE UNIVERSITY COLLEGE
BUFFALO, NEW YORK



State University of New York

College at Buffalo

Undergraduate Catalog 1972-73

EDWARD H. BUTLER LIBRARY
STATE UNIVERSITY COLLEGE
BUFFALO, NEW YORK

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General College Telephone (716) 862-4000

Mailing Address:

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

**EDWARD H. BUTLER LIBRARY
STATE UNIVERSITY COLLEGE
BUFFALO, NEW YORK**

This Catalog is current as of June 1, 1972. The College reserves the right to make changes in policy and regulations, as circumstances dictate, subsequent to publication. Each student is expected to have knowledge of the information contained in this Catalog and in other College publications.

1972-1973 ACADEMIC CALENDAR**Fall Semester 1972**

<i>September</i>	4	Monday, Labor Day
	5	Tuesday, Graduate Registration; late afternoon and evening
	6-9	Wed.-Sat. a.m., Undergraduate Registration
	7	Thursday, Graduate Classes Begin
	11	Monday, Undergraduate Classes Begin
	13	Wednesday, Drop Day
	15	Friday, Add Day
	16	Saturday, Graduate Drop-Add Day
<i>November</i>	7	Tuesday, Election Day—College Holiday
	17	Friday, Deadline for Course Withdrawals
	23-26	Thurs.-Sun., Thanksgiving Recess
	27	Monday, Classes Resume
<i>December</i>	23	Saturday, Fall Classes End
<i>24-January</i>	7	Sun.-Sun., Winter Recess
	27	Wednesday, Final Grades

Spring Semester 1973

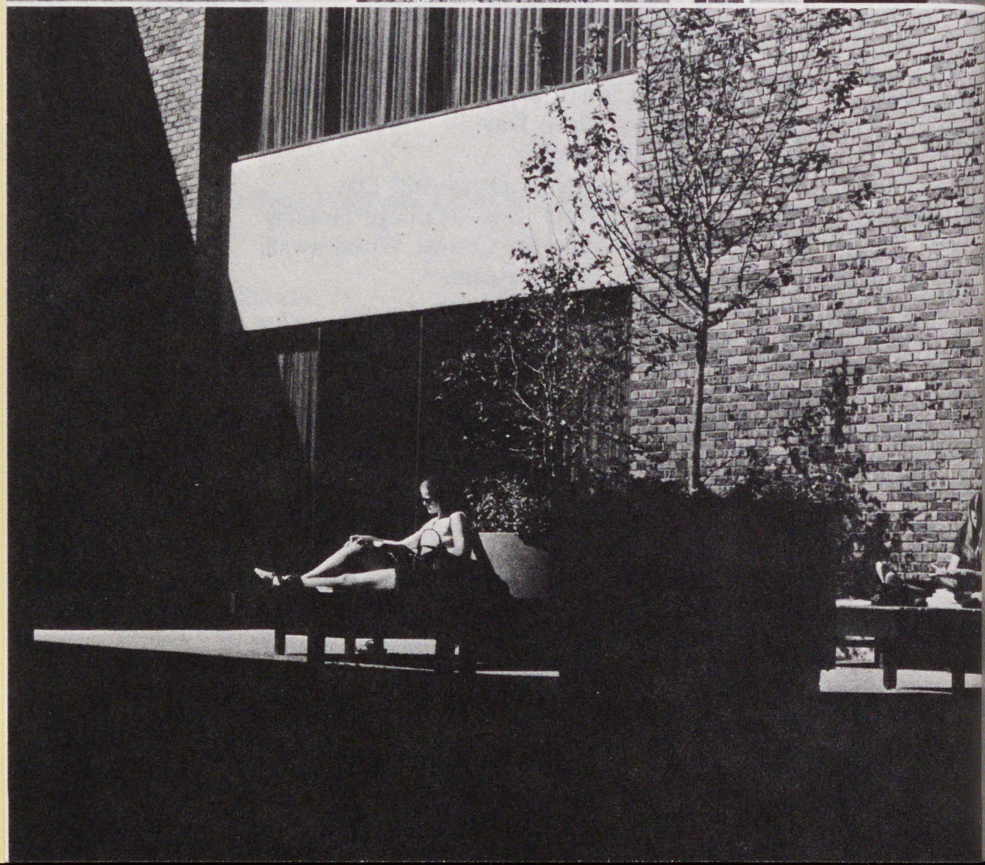
<i>January</i>	5	Friday, Petition deadline, Probation Appeals
	8-9	Mon.-Tues., Probation Appeals
	10-12	Wed.-Fri., Undergraduate Registration
	13	Saturday, Graduate Registration
	15	Monday, Classes Begin
	17	Wednesday, Drop Day
	19	Friday, Add Day
	20	Saturday, Graduate Drop-Add Day
<i>February</i>	19	Monday, Patriots' Day—College Holiday
<i>March</i>	23	Friday, Deadline for Course Withdrawals
<i>April</i>	16-25	Mon.-Wed., Spring Recess
	26	Thursday, Classes Resume
<i>May</i>	12	Saturday, Graduate Classes End
	15	Tuesday, Undergraduate Classes End
	18	Friday, Final Grades
	20	Sunday, Commencement
	22	Tuesday, Petition Deadline, Probation Appeals
	24-25	Thurs.-Fri., Probation Appeals

Summer Session 1973

June 4-July 13	Mon.-Fri.	<i>First Session</i>
June 25-August 3	Mon.-Fri.	<i>Middle Session</i>
July 16-August 24	Mon.-Fri.	<i>Last Session</i>
August 6-August 24	Mon.-Fri.	<i>Post Session</i>

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STATE UNIVERSITY COLLEGE
BUFFALO, NEW YORK



STUDENT EXPENSES

For the year 1972-73 the Board of Trustees of the State University of New York have instituted the following tuition fees:

UNDERGRADUATE—New York State Resident

Lower Division—(56 credit hours or less completed)	\$325.00/Semester
Upper Division—(more than 56 credit hours completed)	\$400.00/Semester

UNDERGRADUATE—Out of State Students

Lower Division—(56 credit hours or less completed)	\$537.50/Semester
Upper Division—(more than 56 credit hours completed)	\$650.00/Semester

Required College Fees

	First Semester	Second Semester	Total
Tuition—Lower Division	\$325.00	\$325.00	\$650.00
Additional for Upper Division	75.00	75.00	150.00
College Fee	12.50	12.50	25.00
United Student Government Fee	31.00	31.00	62.00
Insurance Premium ¹	15.50	15.50	31.00
Total—Lower Division	\$384.00	\$384.00	\$768.00
Upper Division	459.00	459.00	918.00
Freshman Orientation Fee	\$ 17.00		

Estimate of Yearly Expenses

	Resident Student	Commuter
Tuition & Fees—Lower Division	\$ 768	\$ 768
Additional for Upper Division	150	150
Books & Supplies ² (Estimates)	190	190

¹Premium subject to change. This fee may be waived upon presentation of proof of insurance to the Bursar's Office at registration each year.

²The following studies should increase the estimates by: Art \$230/Year; Industrial Arts \$150/Year.

6 Student Expenses

Room ³ —Double Occupancy	650	
Board ⁴ —19 Meals/Week	610	
Personal Items	460	460
Transportation	250	250
Total—Lower Division	\$2928	\$1668
Upper Division	3078	1818

Out of State Students — Additional Tuition

Additional Cost—Lower Division	\$425/Year
Additional Cost—Upper Division	\$500/Year

Fees and Collections

A combined charge of \$62.00, half payable each semester, is collected annually from each student. This fund is apportioned as follows:

1. The Activity Tax supports student publications, dramatic presentations, musical organizations, film showings, convocations, and social activities.
2. The Athletic Tax supports a comprehensive intramural and varsity athletic program for men and women and admits students to all athletic events at the College.
3. The College Camp Tax is used to develop, equip, and maintain the College Camp for student use.

A charge of \$10.00 will be made for late payment of tuition, fees, room rents or other charges.

Refunds

Tuition

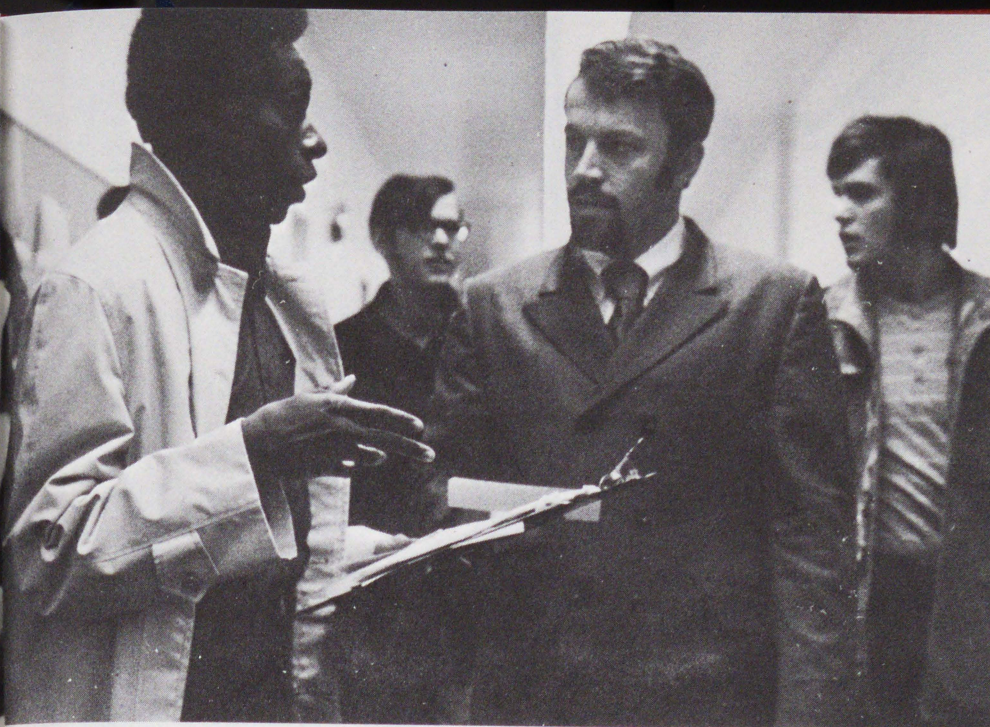
A student who is given permission to cancel his registration shall be liable for payment of tuition in accordance with the following schedule:

	Liability
1st Week	—0—
2nd Week	30%
3rd Week	50%
4th Week	70%
5th Week	100%

A student who is dismissed for academic or disciplinary reasons prior to the end of an academic term shall be liable for *all* tuition and fees for that term.

³This does not include the cost of telephone service. Students will arrange for the service with the telephone company.

⁴This rate is determined by the Faculty-Student Association Board of Directors. It is subject to change. Other meal plans may be available.



College Fee

The college fee is not refundable under ordinary circumstances.

Activity Fees

The activity fees will be refunded in full only if the student ceases to be a U.S.G. member within fourteen days of classes. No partial refunds will be made.

Room Rentals

After a student has registered and once occupied a room, there shall be no refund for the balance of that *quarter* except as noted below:

1. When a full-time student enters the military service.
2. When a student has withdrawn due to circumstances beyond his control, the President of the College may, at his discretion, approve a refund.
3. When a summer session student withdraws from college.

Refunds allowable under (1-3) above shall be determined as follows:

Rentals will be calculated by dividing the amount paid by the number of weeks in the period paid for, and multiplying this by the number of weeks of occupancy. A room occupied for a portion of a week shall be considered as having been occupied for a full week.

Please contact the Bursar's Office for the information relative to exceptions to the stated policy.

STUDENT FINANCIAL AID

Financing a college education can be a perplexing and disturbing problem for many college students. Recognizing this, the Office of the Vice-President for Student Affairs has provided a Financial Aids Office where students can receive advice and assistance.

Operating on the premise that every qualified student deserves an education, this College is participating in the Federal student aid programs as set forth in the National Defense Education Act, the College Work-Study Program of the Economic Opportunities Act, the Educational Opportunity Grants of the Higher Education Act of 1965, and the Law Enforcement Education Program.

With the help of federal assistance, wise fiscal planning by parents, and timely consultation with the financial aids counselors, nearly every student who is academically qualified will be able to finance a college education.

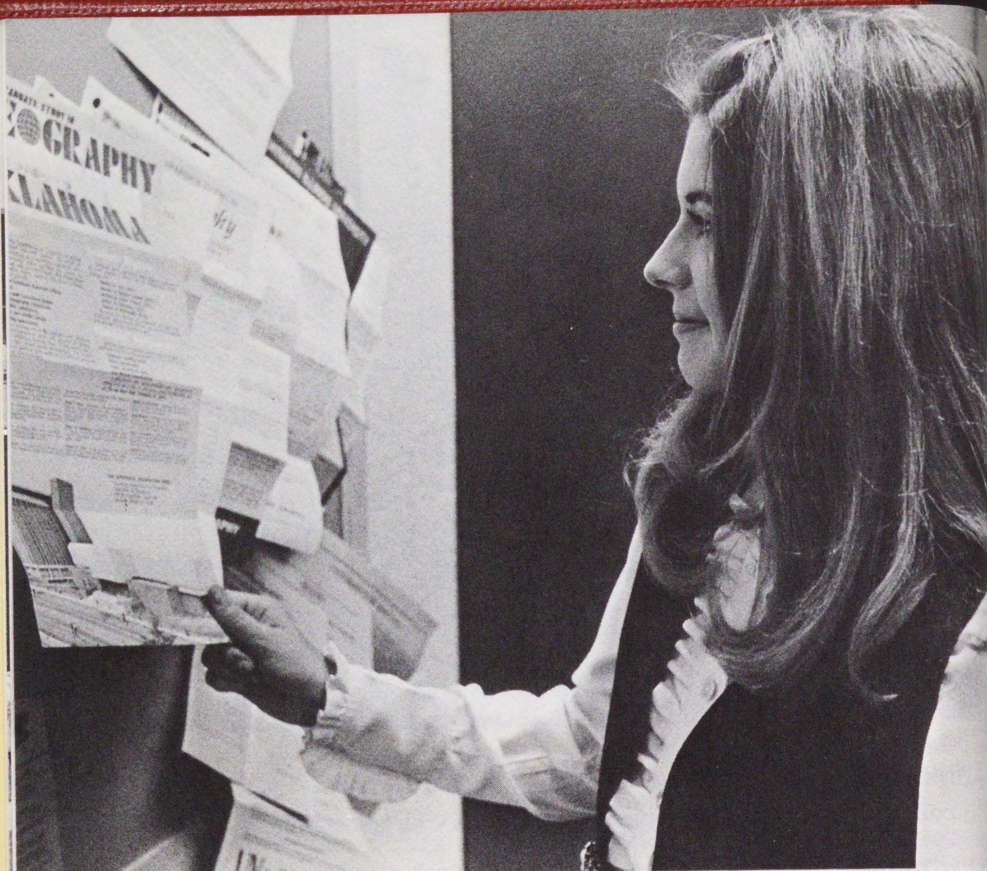
How to Apply

To apply for a federally sponsored grant, loan, or job:

Dependent Students: Must file (1) a Parents' Confidential Statement and, (2) a S.U.C.B. Financial Aid Application. The Parents' Confidential Statement may be obtained from high school guidance counselors or from this office. It must be completed by your parents or guardians and then sent to: College Scholarship Service, Box 176, Princeton, New Jersey 08540. *To meet the S.U.C.B. deadline, the Parents' Confidential Statement must be submitted to the College Scholarship Service at least one month before S.U.C.B.'s due date.* The S.U.C.B. College Financial Aid Application is only available through this office. You must complete the form and return it directly to S.U.C.B., the Office of Financial Aid to Students.

Independent Students: Must file (1) the S.U.C.B. Self-Supporting Form by the appropriate deadline date, (2) a notarized Parents' Certification of Independence (also available from our office only) and (3) the appropriate tax forms must be included with the application. According to the Administrative Memorandum #2-72 from the Office of Education, Department of Health, Education and Welfare, *you are ineligible for consideration as an independent student for Federal financial aid if you:*

- a. will be claimed as an exemption for federal income tax purposes by either parent or other person (except spouse) for the 1971 and 1972 calendar years;
- b. have or will receive assistance of *any kind in excess* of \$200 in value from one or both parents or from persons acting in loco parentis for



the 1971-72 and 1972-73 academic years. (This includes room, board, money, etc.);

- c. have or will reside with your parents or others acting in loco parentis for four (4) months or more since September 1971.

Application filing deadlines are:

February 28—Full Year Consideration

November 15—Spring Only Consideration

Forward all applications to:

Director, Office of Financial Aid to Students

Perry Hall 100

State University College at Buffalo

1300 Elmwood Avenue

Buffalo, New York 14222

Appointments to discuss problems or questions with the Financial Aids Counselor may be made in Perry Hall, Room 100.

Educational Opportunity Grants

Enacted late in 1965 this new program is designed to aid the student, who without financial aid could not obtain a college education. A grant of \$200 to \$1,000 (or one-half of the need, whichever is less) per year is awarded to a student in accordance with his total needs compared to the total of his family's resources. It is granted to the student who: (1) demonstrates exceptional financial need, having met the federal government's financial requirements for eligibility; (2) is a full-time undergraduate who maintains good academic standing; (3) is a citizen or permanent resident of the United States.

Loans

National Defense Student Loan—Full-time and half-time undergraduate students in good academic standing who are citizens or permanent residents of the United States and who show evidence of financial need may borrow as much as \$500 per semester, \$1,000 per year up to \$5,000 for their undergraduate years. Full-time and half-time graduate students can apply up to a maximum of \$2,500 per year. Total loan money borrowed cannot exceed \$10,000. Repayment with three percent interest begins nine months after leaving college and may be spread over ten years. There is *no* interest while the student is enrolled on a half or full-time basis. Those who serve as full-time teachers in an elementary or secondary school in a non-depressed area and in institutions of higher education may have 10 percent of the loan cancelled for each year of full-time teaching up to 50 percent of the loan. Those who teach in a depressed area, as defined by the government, or teach exceptional education may have 15 percent of their loan

cancelled per year of teaching up to 100 percent of the loan. Students who enter military service after June 30, 1970, can have up to 50% of their loan cancelled at the rate of 12½% per year on loans made after April 13, 1970.

New York Higher Education Assistance Bank Loans—Full-time and part-time students who are residents of New York State and show evidence of financial need may borrow under this plan from a local bank. Repayment begins 9 months after leaving college and may be spread over ten years. There is no interest while attending college and seven percent after graduation or withdrawal. Applications may be secured from most banks or the Office of Financial Aid for Students. Usually the student must be a resident of a community considered by the bank to be in its lending area. Students should apply to a local bank where they, or their parents, have been customers or depositors. Applications may be made at any time.

Alumni Association Loan Fund—Seniors in good standing are eligible for interest-free loans up to \$300, repayable within one year after graduation.

Elizabeth C. Lange Loan Fund—Established in 1925 by the Alumnae of the Home Economics Division as a memorial to Miss Elizabeth C. Lange, the first director of the Home Economics Division. It is an interest-free loan fund for Home Economics students. Application forms are available in the Office of the Director of Home Economics.

New York State Home Economics Association Loan Fund—Established in 1962 by the New York State Home Economics Association. It is an interest-free loan fund for Home Economics students. Application forms are available in the Office of the Director of Home Economics.

Vocational Technical Education Program Alumni Loan Fund—Established in 1964 by the Vocational Technical graduates of the teacher certification program. It is an interest-free loan fund for Vocational Technical students. Information and application forms are available in the Office of the Director of Vocational Technical Education.

American Association of University Women—Maintains the Chamberlin Loan fund which makes loan money available to female students in good academic standing. Informational brochures are available in the Financial Aids Office.

Short Term Loans

The Financial Aids Office administers several small loan funds. Students may borrow funds on short notice. All full-time enrolled students are eligible for these interest-free loans which must be repaid within one month. The funds from which emergency loans are issued include:

Delta Kappa Clifford Braun Loan Fund—Established in 1959 by the Fraternity and the parents of Clifford Braun in his memory.

Faculty Wives Club Emergency Loan Fund—Established in 1951 and supported annually through generous contributions.

Memorial Student Aid Loan Fund—Established in 1954 by the Dean of Students Office from memorial gifts for students.

Morton R. Lane Fund—Established in 1964 in memory of Morton R. Lane, former Senior Financial Secretary of the College.

The Catherine E. Reed Loan Fund—Established in 1955 to honor the former Associate Dean of Students, Miss Catherine E. Reed. It has since had contributions made in her memory.

Spartans Club Loan Fund—Established in 1958.

Alcoa Foundation Loan Fund—Established by the College from gifts received from the Alcoa Foundation of Pittsburgh, Pennsylvania.

Business and Professional Women's Club of Buffalo, Inc. Loan Fund—Established in 1959 to assist young women residents of Buffalo to meet unexpected expenses in connection with their college careers.

Hube Coyer Loan Fund—Established in 1956 to honor Professor Coyer, former coach of the basketball team.

Agnes Gordon Student Loan Fund—Established in 1968 in the memory of Agnes Gordon from the contributions of the Frontier Unit 116 of the American Contract Bridge League.

Delta Kappa Gamma Emergency Loan Fund—Established in 1955 by Delta Kappa Gamma, the Honorary Women Teachers Organization.

Faculty Wives Club Loan Fund—Established in 1957, this fund has continued to grow in order to help meet the needs of students.

Alice Osgood Hamilton Loan Fund—Established in 1956.

The Harry J. Steel Loan Fund—Established in 1955 to honor the former Director of Education.

The Residence Center Council Loan Fund—Established in 1955 to grant loans to students who are living away from home.

Rita Viette Memorial Loan Fund—Established in 1958 from the contributions received in memory of Rita Viette by students, faculty and her parents.

In regard to the payment of emergency loans, including deferred payments at the beginning of school, a student who is delinquent for more than 30 days in his repayment, will face the possibility of suspension from

classes and a "hold" placed on his records until the debt is paid. (A hold on records prevents further registration, issuance of a transcript or graduation.) A student who allows himself to gain a bad credit rating in this manner should not expect further financial assistance.

Part-Time and Summer Employment

The Office of Financial Aid to Students assists students in meeting some of their expenses through part-time employment on campus or in the community. A major aspect of part-time employment is the College Work-Study Program. This program is a form of financial aid funded through the federal government and the college or off-campus agencies. Eligible students may work up to a maximum of fifteen (15) hours per week. Positions are available in most college departments and many off-campus agencies.

In addition to the College Work-Study Program, there are a limited number of on campus part-time positions with the Faculty-Student Association. These include positions in Food Service, in the Bookstore, and in the Recreational facilities of the Student Union. For information, contact the Director of the particular area directly.

For students seeking off-campus employment, a part-time job file is maintained in the Office of Financial Aids. As openings occur, job cards are posted.

A summer employment file is also maintained. Students have the opportunity to study openings at camps, resorts, in government, and in business and industry.

The experience of college students has proved the advisability of counting on part-time employment for only incidental and not essential expenses. The student is expected to give serious consideration to the additional demands which part-time employment will place on his time and energy. The College recommends fifteen (15) hours of work a week as a maximum. Students should also make a realistic appraisal of their total financial situation prior to seeking employment. The Director, Office of Financial Aids to Students, will assist students in making a sound appraisal of their financial problems and suggest various solutions.

Inquiries concerning employment should be addressed to:

Office of Financial Aids to Students
100 Perry Hall
State University College at Buffalo
1300 Elmwood Avenue
Buffalo, New York 14222

New York State Aid

Regents College Scholarship—New York State residents who are U.S. citizens, plan to attend a New York State college, and qualify in a competitive examination during their final year of high school are eligible. Children of deceased or disabled veterans may qualify for separate non-competitive awards. A student who receives a Regents Scholarship will also receive a Scholar Incentive Award. With the combination of these awards, a student can receive from \$250 to \$1,000 per year depending on need and the tuition paid.

Scholar Incentive Program—United States citizen who are New York State residents and who attend a New York State college on a full-time basis at the undergraduate or graduate levels are eligible. The award ranges from \$100 to \$600 yearly depending on need and tuition paid. Scholar Incentive may be received for a maximum of 4 years of undergraduate study and 4 years of graduate study.

State University Scholarship—This assistance is available to those whose net taxable income falls below \$2,000. Application is made in the College Bursar's Office.

Candidates can seek advice from their high school guidance counselor, the SUCB Financial Aids Office or The University of the State of New York, The State Education Department, Regents Examination and Scholarship Center, 800 North Pearl Street, Albany, New York 12204. *Program guidelines and cash value of awards are subject to change.*

Law Enforcement Education Program

The Law Enforcement Education Program was designed to provide financial aid for college studies to police, court, and correction employees of publicly funded agencies; and students preparing for a career in these fields. Tuition grants and student loans are available through this program.

Loans — The Law Enforcement Student Loan Program makes available \$1,800 in loans per academic year to full-time students enrolled in undergraduate or graduate programs leading to degrees in areas directly related to law enforcement. Repayment begins six months after graduation or termination of full-time study. Seven percent interest begins when the grace period terminates. These loans can be cancelled at the rate of 25 percent for each year of full-time employment in a public, state, local or Federal law enforcement agency.

Grants — The Law Enforcement Student Grant Program makes available payments for tuition, fees and books not exceeding \$200 per academic quarter or \$300 per semester for full-time or part-time enrollment in an undergraduate or graduate program leading to a degree or certificate in an area related to law enforcement. Beneficiaries must be full-time em-

ployees of a publicly funded law enforcement agency and must agree to remain in the service of the employing agency for a period of two years following completion of any course of study funded by a grant. Failure to honor this commitment obligates the grant recipient to repay the full amount of grant funds. Program guidelines and maximum value of awards are subject to change.

Scholarships

Scholarships are generally offered to students showing outstanding qualities of leadership, academic capability and performance. Evidence of financial need is usually important in the selection of scholarship winners. The Office of Financial Aid to Students administers scholarships offered by outside organizations and provides an information service on outside scholarships. Awards range from \$100 to \$300 in value. Notices of all scholarships administered through the Financial Aids Office are printed in the student newspaper.

Alumni Scholarship—Established in 1962, by the Alumni Board, these scholarships are awarded annually at Moving-Up Day. Applications are available at the Financial Aids Office and the Alumni Office in the spring semester.

Additional Alumni Scholarships—Alumni chapters representing geographic areas—Rochester, Syracuse, Albany, New York City; clubs—Interim, Siena; and fraternal organizations—Delta Sigma and Delta Kappa are offering awards to undergraduates who are from the designated areas or who are members of the particular organizations. Information and applications are available at the Alumni Office.

The Buffalo Council of Parents and Teachers Scholarship—Several scholarships of one hundred dollars each are awarded to students in an Education Curriculum annually by the Buffalo Council of Parents and Teachers. Candidates must be graduates of Buffalo Public High Schools and residents of Buffalo. Application is made through the Student Financial Aids Office.

College Club of Buffalo, Inc. Scholarship—This scholarship of \$800 is awarded to an entering freshman woman who is a commuter student. The award will be \$200 per year for four years providing the student maintains good academic standing.

Luella Chapman Scholarship—Alpha Tau Sigma Sorority awards an annual scholarship to a non-sorority woman who is judged to be of high character and leadership. This scholarship is made anonymously to a woman student who is in financial need. The person is selected by the faculty adviser of the Sorority and the Director of Financial Aids.

Neumann-Clement Scholarship—An annual award to a Sociology student in memory of Professors George B. Neumann and Stephen Clement of

the Sociology Department. Application should be made to the Student Financial Aids Office.

Exceptional Education Scholarships—Grants of financial assistance to students majoring in mental retardation, physical handicap, communication disorders are often available through fraternal organizations such as the Elks, Lions, and National Association for Retarded Children. State and Federal monies awarded to the division are available for senior students in these fields. Contact the Director of the Division of Exceptional Children Education.

Faculty Wives Association—The State University College at Buffalo Faculty Wives Association offers scholarships to full-time students who have completed at least one semester of course work at the College and who have a minimum 3.00 cumulative average. Applications are available in the spring semester in the Financial Aids office.

Raymond M. Fretz Scholarship—Established in 1952 by Delta Kappa Fraternity to honor the former Dean of Men. It is awarded annually to a man and a woman who are selected by the fraternity for their outstanding citizenship and scholarship.

Anna M. Gemmill Scholarship in Chemistry—This annual award of \$100 is contributed by Miss Margaret V. Dupré, Professor Emeritus of Chemistry, to the outstanding junior co-ed in Chemistry. Selection is made by the Department of Chemistry.

Methodist Mother's Club Scholarship—An annual award that is open to all students. Selection is based on financial need with academic consideration and is made by the Club through the Office of Financial Aids for Students. Apply in the Spring semester for this scholarship.

Phi Delta Kappa—A professional education fraternity established this scholarship in 1971 for a deserving male student in Education. P.D.K. Scholarships will be awarded to a male student on the basis of financial need, scholarship and leadership. For further information, contact the Financial Aids Office in the Fall.

Pi Kappa Rho Scholarship—Awarded annually by the sorority, this scholarship is presented to a man or a woman selected on the basis of financial need, scholarship, and the potential for teaching.

Wheelock Scholarship—Since 1931 a cash award granted annually by the New York State Association of Secondary School Administrators to a male secondary education student in the senior class who shows promise of becoming an outstanding secondary school teacher or administrator. The scholarship entitles the recipient to an all expense paid trip to the annual convention of the Association. The candidate is selected by a committee of secondary education faculty members.

Women Teachers Association of Buffalo Scholarship—Several scholarships are granted to upperclass women who are planning on entering the teaching profession. Applications are reviewed and selection is made by the Office of Financial Aids for Students. They are awarded once a year, usually in the Fall, and are based on need and academic excellence.

The Charles A. Messner Latin Scholarship—Awarded for the first time in Spring of 1970 to a student excelling in Latin studies. Preference is given to a junior who will complete a sequence in Latin in the senior year. The amount represents the interest earned on a savings account to which contributions have been made by Dr. Messner and his former Latin students.

EXCEPTIONAL EDUCATION DIVISION AWARDS

Federal Fellowships—Graduate students can apply for a variety of assistantships supported by USOE grants. Application should be made before April 1 for the following September in the Exceptional Education office, Ketchum Hall 201.

CAUDELL DIVISION SCHOLARSHIPS

Students majoring in any of the four departments of Caudell Division of Applied Arts and Sciences are eligible to apply for the following scholarships which are awarded on the basis of leadership, ability, initiative, financial needs, and academic grade average unless otherwise noted.

Blance E. Kelsey—Donor: New York State Federation of Home Bureaus*.

Nassau-Suffolk Home Economics Extension Service Scholarship—Donor: Home Economics Extension Service in Nassau and Suffolk Counties of Long Island. Awarded every other year. Last awarded for use in school year 1969-70. Eligibility: Nassau and Suffolk County Residents are given preference.

Ontario County Home Demonstration Scholarship—Donor: Ontario County Extension Services. Awarded every other year. Last awarded for use in school year 1969-70. Award based on financial need, scholarship and leadership; Ontario County residents are given preference.

Grace A. Powell—Donor: New York State Federation of Home Bureaus*.

Alma R. Roudebush—Donor: Phi Upsilon Omicron, Mu Alumnae Chapter. Eligibility: Nomination by the faculty, and cumulative average of 3.0 or higher. Awarded for use in the student's senior year.

Mildred Sipp—Donor: Phi Upsilon Omicron, Mu Alumnae Chapter. Eligibility: Scholarship, leadership, professional interest. Awarded for use in the student's senior year.

Mary S. Switzer—Donor: Buffalo and Erie County Extension Services#.

Katherine Stuebel—Donor: Buffalo and Erie County Extension Services#.

To apply for any of these scholarships except the Alma Roudebush, students obtain a single application form from Room CH 114F after February 18; with this application (he, she) is then considered for all scholarships offered. Applications must be filed in Room CH 114F by April 7. Awards are announced in May; recipients receive checks in September in the amounts of the scholarships. In the event that any of the recipients of the scholarships fail to return to Caudell Division in September, the scholarship is given to the next qualified candidate.

Decisions on applications are made by a committee of the faculty of Caudell Division with the following exceptions: *Faculty Committee plus representatives from the New York State Federation of Home Bureaus; #Faculty Committee plus representatives from the Buffalo and Erie County Extension Services.

INTERNATIONAL AFFAIRS BOARD SCHOLARSHIP

Scholarships are awarded annually during the spring semester to foreign students and U. S. citizens who are SUCB students studying abroad. Applications are available in the International Education office to those who have completed at least one semester of study at SUCB. Awards will be made on the basis of financial need, academic achievement, and recommendations.

Scholarship Information

Many scholarship funds have severely limiting geographical, religious, curricula, occupational, or other criteria. The outstanding student, however, who is willing to do the research required to find a foundation which does not restrict him from applying, and who is willing to write the necessary letters, should be able to gain scholarship assistance. Sources for this information are available in the Student Financial Aids Office. Entering freshmen will also find that their high school guidance counselors have information about scholarships awarded by organizations and foundations in their home communities. In some instances scholarships are available through individual departments. Contact Department Chairman for additional information.

Veterans and Military Affairs

Disabled Veterans and War Orphans' Benefits—All disabled veterans (Chapter 31), who plan to use their education benefits must register at the beginning of each semester at the Financial Aids Office.

The qualified veteran will receive a maximum of 48 months of entitlement at the following rate in addition to payment of tuition, fees, books, and supplies.

School	No Dependents	One Dependent	Two Dependents	Each Additional Dependent
Full-time	\$135	\$181	\$210	\$6
¾ Time	\$ 98	\$133	\$156	—
½ Time	\$ 67	\$ 91	\$102	—

Those students who are planning to obtain benefits for the first time must make an application for educational benefits to the Veterans Administration. It is recommended that this application be made before registering at the College.

War Orphans' Educational Assistance Act of 1956 (Chapter 35)—Educational benefits are provided to children of veterans who die in service or as a result of a disability received while in the service during World War I, World War II, or the Korean Conflict. The education allowance of \$175.00 per month for four years of college is paid to full-time students who are between the ages of 18 and 25 and under certain circumstances to children under 18 years of age. Students who believe they may be eligible for these benefits are urged to discuss the matter with the Director of Financial Aids or a representative of Veterans Administration.

Students eligible for this program must register with the Financial Aids Office at the beginning of each academic year.

Students whose parents are receiving compensation aid pensions resulting from a 50% or more disability may receive additional amounts while the dependent child is taking an approved course of instruction at an educational institution. Dependent children between the ages of 18-23 are eligible for these benefits.

Educational Assistance for Cold War Veterans (Chapter 34)—This law is in effect as of June 1966 and is designed to aid all honorably discharged veterans (who have served 181 days or more of continuous active duty) since January 31, 1955.

The qualified veteran will receive one and one half month's benefits for each month served up to a maximum of 36 months at the following rate:

School	No Dependents	One Dependent	Two Dependents	Each Additional Dependent
Full-time	\$175	\$205	\$230	\$13
¾ Time	\$128	\$152	\$177	\$10
½ Time	\$ 81	\$100	\$114	\$ 7

Less than ½ Time Students attending less than half-time receive no maintenance. However, they are still eligible for payments to cover the cost of tuition.

Chapter 34—Students must submit their certificate of eligibility to the Registrar's Office for certification.

STUDENT AFFAIRS PROGRAM

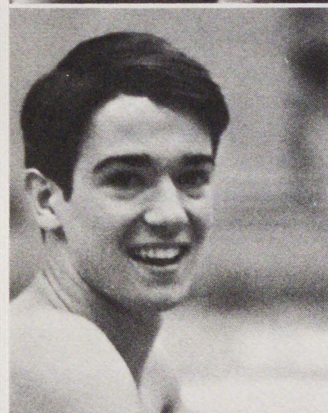
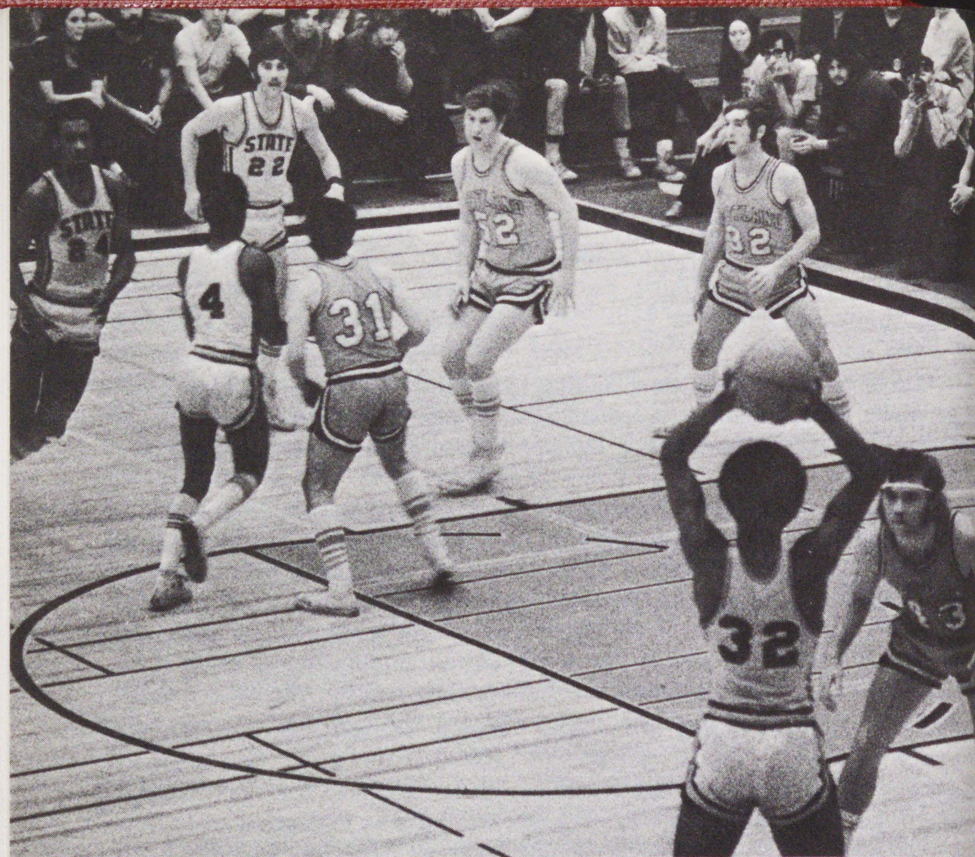
Office of the Vice President for Student Affairs

The Vice President for Student Affairs along with the Dean for Student Life and the Dean for Student Development are responsible for the overall Student Affairs program which includes:

1. Coordination of the group activity and leadership education program.
2. Administration of the Student Union facilities.
3. Coordination of the Intercollegiate Athletics Program.
4. Administration of the Student Financial Aids Program.
5. Administration of Student Health Services and an educationally-oriented health program.
6. Coordination of Student Counseling Services.
7. Administration of all residence programs and facilities.
8. Administration of Placement Services and vocational and career planning.
9. Coordination of Student Development programs and related Student Affairs Research.
10. Administration of Student Personnel Graduate Assistants and Interns.
11. Responsibility for the coordination of the Student Conduct Committee and the College Hearing Committee.

Career Counseling and Placement Services

The Office of Career Counseling and Placement Services offers several significant services to both undergraduate and graduate students. Counseling is available to those considering opportunities, requirements and procedures for obtaining employment; programs of and requirements for obtaining employment; programs of and requirements for admission to graduate and professional schools; graduate study scholarships and other financial aids. A Career Library is maintained with current graduate school catalogs, reference materials on various careers and recruiting literature from schools, private and governmental agencies, businesses and industries. Career Seminars are held on a regular basis at the request of individual academic departments, student organizations, and other interested groups. The purpose of these is to aid undergraduate students in fulfilling their career plans.



Interviewing Services are available. Recruiters from school districts and other organizations make arrangements to come to the College to meet candidates for positions with their organizations. This recruiting calendar, published in *The Record*, the campus newspaper, gives students an opportunity to schedule initial job interviews on campus. The Credentials Service helps candidates to assemble folders of personal data and references which may be used to support them in application for employment and/or graduate study.

The forms necessary for registration and information concerning procedures to follow are available in May for all juniors expecting to graduate the following year. It is advisable for all prospective graduates to assemble credentials while they are on campus. Registration after graduation is certainly less convenient and may be costly in time and opportunities missed for want of credentials.

Active candidates are advised to maintain a close contact with the Career Counsel and Placement Services and to use *The Record* and the Placement Bulletin Board in the Union as constant sources of information about placement and career opportunities.

Counseling Services

The Counseling Center, located in the Dr. Paul J. Weigel Health Center, provides counseling services for the College community. Students with personal, academic, social, personality and vocational problems, and those with concern over the usage of drugs use the services of the Counseling Center as well as do those who have difficulties because of slow reading skills, poor study habits and problems with concentration. The Counseling Center can provide information and assistance to help students make appropriate decisions and take appropriate actions in these areas. The staff are committed to complete confidentiality and are trained as clinical therapists.

Intercollegiate Athletics, Intramural and Recreational Programs

The College provides an extensive program of athletics and recreation for all students, including varsity and intramural competition.

The intercollegiate athletic program, under the Department of Intercollegiate Athletics, fields teams in baseball, basketball, cross country, golf, soccer, tennis, indoor and outdoor track, swimming, crew and wrestling. Numbered among the competitors are many of the leading colleges and universities in the East.

Buffalo State teams have been selected for participation in several NCAA post-season tournaments and many of the athletes have achieved

All-American recognition. Freshmen are now eligible for varsity competition in all sports.

The Men's Athletic Association sponsors intramural activities for men. These activities include basketball, bowling, cross country, badminton, golf, softball, swimming, table tennis, paddleball, handball, squash, football, tennis and volleyball. Regularly scheduled contests in most of these activities are organized in the fall and spring semesters.

Women's recreational activities and intercollegiate competition are coordinated through the Women's Recreation Association. Intramural competition is offered in badminton, basketball, and volleyball. Opportunity is also afforded for participation in camping, field hockey, horseback riding, golf, modern dance and synchronized swimming. Women's teams compete on the intercollegiate level with many leading Eastern colleges and universities in field hockey, basketball, bowling, synchronized swimming, fencing and gymnastics. These programs are funded by the student activity tax.

The Student Activities Program

Campus activities reflect the wide variety of interests and needs of Buffalo State students. Some provide for cultural development, social relationships, leadership training, civic responsibilities and spiritual enrichment; others aid students to select hobbies, exercise special abilities, and grow professionally. These activities are supported by a mandatory student assessment, payable during registration.

Student Government

Each regularly enrolled undergraduate student of Buffalo State becomes a member of United Student Government once his student activity fee is paid.

The Government is divided into two distinct branches:

- I. Legislative Branch: The Congress is the Legislative Branch of USG and power is vested in two bodies, the House of Finance and the House of Representatives.
 - a. House of Finance: Students levy their own activity tax and through the House of Finance obtain experience in the distribution and control of these funds.
 - b. House of Representatives: Students develop and coordinate activities of a recreational, educational, social and cultural nature, pass legislation for the general welfare of the student

body and approve constitutions of all groups seeking recognition.

2. **Judicial Branch:** Judicial powers of U.S.G. are vested in the Judicial Council consisting of a Chief Justice, an Associate Justice and five other justices who determine the constitutionality of all legislation brought before them. They also hear cases brought before them involving organizations and branches of U.S.G. students, faculty and administrators.

Membership on these branches of government is open to all students through all-College elections held in the spring of each year.

Commissions are administrative organizations of U.S.G., which organize, and administer areas defined and established by the House of Representatives. Chairmen of these commissions are elected by the entire student body in the spring of each year. Members of the commissions, other than those elected, are seated by the chairman of each commission once they are approved by the House of Representatives.

The Boards are semi-dependent organizations which have as their primary purpose service to the student body and are totally or partially dependent on student activity fee funds. Membership on Boards is open to all interested students. The U.S.G. recognizes many independent organizations that are recreational, professional and cultural, religious, honorary, social and political.

Student Publications

College life is reflected and recorded by five publications, each edited by a student staff whose membership is open to all students.

The Record, the College newspaper, features current news of campus events and expresses student opinions on many issues, local, national and international.

The Elms is the College yearbook depicting social highlights of the year along with everyday occurrences.

The Elm Leaves, the College literary magazine, contains selected creative writings and art work of the students.

The Handbook, containing general information about Student Government, College programs, and activities policies is published by a student group during the summer, and is financed through student activity fee monies.

STRAIT Magazine is a bi-weekly offering feature articles and opinions on the campus scene and the world at large.

Student Health Center

Health Facilities on Campus—The College maintains student health facilities on campus for first-aid and general health services with offices in the Dr. Paul J. Weigel Health Center. The College physician and part-time physicians are available in the Center, Monday through Friday, for diagnosis and medical care of students. A staff of registered professional nurses is also available.

The Campus Health Program—The College Health Service provides medical examinations without charge in certain special cases, as well as for all athletes prior to their engaging in competitive sports.

Necessary laboratory tests are made when advisable. From time to time certain preventive health measures are offered to students such as flu vaccine. Immunizations are given only with the consent of the parent to students under 21 years of age. Parents and students will be informed at the time of any new undertaking. It is highly recommended that parents consent to have their sons and daughters participate in these programs for the optimum health of the College community.

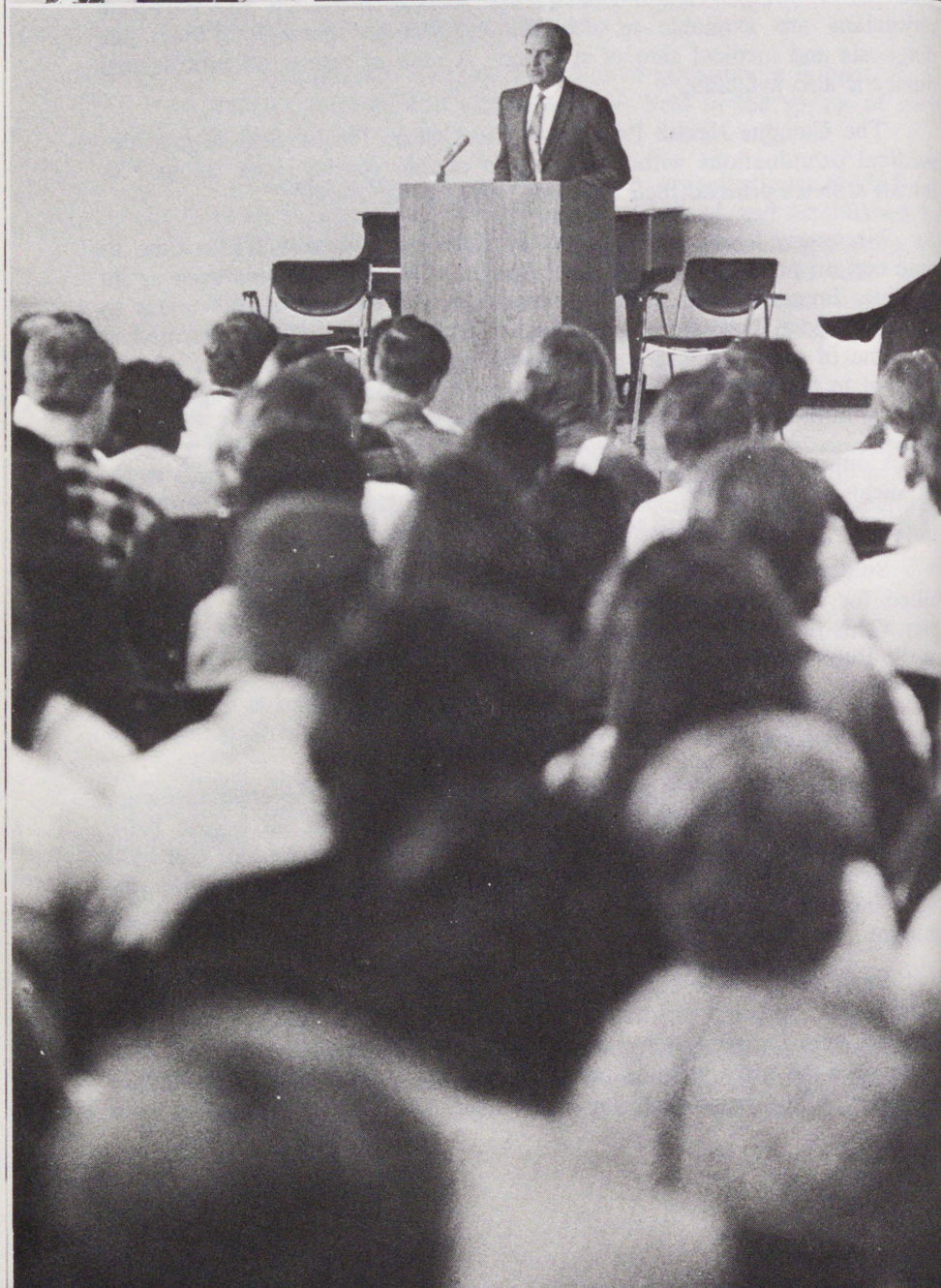
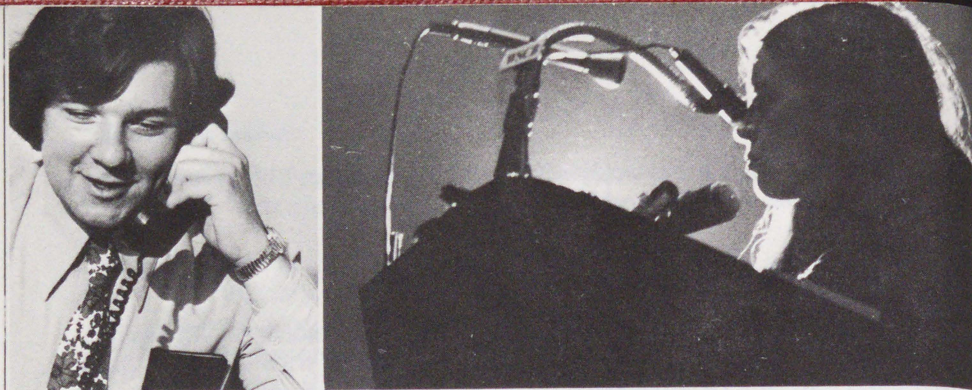
Community Medical Resources—The College maintains a close relationship with hospitals and selected medical specialists in the community as an additional safeguard to the health of its students.

Student Health Insurance—Full-time undergraduate students will be billed for and must subscribe to the College Student Health Insurance plan. This fee may be waived upon the presentation of proof of insurance to the Bursar's office at registration annually.

Student Housing

Residence Halls — Living accommodations offered in the eight residence halls will provide various types of living styles such as all female halls, all male halls, co-educational halls, halls with limited visitation, and halls with twenty-four hour visitation. Different emphases offered within the halls include International House, graduate student area, and transfer student area, among others.

Most rooms have facilities for two students and are furnished with beds, built-in wardrobes, dressers and study desks. Lounges, recreational facilities, and laundry rooms with washers and dryers are provided. Students need to provide their own pillows, blankets, bedspreads, window draperies, study lamps and irons.



RIGHTS, FREEDOMS AND RESPONSIBILITIES OF STUDENTS

STATEMENT ON THE RIGHTS AND FREEDOMS OF STUDENTS

Preamble

Academic institutions exist for the transmission of knowledge, the pursuit of truth, the development of students, and the general well-being of society. Free inquiry and free expression are indispensable to the attainment of these goals. As members of the academic community, students should be encouraged to develop the capacity for critical judgment and to engage in a sustained and independent search for truth. Institutional procedures for achieving these purposes may vary from campus to campus, but the minimal standards of academic freedom of students outlined below are essential to any community of scholars.

Freedom to teach and freedom to learn are inseparable facets of academic freedom. The freedom to learn depends upon appropriate opportunities and conditions in the classroom, on the campus, and in the larger community. Students should exercise their freedom with responsibility.

The responsibility to secure and to respect general conditions conducive to the freedom to learn is shared by all members of the academic community. Each college and university has a duty to develop policies and procedures which provide and safeguard this freedom. Such policies and procedures should be developed at each institution within the framework of general standards and with the broadest possible participation of the members of the academic community. The purpose of this statement is to enumerate the essential provisions for student freedom to learn.

A. FREEDOM OF ACCESS TO HIGHER EDUCATION

The admissions policies of each college and university are a matter of institutional choice provided that each college and university makes clear the characteristics and expectations of students which it considers relevant to success in the institution's program. While church-related institutions may give admission preference to students of their own persuasion, such a preference should be clearly and publicly stated. Under no circumstances should a student be barred from admission to a particular institution on the basis of race. Thus, within the limits of its facilities, each college and university should be open to all students who are qualified according to its admission standards. The facilities and services of a college should be open to all of its enrolled students, and institutions should use their influence to secure equal access for all students to public facilities in the local community.

B. IN THE CLASSROOM

The professor in the classroom and in conference should encourage free discussion, inquiry, and expression. Student performance should be evaluated solely on an academic basis, not on opinions or conduct in matters unrelated to academic standards.

1. *Protection of Freedom of Expression:* Students should be free to take reasoned exception to the data or views offered in any course of study and to reserve judgment about matters of opinion, but they are responsible for learning the content of any course of study for which they are enrolled.
2. *Protection Against Improper Academic Evaluation:* Students should have protection through orderly procedures against prejudiced or capricious academic evaluation. At the same time, they are responsible for maintaining standards of academic performance established for each course in which they are enrolled.
3. *Protection Against Improper Disclosure:* Information about student views, beliefs, and political associations which professors acquire in the course of their work as instructors, advisers, and counselors should be considered confidential. Protection against improper disclosure is a serious professional obligation. Judgments of ability and character may be provided under appropriate circumstances, normally with the knowledge or consent of the student.

C. STUDENT RECORDS

Institutions should have a carefully considered policy as to the information which should be part of a student's permanent educational record and as to the conditions of its disclosure. To minimize the risk of improper disclosure, academic and disciplinary records should be separate, and the conditions of access to each should be set forth in an explicit policy statement. Transcripts of academic records should contain only information about academic status. Information from disciplinary or counseling files should not be available to unauthorized persons on campus, or to any person off campus without the express consent of the student involved except under legal compulsion or in cases where the safety of persons or property is involved. No records should be kept which reflect the political activities or beliefs of students. Provision should also be made for periodic routine destruction of noncurrent disciplinary records. Administrative staff and faculty members should respect confidential information about students which they acquire in the course of their work.

D. STUDENT AFFAIRS

In student affairs, certain standards must be maintained if the freedom of students is to be preserved.

1. *Freedom of Association:* Students bring to the campus a variety of interests previously acquired and develop many new interests as members of the academic community. They should be free to organize and join associations to promote their common interests.
 - a) The membership, policies, and actions of a student organization usually will be determined by vote of only those persons who hold bona fide membership in the college or university community.
 - b) Affiliation with an extramural organization should not of itself disqualify a student organization from institutional recognition.
 - c) If campus advisers are required each organization should be free to choose its own adviser, and institutional recognition should not be withheld or withdrawn solely because of the inability of a student organization to secure an adviser. Campus advisers may advise organizations in the exercise of responsibility, but they should not have the authority to control the policy of such organizations.
 - d) Student organizations may be required to submit a statement of purpose, criteria for membership, rules of procedures, and a current list of officers. They should not be required to submit a membership list as a condition of institutional recognition.
 - e) Campus organizations, including those affiliated with an extramural organization, should be open to all students without respect to race, creed, or national origin, except for religious qualifications which may be required by organizations whose aims are primarily sectarian.
2. *Freedom of Inquiry and Expression*
 - a) Students and student organizations should be free to examine and discuss all questions of interest to them, and to express opinions publicly and privately. They should always be free to support causes by orderly means which do not disrupt the regular and essential operation of the institution. At the same time, it should be made clear to the academic and the larger community that in their public expressions or demonstrations students or student organizations speak only for themselves.
 - b) Students should be allowed to invite and to hear any person of their own choosing. Those routine procedures required by an institution before a guest speaker is invited to appear on campus should be designed only to insure that there is orderly scheduling of facilities and adequate preparation for the event, and that the occasion is conducted in a manner appropriate to an academic community. The institutional control of campus facilities should not be used as

a device of censorship. It should be made clear to the academic and larger community that sponsorship of guest speakers does not necessarily imply approval or endorsement of the views expressed, either by the sponsoring group or the institution.

3. *Student Participation in Institutional Government:* As constituents of the academic community, students should be free, individually and collectively, to express their views on issues of institutional policy and on matters of general interest to the student body. The student body should have clearly defined means to participate in the formulation and application of institutional policy affecting academic and student affairs. The role of the student government and both its general and specific responsibilities should be made explicit, and the actions of the student government within the areas of its jurisdiction should be reviewed only through orderly and prescribed procedures.
4. *Student Publications:* Student publications and the student press are a valuable aid in establishing and maintaining an atmosphere of free and responsible discussion and of intellectual exploration on the campus. They are a means of bringing student concerns to the attention of the faculty and the institutional authorities and of formulating student opinion on various issues on the campus and in the world at large.

Whenever possible the student newspaper should be an independent corporation financially and legally separate from the university. Where financial and legal autonomy is not possible the institution, as the publisher of student publications, may have to bear the legal responsibility for the contents of the publications. In the delegation of editorial responsibility to students the institution must provide sufficient editorial freedom and financial autonomy for the student publications to maintain their integrity of purpose as vehicles for free inquiry and free expression in an academic community.

Institutional authorities, in consultation with students and faculty, have a responsibility to provide written clarification of the role of the student publications, the standards to be used in their evaluation, and the limitations on external control of their operation. At the same time, the editorial freedom of student editors and managers entails corollary responsibilities to be governed by the canons of responsible journalism, such as the avoidance of libel, indecency, undocumented allegations, attacks on personal integrity, and the techniques of harassment and innuendo. As safeguards for the editorial freedom of student publications the following provisions are necessary:

- a) The student press should be free of censorship and advance approval of copy, and its editors and managers should be free to develop their own editorial policies and news coverage.

- b) Editors and managers of student publications should be protected from arbitrary suspensions and removal because of student, faculty, administrative, or public disapproval of editorial policy or content. Only for proper and stated causes should editors and managers be subject to removal and then by orderly and prescribed procedures. The agency responsible for the appointment of editors and managers should be the agency responsible for their removal.
- c) All university published and financed student publications should explicitly state on the editorial page that the opinions there expressed are not necessarily those of the college, university or student body.

E. OFF-CAMPUS FREEDOM OF STUDENTS

1. *Exercise of Rights of Citizenship:* College and university students are both citizens and members of the academic community. As citizens, students should enjoy the same freedom of speech, peaceful assembly, and right of petition that other citizens enjoy and, as members of the academic community, they are subject to the obligations which accrue to them by virtue of this membership. Faculty members and administrative officials should insure that institutional powers are not employed to inhibit such intellectual and personal development of students as is often promoted by their exercise of the rights of citizenship both on and off campus.
2. *Institutional Authority and Civil Penalties:* Activities of students may upon occasion result in violation of law. In such cases, institutional officials should be prepared to apprise students of sources of legal counsel and may offer other assistance. Students who violate the law may incur penalties prescribed by civil authorities, but institutional authority should never be used merely to duplicate the function of general laws. Only where the institution's interests as an academic community are distinct and clearly involved should the special authority of the institution be asserted. The student who incidentally violates institutional regulations in the course of his off-campus activity, such as those relating to class attendance, should be subject to no greater penalty than would normally be imposed. Institutional action should be independent of community pressure.

F. PROCEDURAL STANDARDS IN DISCIPLINARY PROCEEDINGS

In developing responsible student conduct, disciplinary proceedings play a role substantially secondary to example, counseling, guidance, and admonition. At the same time, educational institutions have a duty and the corollary disciplinary powers to protect their educational purpose through the setting of standards of scholarship and conduct for the students who attend them and through the regulations of the use of institutional facilities.

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In the exceptional circumstances when the preferred means fail to resolve problems of student conduct, proper procedural safeguards should be observed to protect the student from the unfair imposition of serious penalties.

The administration of discipline should guarantee procedural fairness to an accused student. Practices in disciplinary cases may vary in formality with the gravity of the offense and the sanctions which may be applied. They should also take into account the presence or absence of an Honor Code, and the degree to which the institutional officials have direct acquaintance with student life, in general, and with the involved student and the circumstances of the case in particular. The jurisdictions of faculty or student judicial bodies, the disciplinary responsibilities of institutional officials and the regular disciplinary procedures, including the student's right to appeal a decision, should be clearly formulated and communicated in advance. Minor penalties may be assessed informally under prescribed procedures.

In all situations, procedural fair play requires that the student be informed of the nature of the charges against him, that he be given a fair opportunity to refute them, that the institution not be arbitrary in its actions, and that there be provision for appeal of a decision. The following are recommended as proper safeguards in such proceedings when there are no Honor Codes offering comparable guarantees.

1. *Standards of Conduct Expected of Students:* The institution has an obligation to clarify those standards of behavior which it considers essential to its educational mission and its community life. These general behavioral expectations and the resultant specific regulations should represent a reasonable regulation of student conduct but the student should be as free as possible from imposed limitations that have no direct relevance to his education. Offenses should be as clearly defined as possible and interpreted in a manner consistent with the aforementioned principles of relevancy and reasonableness. Disciplinary proceedings should be instituted only for violations of standards of conduct formulated with significant student participation and published in advance through such means as a student handbook or a generally available body of institutional regulations.
2. *Investigation of Student Conduct:*
 - a) Except under extreme emergency circumstances, premises occupied by students and the personal possessions of students should not be searched unless appropriate authorization has been obtained. For premises such as residence halls controlled by the institution, an appropriate and responsible authority should be designated to whom application should be made before a search is conducted. The application should specify the reasons for the search and the objects or

information sought. The student should be present, if possible, during the search. For premises not controlled by the institution, the ordinary requirements for lawful search should be followed.

- b) Students detected or arrested in the course of serious violations of institutional regulations, or infractions of ordinary law, should be informed of their rights. No form of harassment should be used by institutional representatives to coerce admissions of guilt or information about conduct of other suspected persons.
3. *Status of Student Pending Final Action:* Pending action on the charges, the status of a student should not be altered, or his right to be present on the campus and to attend classes suspended, except for reasons relating to his physical or emotional safety and well-being of students, faculty, or university property.
4. *Hearing Committee Procedures:* When the misconduct may result in serious penalties and if the student questions the fairness of disciplinary action taken against him, he should be granted, on request, the privilege of a hearing before a regularly constituted hearing committee. The following suggested hearing committee procedures satisfy the requirements of procedural due process in situations requiring a high degree of formality.
 - a) The hearing committee should include faculty members or students, or, if regularly included or requested by the accused, both faculty and student members. No member of the hearing committee who is otherwise interested in the particular case should sit in judgment during the proceeding.
 - b) The student should be informed, in writing, of the reasons for the proposed disciplinary action with sufficient particularity, and in sufficient time, to insure opportunity to prepare for the hearing.
 - c) The student appearing before the hearing committee should have the right to be assisted in his defense by an adviser of his choice.
 - d) The burden of proof should rest upon the officials bringing the charge.
 - e) The student should be given an opportunity to testify and to present evidence and witnesses. He should have an opportunity to hear and question adverse witnesses. In no case should the committee consider statements against him unless he has been advised of their content and of the names of those who made them, and unless he has been given an opportunity to rebut unfavorable inferences which might otherwise be drawn.
 - f) All matters upon which the decision may be based must be intro-

duced into evidence at the proceeding before the hearing committee. The decision should be based solely upon such matter. Improperly acquired evidence should not be admitted.

- g) In the absence of a transcript, there should be both a digest and a verbatim record, such as a tape recording, of the hearing.
- h) The decision of the hearing committee should be final, subject only to the student's right of appeal to the President or ultimately to the governing board of the institution.

Rules and Regulations for the Maintenance of Public Order on the Premises of State-Operated Institutions of the State University of New York in Compliance with Education Law 129-A.

(Adopted by the Board of Trustees of the State University of New York on June 18, 1969 and amended July 10, 1969.)

The following sections are quoted directly from the document adopted by the Board of Trustees. Only those sections dealing with student conduct are included.

Resolved that the Rules and Regulations for the Maintenance of Public Order* on Premises of State-Operated Institutions of State University of New York heretofore adopted by this Board by Resolution 69-179, dated June 18, 1969, and amended by Resolution 69-226, dated July 10, 1969, comprising Part 535 of Chapter V of Title 8 of the Official Compilation of Codes, Rules and Regulations of the State of New York be, and the same hereby are, amended in accordance with the following sections of the resolution:

A. STATEMENT OF PURPOSE

The following rules are adopted in compliance with Section 6450 of the Education Law and shall be filed with the Commissioner of Education and the Board of Regents on or before July 20, 1969, as required by the section. Said rules shall be subject to amendment or revision and any amendments or revisions thereof shall be filed with the Commissioner of Education and Board of Regents within ten days after adoption. Nothing herein is intended, nor shall it be construed, to limit or restrict the freedom of speech nor peaceful assembly. Free inquiry and free expression are indispensable to the objectives of a higher educational institution. Similarly, experience has demonstrated that the traditional autonomy of the educational institution (and the accompanying institutional responsibility for the maintenance of order) is best suited to achieve these objectives. These rules shall not be construed to prevent or limit communication between and among faculty, students and administration, or to relieve the institution of its special responsibility for self regulation in the presence

*See Item (g) of Appendix III regarding the definition of Public Order.

tion of public order. Their purpose is not to prevent or restrain controversy and dissent but to prevent abuse of the rights of others and to maintain that public order appropriate to a college or university campus without which there can be no intellectual freedom and they shall be interpreted and applied to that end.

B. APPLICATION OF RULES

These rules shall apply to any State-operated institution of the State University for which separate rules covering the same subjects have not been adopted by the institution, approved and adopted by the State University trustees and filed with the Commissioner of Education and Board of Regents. These rules shall further apply to any such institution for which separate rules have been or shall be so approved and filed as to any matter not expressly provided for in such separate rules; subject to this exception, these rules are not intended to repeal, supercede, amend or preclude any other rules relating to the same subject matter adopted, approved and filed as above specified. These rules shall apply to all State-operated institutions of the State University. These rules may be supplemented by additional rules for the maintenance of public order heretofore or hereafter adopted for any individual institution, approved and adopted by the State University Trustees and filed with the Commissioner of Education and Board of Regents, but only to the extent that such additional rules are not inconsistent herewith. The rules hereby adopted shall govern the conduct of students, faculty and other staff, licensees, invitees, and all other persons, whether or not their presence is authorized, upon the campus of any institution to which such rules are applicable and also upon or with respect to any other premises or property, under the control of such institution, used in its teaching, research, administrative, service, cultural, recreational, athletic and other programs and activities, provided, however, that charges against any student for violation of these rules upon the premises of any such institution other than the one at which he is in attendance shall be heard and determined at the institution in which he is enrolled as a student.

C. PROHIBITED CONDUCT

No person, either singly or in concert with others, shall:

1. Willfully cause physical injury to any other person, nor threaten to do so for the purpose of compelling or inducing such other person to refrain from any act which he has a lawful right to do or to do any act which he has a lawful right not to do.
2. Physically restrain or detain any other person, nor remove such person from any place where he is authorized to remain.
3. Willfully damage or destroy property of the institution or under its jurisdiction, nor remove or use such property without authorization.

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4. Without permission, expressed or implied, enter into any private office of an administrative officer, member of the faculty or staff member.
5. Enter upon and remain in any building or facility for any purpose other than its authorized uses or in such manner as to obstruct its authorized use by others.
6. Without authorization, remain in any building or facility after it is normally closed.
7. Refuse to leave any building or facility after being requested to do so by an authorized administrative officer.
8. Obstruct the free movement of persons and vehicles in any place in which these rules apply.
9. Deliberately disrupt or prevent the peaceful and orderly conduct of classes, lectures and meetings or deliberately interfere with the freedom of any person to express his views, including invited speakers.
10. Knowingly have in his possession upon any premises to which these rules apply, any rifle, shotgun, pistol, revolver, or other firearm or weapon without the written authorization of the chief administrative officer whether or not a license to possess the same has been issued to such person.
11. Willfully incite others to commit any of the acts herein prohibited with specific intent to procure them to do so.

D. FREEDOM OF SPEECH AND ASSEMBLY; PICKETING AND DEMONSTRATIONS

1. No student, faculty or other staff member or authorized visitor shall be subject to any limitation or penalty solely for the expression of his views nor for having assembled with others for such purposes. Peaceful picketing and other orderly demonstrations in public areas of ground and building will not be interfered with. Those involved in picketing and demonstrations may not, however, engage in specific conduct in violation of the provisions of the preceding section.
2. In order to afford maximum protection to the participants and to the institutional community, each State-operated institution of the State University shall promptly adopt and promulgate, and thereafter continue in effect as revised from time to time, procedures appropriate to such institution for the giving of reasonable advance notice to such institution of any planned assembly, picketing or demonstration upon the grounds of such institution, its proposed locale and intended purpose, provided, however, that the giving of such notice shall not be made a condition precedent to any such assembly, picketing or

demonstration and provided, further, that this provision shall not supersede nor preclude the procedures in effect at such institution for obtaining permission to use the facilities thereof.

E. PENALTIES

A person who shall violate any of the provisions of these rules (or of the rules of any individual institution supplementing or implementing these rules) shall:

1. If he is a licensee or invitee, have his authorization to remain upon the campus or other property withdrawn and shall be directed to leave the premises. In the event of his failure or refusal to do so he shall be subject to ejection.
2. If he is a trespasser or visitor without specific license or invitation, be subject to ejection.
3. If he is a student, be subject to expulsion or such lesser disciplinary action as the facts of the case may warrant, including suspension, probation, loss of privileges, reprimand or warning.
4. If he is a faculty member having a term or continuing appointment, be guilty of misconduct and be subject to dismissal or termination of his employment or such lesser disciplinary action as the facts may warrant including suspension without pay or censure.
5. If he is a staff member in the classified service of the civil service, described in Section 75 of the Civil Service Law, be guilty of misconduct, and be subject to the penalties prescribed in said section.
6. If he is a staff member other than one described in subdivisions (4) and (5), be subject to dismissal, suspension without pay or censure.

F. PROCEDURE

1. The chief administrative officer or his designee shall inform any licensee or invitee who shall violate any provisions of these rules (or of the rules of any individual institution supplementing or implementing these rules) that his license or invitation is withdrawn and shall direct him to leave the campus or other property of the institution. In the event of his failure or refusal to do so such officer shall cause his ejection from such campus or property.
2. In the case of any other violator, who is neither a student nor faculty or other staff member, the chief administrative officer or his designee shall inform him that he is not authorized to remain on the campus or other property of the institution and direct him to leave such premises. In the event of his failure or refusal to do so such officer shall cause his ejection from such campus or property. Nothing in

this subdivision shall be construed to authorize the presence of any such person at any time prior to such violation nor to affect his liability to prosecution for trespass or loitering as prescribed in the Penal Law.

3. In the case of a student, charges for violation of any of these rules (or of the rules of any individual institution supplementing or implementing these rules) shall be presented and shall be heard and determined in the manner hereinafter provided in Section A of this Part.
4. In the case of a faculty member having a continuing or term appointment, charges of misconduct in violation of these rules (or of the rules of any individual institution supplementing or implementing these rules) shall be made, heard and determined in accordance with Title D of Part 338 of the Policies of the Board of Trustees.
5. In the case of any staff member who holds a position in the classified civil service, described in Section 75 of the Civil Service Law, charges of misconduct in violation of these rules (or of the rules of any individual institution supplementing or implementing these rules) shall be made, heard and determined as prescribed in that section.
6. Any other faculty or staff member who shall violate any provision of these rules (or of the rules of any individual institution supplementing or implementing these rules) shall be dismissed, suspended or censured by the appointing authority prescribed in the Policies of the Board of Trustees.

G. ENFORCEMENT PROGRAM

1. The chief administrative officer shall be responsible for the enforcement of these rules (or of the rules of any individual institution supplementing or implementing these rules) and he shall designate the other administrative officers who are authorized to take action in accordance with such rules when required or appropriate to carry them into effect.
2. It is not intended by any provision herein to curtail the right of students, faculty or staff to be heard upon any matter affecting them in their relations with the institution. In the case of any apparent violation of these rules (or of the rules of any individual institution supplementing or implementing these rules) by such persons, which in the judgment of the chief administrative officer or his designee does not pose any immediate threat of injury to person or property, such officer may make reasonable effort to learn the cause of the conduct in question and to persuade those engaged therein to desist and to resort to permissible methods for the resolution of any issues which

may be presented. In doing so such officer shall warn such persons of the consequences of persistence in the prohibited conduct, including their ejection from any premises of the institution where their continued presence and conduct is in violation of these rules (or of the rules of any individual institution supplementing or implementing these rules.)

3. In any case where violation of these rules (or of the rules of any individual institution supplementing or implementing these rules) does not cease after such warning and in other cases of willful violation of such rules, the chief administrative officer or his designee shall cause the ejection of the violator from any premises which he occupies in such violation and shall initiate disciplinary action as hereinbefore provided.
4. The chief administrative officer or his designee may apply to the public authorities for any aid which he deems necessary in causing the ejection of any violator of these rules (or of the rules of any individual institution supplementing or implementing these rules) and he may request the State University Counsel to apply to any court of appropriate jurisdiction for an injunction to restrain the violation or threatened violation of such rules.

H. COMMUNICATION

In matters of the sort to which these rules are addressed, full and prompt communication among all components of the institutional community, faculty, students and administration, is highly desirable. To the extent that time and circumstances permit, such communication should precede the exercise of the authority, discretion and responsibilities granted and imposed in these rules. To these ends each state-operated institution of the State University shall employ such procedures and means, formal and informal, as will promote such communication.

I. NOTICE, HEARING AND DETERMINATION OF CHARGES AGAINST STUDENTS

1. The term "chief administrative officer," as used in these rules, shall be deemed to mean and include any person authorized to exercise the powers of that office during a vacancy therein or during the absence or disability of the incumbent.
2. Whenever a complaint is made to the chief administrative officer of any state-operated institution of the University of a violation by a student or students of the rules prescribed in this Part (or of any rules adopted by an individual institution supplementing or implementing such rules) or whenever he has knowledge that such a violation may have occurred, he shall cause an investigation to be made and the

statements of the complainants, if any, and of other persons having knowledge of the facts reduced to writing. If he is satisfied from such investigation and statements that there is reasonable ground to believe that there has been such a violation he shall prepare or cause to be prepared charges against the student or students alleged to have committed such violation which shall state the provision prescribing the offense and shall specify the ultimate facts alleged to constitute such offense.

3. Such charges shall be in writing and shall be served on the student or students named therein by delivering the same to him or them personally, if possible, or, if not, by mailing a copy of such charges by registered mail to such student or students at his or their usual place or places of abode while attending college and also to his or their home address or addresses, if different.
4. The notice of charges so served shall fix a date for hearing thereof not less than ten or more than fifteen days from the date of service which shall be the date of mailing where necessary to effect service by mail. Failure to appear in response to the charges on the date fixed for hearing, unless there has been a continuance for good cause shown, shall be deemed to be an admission of the facts stated in such charges and shall warrant such action as may then be appropriate thereon. Before taking such action the Hearing Committee, hereinafter referred to, shall give notice to any student, who has failed to appear, in the manner prescribed in paragraph (c) of its proposed findings and recommendations to be submitted to the chief administrative officer and shall so submit such findings and recommendations ten days thereafter unless the student has meanwhile shown good cause for his failure to appear, in which case a date for hearing shall be fixed.
5. Upon demand at any time before or at the hearing the student charged or his representative, duly designated, shall be furnished a copy of the statements taken by the chief administrative officer in relation to such charges and with the names of any other witnesses who will be produced at the hearing in support of the charges, provided, however, that this shall not preclude the testimony of witnesses who were unknown at the time of such demand.
6. The chief administrative officer may, upon the service of charges suspend the student named therein, pending the hearing and determination thereof, whenever, in his judgment, the continued presence of such student would constitute a clear danger to himself or to the safety of persons or property on the premises of the institution or would pose an immediate threat of disruptive interference with the normal conduct of the institution's activities and functions, provided, however, that the chief administrative officer shall grant an immediate hearing on request of any student so suspended with respect to the basis of such suspension.

7. There shall be constituted at each state-operated institution a Hearing Committee to hear charges against students of violation of the rules for maintenance of public order prescribed by or referred to in this Part. Such committee shall consist of three members of the administrative staff and three members of the faculty, designated by the chief administrative officer, and three students who shall be designated by the members named by the chief administrative officer. Each such member shall serve until his successor or replacement has been designated. No member of the committee shall serve in any case where he is a witness or is or has been directly involved in the events upon which the charges are based. In order to provide for cases where there may be such a disqualification and for cases of absence or disability, the chief administrative officer shall designate an alternate member of the administrative staff and an alternate member of the faculty, and his principal designees shall designate an alternate student member, to serve in such cases. Any five members of the committee may conduct hearings and make findings and recommendations as hereinafter provided.
8. The Hearing Committee shall not be bound by the technical rules of evidence but may hear or receive any testimony or evidence which is relevant and material to the issues presented by the charges and which will contribute to a full and fair consideration thereof and determination thereon. A student against whom the charges are made may appear by and with representatives of his choice. He may confront and examine witnesses against him and may produce witnesses and documentary evidence in his own behalf. There may be present at the hearing: the student charged and his representatives and witnesses; other witnesses; representatives of the institutional administration; and, unless the student shall request a closed hearing, such other members of the institutional community or other persons, or both, as may be admitted by the Hearing Committee. A transcript of the proceedings shall be made.
9. Within twenty days after the close of a hearing the Hearing Committee shall submit a report of its findings of fact and recommendations for disposition of the charges to the chief administrative officer, together with a transcript of the proceedings, and shall at the same time transmit a copy of its report to the student concerned or his representative. Within ten days thereafter the chief administrative officer shall make his determination thereon. Final authority to dismiss the charges or to determine guilt of those against whom they are made and to expel, suspend or otherwise discipline them shall be vested in the chief administrative officer. If he shall reject the findings of the Hearing Committee in whole or in part he shall make new findings which must be based on substantial evidence in the record and shall

include them in the notice of his final determination which shall be served upon the student or students with respect to whom it is made.

Further Resolved that amendments and additions made by this resolution shall take effect immediately, and the above Section shall apply to charges for violation of the rules prescribed by or referred to in this Part heretofore served which have not been finally determined within sixty days after the adoption hereof, which charges shall be referred to the Committee constituted pursuant to said Section 535.9 for determination in accordance therewith, and said section shall apply to all charges for violation of such rules hereafter made, whether for violations heretofore or hereafter committed, and

Further Resolved that the amendments or additions made by this resolution shall be forthwith filed with the Commissioner of Education and the Board of Regents in compliance with Section 6450 of the Education Law.

J. AMENDMENT

The Following Amendment was Adopted by the Board of Trustees of the State University of New York at the meeting held on April 29, 1970. This Amendment should be attached to (g) of Rules and Regulations for the Maintenance of Public Order on the Premises of State-Operated Institutions, by Resolution 70—109 adopted by the Board of Trustees (Listed on Page 38 of this Catalog.)

At any institution where the chief administrative officer determines that the number of hearings which will be required to be held is, or may be, so great that they cannot otherwise be disposed of with reasonable speed, he may determine that the Hearing Committee shall consist of six members of the administrative staff and six members of the faculty to be designated by him and of six students who shall be designated by the members so designated by him. In such event the chief administrative officer shall designate one of such members as chairman who may divide the membership of the committee into three divisions each to consist of two members of the administrative staff, two faculty members and two students and may assign charges among such divisions for hearing. Any four members of each such division may conduct hearings and make recommendations as hereinafter provided.

Rules and Regulations Governing Student Conduct at the State University College at Buffalo.

Introduction

The resolution of the State University Trustees issued on May 11, 1968 clearly states the responsibilities of the local campus to develop its own guidelines for rules and regulations governing student conduct as well as

disciplinary proceedings in dealing with all violations of the established rules of the local campus.

The following standards and regulations were legislated by appropriate bodies (Student Conduct Committee and Student Personnel Council) and promulgated by the President in May of 1969.

A. PROHIBITED CONDUCT FOR WHICH STUDENTS ARE SUBJECT TO DISCIPLINARY ACTIONS:

1. All violations of prohibited conduct listed under Section C of II. (Note: These items listed as prohibited conduct under the Education Law 129-A may not necessarily be violations of public order, but may very well subject one to disciplinary proceedings under student conduct.)*
2. All forms of dishonesty including cheating, plagiarism, knowingly furnishing false information to the institution, forgery, and alteration or use of institution documents or instruments of identification with intent to defraud.
3. Theft from or damage to any part of the College (including but not limited to the Library, College Store, Residence Halls, Dining facilities and/or any other buildings) or damage to property of a member of the institutional community on institution premises.
4. Violation of rules and regulations governing residence halls (those rules publicized by the Residence Hall Government and Office of Student Housing in the Residence Hall Contract.)
5. Physical abuse of any person on institution premises or at institution sponsored and supervised functions.
6. Failure to comply with reasonable directions of institutional officials acting in performance of their duties on institution premises.
7. a) Use, possession or distribution of illegal drugs on institution premises.
b) Use, possession or sale of alcoholic beverages on institution premises, other than in authorized areas, without the permission of appropriate offices of the institution. (Details of guidelines are available in the Office of Student Activities.)
c) Gambling on institution premises.
8. Violation of the established rules and regulations concerning registered student activities by the individual student and/or recognized organization on campus. The Student Union Staff, in consultation with the Student Union Board, will provide guidelines in the following areas:

*See Item (g) of Appendix III regarding the definition of Public Order.

(Details of guidelines are available in the Office of Student Activities.)

- a) Registration - (time and place) for the activities.
- b) The use of facilities (on campus) for the activities.
- c) Organizational responsibilities related to the activities.

B. STUDENT CONDUCT COMMITTEE

1. *Purpose:*

The College has established a special Student Conduct Committee to review charges against students of violation of the local rules and regulations prescribed in Section A (those rules falling into categories other than rules for the maintenance of public order stated by Education Law 129-A). The Student Conduct Committee, after the close of a review hearing, submits a report of the finding of facts and recommendations for disposition of the charges to the Vice President for Student Affairs and/or President depending on the nature of the offense. Thereafter, final action will be determined by the Vice President or President.

2. *Membership:*

The membership of the Student Conduct Committee shall consist of: two (2) faculty members; two (2) administrative staff; and three (3) students. The President shall appoint faculty and administrative members with the term of two (2) years, and student members shall be selected by the faculty-administrative members of the Committee. The Committee shall elect the Chairman. The Executive Secretary may be appointed by the Vice President for Student Affairs at the beginning of each academic year. The Committee shall be active for a twelve month period of the calendar year.

3. *Procedural Guidelines of the Student Conduct Committee:*

- a) The guidelines shall reflect the basic concept of procedural fairness and the concept of due process to accused students. It shall be certain that no student shall be subjected to any disciplinary action for any offense without being given a judicial hearing by an established body consisting of faculty, students and administrators.
- b) Offenses shall be as clearly defined as possible to the accused students in writing. At least a week prior to the hearing of the Student Conduct Committee the student shall be advised in writing as to the nature of the offense and procedures for the hearing.
- c) The accused student appearing before the Committee hearing has the right to be accompanied by an advisor of his choice or legal counsel if he so desires. The accused student may present appropriate witnesses in his behalf.

- d) The accused student shall be given the names of the witnesses against him and any written testimonies which each witness testifies if available. The accused student shall be given opportunities for cross-examination of witnesses against him during the stages of the hearing.
- e) Concentrating on the need for procedural safeguards, the Student Conduct Committee operates on the basis that rules of evidence are so constructed as to guarantee that no student be found guilty, unless there is reasonable evidence established.
- f) The Chairman of the Student Conduct Committee may request any faculty, student or administrative staff member to take the witness stand in order to insure all possible evidence which may be relevant to the charges.
- g) The Executive Secretary of the Committee shall maintain accurate records of all proceedings. A summary of each proceeding is kept in the Office of Student Affairs.
- h) It is recognized that the College has an obligation to publicize to all members of the College community those rules and regulations which it considers essential to its educational mission. These regulations governing standards should represent reasonableness and relevance to the community of learning.
- i) The recommendation of the Student Conduct Committee shall be final and subject to no repetition. The student has the right to appeal the decision in the form of a written appeal for review to the Vice President for Student Affairs and further to the President of the College. An appeal may not result in a more severe penalty for the accused student.
- j) All hearings of the Student Conduct Committee shall be closed to any non-participating observers, unless otherwise specified.
- k) At such time that action of a member of the Committee is deemed to be detrimental to the functioning of the Committee (such as a member's disclosure of confidential information to anyone other than the members of the Committee) any member of the Committee may initiate impeachment proceedings.

C. THE ARRAY OF POSSIBLE PENALTIES WHICH MAY BE IMPOSED UPON STUDENTS VIOLATING RULES AND REGULATIONS

1. *Reprimand or Warning:*

Notice orally or in writing that continuation or repetition of conduct found wrongful, within a period of time stated in the warning, may be cause for more severe disciplinary action.

2. *Denial or Restriction of the Use of College Facilities:*

Official note of denial or restriction of the use of the facilities on campus or campus sponsored premises.

3. *Restitution:*

Reimbursement for damage to or misappropriation of property. This may take the form of appropriate service or other compensation.

4. *Social Probation:*

Restriction of the participation in College sponsored activities.

5. *Disciplinary Probation:*

Status of student is probationary during a set period of time and further violation of recognized rules and regulations may warrant immediate suspension or expulsion from the College.

6. *Suspension (term):*

Exclusion from classes and other privileges or activities as a student for a period of time which may not exceed two years. (Recorded in the official transcript of the student.)

7. *Expulsion:*

Termination of student status for an indefinite period. The conditions of readmission, if any, shall be stated in the order of expulsion. (Recorded in the official transcript of the student.)

8. *Other Sanctions or Penalties Deemed Appropriate Upon the Recommendations of the Student Conduct Committee.*

D. RESIDENCE HALL JUDICIARY

1. *Purpose:*

Resident hall students are required to uphold all regulations as stated in the Housing Contract. In addition, each residence hall community sets certain regulations of conduct such as quiet hours and limitations on hours of visitation within the hall. These rules may vary from one hall to the other.

Those cases of violations of the regulations stated in the Housing Contract may be referred to the Student Conduct Committee.

Violations of the regulations as set by each hall are handled by a Judicial System established within the hall community. Each hall may elect to develop a Judicial Board System to deal with violations of its policies. The residence student may refer offenses to the Student Conduct Committee.

2. *Membership:*

All students (elected) with Residence Hall Director as advisor.

3. *Penalties:*

Measures are decided according to the offense and situation such as: (1) warning, (2) official written reprimand, (3) withdrawal of any privileges in the Residence Hall including privileges to use facilities, (4) restitution of damages in the Residence Hall, (5) other penalties deemed appropriate.

4. *Appeal:*

Students may appeal to the Student Conduct Committee for review of the decision made by the Residence Hall Judiciary System. A student may appeal his case to the Vice President for Student Affairs.

APPENDIX — I

Statement of College Policy on Student Conduct and the Civil Process
(So-called Double Jeopardy)

The State University College at Buffalo recognizes the supremacy of the civil law in all cases of duplication or conflict with the regulations of the College. Where individuals, although members of the college community, suffer loss or injury from the perpetration of misdeeds, the College recognizes their right of access to the civil process if they so choose.

This is not to be construed as precluding the invoking of college discipline procedures as described in the document *Students' Rights, Freedoms and Responsibilities*, whether or not civil remedies have been sought.

As the American Bar Association Commission on Campus Government and Student Dissent (1970) stated:

"The fact that a student has been subject to university disciplinary proceedings does not in any way preclude a subsequent trial of the student for the same conduct by public authorities if his conduct violated the laws of the jurisdiction. Likewise, the fact that a student has been tried in the criminal courts does not preclude the assertion of an appropriate disciplinary sanction against him by the university. There is no legal basis for the claim of "double jeopardy" in either case.

"The institution should recognize the possibility, however, of injustice resulting from the imposition of multiple sanctions for the same conduct. In cases where

the university proceeds after state action has taken place, consideration should be given by the university to any prior state punishment in determining the appropriateness of a university sanction. A criminal court should properly consider the sanction already imposed by a university tribunal in determining what penalty it should impose. Prosecutors or university officials, as the case may be, should carefully consider whether it is desirable to proceed where a defendant has been acquitted in prior proceedings in court or before a university tribunal. These matters are, however, addressed to the discretion of responsible officials and do not give rise to any right of immunity from a different or additional finding or sanction made by the body that has initially delayed its exercises of jurisdiction." (p. 32, 33.)

In no instance is a member of the faculty, staff or administration of this College, acting in his official capacity, to render advice in a manner in conflict with this policy.

*Endorsed and Recommended for Adoption as a
Statement of College Policy by Faculty Council
November 2, 1970*

APPENDIX — II

State University College Policy Statement on the Use and Distribution of Narcotics and Dangerous Drugs

- A. The Guidelines of the State University of New York Governing Campus Regulations (released on January 30, 1968) clearly states the University's position on the point of the illegal use of narcotics and dangerous drugs on campus:

"The regulations on each campus shall expressly forbid the illegal use of narcotics and dangerous drugs on campus, and the regulation further shall make clear that the institution, through cooperation with appropriate health and law enforcement agencies, will provide no sanctuary for those who violate State and Federal Narcotics Laws."

- B. In complying with the State University Guidelines, the College at Buffalo prescribes:

"Use, possession or sale of narcotics and illegal drugs is prohibited conduct on campus."

The College recognizes its obligation to enforce its own established rules and regulations and shall apply appropriate disciplinary actions.

The College Community should be reminded that neither the College nor individuals within it are immune from Federal and State Laws. Although the College itself is not an enforcing agency of laws, it cannot prevent appropriate law enforcement agencies from carrying out their responsibilities.

- C. The College recognizes that distribution and use of narcotics and dangerous drugs are a serious threat to the quality of educational environment as well as individual well-being.

Thus, the College is strongly committed to:

1. Educating the campus community to potential dangers of drug use.
2. Encouraging and promoting the rehabilitation of users (habitual or experimental) through referral for counseling, medical, psychiatric and other professional services.

APPENDIX III

Definitions

The following terms in this booklet are occasionally used with no particular specifications. Therefore, definitions of these terms and the sources of such terms may be helpful to the reader.

- (a) "Chief Administrative officer": The term "Chief Administrative Officer" means the head of the College, meaning the President of the College. It may deem to mean any person authorized to exercise the powers of the Chief Administrative Officer in case of the absence of the head of the College.
- (b) "College": The term "College" refers to the State University College at Buffalo.
- (c) "College Council": The term "College Council" means a council for the State University College at Buffalo as provided by Section 356 of the Education Law. (Refer to Article II of the *Policies of the Board of Trustees*, 1970.)
- (d) "Faculty": The term "Faculty" includes persons employed by the College to conduct instruction, research, and other service programs. (Specific responsibilities are stated in Article X of the *Policies of the Board of Trustees*, 1970.)

- (e) "Faculty Council": Article V of the *By-laws of the Faculty* (1964) defines the "Faculty Council" as a policy-recommending body of the faculty with respect to curriculum, instruction, and professional welfare of the faculty. The membership includes both elected and appointed faculty members of the College.
- (f) "Institution": The "Institution" refers to the State University College at Buffalo.
- (g) "Public Order": As defined in the memorandum issued by the Chancellor and the State University Legal Counsel (dated on June 12, 1969)

"Public Order" means the carrying on of the institution's work of teaching and research, the services incident thereto, and the necessary administrative work without physical interference. It means freedom from overt obstruction of those carrying on their required or authorized functions and activities within the college community. It means that there shall be no coercive threats or use of force or violence or wilful disruption beyond the bounds of free expression and peaceful assembly.

[However] "Public Order" does not cover the whole range of rules which [the] College may appropriately adopt. There are many transgressions of the legitimate interests of [the] College which do not result in disorder of a public nature. Dormitory rules relating to cleanliness, parking regulations or even drug regulations are examples. (Cited from the memorandum from the State University Legal Counsel dated June 12, 1969.)
- (h) "Student(s)": The term "Student(s)" includes all persons registered for course(s) at the State University College at Buffalo both full-time and part-time pursuing undergraduate or graduate studies.
- (i) "Student Organization": The term "Student Organization" means a number of students with a specific purpose have complied with the formal requirements for recognition by the Student Government and the College.
- (j) "Student Personnel Council": The term "Student Personnel Council" refers to a policy recommending body of the College with respect to student personnel programs and student welfare. This Council was established by the *By-laws of the Faculty* (1964). The members of the Council include appointed administrators and elected faculty and students.
- (k) "Trustees": The term "Trustees" refers to the Board of Trustees of the State University of New York as defined by Section 353 of the Education Law.
- (l) "University": The term "University" refers to State University of New York.

SPECIAL PROGRAMS, FACILITIES AND SERVICES

Alumni Relations Program

The Buffalo State Alumni Association promotes the welfare of the College and its alumni through active yearly social, educational and fund-raising programs directed by the Board of Directors and Executive Director. The funds raised are used for student scholarships and loan funds.

Charles Burchfield Center

Western New York Forum for American Art

The Charles Burchfield Center is devoted to the exhibition of major works and memorabilia of Western New York's world famous watercolorist. In addition, as the Western New York Forum for American Art, it serves as a regional center for the study and research of American art and encourages activities such as discussions, illustrated lectures and seminar activities relating to American art.

Campus School

The Campus School complex is composed of three coordinated programs: elementary, secondary, and exceptional education. Opportunities are provided College students to observe and to participate in teaching and serves as a professional laboratory for experimental and innovative educational programs. A complete closed circuit television system has been incorporated into the building to allow for reception and broadcasting in every room and to other buildings on campus.

Continuing Education

Extending higher education opportunities to the public at large is the concern of the Office of Continuing Education. Included in this concept are educational programs for those who have not achieved initial educational objectives, as well as programs for those who have achieved initial educational objectives and who wish to add new competencies and to expand their opportunities and interests. Programs of part-time study for non-matriculated students will be available through evening and Saturday morning courses. Part-time study may also be continued in the summer session.

The Office of Continuing Education also has a concern for bringing the resources of the College to the community in such problem areas as economic development, community planning, problems of urbanization, race relations and service to local school systems. Such assistance may take the form of short courses, conferences, institutes, workshops, program planning, and consultation services.

Creative Studies

The Creative Education Foundation, Inc. is housed on the campus and offers Creative Studies as part of the College's regular academic program. The Foundation issues the *Journal of Creative Behavior* and sponsors workshops and institutes during summer session dealing with creative behavior and problem-solving.

Educational Opportunity Program (SEEK)

The Educational Opportunity Program, known as the SEEK (Search for Education, Elevation, and Knowledge) Program since its inception in 1967, is financed by the State of New York and administered through its State University. It is designed to provide educationally and economically disadvantaged students, who are high school graduates, the chance to receive a college education.

Great Lakes Laboratory

The Great Lakes Laboratory is located at the foot of Porter Avenue at the confluence of Lake Erie and the Niagara River. It offers innumerable opportunities for research and teaching in the field of aquatics and pollution and study of the interaction of man and aquatic environments.

Instructional Resources

The Instructional Resources staff gives support to the faculty through utilization of appropriate media by providing necessary equipment; producing radio and television programs, audio and video tapes, films, graphics and transparencies, etc. An *Instructional Resources Handbook* is available to faculty for further information.

International Education

The International Education Office develops pilot projects in international education, works closely with approximately 150 foreign students, and provides guidance for students who wish to study abroad independently or through one of the College's several organized programs.

Edward H. Butler Library

The Edward H. Butler Library is one of the newest contemporary buildings on campus housing a collection of over 250,000 volumes, 2,500 current periodicals, microfilm and microcard resources. It can ultimately accommodate 500,000 volumes, with all available on open shelves. A *Library Handbook* containing a list of library services, hours and maps, and other pertinent data is available upon request in the Reference Department. An Independent Learning Center provides multi-media self-instructional facilities.

Summer Session

The College offers graduate and undergraduate credit courses during four summer sessions. A *Summer Session Bulletin* is available in the Office of Summer Session each May which outlines programs and courses.

FACULTY-STUDENT ASSOCIATION

The Faculty-Student Association (FSA) is a not for profit, educational, and benevolent membership corporation which provides auxiliary services to students, staff, and faculty in achieving the overall educational objectives of the College. The Association is governed by a nine-member Board of Directors comprised of three students, two faculty members, the Vice Presidents for Academic Affairs, Administration, and Student Affairs and the President of the College. Any member of the College community is welcome to attend Board meetings which are usually held once a month. The FSA has a contract with the State University by which it is granted the privilege to operate auxiliary services. The State University provides the space and utilities at no expense to the FSA. The FSA operates the following activities:

Business Office

The FSA Business Office, located in the basement of Chase Hall, provides accounting services for the Food Service Department, the College Store, and the United Student Government. Guaranteed payment checks (N. Y. State Payroll, Work Study, Money Orders, etc.) may be cashed during the hours of 9:30 a.m.-11:30 a.m. and 1:30 p.m.-3:30 p.m. Monday thru Friday, in an amount of \$75.00 or less. Personal checks will have a maximum amount of \$25.00, and students will be limited to cashing one check per week. The FSA will charge \$2.00 for the return of checks not honored by the bank for payment. Check cashing privileges will be suspended for the balance of the school year to anyone whose check is not honored by the bank.

College Store

For the convenience of the campus community the College Store sells textbooks, paperbacks, supplies, stationery, art supplies, greeting cards, college sportswear, records and other sundry items. The Store, which is located in the basement of the College Union, is open Monday-Friday from 8:00 a.m. to 5:00 p.m.; and Saturdays from 10:00 a.m. to 2:00 p.m. For those wishing credit, the Store honors the Empire and Master Charge credit cards.

Film Rental Library

The Film Rental Library houses approximately 1,400 films (16 mm), 1,200 filmstrips and 1,100 audiotapes. These materials are available to Faculty members, student teachers, schools and community organizations throughout New York and surrounding states. The Film Librarian is available for consultation on the latest materials used in each subject area and on problems relating to film ordering, scheduling or their use.

ACADEMIC REGULATIONS AND PROCEDURES

All College academic regulations shall apply to all students regardless of student status, program or college session. Each student is entitled to a catalog and must retain it and apprise himself of its content as they apply to him.

Academic Honors List

The Academic Honors List for students is maintained for students whose academic average for one semester (a minimum of fourteen semester hours) is 3.5 or higher. Semesters in which student teaching occurs are not used in preparing the list. No student with a grade of "U" is eligible.

Attendance Regulations

The College has no attendance regulation applicable to all courses. Attendance regulations are established by each instructor for his section(s) and must be distributed to his classes at the beginning of each semester or summer sessions. Students are responsible for knowing and observing the regulations.

Auditing of Courses

Any student wishing to audit a course must first secure, in order, the approval of his Department Chairman and the instructor. Such persons shall abide by all University regulations.

Course Auditor shall:

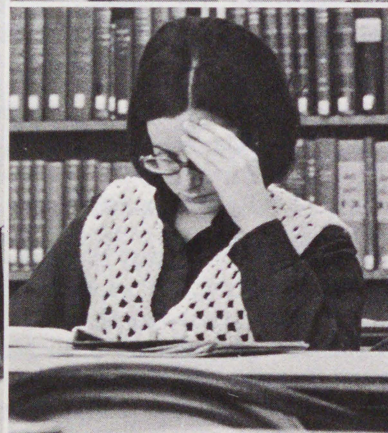
1. Not be charged any tuition or fees.
2. Not be enrolled and listed in Registrar's Office for such course.
3. Attend without credit.
4. Not be required to meet the requirements of the course.
5. Attend without formal recognition.

Exception—no person shall be allowed to be a course auditor in any foreign study program or course.

Challenge of Courses

Any undergraduate student may challenge any required course or any prerequisite for such a course in the curriculum for which he is enrolled.

1. Credit for successful challenge of courses and for advanced credit may not exceed thirty-two semester hours for any student.



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2. Advanced standing (but not credit) will be granted for successful challenges of courses beyond the thirty-two semester hours of credit permitted above.
3. A student may not take a challenge examination in a course in which he is enrolled.
4. A student may not challenge a course more than once.

Change of Status

Academic Dismissal A student may be dismissed from College for:

1. Failing any subject for the third time.
2. Failing one-half or more of a semester's work as scheduled.
3. Failure to meet the probation regulation. (See Probation.)

Declaration of Major

Each student must have declared his academic major before the end of his third semester (completion of 45 semester hours) if he started as a freshman at this College or upon application for transfer admission if he has 45 semester hours of college credit.

A student will declare his initial commitment to a major in the Office of the Dean which has responsibility over the Department or Division in which the major is declared.

Change of Major

A student who wishes to change his commitment to a major must obtain the appropriate forms from the Registrar's Office, complete them, and return them to the Registrar's Office by the following dates:

<i>Semester of Transfer</i>	<i>Deadline Date</i>
Spring	November 1
Summer Session	March 1
Fall	March 1

No requests for transfer will be considered after these deadline dates.

The student must meet the admission requirements (if any) of the major into which he is transferring and may be called in for a conference with the department chairman or division director responsible for the major.

A student on probation will not be permitted to transfer to a new major without approval of the faculty responsible for the major. Accordingly, a student must have completed and had recorded prior to the date of application a minimum of one semester's grades from this institution.

Leave of Absence

Students forced to leave college for reasons of health, finances, short term military service, or pressing personal reasons other than primary academic difficulties may be granted a leave of absence for up to one full year after the end of the semester in progress. The leave begins upon approval of the request.

Students desiring leave of absence should complete the necessary forms and have them approved by the appropriate Dean. The Dean's Office will forward the completed forms to the Registrar's Office. The student must indicate his intended date of return to the College on the appropriate form. If the student does not register by the notification date, it will be assumed that the student has withdrawn from College.

Contract

Students who have reached the sophomore level and are academically in good standing, may, with the permission of the instructor and the Chairman of the department involved, elect to take one or more courses by contract rather than by the usual method. A student choosing this option will be provided with a course outline, bibliography and statement of his responsibilities and dates by which these are to be met. He is then free to pursue the course by independent study under the guidance of the faculty instructor. The number of conferences, the type of evaluation, the culminating activity will be determined by the faculty and student involved.

Contract can be used by students who are unable to attend class regularly and who are able to arrange for the pursuit of the course under these circumstances with the professor teaching it.

This option is also open to freshmen in such special cases as the following:

1. Students who 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. Students who have successfully challenged the course preceding this in the sequence within that discipline.
3. Students who enter the college with an excellent secondary school record or significant achievement or who have honors work in secondary school in pertinent fields.

Each department or division will determine its own method for administering this program.

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NEW YORK

Credit for Advanced Placement Examinations

1. Credit may be granted to students admitted to the College for a subject in which they present acceptable grades in the New York State College Proficiency Examinations, the College Entrance Examinations Board Advanced Placement Examinations, or other approved advanced placement examinations, provided such subjects meet the curricular requirements of the specialized divisions of the College.
2. Students receiving the lowest passing grade may be admitted to an advanced course but no credit will be granted for the beginning course thus exempted.
3. Matriculated students must receive advance approval from the appropriate Department Chairman before taking such examinations for credit.
4. No credit will be granted when the examination subject is the same as, or overlaps, a college course already credited.

Credit for Educational Experience in Military Service

College credit may be granted for educational experience received in military service, specialty schools, technical training schools and basic training programs. Evaluation of such experience will be made in terms of its relation to the degree requirements of the College and the recommendations suggested by the American Council on Education Credit Manual. Request for such credit should be addressed to the Office of Admissions and Records. Accompanying such a request must be all documents which evidence completion of such courses or experiences.

In no case shall credit accepted from such a source exceed sixteen semester hours. Such credit as a transfer student may have received from any prior institution is subject to review and re-evaluation.

Dropping a Course

Dropping a course means cancelling registration in one or more courses but short of full withdrawal from the College. A student may drop a course without academic penalty at any time prior to the end of the tenth week of a semester or prior to the end of the fifth week of a summer session and receive a "W" for that course. However, each change in a student's registration after the last Drop-Add day will carry a charge of \$5.00. Instructors are required to apprise students of their academic standing in a course 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."

An exception may be made for unusual circumstances beyond the control of the student. In such cases, procedures for "Waiver of Academic Regulations" (p. 67) will apply.

Grading*Definition of Grading System*

The following grades and status indications are used by the College to indicate the quality or status of student achievement:

Grades A—Superior work; B—Work above average; C—Average; D—Work below average, but passing; E—Failure or unofficial withdrawal from a course; S—Satisfactory; U—Unsatisfactory; P—Pass (in course taken on pass-fail basis); *Status*: W—Official withdrawal; I—No points, work incomplete.

Incompletes

1. An Instructor may grant a status of "incomplete" only when:
 - a. The circumstances which have led to a student's failure to complete course requirements are known to be beyond the student's control; viz., serious illness; unavailability of material; has been planned for educational reasons; etc.
 - b. Chairman/Director of department/division involved has received notice of granting of incomplete containing a brief description of nature of unfinished work.
2. The dates before which an "incomplete" may be converted to a letter grade are:
 - a. April 1 for "incomplete" given at the end of the fall semester.
 - b. November 15 for "incomplete" given at the end of the spring semester and/or summer session.
3. The Registrar is authorized to record a grade of E for a student who has not, within the stipulated time period, fulfilled course requirements.
4. In the event the Instructor who had granted an "incomplete" is not available to evaluate the work done by the student in fulfillment of course requirements during the stipulated time period, any recommendation for change from the "incomplete" to a letter grade may be made by the Chairman/Director of the absent Instructor.
5. Appeals from any of these regulations may be made through the Office of the Vice President for Academic Affairs, the latter being empowered to issue waivers.

Pass-Fail System

A full-time student may elect to enroll for a maximum of one course each semester on a Pass or Fail basis. The maximum number of semester hours that may be completed on a Pass or Fail basis towards a degree is twenty-four. One course may be taken on a Pass or Fail basis during the summer of each year.

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A student must declare his intention to take any course on a Pass or Fail basis by the end of the fifth week of classes in any semester or the end of the second week of classes in a summer session. A declaration of intent to take a course on this basis is completed in the Registrar's Office. Once a declaration of this intent is filed, it may not be rescinded and no letter grade other than P or F may be awarded for that course.

The above rules do not apply for a course for which a grade of "P" is earned through the College challenge program.

Upon the declaration of a major, a student may not elect to take on a Pass or Fail basis any course required for the completion of his major. The professional requirements for secondary education majors or students seeking certification are considered as a requirement in this sense. General college or degree requirements such as General-Liberal, physical activities and foreign languages for the non-language major are *not* considered requirements in this sense.

Quality Point System

The quality point system is used for determining all academic averages. Quality points are awarded so that the student receives four quality points for each semester hour of A he earns; three quality points for each semester hour of B; two quality points for each semester hour of C; one quality point for each semester hour of D; and zero quality points for each semester hour of E. No other letter grade carries any quality point value. A student's quality point average is determined by dividing the total number of quality points awarded by the total number of semester hours attempted for courses in which one of the above letter grades is earned. If a student repeats and passes a course for which he previously earned a grade of E, the semester hours attempted for the course will be counted only once. That E grade will thereafter not be used in computing the cumulative quality point average although it will remain on the student's permanent record. Semester hours earned with a grade of P and those semester hours credited to student teaching or professional semesters with a grade of S or U will not be used as part of the total number of semester hours attempted when determining a cumulative quality point or a semester quality point average.

Graduation

Application for Degree

Students expecting to qualify for a degree must make application in the Registrar's Office no later than three months prior to the date they expect to earn the degree. Failure to make application before the final deadline may eliminate the student from the commencement program and unduly delay the granting of the degree. All obligations to the College must be met before qualifying for the degree and graduation.

Requirements for Graduation

Each student must complete the prescribed curriculum for his major. If requirements are changed during the time the student is completing his major, he may choose to graduate under either the old or the new requirements. He must maintain for all his course work and for all courses taken in his major a 2.00 minimum cumulative quality point average as defined under grading — Quality Point System.

The minimum number of hours required for graduation is indicated in each particular curriculum program.

A minimum of 32 semester hours including the last 16 hours of a student's work must be completed in residence.

No student with an incomplete (I) grade on his records shall be cleared for graduation until the "I" has been replaced with an appropriate letter grade.

Application for Graduation and Participation in Commencement Exercises

The College holds one Commencement each year, at the end of the spring semester. Proper forms in the Registrar's Office should be completed by March 1 in order for the student to be included in graduation exercises.

Graduation with Honors Citation

To be eligible for honors citation, a student must have 3.5 or higher cumulative average for all work completed at this institution but in no case fewer than 60 semester hours. The designation Summa Cum Laude, Magna Cum Laude, and Cum Laude shall be respectively granted to the twenty per cent, thirty per cent and fifty per cent of the total number of students with an average of 3.5 or higher. No student with an "I" or "U" outstanding shall be considered for honors.

Independent Study

Independent Study provides an opportunity for students to pursue a topic that may be covered only briefly or not at all in regular course offerings. The student is free to choose a faculty sponsor who is an expert in that topic and to work out with his sponsor all of the dimensions of the study; including the number of credits it is worth and the method of evaluation. The study must have the approval of the Chairman of the Department under which the study is offered as well as by the Chairman of the Department in which the student's major lies. Independent Study was originated to provide students with a system for in-depth investigation of topics of their choice with a professor who could help them to pursue their topic. It assumes a degree of knowledge of the area on the student's part and a strong motivation to work alone much of the time. Independent Study is never a substitute for a course already offered. Further information is available in the Office for Academic Affairs.

Student Qualifications

- a. Sophomore, junior or senior status as a student at this College.
- b. Satisfactory completion of the basic courses in the area of selected study or the equivalent.
- c. A minimum cumulative average of 2.00 and an average of at least 2.00 in the previous semester.
- d. A better than 2.00 average in the work completed in the area of selected study.
- e. Qualification (a) above may be waived for students who have successful advanced preparation in the selected areas.

Study Qualifications

- a. The study must be relevant to the student's total program as determined by the student and his advisors and approved by the chairman of the department or division of the student's major.
- b. The activity must be such that it derives special benefit from the supervision of the College staff.
- c. The study must be under the supervision of a qualified member of the appropriate department and must meet the standards established for such projects by the department.

Limitations

- a. No independent study may be undertaken for fewer than 3 semester credit hours.
- b. A maximum of 30 hours of independent study in all areas may be undertaken by a student.
- c. A student will be limited to no more than 2 independent studies in any one semester.

Probation*Academic Probation*

A student is in *good Academic standing* as long as he maintains a cumulative quality point average of at least C (2.00). Any student whose cumulative average falls below 2.00 is classified as *on academic probation*. The academic status of a student is determined at the completion of each semester. Each student has the responsibility to know his current academic status. If a student finds that his status at the end of any semester places him *on academic probation*, he will have until the completion of the next regular semester to raise his cumulative quality point average to a minimum of 2.00. Failure to earn a cumulative quality point average of at least 2.00 at that time makes a student ineligible to remain in College without a

recommendation to do so from the appropriate Dean after a recommendation from his Probations Appeal Board.

A student who finds that he is not eligible to continue his enrollment at the College because of the above condition and who desires to appeal his status, should make an appointment to have a hearing before the appropriate Probations Appeal Board. This is done in the office of the Dean of the Faculty responsible for the student's major program. Uncommitted students should make such an appointment at the Office of the Vice President for Academic Affairs.

A student experiencing academic difficulties at any time should seek assistance and guidance from his advisor, his department chairman or division director and/or a professional college counsellor.

Project

Every upperclassman shall be permitted to undertake a project related to a course required of the student. A student may earn no more than 3 semester hours of credit per project. Each student will be limited to 2 projects during his enrollment as an undergraduate student.

Readmission to College

1. The applicant applies to the Admissions Office for a readmission application, stating the time he desires to re-enter, the reasons for re-entering, and Division re-entering.
2.

<i>Semester or Session You Wish to Be Readmitted</i>	<i>Deadline Date</i>
Spring (2nd Semester)	November 1
Summer Session	March 1
Fall (1st Semester)	March 1
3. An applicant who has been academically dismissed will not be considered for readmission until one year has elapsed.

When readmitted, he must pass a total of 120 hours (not including Physical Education activity courses) with a cumulative average of 2.0 to be graduated. This must be accomplished in a maximum of 138 hours attempted, including all those courses taken before academic dismissal.

In any subsequent semester when it becomes mathematically impossible for the student to attain a cumulative average of 2.0 by maintaining a B average in the hours remaining, the student shall be dismissed permanently.

4. The Admissions Office will check the proper offices or divisions for their professional judgment on whether or not the student should be readmitted.
5. The applicant, if accepted, will work out his program with the Department which he is entering.

Registration

All students are required to follow the registration procedures established by the Registrar.

1. *Pre-registration* is mandatory for all currently registered students who plan to return to the College the following semester. Those who do not avail themselves of pre-registration forfeit any priorities they may have had for manual registration and will be permitted to register only after all other undergraduates have completed their registrations.
2. *Manual registration* is established for those whose computer pre-registrations are incomplete and for newly accepted students. All students are required to register on the dates specified by the Registrar. In unusual cases late registration is permitted with the appropriate Dean's approval and the payment of a late registration fee of \$10.00.
3. *Drop-Add Days* are specifically for necessary adjustments to schedules. No student may register or add a new course after Drop-Add Days without petitioning for a waiver of academic regulations.
4. Students with outstanding *financial obligations* will not be permitted to register.
5. Students subject to possible dismissal under the Dismissal or Probation regulations may pre-register. However, the student is not officially enrolled for the semester until his official status has been determined by the appropriate Dean. If the determination is for dismissal, the student must leave the College immediately. Students clearly subject to dismissal should not begin a new semester or summer session.

Cross-Registration

Students at the State University of New York at Buffalo and the College may take courses at either institution to earn degree credit. A student at the College may enroll in as many as two advanced courses; however, both institutions limit enrollment in any given section. Only sophomore, junior and senior courses are open for cross-registration. Grades received are included in the student's grade point average.

If a student wishes to take a course on the other campus that will apply toward his major, he must obtain permission from his Department Chairman. The departmental permission slip must be presented at the Registration Office, Rockwell Hall 313, where the student may obtain his class card and other information needed to complete his registration.

Withdrawal From College

Students finding it necessary to withdraw from College must do so officially to maintain good standing and eligibility for possible readmission.

Withdrawal should proceed as follows:

1. Consult the Division Director or Department Chairman and obtain a permit to withdraw.
2. File the permit with the Registrar and complete withdrawal procedure as outlined by that office. Failure to file may cause an "E" to be recorded in each course for which the student is registered and does not complete.

Where it is impossible to do this in person, it must be done by a letter signed by the student or a parent. All students who officially withdraw from College with no outstanding obligations or commitments are in good standing.

Refunds of tuition will be made on a pro-rated basis up to the fourth week of classes of the semester upon written request and recommendation of the Director of the Division or Department Chairman.

Repeated Courses

A student may repeat a course for which a failing grade was earned. In the event that he subsequently earns a passing grade, only the latter grade and semester hours completed will be used from that time on in computing the student's cumulative quality point average. Both grades will remain on his permanent record. A student may not change his cumulative quality point average by repeating a course for which he has received a passing grade. Only the first passing grade will appear on his records and be used in the computation of any quality point average.

Students wishing to repeat a course for change of grade (E) purposes must complete the appropriate form in the Registrar's Office, Rockwell Hall 310, prior to the end of the fifth week of classes.

Student Academic Grievance Procedures

When a student believes that an instructor fails to meet his professional obligations (e.g., failure to meet classes regularly or on time, absence from scheduled office hours, capricious evaluative procedures, a pattern of demeaning behavior, etc.), he shall first confer with the professor for the purpose of resolving the difficulty. Having failed to resolve the difficulty, the student shall inform the Chairman of the Department of the problem. The Chairman, functioning primarily as mediator, shall discuss the complaint with the professor in question, informing the student of the results of this discussion. Before any action, the Chairman shall request the Dean and the Vice-President for Academic Affairs for any information relative to this and similar cases concerning the particular professor that might have been filed in their respective offices.

If the problem persists, the Chairman shall take the matter up with the Department, or appropriate committee within the Department, for

action. When the problem is presented to the Department or a committee thereof, the Chairman shall present the case. The Chairman and the faculty member involved shall not vote. This decision shall be binding on the Chairman. A memorandum summarizing the findings in the case shall be incorporated into the professor's departmental file and forwarded to the Dean's office with or without a recommendation for action.

If the problem involves the department chairman, the student may appeal directly to the Division Director or Dean, who shall follow the procedures outlined above for chairmen.

Each major Faculty shall establish a pool of students and faculty sufficiently large to guarantee representation of each department or teaching unit of the Faculty to constitute a board of appeal for cases where students or faculty wish to appeal beyond the departmental level. Faculty members shall be elected by each department or teaching unit. Student representatives shall be selected in the same manner each department or teaching unit utilizes to involve students in appropriate departmental committees.

When a case is brought to the Dean, acting as chairman, he shall select, by lot, two students and two faculty members from the pool to adjudicate the matter. None shall be from the departments of the parties involved. The Dean shall be a voting member of the board of appeal. Jurisdiction is limited to academic matters.

The board of appeal shall hold closed official hearings at which both parties shall be present. Each may bring one adviser. Transcripts of the proceedings shall be kept. Decisions of the board of appeal shall be communicated, in writing, to both parties and to the Chairman of the Department involved.

While it is anticipated that the board of appeal will be able to dispose finally of most cases, the right of either party to appeal to the Vice-President for Academic Affairs, the President of the College, or to any other legally established grievance board is held inviolate. However, appeals beyond the Dean's board of appeal shall be in writing and include the recommendation of the board of appeal.

Transcript of Record

Official transcripts of records are not issued directly to students, either undergraduate or graduate, but will be forwarded upon written request to authorities whom the student may designate. No charge is made for the first transcript. Each additional request requires a fee of \$2.00 per copy paid in advance. No telephone requests will be honored. Requests in person may be made on the transcript request form available in the Records Office, Rockwell Hall 312. Mail requests should include the student's name, I.D. number (if known), date of birth, last semester of attendance

at State University College at Buffalo, name and address to whom the transcript is to be sent and a check or money order to cover the applicable fee.

Because of the large number of transcripts requested at the end of each semester and summer session, three weeks should be allowed for requests to be filled during those periods. After the Records Office has been notified of overdue student accounts, transcripts will not be provided without clearance from the office placing the hold on the record.

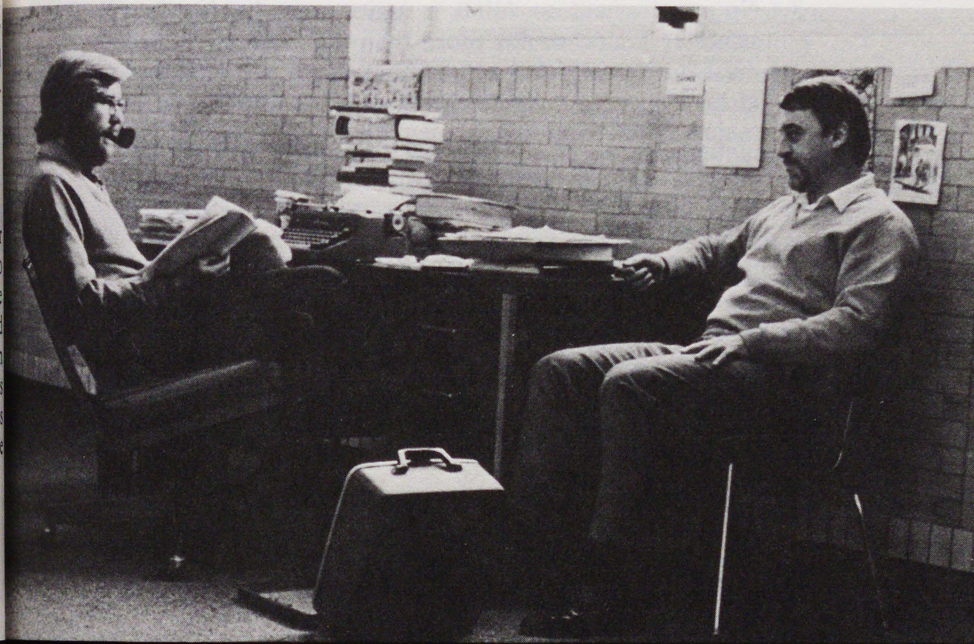
Unit of Credit

The semester hour is the unit of course credit. It represents the satisfactory completion of one class period per week, with all required preparation, for one semester. A course having three class periods a week will, therefore, earn three semester hours credit. Studio, laboratory, and shop classes usually earn one credit for each two hours of attendance unless otherwise indicated. Two hours of student preparation for each class hour is the accepted minimum College standard. No undergraduate course may be offered or elected for less than or more than the number of credit hours as indicated in the registered course description.

Waiver of Academic Regulations

Decisions on requests for waiver of academic regulations which relate directly to a student's major are made by the appropriate department chairman or program director in accordance with procedures established by department or area faculty.

Recommendations on requests for waivers of academic regulations which do not relate to a student's major are made by a committee of faculty and students to the Vice President for Academic Affairs.



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GENERAL-LIBERAL REQUIREMENTS FOR ALL CURRICULA

The following policies and the General-Liberal requirements pertain to the B.A., B.S., and B.S. in Education degrees:

1. It may be advisable that a student declare a major within the first year; however, all students will be required to declare their major prior to the end of their first sophomore semester (completion of 45 semester hours).
2. Sixty hours in General-Liberal Education is required for all B.A. and B.S. degrees granted at the College. Specific courses among the 60 credits may not be mandated for any student. It is recognized, however, that some advanced courses have prerequisites. Nine credits, to be selected by the student, are to be available from each of the following areas, with selection to be made from at least two fields in each area:

Arts	9
Humanities	9
Social Sciences	9
Science/Mathematics	9

Twenty-four hours to be selected as follows:

- a. Fifteen hours from the above four areas to be selected by the student under advisement.
 - b. Nine hours of courses to be selected by the student under advisement from those designated as General-Liberal* in areas other than above, and/or from the above areas at the student's option.
3. No requirement to fulfill a major may be for fewer than 24 semester hours, or for more than 42 semester hours. A student must have completed a minimum of six semester hours of work in his major at this College in order to receive a degree in the major. This requirement may be waived through the Office of the Vice-President for Academic Affairs upon recommendation by the department.

Courses and sequences of a major are to be determined by the department(s) or division(s) which offers the content.

Designation to be approved by a committee composed of an equal number of members from the sponsoring department and from the department(s) in the College of Arts and Sciences most closely concerned with the course in question, (in either case not to exceed three members) and the Dean of the sponsoring department, and the Dean of Arts and Sciences. A majority vote (more than 50%) will constitute approval of the course as "General-Liberal." Courses so designated are marked with ().



After a student has met graduation requirements for a degree in the area of his major, all remaining hours for graduation shall be unrestricted electives.

4. The major areas of General-Liberal Education and/or the departments or disciplines within each are:

<i>The Arts</i>	<i>Humanities</i>	<i>Mathematics and Science</i>	<i>Social Sciences</i>
Art Education	English	Biology	Anthropology
(some courses)	Foreign Language	Chemistry	Economics
Dance	Literature	General Science	Geography
Design	Philosophy	Geosciences	History
Fine Arts		Mathematics	Political Science
Music		Physics	Psychology
Speech &			Sociology
Theatre Arts			(Social Studies)

5. Physical Education Requirement: Every regular undergraduate student must fulfill a three semester requirement of physical education activity courses. One credit per semester shall be given and shall be included in the total hours for graduation. The student shall select the courses to meet this requirement. This requirement may be waived by the Vice-President for Academic Affairs or his delegate. No additional physical education activity shall be required. No additional activity courses may be elected for academic credit.
6. All students are expected to evidence a mastery of English.

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FACULTY OF APPLIED SCIENCE AND TECHNOLOGY

Applied Science and Technology includes the Caudell Division of Applied Arts and Sciences and the divisions of Technology, Industrial Arts Education, and Vocational-Technical Education, and offers courses in Safety Studies, Driver Education and Computer Science. The programs and courses offered by each division are described under the divisional headings.

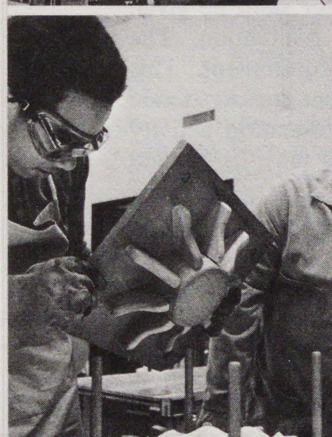
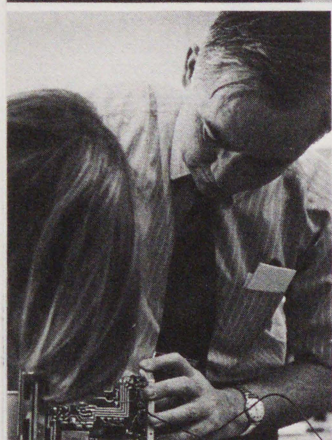
A Bachelor of Science in Education degree with a major in Home Economics and Distributive Education is offered by the Caudell Division, and in Industrial Arts Education and Vocational-Technical Education by their respective divisions. Graduates are certified to teach in their area of specialization in the public schools of New York. In addition to the Education degrees, Caudell Division offers a Bachelor of Science degree program with majors in the Department of Nutrition and Food Science for students interested in careers in dietetics, nutrition education, experimental foods, and food service administration; in the Department of Environmental and Consumer Studies for students interested in careers in environmental design and in business; and in the Department of Human Development, Family and Community Relations for students interested in careers in a variety of helping service settings. The Technology Division's Bachelor of Science degree program with a major in Industrial Technology prepares graduates for technical management positions in business and industry, and the Bachelor of Technology program prepares technologists in the fields of Mechanical, Electrical, and Electro-Mechanical Engineering Technology. Both degree programs are designed for transfer from technology programs offered in two-year colleges.

A significant portion of the Bachelor of Science and the Bachelor of Science in Education degree is devoted to study in the Liberal Arts. The major in each degree is based upon the "science of the application of knowledge to practical purposes."

The Faculty of Applied Science and Technology also includes in its offerings elective and general-liberal courses which may be selected by students from all divisions.

Caudell Division of Applied Arts and Sciences

In the departments of this Division there are majors which attract students who are interested in the social sciences, in the natural sciences and in aesthetics and design. The Division appeals to students who like to deal with concrete problems of man's interpersonal relationships and with his constant needs for food, clothing and shelter. It appeals to the student who wants to feel that his career serves important aspects of the lives of others.



JOURNAL OF THE
 STATE UNIVERSITY COLLEGE
 ALBANY, NEW YORK

The Division welcomes transfer applicants from the community colleges and other liberal arts programs as well as students in A.A.S. degree programs such as food service administration, community service, and business administration. Students in A.A.S. programs are encouraged to complete at least 30 semester hours of work in liberal arts as part of their two-year curriculum. (See departmental statements regarding requirements for credits in professional courses which must be completed at SUCB.)

ENVIRONMENTAL AND CONSUMER STUDIES

The Environmental and Consumer Studies Department serves students interested in the application of art, science, behavioral science, economics, business administration and distributive education as these areas contribute to the understanding of business organization and the distributive chain from producer to consumer. The emphasis is placed on the consumer's point of view, and the knowledge of the structural, functional and aesthetic qualities of products used in everyday life, such as clothing, home furnishings, and equipment. Students may enter the fields of apparel design, textiles, advertising, display and marketing (wholesaling and retailing), as well as consumer education and consumer relations with department stores, manufacturers, public utilities, communication media, and governmental and private agencies engaged in research and control. Two semesters of general chemistry are required of all majors in this department. Students who are interested in clothing design and production from the manufacturer's point of view or who want courses in depth in interior design or wholesale management technology of fashion industries may apply for a semester or a year in residence at the Fashion Institute of Technology in New York City, which is also part of the State University of New York. Credits earned there may be transferred and applied toward the credits necessary for the SUCB degree. Students in this department are encouraged to earn academic credit for experience in their field working on the job. Transfer students must take at least 18 of the required 36 hours of ECS courses at the State University College at Buffalo.

Graduates of the Distributive Education curricula receive the Bachelor of Science in Education degree and a provisional certification to teach Distributive Education and related business subjects in the New York State Public Secondary Schools, as well as in related adult Education programs. Permanent certification is earned by completing an additional thirty semester hours of credit within a five year period from the date of original certification.

Distributive Education as taught in the high schools is a program of instruction in sales and marketing, merchandising and management. The program is planned to prepare high school students for employment in the various areas of distribution, such as producing, marketing, wholesaling, retailing, transporting and service businesses.

In order to obtain, hold and advance one's position, or to succeed in one's own business in the field of Distributive Education, the individual must possess various competencies. These competencies are to be conveyed to the high school student by the teacher in the form of classroom instruction, coordination of work study program, and coordination of the local clubs of Distributive Education Clubs of America. (DECA)

The student majoring in Distributive Education will be prepared for teaching through an interdisciplinary approach in the Department of Environmental and Consumer Studies and the Vocational Technical Education Division of the college.

Concentrations in Clothing and Textiles, Housing, Sales and Marketing and Business Administration are available. The following curriculum leads to the B.S. degree:

	Sem. Hours
General Liberal Requirements	60
ECS Courses Required	36
Electives within Caudell	6
Free Electives	18
Physical Education	3
<i>Total Hours</i>	123

Students May Select at Least One of the Following Concentrations:

Clothing and Textiles

This concentration is developed for students interested in either apparel design or textile science, or a combination of the two areas.

APPAREL DESIGN OPTION

The student interested in apparel design will build a strong sequence in design and fine arts courses.

Required: ECS 207, 210, 307, 427, 425, 447

TEXTILE OPTION

The student interested in the textile option will build a strong sequence in chemistry, physics, economics, and textiles courses within the design department.

Required: ECS 207, 210, 335, 437, 490

Housing

This concentration appeals to students who want to specialize in either furnishing the home or in the social and economic aspects of housing.

FURNISHING OPTION

The student interested in furnishing will build a strong sequence in Design.
Required: ECS 207, 220, 221, 310, 420, 431

HOUSING OPTION

The student interested in housing will build a strong sequence in Sociology, Anthropology, Psychology, and Economics.
Required: ECS 207, 220, 221, 310, 420, 431

Sales and Marketing

This concentration appeals to the student who is concerned with production, distribution and consumption of products and wishes to work for business, industry, or government in such areas as advertising, buying and merchandising, management and operations, consumer protection and consumer relations, and research, or other areas of distribution. A B.S. in Distributive Education is also offered.

MARKETING OPTION

The student interested in marketing will build a strong sequence in Anthropology, Sociology, Psychology, and Economics.
Required: ECS 117, 110 or 210, 207, 220, 325, 327

MANAGEMENT AND OPERATIONS OPTION

The student interested in management and operations will build a strong sequence in Anthropology, Sociology, Psychology, and Economics.
Required: ECS 117, 110 or 210, 207, 220, 227, 325, 426, 429

Distributive Education Requirements**General Liberal Requirements**

The following are strongly recommended: English (Mass Communication Media), Math of Finance, Elementary Probability & Statistics OR Managerial Statistics OR
Economic Statistics, Sociology—Anthropology, Psychology OR
Interpersonal Relations, Chemistry

Divisional Requirements

ECS Requirements	24
ECS 110 or 210, ECS 117, ECS 207, ECS 220, ECS 221, ECS 412, ECS 310, ECS 335,	
Plus five from the following	15
ECS 237, ECS 325, ECS 327, ECS 328, ECS 429, ECS 431, ECS 227, ECS 428, ECS 101, ECS 426, IT 400,	

Professional Requirements 21

Elect 2 from the following: VT 200, VT 201, VT 203 6 hrs.

Professional Semester:

Student Teaching & ECS Coordination in DE	9 hrs.
VT 200, VT 204	6 hrs.
	15 hrs.

Physical Education	3
<i>Total Hours</i>	123

PLUS: One year work experience to be arranged—possibly during the summer.

HOME ECONOMICS EDUCATION

This department prepares students to teach Home Economics in grades 1-12 and in adult education programs in the public schools of New York State. Upon graduation from this College the student receives a provisional certificate which is valid for a five-year period. The student must complete an additional 30 semester hours of credit beyond the bachelor's degree to obtain a permanent certificate. Advisors encourage students to obtain a master's degree while taking the 30 additional credits. The following curriculum leads to Bachelor of Science in Education degree:

Total General-Liberal Requirements (See Page 68)	<i>Semester Hours</i> 60
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Divisional Courses**Required**

ECS 107, 207, 220, 221, 402	
HDFCR 109, 209 — NFS 108, 206, 208	30
Electives within ECS, HDFCR, NFS	9
	39

Professional Requirements 21

Educational Psychology	3
Professional Semester — HEE 460-461-462	15
One course to be elected from the following:	3
HEE 217, 417, 424, 429, 435; Ed. 418; or HDFCR 218	

Physical Education	3
<i>Total Hours</i>	123

HUMAN DEVELOPMENT, FAMILY AND COMMUNITY RELATIONS

This department serves the student who wants to apply the concepts of psychology, sociology and other behavioral sciences to the study of the

development of the individual, the family and community relations. The department prepares persons for work in social agencies, nursery schools, child development centers, probation departments, mental health clinics and community centers. Many students will pursue graduate study.

It is anticipated that as new human service careers develop, patterns of courses will be suggested by various professional organizations and by the demands of society. While the aim of this department is to produce *generalists* in human development who can build upon a broadly based program in liberal arts, some students may wish to prepare themselves for specific professional career options. At this time three options of course sequences are feasible.

1. Early Childhood development — Pre-kindergarten programs — for students interested in nursery schools, child care or other child development centers.
2. Human Services-Social Work — For students interested in working in settings responsible for delivery of helping services to individuals or with groups concerned with community problems. Field instruction is an integral part of this sequence. The number of students who can be included in this sequence will be determined by the capacity of agencies to accommodate students.
3. Human Development and Family Relations — For students interested in research and college teaching careers in child and family development.

Students, under advisement, will be able to individualize their program within the broad outlines of the departmental major requirements.

	Semester Hours
Total General-Liberal Requirements	60
Major Requirements	36
Required of all majors HDFCR 109	
HDFCR 358	
HDFCR 317 or equivalent	
HDFCR 485	
A list of course requirements for specific sequences are available in the department office.	
Electives within Caudell Division	6
Free Electives	18
Physical Education	3
Total Hours	123

NUTRITION AND FOOD SCIENCE

Majors in the Department may choose from among three different concentrations: Dietetics, Nutrition and Food, or Food Service Management.

Dietetics

Majors in Dietetics are prepared for positions in hospitals, clinics, governmental agencies, and, if courses are appropriately selected, graduate study. They may work as private consultants with physicians, as nutritionists with social or health agencies and in food industries. The Department appeals to science and behavioral-science oriented students who like biology and chemistry and who want to integrate these sciences with the study of food and nutrition.

The following curriculum leads to a Bachelor of Science degree and meets the requirements of the American Dietetic Association for hospital dietetics, and other clinical or managerial internships.

	Semester Hours
Total General-Liberal Requirements	60
(See Page 68)	
NFS Requirements*	30
NFS 108, 208, 308, 408, 410, 412, 415, 434	
NFS 490 (3-6 hours)	
NFS electives—3 hours	
A minimum of 12 hours toward the major must be completed at SUCB	
Caudell Division Requirements (outside of major department) ...	6
ECS 325—Personnel Management	
and other courses by advisement from departments of the Division other than NFS	
Professional Requirements	3
Educational Psychology	
Electives	21
(It is recommended that Computer Science 111 be included among the 15 hours of electives.)	
Physical Education	3
Total Hours	123

Beginning September 1972 those juniors who meet the academic requirements and other criteria established by the NFS faculty will have the option of enrolling in a coordinated undergraduate program which includes field experiences designed to meet ADA requirements for becoming a registered Dietitian parallel to completing the requirements for the B.S.

*Students who enter the Division prior to September 1971, may graduate under requirements in effect prior to this date.

degree. Courses are currently being developed that may be required for clinical coordinated students after departmental approval.

Nutrition and Food

Majors in Nutrition and Food are prepared for graduate work in this area as researchers in experimental laboratories and as research assistants in colleges and universities.

The following curriculum leads to a Bachelor of Science degree.

Total General-Liberal Requirements (See Page 68)

NFS Requirements* 30

NFS 108, 208, 317, 408, 434 (15 hours)

NFS 490 (3-6 hours)

electives 9-12 hours

A minimum of 12 hours towards the major must be completed at SUCB

Caudell Division Requirements 6

Courses from departments of the Division other than NFS

Electives 2

(It is recommended that Computer Science 111 be included among the electives.)

Physical Education 12

Total Hours 123

Food Service Management

This concentration appeals to the student who is interested in Food Service Administration as a business position for employment by college food services, public schools, commercial restaurants, industrial organizations and positions in hospitals which do not require ADA certification. The following curriculum leads to a Bachelor of Science degree.

Total General-Liberal Requirements (See Page 68)

NFS Requirements* 30

NFS 108, 208, 308, 410, 412, 415

NFS electives—9 hours

NFS 495 (equipment and layout) 3 hours

A minimum of 12 hours towards the major must be completed at SUCB

*Students who enter the Division prior to September 1971, may graduate under requirements in effect prior to this date.

Semester
Hours
6

Caudell Division Requirements 6

ECS Personnel Management

and other courses by advisement from Departments of the Division other than NFS

Professional Requirements 6

Educational Psychology 203 and Computer Science 111

Electives 18

Suggestion for electives include IT 202, IT 400, IT 409 and additional management courses from ECS & NFS

Physical Education 3

Total Hours 123

Industrial Arts Education Division

Education enhances transmission and improvement of the culture, and assists individuals to adapt to and contribute to it. American culture is influenced pervasively by industrial technology, which involves the application of scientific knowledge to the creation and utilization of energy, materials, and human resources. The extent and quality of knowledge about industrial technology determine the standard of living in every country. This fact makes knowledge about technology an essential part of general-liberal education, and it bears strong implications for the school curriculum.

The challenge to students, and to the profession, is to make a sufficiently keen and inclusive analysis of the highly complex, rapidly snowballing technology to yield valid subject matter content. A second challenge is to make this content meaningful to youngsters through purposeful experiences. To meet these challenges students are involved in introductory materials science courses, a technical semester with actual industrial experience, and a professional semester with in-the-school observation, methods, and practice teaching.

Graduates of the Industrial Arts Education Division receive a Bachelor of Science in Education degree and are certified to teach Industrial Arts in the elementary and secondary schools of New York State.

Some Industrial Arts graduates teach in adult education programs; some enter supervisory and administrative positions in public schools. A graduate program leading to a Master of Science in Education degree prepares students for additional professional advancement.

Applicants must meet the general admission requirements of the College. Preference will be shown those who have two units of high school

mathematics (including elementary algebra) and one unit each of physics and chemistry.

Transfer students, including Technical Institute or Junior College graduates and teachers in other fields wishing to extend their certificates to include Industrial Arts, may be admitted. Courses taken in accredited institutions will be appraised in terms of the requirements of this Division and the State Education Department Certification Bulletin.

INDUSTRIAL ARTS EDUCATION CURRICULUM

	Sem. Hours	Clock Hours
Total General-Liberal Requirements	60	60
(See Page 68)		

Major Field

Each student is required to take following:

I.A. 102	Forest Products Technology	3	6
I.A. 103	Technical Drawing	3	6
I.A. 104	Technical Drawing and Production Planning	3	6
I.A. 106	Metal Technology	3	5
I.A. 203	Electronics	3	6
I.A. 206	Introduction to the Ceramic Industries	3	6
I.A. 208	Graphic Arts	3	6
I.A. 302	Power & Transportation	3	6
I.A. 303	Plastics Technology	3	5
		27	52

Professional Requirements

Ed. 203	Educational Psychology	3	3
I.A. Ed. 300	Intro to Ind. Arts Ed.	3	5
I.A. Ed. 414	Professional Semester	15	—

Advanced Technical Courses, Elective: Totaling	12	20-24
--	----	-------

Physical Education	3	—
Total Hours	123	—

Technology Division

Industrial Technology

The program leading to a B.S. in Industrial Technology provides for the education of personnel qualified for positions in industry which require technical competency, managerial ability, and a broad liberal background. Industrial technology is a field of study which draws upon the principles of management, physical sciences, and the technology of industry. These principles are applied to the development of ideas and the solution of problems involving industrial processes, materials, products and services, and to the management and supervision of the personnel involved.

The Industrial Technology Program prepares personnel for middle management positions in the manufacturing and service phases of industry. For these positions graduates need to be knowledgeable about technology on a broad base, have an entry level technical competence, be educated in principles of industrial management and supervision, and develop breadth through studies in humanities and sciences.

Industries today are experiencing serious voids in their organizations which are becoming increasingly difficult to fill. One of these gaps exists between personnel engaged in theoretical research work, engineering of a high order, and those responsible for actual production. The industrial technologist can fill this need. Typical fields for which an Industrial Technology graduate would be qualified at the entry level include: administrative engineering, technical marketing and sales, supervision and management, production and quality control, technical writing and research development.

This program is open only to those students who have earned an Associate in Applied Science Degree in one of the industrial technologies (electrical, mechanical, industrial, construction, etc.) or the equivalent.

INDUSTRIAL TECHNOLOGY CURRICULUM

	Semester Hours
Total General-Liberal Requirements	60
(See Page 68)	

Major Field

Technical Breadth

IT 100	Graphic Science	3
IT 101	Production Planning and Control	3
IT 102	Electro-Mechanics	3
IT 200	Materials Science and Testing	3
IT 201	Materials Processing	3
IT 202	Statistical Quality Control	3
IT 300	Graphic Communications	3
IT 301	Power-Energy-Mechanisms	3
IT 302	Manufacturing Technology	3

Management

IT 400	Industrial Marketing	3
IT 401	Management Science	3
IT 402	Human Engineering	3
IT 403	Systems Analysis	3
S.E.D. 430	Industrial Accident Prevention	3

Electives	42
	18

Physical Education	3
Total Hours	123

Engineering Technology Department

The Engineering Technologist is a member of the engineering team who provides support in construction, maintenance, operation, and routine design. He is "applications oriented" and falls in the spectrum between the engineering scientist and the technician. The need for Engineering Technologists has developed because of the exponential growth of knowledge in the technologies. The growth has caused a considerable gap between the engineer and the technician. The Engineering Technologist is prepared to fill this gap.

The degrees granted are Bachelor of Technology—Electricity/Electronics Engineering, Bachelor of Technology—Mechanical Engineering, and Bachelor of Technology—Electro-Mechanical Engineering.

This program is open only to those students who have earned an Associate in Applied Science degree or the equivalent in Mechanical or Electrical Technology.

**BACHELOR OF TECHNOLOGY DEGREE
MAJOR IN ENGINEERING TECHNOLOGY**

Summary of Requirements for all Options:

	Semester hours
General-Liberal	27
Arts	9
Humanities	9
Social Sciences	9
Mathematics and Physical Sciences	24
Physics	6
Chemistry	6
Math	6
Electives	6
Technical Sciences	18
AC-DC Circuits	6
Mechanics	6
Materials Science and Testing	3
Thermodynamics and Heat Transfer	3
Electives	9
Physical Education	3
<i>Total Hours</i>	123
Technical Specialty	42
(Mathematics, Physical and Technical Sciences)	
Electricity/Electronics	
Introduction to Computer Science	3
Computer Programming Applications	3

Engineering Statistics	3
Electronics	3
Networks	3
Microwave Techniques	3
Electronic Circuit Analysis	3
Electronic Circuit Design	3
Instrumentation	3
Technical Design I-II	6
Control Technology I-II	6
Electrical Power Systems	3

Mechanical

Introduction to Computer Science	3
Computer Programming Applications	3
Engineering Statistics	3
Technical Drawing I-II	6
Technical Design I-II	6
Control Technology I-II	6
Instrumentation	3
Kinematics	3
Materials Processing	3
Production Planning	3
Vibration & Structural Analysis	3

Electro-Mechanical

Introduction to Computer Science	3
Computer Programming Applications	3
Engineering Statistics	3
Technical Drawing I-II	6
Technical Design I-II	6
Electronics	3
Networks	3
Instrumentation	3
Control Technology	3
Materials Processing	3
Technical Electives	6

Vocational Technical Education Division

New vocational technical programs have been springing up all across the nation as a result of the Federal Vocational Acts. These programs are meeting the needs of the majority of students who will enter the world of work at the completion of either secondary or post-secondary school programs, and are found in city high schools and the relatively new area vocational schools serving several school districts. Typical of these is the Board of Cooperative Educational Services (BOCES) centers found in New York State. Vocational programs are also expanding in the two-year colleges and technical institutes.

These schools offer courses in more than fifty different trades and occupational areas, many of which did not exist a few years ago.

The people who teach in these programs are men and women who have a considerable amount of experience in their trade. In addition, they

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learn the organization and methods of teaching through a special teacher education program.

The Vocational Technical Education Division offers qualified candidates an opportunity to prepare for teaching positions in public vocational and technical high schools, technical institutes and community colleges. Programs offered lead to:

1. Basic Teaching Certification
2. Bachelor of Science in Education Degree
3. Master of Science in Education Degree

Basic Teacher Certification

This curriculum prepares students to teach Vocational Trade Shop, Related Trade Subjects, Technical Subjects and Related Technical Subjects. Graduates of the basic certification program are eligible to teach in day, evening, extension and apprenticeship programs in accordance with State regulations. Courses are offered in the evenings to facilitate attendance by those already employed.

Admission to the program is based on the following requirements:

1. High school diploma or equivalent
2. Required trade experience
3. Review by admissions committee
4. State University admission examination
5. Mental Maturity Test
6. Trade proficiency as indicated by practical and theory examinations

Teachers already certified may elect to extend their basic certificate to include other areas, such as related trade subjects, by completing additional course and experience requirements.

Bachelor of Science in Education

This curriculum provides an opportunity for vocational technical teachers to continue their studies and earn a B.S. degree by completing a block of general-liberal subjects. In addition, permanent certification requirements can be met through this program. Completion of basic certification is a prerequisite to entrance into the B.S. program.

An experimental program, Work Study Internship, is now being offered to a limited number of people in a teaching career in the technical fields. This curriculum requires an Associate Degree for admission and leads to the Bachelor of Science in Education Degree.

Master of Science in Education

Candidates interested in qualifying as a master teacher, or for a certificate

as principal, supervisor or administrator in vocational technical education should consider this program. Consult the Graduate Catalog for details.

Other Opportunities

The Vocational Technical Division also offers professional courses to prepare teachers of:

1. Technical subjects
2. Related trade subjects
3. Vocational cooperative programs
4. Practical nursing
5. Dental Hygiene

Interested applicants may secure additional information by communicating with the Director of the Vocational Technical Division.

VOCATIONAL TECHNICAL EDUCATION CURRICULUM

*Semester
Hours*

Total General-Liberal Requirements 60
(See Page 68)

Major Field

V.T. 100 Applied Skill and Technical Information 30

Professional Requirements

V.T. 201	Occupational/Content Analysis	3
V.T. 202	Course Organization	3
V.T. 204	Methods of Teaching Voc. Tech. Subjects	3
V.T. 212	Teaching Clinic	3
V.T. 213	Practice Teaching and Observation	3
V.T. 215	Professional Development Seminar	3
		<hr/> 18

Cognate Electives

V.T. 200	Introduction to Voc. Tech. Education	3
V.T. 206	Shop/Laboratory Design and Management	3
V.T. 207	Use of Instructional Media	3
V.T. 211	Evaluation of Instruction	3
	Total Hours	<hr/> 12

Physical Education	3
Total Hours	<hr/> 123*

*Three credits of Educational Psychology need to be completed for those requiring Vocational Technical Certification.



FACULTY OF THE ARTS

The Faculty of the Arts includes the departments of Art Education, Design, Fine Arts, Music, Speech and Theatre Arts.

Degree programs offered by the Faculty of the Arts include: a Bachelor of Arts, a Bachelor of Fine Arts, Bachelor of Arts in Art History, a Bachelor of Science in Design, a Bachelor of Science in Education and a Master of Science in Education.

The Bachelor of Arts is a liberal arts program. It encompasses the basic academic disciplines, whose combined aim is to teach a student how to live a fuller and more meaningful life. The program seeks to accomplish its aim by putting the student in touch with the most enduring products of civilization — those achievements which reflect man's intellectual, moral, and artistic capacities. Majors offered under this degree include those in Art, the Arts, Music, Speech and Theatre Arts.

The Bachelor of Fine Arts is a comprehensive program for the preparation of the performing artist, providing a strong sequence of professional art studies and a program of liberal arts studies.

The Bachelor of Science degree in Design provides a broad general education for the designer, in addition to the intensive studio experience expected of a professional art school.

The Bachelor of Science in Education degree qualifies a person to teach art in the elementary, junior, and senior high schools of New York State. He may hold a position as teacher, supervisor, or consultant. A graduate curriculum leads to the degree of Master of Science in Education. The strong studio program, nationally recognized research program of the Teaching-Learning Center, extensive community resources, and cooperative activities with the public schools make this one of the leading art education programs in the country.

The College has some of the finest art resources in the nation. A building with excellent facilities includes twenty-five studios covering all major art and design areas, a theater, two art galleries, seminar and audio-visual rooms. The Charles Burchfield Center, which is devoted to the exhibition of major works and memorabilia of Western New York's world famous watercolorist and aims to become a regional center for study and research in American art, is a valuable asset to the College arts programs.

Adjacent to the campus is the internationally known Albright-Knox Art Gallery whose exhibits, services, and cooperative activities add greatly to the College's art resources. The City of Buffalo offers such artistic centers as Kleinhans Music Hall, the home of the Buffalo Philharmonic; and the

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BUFFALO, NEW YORK

Studio Arena Theater, Buffalo's professional theater. The experimental theatre, DOMUS, is within walking distance of the campus.

The faculty has been carefully selected for competencies covering all curricular and professional areas. All are fulltime staff members and have excellent records of achievement as creative and performing artists, critics, teachers, and researchers.

Each semester a number of arts students take advantage of the program in Siena, Italy, in conjunction with the University of Siena and the Instituto Statale d'Arte. For further information regarding this and other overseas experiences, inquire of the Director of International Education.

Bachelor of Arts Degree

The Bachelor of Arts degree may be earned with a major in art, music, speech, theatre, and the arts. The entrance requirement to the program is a high school diploma or equivalent.

CURRICULUM

	Semester Hours
General-liberal requirements	60
Major Program	24-42
Electives	18-36
Physical Education	3
Competence in a Foreign Language	
<i>Total Hours</i>	123

(See total general-liberal requirements for all curricula on page 68.)

Major Programs

1. <i>Art</i> —39 hours	
Required Courses	18
Fine Arts 101 Drawing I	
Fine Arts 102 Drawing II	
Design 105 Introductory Design	
Design 106 Exploratory Design	
Fine Arts 250 Art History I	
Fine Arts 251 Art History II	
Electives in Fine Arts and/or Design	21
	39
2. <i>Music</i> —42 hours	
Required Courses	27
Music 301 Introduction to Music Literature	
Music 303 Music History, Classic and Romantic	
Music 304 Music History, Twentieth Century	
Music 311 Theory I	
Music 312 Theory II	

Semester
Hours

Music 315 Theory III	
Music 316 Theory IV	
Music 112 Applied Music (6 hrs.)	
Elective*	15
	42
3. <i>Speech</i> —30 hours	
Required Courses	24
Sp. and T.A. 105 Introduction to Speech Arts	
Sp. and T.A. 106 Introduction to Theatre Arts	
Sp. and T.A. 202 Public Speaking	
Sp. and T.A. 320 Oral Interpretation	
Sp. and T.A. 209 Public Discussion	
Sp. and T.A. 309 Argumentation and Debate	
Sp. and T.A. 322 Rhetorical Theory	
Sp. and T.A. 496 Seminar in Speech and Theatre Arts	
Electives in Theatre Arts	3
Electives in Speech Arts	3
	30
4. <i>Theatre</i> —30 hours	
Required Courses	24
Sp. and T.A. 105 Introduction to Speech Arts	
Sp. and T.A. 106 Introduction to Theatre Arts	
Sp. and T.A. 208 Technical Theatre	
Sp. and T.A. 317 or 318 History of the Theatre	
Sp. and T.A. 320 Oral Interpretation	
Sp. and T.A. 326 Acting: Theory and Practice	
Sp. and T.A. 450 Directing	
Sp. and T.A. 496 Seminar in Speech and Theatre Arts	
Elective in Speech and Theatre Arts	3
Electives in Speech Arts	3
	30
5. <i>The Arts</i> —36 hours	
At least one course from each area of Design, Fine Arts, Dance, Music, Speech, and Theatre, and a minimum of 6 hours in each of three of the areas.	
6. <i>Art History</i> —30 hours	
Required Courses	15
Fine Arts 250 Art History I	
Fine Arts 251 Art History II	

*Electives to be selected according to major emphasis chosen by student. Emphases include American Music, Applied Music, Classroom Music, Music Literature and History and Theory-Composition. Consult with Department of Music for further details.

Fine Arts 454	Greek Art	
Fine Arts 458	Early Renaissance Art	
Fine Arts 457	Romanesque and Gothic Art	
Electives in Art History		15
		30

Bachelor of Fine Arts Degree

Admission

Admission to the B.F.A. program is based on an interview and portfolio examination by a committee of 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.

Majors

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. The student must then apply for commitment to a major after three semesters in the program or after taking two courses in the major field at this college. Exceptions to this time and course requirement might be made for transfers where warranted.

The process of applying for a major is the most critical evaluation in the program and if an uncommitted B.F.A. student fails to be accepted in a major, he or she will be dropped from the program with the option to transfer to other Art programs.

CURRICULUM

The degree of Bachelor of Fine Arts with majors in Painting, Photography, Printmaking and Sculpture.	Semester Hours
Total General-Liberal Requirements	36
(Nine Semester Hours each from the Arts, the Humanities, the Social Sciences and the Sciences).	
Art History Requirements	15
Fine Arts 250	Art History I
Fine Arts 251	Art History II
Fine Arts 463	Twentieth Century Art
Two Art History Electives	

Semester Hours

Studio Requirements	Semester Hours
First Year Basic	9
Fine Arts 101	Drawing I
Fine Arts 102	Drawing II
Fine Arts 103	Modeling
Introductory	12
Fine Arts 210	Introductory Painting
Fine Arts 220	Introductory Photography
Fine Arts 230	Introductory Printmaking
Fine Arts 240	Introductory Sculpture
Major Field	24
(Includes Intermediate, Advanced and Senior Studio Hours in the Major Field plus Fine Arts 470—Senior Seminar in Fine Arts).	
Art Electives	12
Free Electives	12
Physical Education	3
Total Hours	123

Bachelor of Science Degree in Design

The Bachelor of Science degree in Design is offered by the Design Department. Students may choose to major in Ceramics, Environmental, Graphic, Industrial, Interior, Jewelry, Metalsmithing, Textile, Wood, or General Design. A review of a portfolio is required of all entering freshmen.

During the second semester of the sophomore year, or at the time of admission in the case of transfer students from two-year colleges, candidates for the B.S. in Design will be required to name a field of concentration and to meet for a portfolio evaluation with a faculty-student committee.

At the time he selects his area of concentration, the student is assigned a major field advisor, a design faculty member with special competence in that area. The student and his advisor will plan the requirements for his concentration based upon the needs evident in the student's professional objectives and consistent with the guidelines approved by the Design Department faculty.

CURRICULUM	Semester Hours
Total General-Liberal Requirements (See Page 68)	60
Required Courses	6
Design 105	Introductory Design
Design 106	Exploratory Design

Semester Hours

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AT ALBANY, NEW YORK

Choice of two:	<i>Semester Hours</i>	
Design 107 Mechanical and Perspective Drawing	6	
Design 108 Form and Function		
Design 109 Color, Light, and Motion		
Design 110 Pottery I		
Design 205 Design in Metal		
Design 206 Design in Fibers		
Design 207 Design in Wood		
Design 209 Visual Communication		
Design 210 Environmental Design		
Design 220 Jewelry Making		
Design 230 Advanced Design		
Major Concentration (with advisement) (7-9 Design courses)	21-27	
Free Electives (7-9 Courses)	21-27	
Physical Education	3	
Total Hours	123	

Bachelor of Science Degree in Art Education

Admission

General requirements for admission are explained in the catalog section on Admissions. No particular pattern of high school art courses is required for admission to the art program, but candidates are expected to have special interest and ability in art as revealed by superior grades in high school art courses, a portfolio of art work, and participation in other creative activities. The portfolio of work is to contain examples of work done under one's own initiative as well as work done in school for class and extra-curricular projects. Photographs may be used to show objects too large to be included, or of a temporary nature like stage settings. This portfolio is to be presented at the personal interview, and after admission, to instructors for program planning.

Advanced Standing and Certification

Applicants for admission to advanced standing will be informed of the course requirements for the degree after their transcripts and examples of art work are evaluated.

Retention of Student Work

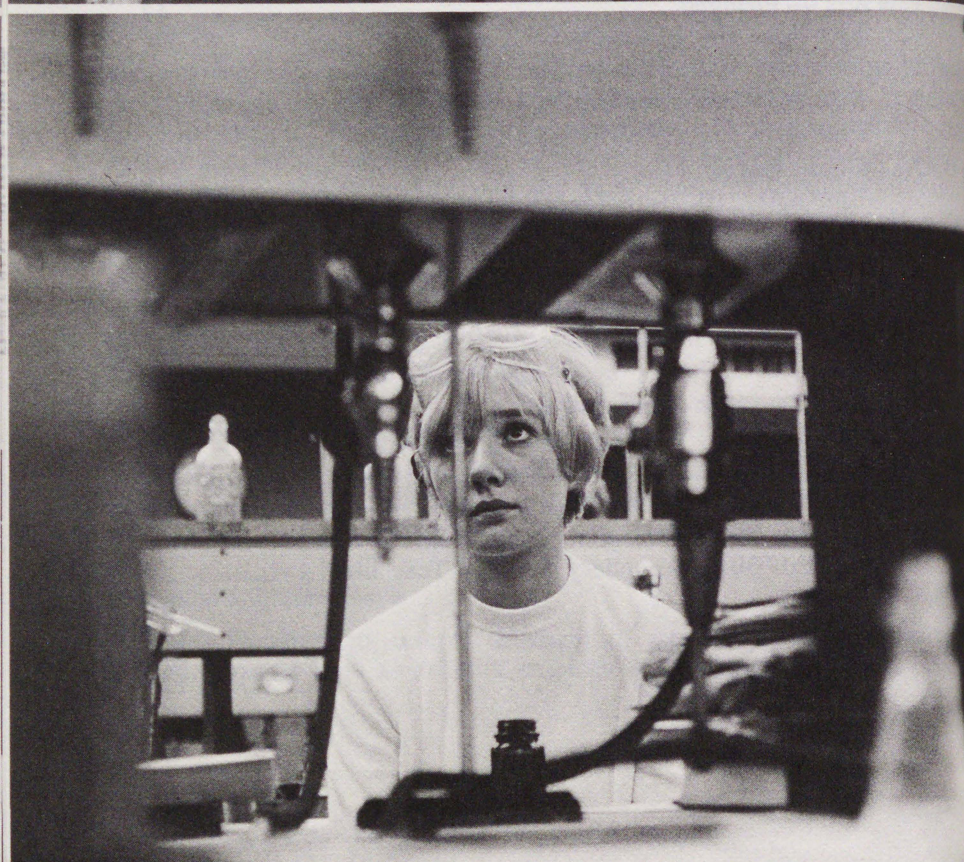
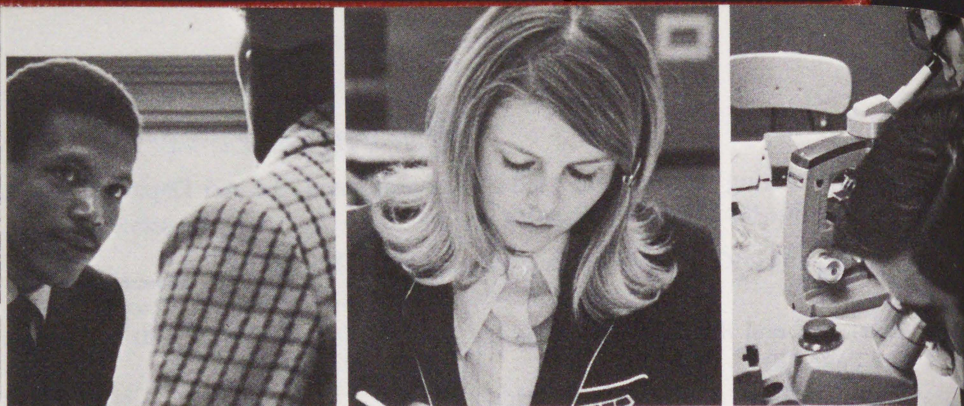
The Art Departments reserve the right to retain student art work for official purposes such as exhibits, catalogs, or teaching aids, for a period

*Semester
Hours*
6

of one year. If during that time the student has graduated, the Art Departments will pay for the return of the work to him.

CURRICULUM

Total General-Liberal Requirements	<i>Semester Hours</i>	
(See Page 68)	60	
Studio Requirements		
Design — Required	6	
Design 105 Introductory Design		
Design 106 Exploratory Design		
Design — Choice of two	6	
Design 107 Mechanical and Perspective Drawing		
Design 110 Pottery I		
Design 205 Design in Metal		
Design 206 Design in Fibers		
Design 207 Design in Wood		
Design 209 Visual Communications		
Design 210 Environmental Design		
Design 220 Jewelry Making		
Design — Two Design Electives	6	
Fine Arts — Required	12	
Fine Arts 101 Drawing I		
Fine Arts 102 Drawing II		
Fine Arts 250 Art History I		
Fine Arts 251 Art History II		
Fine Arts — Choice of two	6	
Fine Arts 210 Introductory Painting		
Fine Arts 220 Introductory Photography		
Fine Arts 230 Introductory Printmaking		
Fine Arts 240 Introductory Sculpture		
Elective in Fine Arts or Design	3	
	39	
Professional Art Education Requirements		
Art Ed. 200 Fundamentals of Art Inquiry	3	
Art Ed. 301 Processes/Elementary Level	3	
Art Ed. 302 Processes/Secondary Level	3	
Art Ed. 303 Elementary Student Teaching	6	
Art Ed. 304 Secondary Student Teaching	6	
	21	
Physical Education	3	
Total Hours	123	



FACULTY OF ARTS AND SCIENCES

The Arts and Sciences faculty is organized into the departments of Anthropology, Biology, Chemistry, Economics, English, Foreign Language, General Science, Geography, Geosciences, Health, Physical Education and Recreation, History, Mathematics, Philosophy, Physics, Political Science, Psychology, and Sociology and the Criminal Justice and Afro-American Studies Programs. A Bachelor of Arts degree is offered with majors in many of these departments and is described in detail under the Liberal Arts Curriculum. In addition, there is a special program leading to the Bachelor of Science degree in Criminal Justice and a Bachelor of Science program in Physics.

The Afro-American Studies program offers a major in Afro-American Studies, but also requires majors to earn a second major in one of the traditional disciplines offered by the departments of the College. Thus majors in Afro-American Studies earn either a B.A. or B.S. degree, depending on the choice of their second major.

All curricula of the College require a basic content of liberal arts. Specific course requirements are shown under the specialized division of the College, i.e. Art Education, Home Economics, Industrial Arts, Vocational Technical Education, Exceptional Children Education.

The Departments of English, Foreign Language, Mathematics, and Science provide content courses for programs of study under the Bachelor of Science in Education degree for the certification of secondary school teachers.

Elementary Education students will elect courses to complete their area of liberal arts concentration from offerings by the English, Foreign Language, Geography, Latin American Studies, Mathematics, Philosophy, Science, Social Science and Urban Studies departments. Such programs are listed under the Elementary Education Division.

In addition, all of the Arts and Sciences departments offer a wide variety of elective courses which may be selected by students in all divisions of the College.

The departments of Biology, Chemistry, and Physics are associated with the world-renowned Roswell Park Memorial Institute in several educational programs, including the Research Participation Programs in Science for college students and faculty.

The Department of Chemistry has American Chemical Society Accreditation and is listed nationally as one of only 227 out of a possible 2,500 departments of chemistry in the United States to receive this honor.

Liberal Arts Curriculum

Traditionally the most liberalizing period of a student's academic life comes

during the undergraduate college years. It is during this time that the student becomes increasingly aware of his potential intellectual development, and is able to move at an accelerating pace toward achieving that potential. The liberal arts encompass the basic academic disciplines whose combined aim is to teach a student how to live a fuller and more meaningful life.

The Liberal Arts program seeks to accomplish its aims by putting the student in touch with the most enduring products of civilization—those achievements which reflect man's intellectual and moral capabilities. To experience the human legacy enables a student to begin to approach wisdom and to have a meaningful relationship with his physical, social, and moral environment. He becomes ever more able to achieve a perception of knowledge as connected and capable of being grasped as an intellectual entity. The ideal liberal arts graduate is an individual who is equipped to meet the exigencies of life with intelligence, integrity, and creativity.

Secondary Education Curriculum

Graduates of the eight curricula receive the Bachelor of Science in Education Degree and provisional certification to teach in their areas of specialization in grades 7-12. Permanent certification is earned by completing thirty semester hours of graduate work within a five-year period from the date of the original certification.

The curriculum for Secondary Education provides for all aspects of the professional program as well as specialization in English, Foreign Languages (French or Spanish), Mathematics, and Science (Biology, Chemistry, Earth Science, or Physics).

THE DEGREE OF BACHELOR OF ARTS:

I. Entrance requirement

- A. High School diploma or equivalent

II. Requirements for graduation

- A. Total hours 123
 1. Breadth (General-Liberal Requirements—see page 68) 60
 2. Major Program 24-42
 3. Electives 18-36
 4. Physical Education 3
 5. Foreign Language Requirements (see page 105)

III. Major Programs

- A. Types of Major
 1. *Departmental*—Anthropology, Biology, Chemistry, Economics, English, Foreign Language, Geography, Geosciences, History, Mathematics, Philosophy, Physics, Political Science, Psychology, Sociology
 2. *Interdisciplinary*—American Studies, Humanities, Latin American Studies, Social Sciences, Urban Studies

B. Requirements for Departmental Majors

Semester
Hours

1. Anthropology—30 hours

a. Required Courses:

Anth. 100	Human Origins	3
Anth. 101	Introduction to Anthropology	3
Anth. 202	Man's Early Past: Archeology	3
Anth. 203	Human Evolution and Variation including Race: Physical Anthropology	3
Anth. 405	History of Anthropological Theory	3
Anth. 412	Seminar in Anthropology	3
		—

18

b. Two courses must be taken from the following group of ethnographic courses:

Anth. 300	Indians of Western North America	3
Anth. 301	Indians of Eastern North America	3
Anth. 302	Peoples of Meso-America	3
Anth. 303	Indians of South America	3
Anth. 304	Archeology of Latin America	3
Anth. 305	Peoples of Traditional Africa	3
Anth. 306	Peoples of the Caribbean	3
Anth. 308	Inter-Cultural Relations	3
Anth. 309	Peoples of China	3
Anth. 310	Cultures of India	3
Anth. 311	Peoples of Eastern Europe	3
Anth. 312	Archeology of the North American Indian	3
Anth. 415	Seminar in Archeology	3
		—

6

c. Two courses must be taken from the following group concerned with aspects of culture:

Anth. 307	Urban Anthropology	3
Anth. 402	Cultural Anthropology	3
Anth. 403	Language and Culture	3
Anth. 404	Peasant Peoples in the Modern World	3
Anth. 406	Religion, Myth, and Magic	3
Anth. 408	Culture and Personality	3
Anth. 409	Social Structure	3
Anth. 410	Anthropology and Education	3
Anth. 411	African Systems of Kinship and Marriage	3
Anth. 414	Social Change in African Societies	3
		—

6

30

2. Biology—36 hours

a. Required courses:

Biol. 115	General Botany	4
Biol. 116	General Zoology	4
Biol. 203	Genetics	4
	(Prereq. Biol. 115-116 or equivalent)	
Biol. 301	General Physiology	4
	(Prereq. Biol. 115-116 or equivalent)	
Biol. 315	Ecology	4
	(Prereq. Biol. 115-116 or equivalent)	
		—

20

b. Elective courses in biology by advisement	16
3. Chemistry—40 hours	
Required courses:	
Chem. 111-112, Fundamentals of Chemistry I-II	8
Chem. 201-202, Organic Chemistry (Prereq. Chem. 112)	8
Chem. 301, Analytical Chemistry (Prereq. Chem. 112)	4
Chem. 305-306, Physical Chemistry (Prereq. Chem. 202, Chem. 301, Phys. 112, Math. 162)	8
Chem. 310, Literature of Chemistry (Prereq. Chem. 112)	1
Chem. 400, Inorganic Chemistry (Prereq. Chem. 305)	3
Chem. 401, Biochemistry I (Prereq. Chem. 305)	4
Chem. 403, Instrumental Analysis (Prereq. Chem. 301, Chem. 305)	4
In addition to the above courses, a student must successfully complete at least one 3 semester hour credit Chem. 495—Project to meet American Chemical Society Minimum Accreditation and Certification Requirements	
4. Economics—30 hours	
a. Courses Required of all Majors	
Econ. 201-202 Principles of Economics	6
Econ. 205 Statistics for Economics	3
Econ. 307 Intermediate Microeconomics	3
Econ. 308 Intermediate Macroeconomics	3
Econ. 402 Seminar in Current Economics Problem	3
b. Electives in Economics	
5. English—39 hours	
a. Courses in general literature:	
Two periods or survey courses in English	6
Literature covering eras prior to 1900	
Two courses in American Literature (one course covering era prior to 1900)	6
Two courses in World Literature, to be chosen from World Literature I, II, III	6
b. Course in Advanced Writing	
c. Course in Shakespeare, Chaucer, or Milton	
d. Course in Literary Criticism	
e. Course in Linguistics	
f. Course in Contemporary Literature	
g. English electives (one must be a senior seminar of the student's choice)	

6. Foreign Language—36 hours of which a maximum of 6 hours may be in closely related fields or in languages.	
a. French	
(Normally students should have studied their major language for 2 years in high school.)	
Fr. 301-302 Conversation and Composition	6
Fr. 307-308 History of Literature	6
Fr. 306 Civilization course	3
Language electives by advisement	21
	36
(Students who enter with a strong high school background in a language are urged to choose a second language for their free electives.)	
b. German	
(Normally students should have studied their major language for 2 years in high school.)	
Ger. 201-202 Intermediate German	6
Ger. 301-302 Composition and Conversation	6
Ger. 450-451 Directed Readings	6
Language electives by advisement	18
	36
(Students who enter with a strong high school background in a language are urged to choose a second language for their free electives.)	
c. Italian	
(Normally students should have studied their major language for 2 years in high school.)	
It. 201-202	6
It. 301-302	6
It. 306, 307, 308, 310, 311 (2 of the above)	6
Language electives by advisement	18
	36
(Students who enter with a strong high school background in a language are urged to choose a second language for their free electives.)	
d. Spanish	
(Normally students should have studied their major language for 2 years in high school.)	
Span. 301-302 Conversation and Composition	6
Span. 307-308 History of Literature	6
Span. 306 Civilization course	3
Language electives by advisement	21
	36
(Students who enter with a strong high school background in a language are urged to choose a second language for their free electives.)	
7. Geography—33 hours	
a. Required Geography courses:	
Geog. 101 Elements of Physical Geog.	3
Geog. 102 Elements of Cultural Geog.	3
Geog. 104 World Economic Geog.	3

- Geog. 413 Cartography
 Geog. 309 Urban Geography
 Geog. 401 Development of Geographic Thought and Methodology
 200 level regional course except Geog. 206 (New York State)
 Geography Electives with faculty advisement
- b. Required Science course:
 Geos. 201 Geomorphology
8. *Geosciences*—39-41 hours
- a. Required courses:
 Geos. 101 Physical Geology
 Geos. 102 Historical Geology
 or
 Geos. 121 The Dynamic Earth: Sky, Sea and Air
 Geos. 122 Principles of Earth Science: Geology
 and
 Geos. 302 Invertebrate Paleontology
 Geos. 303 Mineralogy
 1 year of Physics
 b. Plus 21 additional hours of Geosciences undergraduate courses by advisement; Geog. 303, World Climatology, may be used for major credit
9. *History*—33 hours
- a. One basic Social Studies course
 b. Two basic American History courses, one being 20th Century United States
 c. Two basic European History courses
 d. Two courses of non-United States or non-European Hist.
 e. Two upper Division History courses in United States, European or other History
 f. One course in area of other History (non-United States or non-European) or Social Science Elective
 g. Seminar in History
10. *Soviet and East Central European Studies Emphasis*
- a. History major—33 semester hours
 United States history
 History other than United States or Europe
 Basic Social Science—Soviet or East Central European economics
 Basic courses in European history —
 History 318 Russia to 1917
 History 402 The Soviet Union
 Upper-division history courses —
 History 412 East Central Europe
 History 414 The Balkans
 Additional Social Science, such as
 Geography 404 Geog. of the Soviet Union

- History seminar —
 History 470 Seminar in European History 3
- b. Electives to satisfy requirements in Soviet or East Central European Studies, taken from breadth requirements or free electives 15
- c. Students must satisfy the language requirement through 12 hours of Russian or another approved East European language.
11. *Mathematics*—36 hours
- Completion of Math. 161, 162, 263, 301 and 417. Eighteen hours of mathematics selected from the following four groups with at least one course from each of the first three groups.
- GROUP 1
- Math. 215 Differential Equations 3
 Math. 381 Probability 3
 Math. 382 Statistics 3
 Math. 411 Introduction to Complex Variables 3
 Math. 413 Applied Analysis 3
 Math. 415 Mathematical Methods in Applied Math. 3
 Math. 418 Introduction to Real Analysis 3
 Math. 461 Numerical Analysis 3
- GROUP 2
- Math. 231 Set Theory 3
 Math. 302 Introduction to Modern Algebra II 3
 Math. 303 Linear Algebra 3
 Math. 351 Elementary Theory of Numbers 3
 Math. 431 Mathematical Logic 3
 Math. 432 Mathematical Logic 3
 Math. 435 Theory of Recursive Functions & Effective Computability 3
- GROUP 3
- Math. 222 Introduction to Modern Geometry 3
 Math. 323 Modern Geometry 3
 Math. 471 Topology 3
- GROUP 4
- Math. 490 Seminar 3
 Math. 495 Project 3
 Math. 499 Independent Study 3
12. *Philosophy*—27 hours
- A student majoring in philosophy will be required to take courses in the field totaling at least 27 hours. The department requires its majors to take the following courses:
- Phil. 202 Introduction to Logic 3
 Phil. 205 History of Ancient and Medieval Philosophy 3
 Phil. 206 History of Modern Philosophy 3
 9
- Plus 9 hours from the following:
- Phil. 201 Problems of Philosophy 3
 Phil. 203 Aesthetics 3
 Phil. 204 Philosophy of Religion 3

- Phil. 301 American Philosophy
 Phil. 303 Philosophy of History
 Phil. 304 Social and Political Philosophy
 Phil. 305 Contemporary Philosophy I
 Phil. 306 Contemporary Philosophy II
 Phil. 308 Existentialism
 Phil. 311 19th Century European Philosophy
 Phil. 402 Philosophy of Psychology
 Phil. 403 17th-18th Century Rationalists
 Phil. 404 British Empiricism
 Phil. 405 Plato and Aristotle
 Phil. 406 Philosophy of Mathematics
 Phil. 407 Theory of Value
 Phil. 408 Philosophy of Logic
 Phil. 410 Marxist Philosophy
 Phil. 495 Project
 Phil. 499 Independent Study
13. *Physics*—35 hours
 a. Required courses:
 Phy. 111-112, General Physics (or equivalent)
 Phy. 205, Modern Atomic Physics
 (Prereq. Phy. 111-112, Calculus)
 Phy. 414, Introduction to Theoretical Physics I
 (Prereq. Phy. 111-112, Math. 162)
 Phy. 416, Classical Mechanics I
 (Prereq. Phy. 111-112, Math. 263, Phy. 414)
 Phy. 410, Advanced Physics Laboratory
 (Prereq. Phy. 111-112)
 Phy. 418, Electricity and Magnetism I
 (Prereq. Phy. 111-112, Phy. 414, Math. 263)
 Phy. 406, Introduction to Quantum Physics
 (Prereq. Phy. 205, Phy. 414)
- b. Elective Courses in Physics selected under faculty advisement
14. *Political Science*—33 hours
 a. Required Courses:
 P.S. 101 Introduction to Government and Politics, or
 P.S. 103 American Political Institutions and Problems
 Any 400 level course in Political Science
 b. Distributional Requirements:
 One course in American Government and Politics
 One course in Comparative Government
 One course in International Relations
 One course in Political Philosophy and Theory
 c. Electives in Political Science
15. *Psychology*—33 hours
 a. Required courses:
 Psych. 101 or 110 Introduction to Psychology
 Psych. 206 Statistics in Psychological Research
 Psych. 351-352 Experimental Psychology

- One Advanced Seminar in Psychology
- b. Group B courses:
 Four courses from the following, including two 300 or 400 level courses.
- | | | |
|------------|---|----------|
| Psych. 204 | The Psychology of Learning | 3 |
| Psych. 208 | Basic Concepts of Perception | 3 |
| Psych. 211 | Personality: Theory and Research | 3 |
| Psych. 221 | Comparative Psychology | 3 |
| Psych. 225 | Social Behavior | 3 |
| Psych. 255 | Developmental Psychology | 3 |
| Psych. 265 | Industrial Psychology | 3 |
| Psych. 270 | Environmental Psychology | 3 |
| Psych. 304 | Theories of Learning | 3 |
| Psych. 311 | Abnormal Psychology | 3 |
| Psych. 327 | Cognitive Processes in Maturity and Old Age | 3 |
| Psych. 332 | Motivation: Determinants and Functions | 3 |
| Psych. 345 | History and Systems of Psychology | 3 |
| Psych. 381 | Psychological Tests and Measurements | 3 |
| Psych. 421 | Physiological Psychology | 3 |
| Psych. 451 | Advanced Experimental Psychology | 3 |
| | | <hr/> 12 |
- c. Elective courses in Psychology selected under faculty advisement
16. *Psychology—Departmental Honors Program*—35 hours
 Note: Honors students must earn a grade of B or better in all psychology courses.
- a. Required courses:
- | | | |
|--|--------------------------------------|----------|
| Psych. 101 or 110 | Introduction to Psychology | 3 |
| Psych. 203 | General Psychology Seminar | 3 |
| Psych. 205 | Independent Reading | 1 |
| Psych. 206 | Statistics in Psychological Research | 3 |
| Psych. 207 | Independent Research | 1 |
| Psych. 351 and 352 | Experimental Psychology | 6 |
| One 300 or 400 level course from group B above | | 3 |
| One Advanced Psychology Seminar | | 3 |
| Psych. 451 & 498 | (Honors research thesis) | 6 |
| | | <hr/> 29 |
- b. Elective courses in Psychology selected under advisement of Director of Honors Program in Psychology
17. *Sociology*—33 hours
 a. Required courses:
- | | | |
|------------|-------------------------------------|---|
| Soc. 101 | Introduction to Sociology | 3 |
| Soc. 305 | Methods in Social Research | 3 |
| Soc. 306* | Social Statistics | 3 |
| Soc. 403** | Contemporary Sociology Theory or | |
| Soc. 405** | Foundations of Sociological Thought | 3 |

*Mathematics 382 may be substituted with the approval of the department chairman.
 **Both courses may be taken toward meeting the 33 hour requirement of the major but only one must be taken.

	Semester Hours		Semester Hours
Soc. 409 Seminar in Sociology		Geography (203, 208)	
Total required courses		History 209, 314	
b. Electives within major program		Industrial Arts (<i>see</i> LAS 301)	
Any courses designated Sociology, as well as Anth. 402 —		Latin American Studies (301, 302, 303)	
Cultural Anthropology, may be elected.		Literature (306, 307, 308, 309, 411, 412)	
		Music 305, 403	
			33
C. Requirements for Interdisciplinary Majors		4. Social Sciences—39 hours	
1. American Studies—36 hours		a. Three introductory courses from Anthropology, Economics,	
a. United States History and American Literature.		Geography, Political Science, Psychology or Sociology	9
1. United States History: History 201, Social and Intellectual		b. Three additional courses in one of the above disciplines	
History of the United States to 1900, plus two elective courses		(in area of concentration)	9
in this area, at least one of which must be at the 300-400		c. Three upper division courses from the above disciplines	
course level.		outside area of concentration	9
2. American Literature: English 109, Survey of American Litera-		d. History	
ture, plus two selected from English 404 American Novel before		One course in United States history	3
1900, English 414 Realism in American Literature and English		One course in European history	3
212 Romantic Movement in American Literature.		One course each in non-United States and non-European	
b. Behavioral Sciences and Geography: Free choice of courses in this		history	6
area, except that they must deal with the American experience.			39
c. Arts: Free choice of courses in this area, basically the Fine Arts		5. Urban Studies—39 hours	
and Music, again pertaining to American Culture.		a. Sociology 504	3
d. Seminar in American Culture: Regarded as the culminating ex-		b. One course selected from the following:	3
perience, this comes during the senior year. This course is not		Economics 205	
currently offered. Until the student enrollment justifies it, the		Psychology 206	
members of the faculty interested in, and chiefly responsible for		Sociology 305	
the development of the American Studies program have agreed to		c. One course selected from the following:	3
perform this task of integration through individual tutorial study.		Economics 412	
Of the four areas mentioned above, American History, American Literature, Be-		History 213	
havioral Sciences and Geography, and the Arts, the student must select two in which		Political Science 200	
he will take a nine hour sequence and two from which he will take a six hour sequence		d. One course selected from the following:	3
in each. Example: History 9, Literature 9, Behavioral Science-Geography 6, and Art 9.		Human Development, Family and Community Relations 319	
6. The only specific courses required are History 201 and English 109, plus the two		Sociology 204	
semester Senior seminar.		Sociology 301	
2. Humanities—36 hours		e. One course selected from the following:	3
a. Courses in Philosophy		Biology 315	
b. Courses in English		Design 210	
c. Courses in Foreign Languages		Geography 309	
d. Electives in Humanities		f. One course selected from the following:	3
3. Latin American Studies—33 hours		Environmental and Consumer Studies 438	
Hist. 209 History of Latin America: Colonial Era		Human Development, Family and Community Relations 419	
Hist. 314 History of Latin America: National Era		Political Science 305	
Geog. 203 or 208		Political Science 406	
Anth. 304 Archeology of Latin America		Sociology 406	
Art 452 or Music 305		g. Field Experience	6-12
Spanish (310, 311) Survey of Latin American Literature		h. Urban Studies Electives	9-15
LAS 410 20th Century Latin American Problems			39
Plus 15 hours of electives chosen from at least three of the following		D. Competence in a Foreign Language	
disciplines in Latin American Studies:		Students with four years of high school foreign language: No requirement	
Anthropology (302, 303)		to take foreign language at State University College at Buffalo.	
Art (451, 457)		Students with three years of high school foreign language: Must take either	
Economics (407)		(a) one semester in foreign language at the 202/212 level of proficiency	
		OR (b) one semester, under advisement, of a foreign literature in transla-	

tion or course work in linguistics or other course work approved by the foreign language department as fulfilling its linguistic or cultural objectives. *Students with two years of high school foreign language:* Must take either (a) *two* semesters of foreign language beginning at the 201 level of proficiency on the proficiency examination OR (b) *two* semesters, under advisement, of foreign literature in translation or course work in linguistics or other course work approved by the foreign language department as fulfilling its linguistic and/or cultural objectives.

Students with one year of high school foreign language: Must take either (a) *three* semesters of foreign language study beginning at the 102 level of proficiency or demonstrate a 202/212 level of proficiency on the proficiency examination OR (b) *three* semesters, under advisement, of foreign literature in translation or course work in linguistics or other course work approved by the foreign language department as fulfilling its linguistic and/or cultural objectives.

Students with no high school foreign language: Must take either (a) *four* semesters of foreign language study beginning at the 101 level of proficiency or demonstrate a 202/212 level of proficiency on the proficiency examination OR (b) *four* semesters, under advisement, of foreign literature in translation or course work in linguistics or other course work approved by the foreign language department as fulfilling its linguistic and/or cultural objectives.

In addition to the provisions in each of the three preceding paragraphs concerning students with fewer than four years of foreign study in high school, it is also provided that a student may credit toward fulfillment of the foreign language requirement one semester of participation in an approved program of study abroad of at least one semester's duration.

THE DEGREE OF BACHELOR OF SCIENCE

I. Entrance requirement

- A. High School diploma or equivalent

II. Requirements for graduation

	Semester Hours
A. Total hours	123
1. Breadth (General-Liberal Requirements—see page 68)	60
2. Major Program	24-42
3. Electives	18-36
4. Physical Education	3

III. Major Programs

A. Criminal Justice—

- Transfer credit (granted by completion of a Criminal Justice major as a two-year curriculum)* 18
- Required courses

Soc. 204 — Race Relations	3
Pol. Sc. 408 — Constitutional Law	3
Crim. Just. 401 — Seminar in Criminal Justice	3
Crim. Just. 402 — Advanced Administration in Criminal Justice	3
	12
- Elective chosen from the following:

Anth. 402	9
Hist. 101, 421	
Pol. Sc. 304, 305	
Psych. 211, 213, 225, 280, 311	
Soc. 201, 303, 304, 401, 408	
	39

Semester
Hours

B. Criminalistics — 39 hours

Required courses:

Chem. 201-202 Organic Chemistry	8
Chem. 301 Analytical Chemistry	4
Chem. 305-306 Physical Chemistry	8
Chem. 403 Instrumental Analysis	4
Crim. Just. 302 Community Issues in Criminal Justice	3
Pol. Sci. 408 Contemporary Issues in American Constitutional Law	3
Crim. Just. 401 Seminar in Criminal Justice	3
Crim. Just. 495 Project	3
Elective (By Advisement)	3
	39

C. Physics—40 hours

1. Required courses:

Phy. 111-112, General Physics	8
Phy. 205, Modern Atomic Physics (Prereq. Phy. 111-112, Calculus)	3
Phy. 414, Introduction to Theoretical Physics I (Prereq. Phy. 111-112, Math. 162)	3
Phy. 415, Introduction to Theoretical Physics II (Prereq. Phy. 111-112, Math. 162)	3
Phy. 416, Classical Mechanics I (Prereq. Phy. 111-112, Math. 263, Phy. 414)	3
Phy. 410, Advanced Physics Laboratory (Prereq. Phy. 111-112)	6
Phy. 417, Classical Mechanics II (Prereq. Phy. 416)	3
Phy. 418, Electricity and Magnetism I (Prereq. Phy. 111-112, Phy. 414, Math. 263)	3
Phy. 419, Electricity and Magnetism II (Prereq. Phy. 418)	3
Phy. 406, Introduction to Quantum Physics (Prereq. Phy. 205, Phy. 414)	3
	38

2. Elective Course in Physics selected under faculty advisement

2
40

THE B.A./B.S. DEGREE WITH MAJORS IN AFRO-AMERICAN STUDIES AND OTHER DISCIPLINES

Total General-Liberal Requirements 60

Afro-American Studies Major 33

A.A.S. 103 A Survey of Afro-American Studies: The Black Experience Before 1865	6
A.A.S. 104 A Survey of Afro-American Studies: The Black Experience From 1865 to the Present	6
Arts	6
Humanities	6
Social Sciences	6
Senior Seminar in Afro-American Studies	3

*Liberal Arts and all college electives taken in the two-year curriculum may be transferred in addition to major.

Subject Major	Semester Hours
Physical Education	24-42
	3

Note: Students working toward the Bachelor of Arts degree must fulfill the foreign language requirement (see page 105).

While the Afro-American Studies department has a core curriculum, required of all its majors, there are many courses offered by the traditional departments of the Arts and Sciences that majors in Afro-American Studies take toward fulfillment of their requirements for a major in Afro-American Studies.

THE DEGREE OF BACHELOR OF SCIENCE IN SECONDARY EDUCATION

I. Entrance requirement

- A. High School diploma or equivalent

II. Requirements for graduation

A. Total hours	Sem. Hours
1. Breadth (General-Liberal Requirements—see page 68)	124
2. Certification Field Requirements	60
3. Professional Requirements	26-39
4. Electives	24
5. Physical Education	0-10
	3

III. Major Programs

A. Biology	Sem. Hours	Clock Hours
1. Certification Field		
Biol. 115 General Botany	4	6
Biol. 116 General Zoology	4	6
Biol. 203 Genetics	4	6
Biol. 301 Physiology	4	6
Biol. 315 Ecology	4	6
Biol. Electives	10	12
	30	42
2. Professional Requirements		
Ed. 220 Adolescent Development for Secondary Teachers	3	4
Ed. 203 Educational Psychology	3	4
Sci. Ed. 308 Methods and Materials in Teaching Secondary School Science	3	4
Ed. 403 Historical and Philosophical Forces Influencing Secondary Education	3	3
Sci. Ed. 408 Practicum in Teaching Science in the Secondary School	12	30
	24	45
B. Chemistry		
1. Certification Field		
Chem. 111-112 Fundamentals of Chemistry I-II	8	12
Chem. 201-202 Organic Chemistry	8	12
Chem. 301 Analytical Chemistry	4	8
Chem. 305-306 Physical Chemistry	8	12
Chemistry Elective	3	3-7
	31	47-51

	Sem. Hours	Clock Hours
2. Professional Requirements		
Ed. 203 Educational Psychology	3	4
Ed. 220 Adolescent Development for Secondary Teachers	3	4
Sci. Ed. 308 Methods and Materials in Teaching Secondary School Science	3	4
Ed. 403 Historical and Philosophical Forces Influencing Secondary Education	3	3
Sci. Ed. 408 Practicum in Teaching Science in the Secondary School	12	30
	24	45

C. Earth Science

1. Certification Field

Geos. 121 The Dynamic Earth: Sky, Sea, and Air	3	4
Geos. 122 Principles of Earth Science: Geology	3	4
Geos. 132 Introduction to the Astronomy of the Solar System	3	4
Geos. 201 Geomorphology	3	4
Geos. 211 General Oceanography	3	4
Geos. 241 Meteorology	3	4
Geos. 302 Invertebrate Paleontology	3	4
Geos. 303 Mineralogy	3	4
Plus 3 additional Geos. courses;	9	12
Geog. 303 World Climatology may be used for major credit		
	33	44

2. Professional Requirements

Ed. 203 Educational Psychology	3	4
Ed. 220 Adolescent Development for Secondary Teachers	3	4
Sci. Ed. 308 Methods and Materials in Teaching Secondary School Science	3	4
Ed. 403 Historical and Philosophical Forces Influencing Secondary Education	3	3
Sci. Ed. 408 Practicum in Teaching Science in the Secondary School	12	30
	24	45

D. English

1. Certification Field

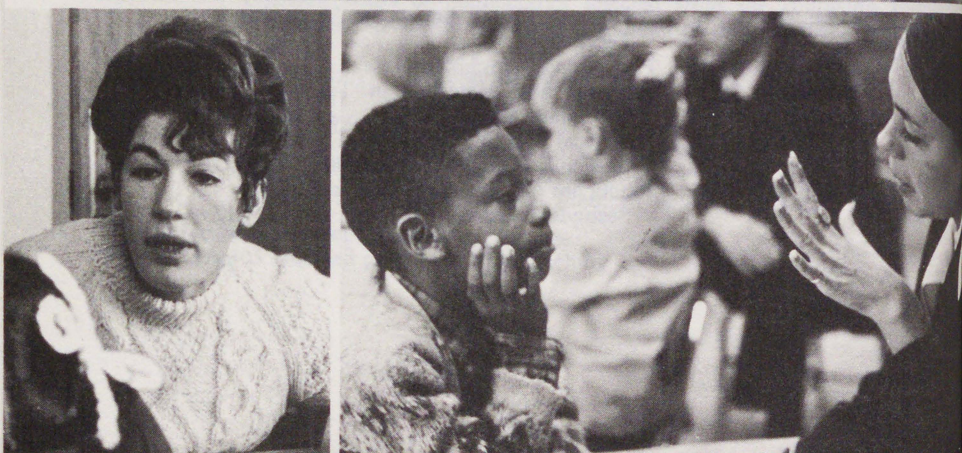
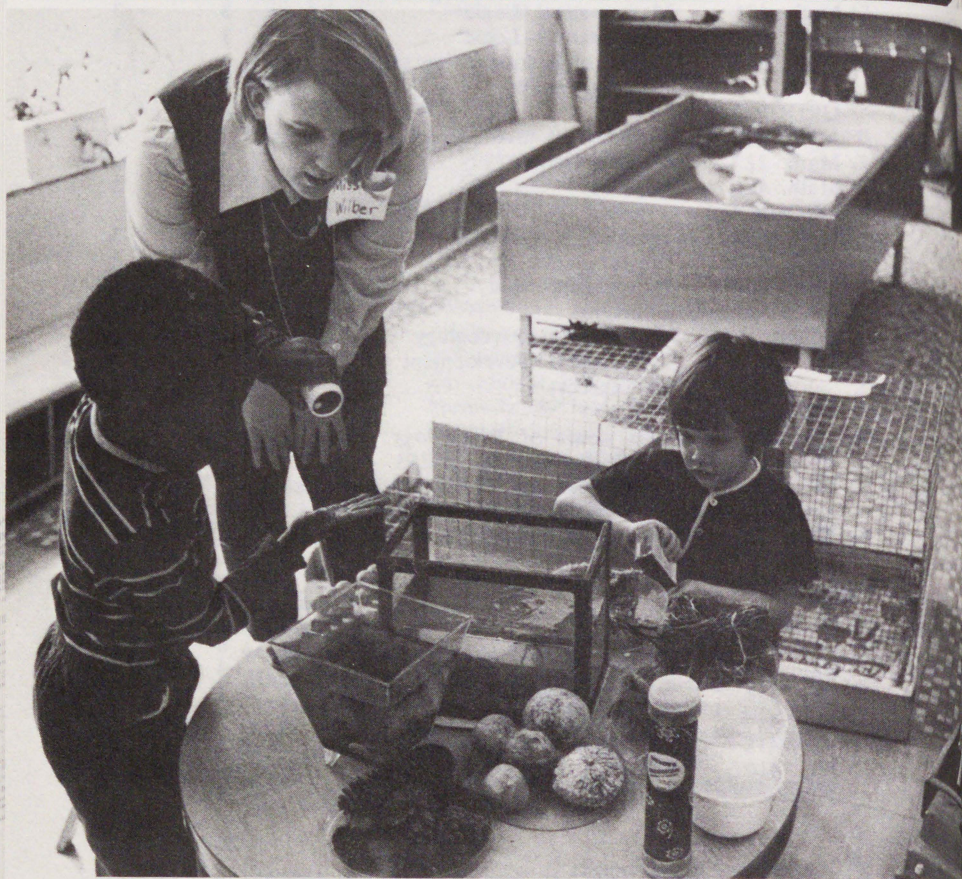
Eng. 107-108 Literature of England	6	6
Eng. 109-110 American Writers	6	6
Advanced Course in Writing	3	3
Eng. 213 Secondary School Literature	3	3
Eng. 312 Contemporary Literature	3	3
Eng. 315 (or 316) Shakespeare	3	3
Foundations of Language	3	3
World Literature Electives	6	6
English Electives	6	6
	39	39

		Sem. Hours	Clock Hours
2. Professional Requirements			
Ed. 203	Educational Psychology	3	4
Ed. 220	Adolescent Development for Secondary Teachers	3	4
Eng. Ed. 306	Methods and Materials in Teaching English	3	4
Ed. 403	Historical and Philosophical Forces Influencing Secondary Education	3	3
Eng. Ed. 406	Practicum	12	30
		24	45
E. French and Spanish			
1. Certification Field			
Fr./Span. 301-302	Composition and Conversation	6	6
Fr./Span. 305*	Spoken French/Spanish	3	3
Fr./Span. 306	Civilization	3	3
Fr./Span. 307-308	History of Literature	6	6
Fr./Span.	Electives	12	12
		30	30
2. Professional Requirements			
Ed. 220	Adolescent Development for Secondary Teachers	3	4
Ed. 203	Educational Psychology	3	4
F.L. Ed. 310	Methods and Materials in Teaching Secondary School Foreign Language	3	4
Ed. 403	Historical and Philosophical Forces Influencing Secondary Education	3	3
F.L. Ed. 413**	Practicum in Teaching Foreign Language in the Secondary School	12	30
		24	45
F. Mathematics			
1. Certification Field			
Math. 161	Analytic Geometry & Calculus I	4	4
Math. 162	Analytic Geometry & Calculus II	4	4
Math. 263	Analytic Geometry & Calculus III	4	4
Math. 301	Introduction to Modern Algebra	3	3
Math. 417	Introduction to Real Analysis	3	3
	Eighteen hours of mathematics selected according to the plan below	18	18
		36	36
	Eighteen hours of mathematics selected from the following four groups with at least one course from each of the first three groups.		
GROUP 1			
Math. 215	Differential Equations	3	3
Math. 381	Probability	3	3
Math. 382	Statistics	3	3
Math. 411	Introduction to Complex Variables	3	3
Math. 413	Applied Analysis	3	3
Math. 415	Mathematical Methods in Applied Math.	3	3

*Required before student teaching.

**SP. or Fr. 305 required prior to student teaching

		Sem. Hours	Clock Hours
Math. 418	Introduction to Real Analysis	3	3
Math. 461	Numerical Analysis	3	3
GROUP 2			
Math. 231	Set Theory	3	3
Math. 302	Introduction to Modern Algebra II	3	3
Math. 303	Linear Algebra	3	3
Math. 351	Elementary Theory of Numbers	3	3
Math. 431	Mathematical Logic	3	3
Math. 432	Mathematical Logic	3	3
Math. 435	Theory of Recursive Functions & Effective Computability	3	3
GROUP 3			
Math. 222	Introduction to Modern Geometry	3	3
Math. 323	Modern Geometry	3	3
Math. 471	Topology	3	3
GROUP 4			
Math. 490	Seminar	3	3
Math. 490	Project	3	3
Math. 499	Independent Study	3	3
2. Professional Requirements			
Ed. 203	Educational Psychology	3	4
Ed. 220	Adolescent Development for Secondary Teachers	3	4
OR			
	Six hours of Psychology chosen from Psych. 101, 204 or 255	6	6
Ed. 403	Historical and Philosophical Forces Influencing Secondary Education	3	3
Math. Ed. 497	Professional Semester	15	30
		24	45
G. Physics			
1. Certification Field			
Phy. 111-112	General Physics	8	10
Phy. 205	Modern Atomic Physics	3	3
Phy. 414	Intro. to Theoretical Phys. I	3	3
Phy. 416	Classical Mechanics I	3	3
Phy. 418	Electricity & Magnetism I	3	3
Phy. 410	Advanced Physics Lab.	3	6
Phy.	Elective	3	3
		26	31
2. Professional Requirements			
Ed. 220	Adolescent Development for Secondary Teachers	3	4
Ed. 203	Educational Psychology	3	4
Sci. Ed. 308	Methods and Materials in Teaching Secondary School Science	3	4
Ed. 403	Historical and Philosophical Forces Influencing Secondary Education	3	3
Sci. Ed. 408	Practicum in Teaching Science in the Secondary School	12	30
		24	45



FACULTY OF PROFESSIONAL STUDIES

The Faculty of Professional Studies includes Elementary Education, Secondary Social Studies Education and Exceptional Children Education. Details concerning the programs and courses offered are provided under these headings in this catalog.

A Bachelor of Science in Education degree program is offered in each area, and graduates may become certified to teach in their area of specialization in the public schools of New York State. Elective courses from any of the College's Divisions are available in the Professional Studies programs.

The Campus School, the Research and Development Complex and the Child Study Center and Student Teaching Program are under the direction of the Dean of Professional Studies. The activities and offerings in these areas are carefully integrated into the over-all program.

The Deans' Council meets regularly to give direction in furnishing over-all cohesion on an all-College basis in the areas of Professional Studies, Arts and Science, Applied Science and Technology and Fine Arts.

The Teacher Education Committee functions as an advisory group to the Deans' Council and serves as a communication link among the various teacher education programs on campus.

Elementary Education

Graduates in Elementary Education receive the degree of Bachelor of Science in Education and are certified to teach nursery through grade 6. Students may extend their certification to teach in the junior high school grades 7-9 in the areas of English, General Science, Foreign Language, Mathematics and Social Studies.

Elementary Education students are provided with a developmental program of supervised teaching experiences with children of various age levels in different types of schools. Their professional education consists of a study of human growth and development, sociological background of elementary school children, an understanding of the learning process, and a knowledge of many ways of working with boys and girls. Participation experiences are provided in the Campus School and cooperating public schools. Student teaching experiences are provided in cooperating public schools in the College community. Students are required to reside in some communities during student teaching assignments.

An academic concentration of twenty-four hours of study in a departmental or inter-departmental program of studies is required. Judicious planning by the student with advisement will enable the student to meet certification requirements.

A student wishing to extend certification to teach in the junior high school grades 7-9 in the areas of English, General Science, Foreign Language, Mathematics and Social Studies will take an additional methods course pertaining to his specific area and must complete a situation of student teaching in the selected academic subject in the early secondary grades.

ELEMENTARY EDUCATION CURRICULUM

	Sem. Hours	Clock Hours
Total General-Liberal Requirements	60	60
(See Page 68)		
Cognate Electives		
By advisement according to area of academic concentration	24	24
Professional Requirements		
Ed. 210 Introduction to Human Development	3	3
Ed. 250 Human Development During Early Childhood		
or		
Ed. 251 Human Development During Elementary School Years ..	3	3
or		
Ed. 252 Human Development During Pre-Adolescence and Adolescence		
Ed. 201 School and Society	3	3
Ed. 202 Teaching the Language Arts	3	4
Ed. 301 Teaching Social Studies, Science and Mathematics	6	9
Ed. 414 The Teaching of Reading	3	3
Ed. 401 Practicum in Elementary School Teaching	12	30
Ed. 402 Seminar in Education	3	3
	36	58
Physical Education	3	3
Total Hours	123	148

NOTE: With judicious planning under advisement it is possible to have as many as 24 hours of free electives.

Academic Concentrations

The following academic concentrations are available to Elementary Education majors. Details of concentration requirements are available in the Elementary Education Office. Concentrations must be registered in the Office of Elementary Education by the end of the second semester of the sophomore year.

1. Anthropology
2. Art
3. English

4. English (Provisional Certification Grades 7-9)—30 hours
5. Foreign Language
6. Foreign Language (Provisional Certification Grades 7-9)—30 hours
7. Geography
8. Latin American Studies
9. Mathematics
10. Mathematics (Provisional Certification Grades 7-9)—30 hours
11. Music
12. Music (Buffalo Certification N-6)—36 hours
13. Philosophy
14. Science
15. Science (Provisional Certification Grades 7-9)—34-36 hours
16. Social Studies
17. Social Studies (Provisional Certification Grades 7-9)—30 hours
18. Urban Studies
19. Individualized Concentration

Teacher Corps

The Teacher Corps is a federally funded, two-year teacher preparation program leading to the Bachelor of Science degree in Elementary Education, and to Permanent Certification in New York State as an elementary teacher, grades N-6. Intern participants are involved through the senior year of a program emphasizing Elementary Education and continued through a fifth year of a competency based practicum.

The program is designed to produce specially prepared, competent teachers of disadvantaged children in poverty schools and has three major aspects: (1) Academic work at the College, (2) Internship experience in central city schools in Buffalo, (3) Community study and service. For the 1972-74 project, two city schools will be operated as Portal Schools.

The Teacher Corps Program is a part of the Faculty of Professional Studies and is administered by the Education Division. Further information may be secured by writing to the Director of the Education Division or to the Teacher Corps Director.

SECONDARY EDUCATION SOCIAL STUDIES CURRICULUM*

	Sem. Hours	Clock Hours
Total General-Liberal Requirements (See Page 68)	60	60
Major Field		
Hist. 102 Foundations of Western Civilization	3	3
Econ. 201 or 202 Principles of Economics	3	3
Pol. Sc. 103 American Political Institutions and Problems	3	3
Geog. 101 Elements of Physical Geography	3	3
Hist. or S.S. Electives (by advisement)	21	21
Hist. or S.S. Seminar	3	3
	36	36
Professional Requirements		
Ed. Psych. 203 Educational Psychology	3	3
Ed. 222 Adolescent Development for Secondary Teachers	3	3
Ed. 309 Methods and Materials in Teaching Secondary School Social Studies	3	4
Ed. 403 Historical and Philosophical Forces Influencing Secondary Education	3	3
Ed. 409 Practicum in Teaching Social Studies in the Secondary School	12	30
	24	43
Free Electives	0-24	0-24
Physical Education	3	3
Total Hours	123	142

*Secondary Education Social Studies majors will report to the Office of Secondary Social Studies for advisement.

Exceptional Children Education Division

The Division of Exceptional Children Education offers courses in the following fields:

1. Learning and Behavioral Disorders
2. Mental Retardation
3. Physical Handicap
4. Communication Disorders

Graduates of this division complete requirements for the Bachelor of Science in Education degree. In addition to this degree, students electing to specialize in the fields of mental retardation and physical handicap are granted special certificates. These certificates enable them to teach either

non-specialized elementary school classes, or elementary and secondary school classes designed for children with physical and intellectual handicaps. Graduates in Communication Disorders are granted certificates permitting them to work as therapists in schools and clinics.

Practical experience in the various fields of exceptional education is required of all students in the division. This experience is a necessary supplement to the theoretical aspects of the program. The laboratory facilities of the College are augmented by those of the public schools, Meyer Memorial and Children's Hospitals, Roswell Park, Crippled Children's Guild, Psychiatric Center of Buffalo, West Seneca Institution for Retarded Children, The Niagara Frontier Vocational Center, Hearing and Speech Center at Buffalo, State Mental Hospital, and Methodist and Protestant Homes for Children, which are affiliated with the exceptional children program.

General Requirements Applying to All Exceptional Children Education Curricula

A total of 66 hours in Liberal Arts is required of all students. This requirement can be fulfilled by judicious combination of the core of General-Liberal studies, as described on page 68, and the Arts and Sciences electives available to students within each of the Exceptional Children Education Curricula.

Certification requirements for the individual Exceptional Children Education curricula are detailed on the following pages.

LEARNING AND BEHAVIORAL DISORDERS CURRICULUM

	Sem. Hours	Clock Hours
Total General-Liberal Requirements (See Page 68)	60	60
Major Field		
Ex. Ed. 101 Nature and Needs of Exceptional Children	3	4
Ex. Ed. 210 Learning and Behavioral Disorders of Children	3	4
Ex. Ed. 409 Curriculum Practices for Learning and Behaviorally Disordered Children	3	4
Ex. Ed. 313 Observation-Participation with the Learning and Behaviorally Disordered	3	9
Ex. Ed. 403 Mental Measurement	3	4
Ex. Ed. 430 Practicum in Emotional Handicapped	6	30
Ex. Ed. Elective by Advisement	3	3
	24	58
Professional Field		
Ed. 210 Introduction to Human Development	3	4

		Sem. Hours	Clock Hours
Ed. 250	Human Development During Early Childhood	3	4
or			
251	Human Development During Elementary School Years		
or		3	4
252	Human Development During Pre-Adolescence and Adolescence		
Ed. 201-202	School and Society—Teaching Language Arts	6	7
Ed. 305	Observation-Participation with Typical Children	3	4
Ed. 414	Teaching Reading	3	4
Ed. 404	Practicum in Elementary Education	6	7
		24	28
Electives		12	14
Physical Education		3	4
	<i>Total Hours</i>	123	149
MENTAL RETARDATION CURRICULUM			
Total General-Liberal Requirements		60	60
(See Page 68)			
Major Field			
Ex. Ed. 101	Nature and Needs of Exceptional Children	3	4
Ex. Ed. 209	Psychology of Exceptional Children	3	4
Ex. Ed. 301	Observation-Participation in Mental Retardation	3	4
Ex. Ed. 403	Mental Measurement	3	4
Ex. Ed. 404	Curriculum Practices for the Mentally Retarded	3	4
Ex. Ed. 418	Practicum in Mental Retardation	6	7
I.A. 305	Creative Arts for M. R. Children		
OR			
Art 217	Workshop in Crafts I	3	4
		24	28
Professional Field			
Ed. 201-202	School and Society—Teaching Language Arts	6	7
Ed. 210	Introduction to Human Development	3	4
Ed. 250	Human Development During Early Childhood	3	4
or			
251	Human Development During Elementary School Years		
or		3	4
252	Human Development During Pre-Adolescence and Adolescence		
Ed. 414	Teaching Reading or	3	3
Ed. 418	Audio-Visual Aids or		
Ed. 419	Elementary Methods or		
Ed. 420	Teaching Language Arts		
Ed. 305	Observation-Participation with Typical Children	3	4
Ed. 404	Practicum in El. Ed.	6	7
		24	28
Electives		9	11
Physical Education		3	4
	<i>Total Hours</i>	123	151
COMMUNICATION DISORDERS CURRICULUM			
Total General-Liberal Requirements		60	60
(See Page 68)			
Major Field			
Ex. Ed. 101	Nature and Needs of Exceptional Children	3	4
Ex. Ed. 204	Science of Speech and Hearing	3	4

	Sem. Hours	Clock Hours
Electives	12	12
Physical Education	3	3
	<i>Total Hours</i>	123
PHYSICAL HANDICAP CURRICULUM		
Total General-Liberal Requirements		60
(See Page 68)		
Major Field		
Ex. Ed. 101	Nature and Needs of Exceptional Children	3
Ex. Ed. 209	Psychology of Exceptional Children	3
Ex. Ed. 403	Mental Measurement	3
Ex. Ed. 404	Curriculum Practices for the Mentally Retarded	3
Ex. Ed. 417	Curriculum Practices for the Physically Handicapped	3
Ex. Ed. 311	Observation-Participation with the Physically Handicapped	3
Ex. Ed. 421	Practicum in Physically Handicapped	6
I. A. 305	Creative Arts for Mentally Retarded Children or	3
Art 217	Workshop in Crafts I	3
		27
Professional Field		
Ed. 201-202	School and Society—Teaching Language Arts	6
Ed. 210	Introduction to Human Development	3
Ed. 250	Human Development During Early Childhood	3
or		
251	Human Development During Elementary School Years	
or		3
252	Human Development During Pre-Adolescence and Adolescence	
Ed. 414	Teaching Reading or	3
Ed. 418	Audio-Visual Aids or	
Ed. 419	Elementary Methods or	
Ed. 420	Teaching Language Arts	
Ed. 305	Observation-Participation with Typical Children	3
Ed. 404	Practicum in El. Ed.	6
		24
Electives	9	9
Physical Education	3	3
	<i>Total Hours</i>	123
COMMUNICATION DISORDERS CURRICULUM		
Total General-Liberal Requirements		60
(See Page 68)		
Major Field		
Ex. Ed. 101	Nature and Needs of Exceptional Children	3
Ex. Ed. 204	Science of Speech and Hearing	3

		Sem. Hours	Clock Hours
Ex. Ed. 205	Phonetics	3	4
Ex. Ed. 206	Bases of Speech	3	3
Ex. Ed. 414	Audiology I	3	3
Ex. Ed. 306	Speech Pathology I	3	3
Ex. Ed. 307	Speech Pathology II	3	4
Ex. Ed. 416	Stuttering	3	4
Ex. Ed. 415	Speech, Reading and Auditory Training	3	3
Ex. Ed. 411	Seminar in Speech and Hearing	3	3
Ex. Ed. 402	Clinical Procedures and Organization of Schools and Clinics	4	11
Ex. Ed. 405	Practicum in Speech and Hearing	6	30
Ex. Ed. 424	Organization and Administration of School Programs	2	4
		42	93

Professional Field

Ed. 210	Introduction to Human Development	3	4
Ed. 250	Human Development During Early Childhood	3	4
or			
251	Human Development During Elementary School Years		
or		3	4
252	Human Development During Pre-Adolescence and Adolescence		
		6	12

Electives 12

Physical Education 3

Total Hours 123

Research and Development Complex

The Research and Development Complex has as one of its major goals the development of instructional programs to improve teacher decision-making in individualizing instruction. Comprehensive programs supported by a variety of federal and state agencies are directed toward providing teacher assistance in general education, health and drug education, exceptional children education and migrant education.

Employing its own computer and interstate tele-communications network, the Complex is the prime developer and disseminator of Computer Based Resource Units, a service provided to over five thousand teachers each year.

The Complex offers students, teachers, and College faculty opportunities for training, workshops, instructional material demonstration, consultancy, interlibrary loan, reference searches, and independent study. Students may examine or borrow materials for use in their student participation and student teaching experiences, carry on independent study in the center, or assist in one of the numerous ongoing research projects.

Ethnic Cultures Clusters

The following groups of courses do not in themselves constitute any formal academic program, but are grouped here for guidance of students who may wish to include clusters of related courses in their programs. Note that there is a major program in Afro-American Studies and a formal concentration in Soviet and East European Studies within the History major.

Afro-American

Anth. 305	Peoples of Traditional Africa
Anth. 411	African Systems of Kinship and Marriage
Anth. 414	Social Change in African Societies
Dance 220	Survey of Afro-American Dance
Eng. 240	Afro-American Literature to 1940
Eng. 241	Afro-American Literature Since 1940
Hist. 211	History of Modern Africa Since 1919
Hist. 306	History of Africa to 1919
Hist. 421	American Negro History
Mus. 206	Afro-American Music
Mus. 213	Music of the African Continent
Mus. 310	Primitive and Folk Music of South Asia and Africa
Mus. 402	American and Afro-American Music Seminar
Pol. Sc. 315	Government and Politics of Sub-Saharan Africa
Soc. 204	Race Relations (Black-White)

Also see Afro-American Studies

For Swahili language courses see Foreign Languages

American Indian

Anth. 300	Indians of Western North America
Anth. 301	Indians of Eastern North America
Anth. 303	Indians of South America
Anth. 312	Archeology of the North American Indian
Hist. 340	Indians of the United States

Asian and Far Eastern

Anth. 309	Peoples of the Far East
Anth. 310	Cultures of India
Geog. 205	Geography of Asia
Hist. 210	History of the Far East: The Revolutionary Era
Hist. 310	History of the Far East: The Traditional Era
Hist. 460	Seminar in Asian History
I.D. 424	People and Institutions of India
Mus. 208	Oriental Art Music: China, Japan, Korea
Mus. 209	Oriental Art Music: India, Indonesia, Philippines
Mus. 309	Art Music of Asia: Japan, Indonesia, India
Mus. 310	Primitive and Folk Music of South Asia and Africa
Pol. Sc. 302	Governments of South and Southeastern Asia

Eastern European

Hist. 318	History of Russia to 1917
Hist. 402	History of the Soviet Union
Hist. 412	History of East Central Europe
Hist. 414	History of the Balkans Since 1453
Hist. 423	History of the Byzantine Empire

- Hist. 425 Medieval Slavic History
 Pol. Sc. 309 Soviet Political Systems
 Pol. Sc. 310 Soviet Foreign Policy
 Pol. 431 Polish Literature in English Translation
 Pol. 432 Modern Polish Literature in English Translation
 Hun. 335 Hungarian Literature in Translation
 Rus. 332 (Eng. 332) Russian Literature in Translation
 Rus. 338 Russian Literature since the Revolution
 For Eastern European language courses, see Foreign Languages

Jewish

- Eng. 333 Yiddish Literature in Translation
 Hist. 212 History of Jews in Europe
 Soc. 416 American Jewish Community
 For Hebrew language courses, see Foreign Languages

Latin American

- Anth. 302 Peoples of MesoAmerica
 Anth. 303 Indians of South America
 Anth. 304 Archeology of Latin America
 Anth. 306 Peoples of the Caribbean
 Econ. 407 Economics of Latin America
 Geog. 203 Geography of Middle America
 Geog. 208 Geography of South America
 Hist. 209 History of Latin America: The Colonial Era
 Hist. 314 History of Latin America: The National Era
 Hist. 335 History of Mexico
 Hist. 355 History of the Caribbean
 Hist. 411 Social and Intellectual History of Latin America
 Mus. 305 Latin American Music

Also see Latin American Studies

For Spanish and Portuguese language courses, see Foreign Languages

Near and Middle Eastern

- F.A. 453 Art of the Ancient Near East
 Hist. 313 (Pol. Sc. 313) Politics and History of the Middle East
 Pol. Sc. 314 International Relations of the Middle East

Italian

- Ed. 466 Renaissance Educational Thought
 Eng. 335 (Ital. 335) Italian Renaissance Literature in Translation
 Eng. 336 (Ital. 336) Modern Italian Literature in Translation
 F.A. 459 Italian Renaissance Art
 Ital. 335 (Eng. 335) Italian Renaissance Literature in Translation
 Ital. 336 (Eng. 336) Modern Italian Literature in Translation
 Hist. 312 History of Italy
 F.L. 210 Italian Americans: Literature and Society

For Italian language courses, see Foreign Language

General

- Anth. 404 Peasant Peoples of the Modern World
 Eng. 430 Literature of the Bible
 Hist. 311 American Immigration and Emigration
 Soc. 301 Nationality Groups in American Culture

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Diane H. Schaich
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Walter Wells
DuWayne E. Wilson
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Robert C. Baeumler
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John J. Bishop
Joseph A. Bolinsky
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Richard Gubernick
Arthur F. Kleinfelder
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Paul D. Martin
Jerome Rothlein
Robert Squeri
James J. Vullo
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Roland Wise

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Charles G. Novak
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J. Kevin Harney
Jenny T. Heckman
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Philip A. Weaver

Physical Handicap Department

Murray Bloustein, *Chairman*
Linda Hicks
Elizabeth A. O'Shea

AFRO-AMERICAN STUDIES DEPARTMENT

AAS 103. A Survey of Afro-American Studies: The Black Experience before 1865 (6) 6 Cr.

A survey of American society and its roots in European Civilization seen from the black perspective. *Classification:* Required of Afro-American Studies Majors. Elective for others. *Prerequisite:* None.

AAS 104. A Survey of Afro-American Studies: The Black Experience from 1865 to the Present (6) 6 Cr.

The philosophical and cosmological ordering of Black Africa and the black colonial experience in Africa and America. *Classification:* Required of Afro-American Studies Majors. Elective for others. *Prerequisite:* None.

AAS 201. The Contemporary African Novel (3) 3 Cr.

A critical survey of the contemporary African novel. *Classification:* Elective. *Prerequisite:* Afro-American Studies 103, or 104 or permission of the instructor.

AAS 301. Black Protest and Leadership in the U.S.A. in the 18th and 19th Centuries (3) 3 Cr.

The growth of black protest and leadership in America in the eighteenth and nineteenth centuries. *Classification:* Elective. *Prerequisite:* Afro-American Studies 103, or 104 or permission of the instructor.

AAS 302. The Political Implications of the Cultural Revolution in Black America (3) 3 Cr.

An examination of the political significance of the current black cultural revolution. *Classification:* Elective. *Prerequisite:* Afro-American Studies 103, or 104 or permission of the instructor.

AAS 311. The Evolution of the Pan-African Movement (3) 3 Cr.

An examination of the historical and cultural elements that led to the development of the concept of Pan-Africanism with emphasis on the political, philosophical and cultural impact of Africa on the movement. *Classification:* Elective.

Number in parentheses indicates class hours per week.

Prerequisite: Afro-American Studies 103, or 104 or permission of the instructor.

AAS 321. The Black Novel in America (3) 3 Cr.

An intensive and critical study of the thematic concerns of the major black novelists from Chestnutt to Ellison. *Classification:* Elective. *Prerequisite:* Afro-American Studies 103, or 104 or permission of the instructor.

AAS 331. The Relevance of Social Theories to the Black Experience (3) 3 Cr.

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. *Classification:* Elective. *Prerequisite:* Afro-American Studies 103, or 104 or permission of the instructor.

AAS 332. The Black Family in America (3) 3 Cr.

An exploratory study of the effects of the American social institution upon the Black American family life with emphasis on intra-familial relations. *Classification:* Elective. *Prerequisite:* Afro-American Studies 103, or 104 or permission of the instructor.

AAS 333. The Afro-West Indian and Social Change (3) 3 Cr.

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. Characteristics enhancing the inhibiting change.

AAS 411. Black Protest and Leadership in the U. S. in the Twentieth Century (3) 3 Cr.

An examination of the Black protest movements and leaders in twentieth-century America. *Classification:* Elective and one of the senior seminars from which Afro-American Studies majors may choose one required seminar. *Prerequisite:* Afro-American Studies 103-104 and/or 301, 311, 321, 331 or permission of the instructor.

AAS 421. Black Drama in America
(3) 3 Cr.

An exploratory and critical analysis of the thematic and technical development of Black American drama. *Classification:*

ANTHROPOLOGY DEPARTMENT**ANTH. 100. Human Origins (3) 3 Cr.**

The emergence and prehistory of mankind. The nature of man and his social institutions as explored through the evidence for the development of man's body and his subsequent changes from hunter to farmer and urbanite. *Classification:* Required of all anthropology majors. Recommended as a first or second course in anthropology.

ANTH. 101. Introduction to Anthropology
(3) 3 Cr.

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. Required for the concentration in anthropology for Elementary Education majors. *Special Note:* Recommended as a first or second course in anthropology. Students who have passed S.S. 101 may not receive credit for this course. Students who have taken Anth.-Soc. 101 may not take this course for credit.

ANTH. 201. General Anthropology (3) 3 Cr.
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. *Special Note:* Students who have passed Anth. 100, Anth. 101 or Anth.-Soc. 101 may not take this course for credit.

ANTH. 202. Man's Early Past; Archeology
(3) 3 Cr.

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. *Classification:*

Number in parentheses indicates class hours per week.

Elective and one of the senior seminars from which Afro-American Studies majors may choose one required seminar. *Prerequisite:* Afro-American Studies 103, 104 and/or 321 or permission of the instructor.

Required of all anthropology majors. *Classification:* Required for the concentration in anthropology for Elementary Education majors. *Special Note:* Anth. 101 is strongly recommended as a prior course.

ANTH. 203. Human Evolution and Variation, Including Race; Physical Anthropology
(3) 3 Cr.

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. *Classification:* Required for all anthropology majors. *Classification:* Required for the concentration in anthropology for Elementary Education majors. *Special Note 1:* Anth. 100 is strongly recommended as a prior course.

ANTH. 300. Indians of Western North America (3) 3 Cr.

Origins of American Indians; routes 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. *Special Note:* Anth. 101 is strongly recommended as a prior course.

ANTH. 301. Indians of Eastern North America (3) 3 Cr.

Prehistory of Eastern North America; influences from Middle and South America, sub-Arctic and Arctic. Emphasis on cultures of Iroquois and Algonquian speaking peoples. *Classification:* Required for the concentration in anthropology for Elementary Education majors. *Special Note:* Anth. 101 is strongly recommended as a prior course.

ANTH. 302. Peoples of MesoAmerica
(3) 3 Cr.

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. *Classification:* Recommended for Latin American Studies majors. *Special Note:* Anth. 101 is strongly recommended as a prior course.

ANTH. 303. Indians of South America
(3) 3 Cr.

Native cultures of South America, including a summary of racial and linguistic classification. Aboriginal culture areas are defined and characterized; discussion of culture change and present-day conditions of human populations. *Special Note:* Anth. 101 is strongly recommended as a prior course. *Classification:* Recommended for Latin American Studies majors.

ANTH. 304. Archeology of Latin America (3) 3 Cr.

General stages of development in the culture history of MesoAmerica and South America combined with a survey of development in local areas; secondary emphasis on archeological method as a source of history. *Classification:* Required of Latin American Studies majors. *Special Note:* Anth. 101 is strongly recommended as a prior course.

ANTH. 305. Peoples of Traditional Africa (3) 3 Cr.

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. *Special Note:* Anth. 101 is strongly recommended as a prior course.

ANTH. 306. Peoples of the Caribbean
(3) 3 Cr.

The social organization and structure of Caribbean society will be examined in light of the plantation economy and the development of urbanism. The position of the Negro, the Creole, and the East Indian minorities will be reviewed in

both historical and contemporary contexts. *Classification:* Recommended for Latin American Studies majors. *Special Note:* Anth. 101 is strongly recommended as a prior course.

ANTH. 307. Urban Anthropology (3) 3 Cr.

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. *Classification:* Recommended for Urban Studies majors. *Special Note:* Anth. 101 is strongly recommended as a prior course.

ANTH. 309. Peoples of China (3) 3 Cr.

Prehistory, physical types, language families, and cultures of China. Attention will be given to the influence of the high civilizations of the Far East upon neighboring peoples. *Special Note:* Anth. 101 is strongly recommended as a prior course.

ANTH. 310. Cultures of India (3) 3 Cr.

Development of civilization in India. Description of physical types and of language groupings. The culture of tribal peoples, farmers, and city populations considered. Influence of caste on contemporary life considered. *Special Note:* Anth. 101 is strongly recommended as a prior course.

ANTH. 312. Archeology of the North American Indian (3) 3 Cr.

Prehistory 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. *Special Note:* Anth. 100 and Anth. 202 are strongly recommended as prior courses.

ANTH. 402. Cultural Anthropology (3) 3 Cr.

An intensive comparative approach to the content and process of culture problems in the interpretation of cultural materials; cross-disciplinary approaches; applied anthropology. *Special Note:* May be elected

by graduate students. Anth. 101 is strongly recommended as a prior course.

ANTH. 403. Language and Culture (3) 3 Cr.
The relationship between language and culture; (a) in descriptive or structural studies — language as a product of culture and a shaper of culture; and (b) in historical studies — linguistics and cultural change; language as a tool for studying history; evolution of language and culture. *Classification:* Required for the concentration in anthropology for Elementary Education majors. *Special Note:* May be elected by graduate students. Anth. 101 is strongly recommended as a prior course.

ANTH. 404. Peasant Peoples in the Modern World (3) 3 Cr.

A comprehensive study of rapidly changing peasants in the modern world, with emphasis on the U.S., Mexico, Africa, Soviet Union, China, and India. Selected samples from elsewhere may be examined with an analysis of problems of transitional agriculture, economic development, urbanization, collectives, and communal experiments. *Classification:* Required for the concentration in anthropology for Elementary Education majors. Recommended for Secondary Education — Social Studies majors. *Special Note:* May be elected by graduate students. Anth. 101 is strongly recommended as a prior course.

ANTH. 405. History of Anthropological Thought (3) 3 Cr.

Study of the important contributions to the development of anthropological theory from the preanthropological philosophers as Locke to the present. Included among the theorists studied will be Darwin, Tylor, Boas, Kroeber, Rivers, Malinowski, Levi-Strauss, and Sapir. *Classification:* Required of all anthropology majors. *Special Note:* May be elected by graduate students. Anth. 101 is strongly recommended as a prior course.

ANTH. 406. Religion, Myth, and Magic (3) 3 Cr.

Evolutionary transformations of Magic and Ritual into Science and Technology;

of Myth and Legend into Epic and Historiography; of Cosmogony and Theogony into Cosmology and Theology; and of uncritical and chaotic mythopoetic thought into critical and systematic reflection. Examination of fetishism, totemism, mana, taboo, and other religious concepts and phenomena. *Special Note:* May be elected by graduate students. Anth. 101 is strongly recommended as a prior course.

ANTH. 408. Culture and Personality (3) 3 Cr.

A cross-culture 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 model and deviant personalities. *Classification:* Elective for students in the B.A. and B.S. (Education) programs. May also be taken by graduate students. *Prerequisite:* Anth. 101 or the permission of the instructor.

ANTH. 409. Social Structure (3) 3 Cr.

The comparative study of social structure in different cultures, emphasizing the tribal. Kinship, Occupational groups, government, social classes, and clubs will be included. *Prerequisite:* Anth. 101 or the permission of the instructor.

ANTH. 410. Anthropology and Education (3) 3 Cr.

The focus is the transmission of culture and particularly the values that are activated by educational events and in educational settings cross-culturally. Comparisons are made of U. S. inner-city and suburban schools with West African "Bush" schools, Japanese youth groups, American Indian education and culture, or an Australian aborigine initiation ceremony. *Classification:* Required for the concentration in anthropology for Elementary Education major. *Special Note:* Anth. 101 is strongly recommended as a prior course. May be elected by graduate students.

ANTH. 411. African Systems of Kinship and Marriage (3) 3 Cr.

Study of the family, kinship, and marriage among the peoples of Africa. Emphasis on the interrelationships of kinship with other aspects of the culture.

Special Note: Anth. 101 is strongly recommended as a prior course. May be elected by graduate students.

ANTH. 412. Seminar in Anthropology (3) 3 Cr.

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. *Prerequisites:* Anth. 101, a second advanced course in anthropology, or the consent of the instructor. *Special Note:* May be elected by graduate students.

ART EDUCATION DEPARTMENT

***ART ED. 100. Essentials of Visual Arts (4,2) 3 Cr.**

The nature of visual art; the creative process; aesthetic judgment; art's relation to contemporary cultures; introductory creative expressive experiences. *Classification:* Elective except for Art Majors.

***ART ED. 200. Fundamentals of Art Inquiry (3,0) 3 Cr.**

Factors which determine the nature of the visual and environmental arts. Processes of establishing valid criteria for making aesthetic judgments about art as it is reflected in all areas of human concern and institutions. Instruments of language and logic as they are useful to the inquiry.

***ART ED. 215. Arts in Living (4,2) 3 Cr.**

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. *Classification:* Elective except for Art Majors.

Numbers in parentheses indicate class and independent studio hours per week respectively.

*General-liberal

ANTH. 414. Social Change in African Societies (3) 3 Cr.

A study of continuity and change in African cultures with emphasis upon kinship, economics, political organization, education, religion, and paramedicine. *Special Note:* Anth. 101 is strongly recommended as a prior course. May be elected by graduate students.

ANTH. 415. Seminar in Archeology (3) 3 Cr.

Individual research projects to be designed by students with progress reports and discussions held every week. Topics will be confined to the teacher's field of interest. *Prerequisite:* Anth. 304 or extensive previous reading and knowledge of Maya archeology and consent of instructor. *Special Note:* May be elected by graduate students.

ART ED. 219. Art For The Elementary Classroom Teacher (3,0) 3 Cr.

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. *Classification:* Open only to elementary or exceptional education undergraduate students. *Prerequisite:* Any one college art course.

ART ED. 301. Processes of Art Education at the Elementary Level (3,0) 3 Cr.

Dynamic relationships of creative behavior within the developmental processes of the elementary school child. Participation teaching and classroom activities to develop competence in communicating significant art education concepts, and developing appropriate experiences and programs. *Classification:* For Art Education Majors only. *Prerequisite:* Art

Ed. 200 and evidence of background or competence in Anthropology and/or Psychology, or department permission.

ART ED. 302. Processes of Art Education at the Secondary Level (3,0) 3 Cr.

Dynamic relationships of creative behavior within the developmental processes of the adolescent school child. Participation teaching and classroom activities to develop competence in communicating significant art education concepts, and developing appropriate experiences and programs. *Classification:* For Art Education Majors only. *Prerequisite:* Art Ed. 200 and evidence of background or competence in Anthropology and/or Psychology, or department permission.

ART ED. 303. Elementary Teaching & Seminar (full-time, ½ semester) 6 Cr.

Supervised student teaching at assigned levels from kindergarten through sixth grade, in various types of schools and communities; conferences devoted to planning and evaluating teaching experiences; seminar discussions on professional problems of the beginning teacher. *Prerequisite:* For Art Education Majors Only, Art Ed. 301, 302 and

cognate electives to include at least one course each in Psychology and Sociology.

ART ED. 304. Secondary Teaching & Seminar (full-time, ½ semester) 6 Cr.

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. *Prerequisite:* For Art Education Majors Only, Art Ed. 301, 302 and cognate electives to include at least one course each in Psychology and Sociology.

ART ED. 439. Research in Art Education 3-6 Cr. by arrangement

Readings, reports and discussion of basic and current research activity in art education; exploration of simple experimental techniques, with students developing and carrying out aspects of research as a part of class requirements; research on specific local situations as well as universal professional problems. *Classification:* Elective for Art Education Major Upperclassmen.

ART ED. 499. Independent Study (See Independent Study under Academic Regulations.)

BIOLOGY DEPARTMENT

BIOL. 100. Principles of Biology (3) 3 Cr.

A consideration of some important principles of modern biology with special emphasis on their relevance to the problems of man and his environment. Designed primarily for the student who does not intend to major in biology.

BIOL. 104. Environmental Biology (Non-majors) (3) 3 Cr.

Ecological principles, the nature of man's ecosystem, his role in changing the environment illustrated by case histories. Field trips may be required.

BIOL. 115. General Botany (for Majors) (3,3) 4 Cr.

Morphology, physiology, phylogeny, reproduction and adaptation of plants.

Numbers in parentheses indicate lecture and laboratory hours per week respectively

BIOL. 116. General Zoology (for Majors) (3,3) 4 Cr.

Morphology, physiology, phylogeny, reproduction and adaptation of animals.

BIOL. 201. Microbiology (2,4) 4 Cr.

Microorganisms and techniques of observing their morphology, growth characteristics, and distribution; the relationship of microorganisms to man and his activities. *Prerequisite:* General Biology

BIOL. 203. Genetics (3,3) 4 Cr.

Principles of heredity; inheritance of specific plant, animal, and human traits; biochemical aspects of the gene; relationship to evolution. Required of Biology Majors. *Prerequisite:* General Biology.

BIOL. 206. Entomology (2,2) 3 Cr.

A study of the morphology, physiology, ecology and life history of insects. Major emphasis is placed on interrelationships of insects and man. *Prerequisite:* General Biology.

BIOL. 210. Bacteriology (2,2) 3 Cr.

Morphology and physiology of bacteria. General application to household science, sanitary science, hygiene and infectious diseases. *Prerequisite:* Biology 100 or General Biology. *Special Note:* Not open to Biology Majors.

BIOL. 211. Human Anatomy and Physiology I (2,2) 3 Cr.

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, and reproductive systems. *Prerequisite:* Biology 100 or Biology 101. *Special Note:* Not open to Biology Majors.

BIOL. 212. Human Anatomy and Physiology II (2,2) 3 Cr.

Study of the basic anatomy and physiology of selected organ systems of the human body. Emphasis will be placed on the skeletal, muscle, nervous, and endocrine systems. *Prerequisite:* Biology 211. *Special Note:* Not open to Biology Majors.

BIOL. 300. Comparative Vertebrate Morphology (3,3) 4 Cr.

Description and evolution of the Chordates. Development, structure, and evolution of the organ systems; laboratory dissections of the dogfish shark, mud puppy, and cat. *Prerequisite:* Two semesters of biology or one semester of general zoology.

BIOL. 301. Cellular Physiology (3,3) 4 Cr.

Life phenomena of plants and animals. Physiological processes at the cellular level. Required of Biology Majors. *Prerequisite:* General Biology, and one year of organic chemistry or one semester each of organic chemistry and molecular biology. The second semester of either sequence may be taken concurrently.

BIOL. 304. Local Flora (2,3) 3 Cr.

Collection, preservation, and identification of representatives of the Western New York flora. *Prerequisite:* General Biology or Biology 100. *Special Note:* Several Saturday field trips may be required.

BIOL. 305. Molecular Biology (3,3) 4 Cr.

Structure, organization and function in living matter at the molecular level. *Prerequisites:* Chemistry 201; General Biology or equivalent.

BIOL. 310. Microtechnique (2,4) 4 Cr.

The preparation of biological materials for study on the cellular level. Special emphasis placed on techniques of fixation, staining, mounting, and photomicrography. *Prerequisite:* General Biology.

BIOL. 315. Ecology (3,3) 4 Cr.

Natural communities as ecosystems, interspecific and intraspecific relationships; population changes, biogeochemical cycles, limiting factors, and energy transformations in natural communities. Recognition of plants and animals in selected habitats; introduction to analysis of community composition; effects of man in modifying natural environments. Required of Biology Majors. *Prerequisites:* General Biology and General Chemistry. *Special Note:* One 4-day field session and two half-day field trips may be required.

BIOL. 361. Biology Seminar 1 Cr.

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. *Prerequisite:* None.

BIOL. 362. Biology Seminar 1 Cr.

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. *Prerequisite:* None.

BIOL. 402. Vertebrate Physiology (3,0) 3 Cr.

An examination of the general principles underlying metabolism, reproduction,

vegetative activities and integrative functions in vertebrates. Emphasis on the regulation and integration of functions. The human will be used as a representative vertebrate, where possible. *Prerequisite:* Cellular Physiology or its equivalent. *Special Note:* Laboratory project to be arranged.

BIOL. 403. Economic Biology and Conservation (2,2) 3 Cr.

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. *Prerequisite:* General Biology or Biology 100. *Special Note:* A number of field trips may be required.

BIOL. 404. Plant Morphology (3,3) 4 Cr.

A study of the comparative structure, reproductive cycles, and phyletic implications in the non-vascular and vascular plants. *Prerequisite:* General Botany.

BIOL. 405. Organic Evolution (3,0) 3 Cr.

A study of the empirical foundation of evolutionary theory; emphasis will be on the dynamics of the process of evolution, especially as it relates to individual variation within an interbreeding population, to the variation pattern on the population level, and to the origin of species; more recent trends, such as introgressive hybridization, polyploidy, apomixis, and genetic homeostasis will be developed. *Prerequisites:* Genetics and Ecology.

BIOL. 406. Biometrics (3,3) 4 Cr.

Analysis of biological data and its relation to experimental design, hypothesis testing with t-distribution, analysis of variance, chi square; correlation and regression; introduction to bioassay. *Prerequisite:* College Algebra or its equivalent, and General Genetics, or its equivalent.

BIOL. 408. Plant Physiology (3,2) 3 Cr.

Physiological processes in plants, including photosynthesis; respiration, osmosis, translocation, transpiration, effects of hormones, soil nutrients, and tropisms. *Prerequisite:* Cellular Biology.

BIOL. 409. Field Biology (2,2) 3 Cr.

Field identification, growth characteristics, reproduction, movement habitats and nutrition of organisms; distribution and man's effect on distribution. *Prerequisite:* General Biology or Biology 100.

BIOL. 410. Soil Biology (2,3) 3 Cr.

The soil biota, their interaction, adaptation, succession and ecological and economic importance. *Prerequisite:* Ecology. *Special Note:* Field trips may be required.

BIOL. 411. Parasitology (2,2) 3 Cr.

Principles of Parasitology, morphology, physiology, ecology, life cycles, identification and pathology; control and treatment; significance of parasitism in relation to human health. *Prerequisite:* General Biology.

BIOL. 413. Ornithology (2,2) 3 Cr.

Birds, their structure, functions, origins and development; their identification and habits. *Prerequisite:* General Biology. *Special Note:* Field work required.

BIOL. 414. Mammalogy (2,3) 3 Cr.

The structure, classification, and ecology of mammals, with special emphasis on local species. *Prerequisite:* General Biology. *Special Note:* Field trips may be required.

BIOL. 415. Radiation Biology (2,4) 4 Cr.

Properties of nuclear and high energy radiations; mechanisms of radio-biological actions; radioisotopes as biological tools; biological effects, dose and tolerance; personnel and area monitoring. *Prerequisites:* General Biology and 6 semester hours in chemistry or physics. *Special Note:* Six hours per week including lectures, laboratory and field trips.

BIOL. 416. Advanced Genetics (3,0) 3 Cr.

Development of the interrelationships of the molecular and chromosome levels of genetics with emphasis on development and behavior. *Prerequisites:* General Genetics and Organic Chemistry.

BIOL. 417. Field Mycology (2,3) 3 Cr.

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.

Prerequisite: General Biology. *Special Note:* Field trips may be required.

BIOL. 418. Limnology 4 Cr.

Study of the physical, chemical, and biological factors influencing fresh water life. Lectures, demonstrations, and field trips. *Prerequisite:* General Biology. Not open to Sophomores.

BIOL. 419. Vertebrate Zoogeography (3) 3 Cr.

A study of the distribution of the living vertebrates, with emphasis on the origins of these distributions and on present and predictable changes. *Prerequisite:* Ecology.

BIOL. 420. Field Studies in the Conservation of Biological Resources 2 Cr.

Problems of renewable resources, applied

ecology involving soil, water, forest and wildlife; field instruction and lectures by experts from State Conservation Department, federal bureaus, local community organizations; techniques in conservation education. *Prerequisite:* General Biology or Biology 100.

BIOL. 421. Invertebrate Structure and Function (2,2) 3 Cr.

Morphology, physiology, adaptation, ecology, reproduction and evolution of the invertebrates. A functional approach. *Prerequisite:* General Zoology.

BIOL. 495. Project

(See Project under Academic Regulations.)

BIOL. 499. Independent Study

(See Independent Study under Academic Regulations.)

CHEMISTRY DEPARTMENT

Accredited by the American Chemical Society.

CHEM. 100. Chemistry and Society (No laboratory) (3) 3 Cr.

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. *Special Note:* A one-semester study of chemistry which will be of value to non-science majors who seek a liberal education pertinent to modern society.

CHEM. 101. General Chemistry I (Non-Majors) (2,3) 3 Cr.

General Chemistry as a science exploring the facts and theories dealing with the relationship between structure and properties of matter; relation of Chemistry to other fields of knowledge and to everyday life.

CHEM. 102. General Chemistry II (Non-Majors) (2,3) 3 Cr.

A continuation of General Chemistry 101. *Prerequisite:* Chem. 101.

CHEM. 111. Fundamentals of Chemistry I (3,3) 4 Cr.

Introduction to chemistry utilizing physicochemical principles with illustrative laboratory work of a quantitative nature.

CHEM. 112. Fundamentals of Chemistry II (3,3) 4 Cr.

A continuation of General Chemistry I; laboratory work in semi-micro qualitative inorganic analysis and physicochemical experiments. *Prerequisite:* Chem. 111.

CHEM. 201. Organic Chemistry I (3,3) 4 Cr.

Chemistry of carbon compounds. Bonding, stereochemistry and structural theory. Fundamental reactions of functional groups considered from the mechanistic viewpoint. Laboratory work illustrating fundamental principles, modern techniques, synthesis and properties of organic compounds. *Prerequisite:* Chem. 112.

Numbers in parentheses indicate lecture and laboratory hours per week respectively.

CHEM. 202. Organic Chemistry II
(3,3) 4 Cr.

A continuation of Organic Chemistry 201. *Prerequisite:* Chem. 201.

CHEM. 221. Intermediate Chemistry
(3,3) 4 Cr.

A treatment of bonding, kinetics and equilibrium, with emphasis on organic systems. *Prerequisite:* Chem. 102, Chem. 112, or Chem. 111 with permission of the Chairman of the Department of Chemistry.

CHEM. 222. Biological Chemistry (3,3) 4 Cr.
Structure and functions of the substances of biochemical interest. Living Systems. *Prerequisite:* Chem. 221 or Chem. 202.

CHEM. 301. Analytical Chemistry (2,6) 4 Cr.
Theory and laboratory applications of quantitative analyses, utilizing gravimetric, volumetric and physicochemical methods. *Prerequisite:* Chem. 112.

CHEM. 305. Physical Chemistry I (3,3) 4 Cr.
Description of physicochemical systems; thermodynamics, kinetics, electrochemistry. *Prerequisite:* Chem. 202, Phy. 112, Math. 162.

CHEM. 306. Physical Chemistry II
(3,3) 4 Cr.

A continuation of Physical Chemistry 305. *Prerequisite:* Chem. 301 and Chem. 305.

CHEM. 310. Literature of Chemistry
(1,0) 1 Cr.

Primary, secondary, and tertiary sources of chemical literature and library experience in usage. The literature search; research in documentation. *Prerequisite:* Chem. 112.

CHEM. 400. Inorganic Chemistry (3,0) 3 Cr.
Laws and theories of inorganic chemistry with emphasis on the application of thermodynamic, kinetic and structural principles. *Prerequisite:* Chem. 305.

CHEM. 401. Biochemistry I (3,3) 4 Cr.
Physical and organic chemical studies of

proteins, carbohydrates, lipids, and water applicable to cellular and membrane phenomena. *Prerequisite:* Chem. 305.

CHEM. 403. (E.S. 300) Instrumental Analysis
(2,6) 4 Cr.

Instrumental methods of chemical analysis through study of theory and operation of instruments including spectrophotometric, electroanalytical and chromatographic methods. *Prerequisite:* Chem. 301 and Chem. 305.

CHEM. 405. Theoretical Chemistry
(3,0) 3 Cr.

Selected Topics in Theoretical Chemistry e.g., Statistical Mechanics and Quantum Mechanics and their applications to Chemical Systems; advanced chemical kinetics and solution chemistry. *Prerequisite:* Chem. 306.

CHEM. 410. Advanced Synthetic Techniques
(1,6) 3 Cr.

An introduction to advanced laboratory techniques via the synthesis and characterization of selected inorganic, organic and organometallic compounds. *Special Note:* Not available for graduate credit. *Prerequisite:* Chem. 400 or concurrent registration.

CHEM. 420. Nuclear Chemistry (2,3) 3 Cr.

Introduction to Nuclear Structure, radioactive decay, radiation chemistry, and radioisotope technique. *Prerequisite:* Chem. 301.

CHEM. 430. Organic Chemistry III
(3,0) 3 Cr.

A study of advanced topics in theoretical and physical organic chemistry with emphasis on reaction types, mechanism and structure. *Prerequisite:* Chem. 305.

CHEM. 495. Project
(See Project under Academic Regulations.)

CHEM. 499. Independent Study
(See Independent Study under Academic Regulations.)

COMPUTER SCIENCE

Computer Science courses are designed to provide students with knowledge to solve, by means of a computer, problems arising in many different disciplines. These courses will also introduce the students to theoretical concepts of computers and computer languages and prepare them for continuing work in the computer field and related fields.

Some of these courses are designed as service courses for students majoring in other disciplines where some knowledge of computers and computer programming will be required.

***C.S. 111. Introduction to Computer Science**
3 Cr.

Description of computers, concepts of languages and programming, with emphasis on the FORTRAN language.

***C.S. 112. Symbolic Language Programming**
3 Cr.

Basic concepts of machine and symbolic languages. One symbolic language will be covered in detail. *Prerequisite:* C.S. 111.

C.S. 211. Survey of Computer Languages
3 Cr.

Computer programming, in other languages such as COBOL, ALGOL, PL/1 or any other languages appropriate. Students will be required to do a term project in one of the languages. *Prerequisite:* C.S. 111.

C.S. 216. Methods of Structuring Data in Computers
3 Cr.

This course will cover basic concepts of data arrays, linear lists, string arrays, tree structures and storage systems. *Prerequisite:* C.S. 112.

C.S. 311. Computer Programming Application
3 Cr.

Numerical and statistical applications as applied to computer programming, including matrix algebra, polynomials, systems of equations, interpolation, correlations, regression analysis and analysis of variance. *Prerequisite:* C.S. 111.

*General-liberal

C.S. 312. Advanced Methods in Computer Applications
3 Cr.

Methods for solving problems on a computer in various disciplines such as Mathematics, Statistics, Sciences, etc. *Prerequisite:* C.S. 311.

C.S. 318. Simulation Techniques by Computer
3 Cr.

Survey of simulation techniques with application and a study of simulation languages. *Prerequisite:* C.S. 111.

C.S. 321. The Theory of Compilers
3 Cr.

Structure of languages for compilers. A study of linguistic techniques used in compiler writing. One compiler will be studied in detail. *Prerequisites:* C.S. 111 and C.S. 112.

C.S. 411. Information Retrieval
3 Cr.

Techniques and applications in information retrieval, search and matching techniques and automatic retrieval systems. *Prerequisite:* C.S. 216.

C.S. 414. List Processing Languages
3 Cr.

Techniques and applications in list processing and symbol manipulation. Survey of languages for these applications. *Prerequisite:* C.S. 111.

C.S. 435. Computer Seminar
3 Cr.

Topics will be selected from subjects not covered in formal courses. Students will be required to do a research paper and present it in class. *Prerequisite:* Permission of Instructor.

CRIMINAL JUSTICE**CRIM. JUST. 302. Community Issues in Criminal Justice (3) 3 Cr.**

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.

CRIM. JUST. 401. Seminar in Criminal Justice (3) 3 Cr.

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.

CRIM. JUST. 402. Advanced Administration in Criminal Justice (3) 3 Cr.

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.

CRIM. JUST. 406. Introduction to Correction Management (3) 3 Cr.

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.

CRIM. JUST. 495. Project (See Project under Academic Regulations.)**CRIM. JUST. 499. Independent Study (See Independent Study under Academic Regulations.)****DESIGN DEPARTMENT**

DES. 105. Introductory Design (4,2) 3 Cr.
Visual fundamentals via logical and intuitive approaches to pure form and natural sources; color; the development of individual solutions.

DES. 106. Exploratory Design (4,2) 3 Cr.
A continuation of the fundamentals of design in Des. 105, with an emphasis on developing personal statements in various media. *Prerequisite:* Des. 105.

DES. 107. Mechanical and Perspective Drawing (4,2) 3 Cr.
Descriptive drawing, including orthographic, isometric and perspective projection, as an aid in visualizing and planning the construction of three-dimensional art objects.

DES. 108. Form & Function (4,2) 3 Cr.
The practical application of 2 and 3 dimensional design principles towards the analysis, evolution and development of utilitarian forms in a changing environment. *Prerequisites:* Des. 105 and 106.

Numbers in parentheses indicate class and independent studio hours per week respectively.

DES. 109. Color, Light & Motion (4,2) 3 Cr.
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. *Prerequisite:* Des. 105 & 106 or Instructor's Permission.

DES. 110. Introduction to Pottery (4,2) 3 Cr.
Exploration of clay as a medium of expression. Experiences in the preparation of ceramic glazes; methods of forming; glaze application, firing; theory—Study of form, function.

DES. 111. Essentials of Design I (5,0) 3 Cr.
The nature of visual art; the creative process; aesthetic judgment; art's relation to contemporary culture; exploration of elements of design principally in two-dimensional media as they relate to expressive, creative, and functional applications.

DES. 112. Essentials of Design II (5,0) 3 Cr.
The development of expressive, creative, and functional forms primarily in three dimensions; refinement of skills in organization and presentation of design concepts; analysis and evaluation of historic and contemporary forms of design.

DES. 205. Design in Metal (4,2) 3 Cr.
Metalsmithing as a medium for expression and object design, utilizing the unique qualities of various metals and working techniques. *Prerequisite:* Des. 106.

DES. 206. Design in Fibers (4,2) 3 Cr.
An exploration of traditional and experimental techniques, using natural, synthetic, and created fibers in original textile design; weaving and related processes. *Prerequisite:* Des. 106.

DES. 207. Design in Wood (4,2) 3 Cr.
Wood as a medium for expression and object design; technical and aesthetic problems. *Prerequisite:* Des. 106.

DES. 209. Visual Communication (4,2) 3 Cr.
The foundations of effective visual communication and persuasion; the uses of sociological and psychological data in the selection of symbolic systems. Studio applications in the design of editorial, educational and promotional communications. *Prerequisite:* Des. 105.

DES. 210. Environmental Design (4,2) 3 Cr.
A study of our environment; home, neighborhood and community planning; problems in urban housing; design for commercial, industrial and public institutions.

DES. 217. Workshop in Crafts I (4,2) 3 Cr.
Creative experience in crafts, individual projects. *Classification:* Elective except for Art Majors.

DES. 218. Workshop in Crafts II (4,2) 3 Cr.
Individual projects to be undertaken beyond work covered in Des. 217. *Classification:* Elective except for Art Majors. *Prerequisite:* Des. 217.

DES. 220. Jewelry Making (4,2) 3 Cr.
Exploration of materials and processes in jewelry making, emphasizing creative design, stone setting, gem polishing, com-

binations with exotic woods. *Prerequisite:* Des. 106 or Des. 217.

DES. 221. Cast Jewelry (4,2) 3 Cr.
Design, materials and processes in casting jewelry in silver and gold. *Prerequisite:* Des. 106; Des. 220 desirable.

DES. 230. Advanced Design (4,2) 3 Cr.
The continued study of the origins, meanings, and dimensions of artistic form. Theoretical problems in two dimensional and multi dimensional problem areas. *Prerequisites:* Des. 105 & 106.

DES. 412. Pottery (4,2) 3 Cr.
A continued study of ceramic materials and processes of pottery; study of form and space, mass and volume; the effects of glaze, color, texture, and the fire. *Prerequisite:* Des. 110.

DES. 413. Ceramic Sculpture (4,2) 3 Cr.
Exploration of clay as a plastic sculptural medium; methods of forming, glazing, and firing; relief, freestanding, and architectural sculpture. *Prerequisite:* Des. 110.

DES. 415. Pottery 3-6 Cr. by arrangement
Advanced study of design and expression through the clay medium based on the needs and interests of the student. *Prerequisite:* Des. 110; Des. 412 desirable.

DES. 416. Advanced Studio in Wood Design 3-6 Cr. by arrangement
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. *Prerequisite:* Des. 207.

DES. 417. Textile Weaving (4,2) 3 Cr.
Advanced study and experience in textile fabrication for specific uses; designing for hand and machine processes in weaving; additional study in fibers; expressive and controlled design in woven fabrics; aesthetic considerations. *Prerequisite:* Des. 206.

DES. 418. Textile Printing (4,2) 3 Cr.
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. *Prerequisite:* Des. 206.

DES. 419. Applied Textile Techniques (4,2) 3 Cr.

Advanced exploration in such applied textile techniques as creative stitchery and embroidery, appliqued forms, knotting and hooking; combinations of these; for utilitarian and expressive purposes; experience in making of wall hangings, room dividers, special fabrics. *Prerequisite:* Des. 206.

DES. 420. Advanced Studio in Textile Design (4,2) 3 Cr.

Exploration of various design techniques on an advanced level; concentration in individually-selected projects or areas of textile design; weaving, printing, applique, and other traditional and experimental techniques according to student interest and need. *Prerequisite:* Des. 206; Des. 417, 418, 419 desirable.

DES. 421. Metalsmithing (4,2) 3 Cr.

Advanced experience in metalsmithing as a continuation of forming techniques introduced in Des. 205, with the addition of others, including the possibility of metal spinning; concentration in metal-working areas of special interest to the student; enameling on metals. *Prerequisite:* Des. 205.

DES. 426. Advanced Studio in Jewelry 3-6 Cr. by arrangement

Advanced exploration of materials and processes used in jewelry making, with increasing emphasis on design aspects; individually selected projects; use of unusual techniques. *Prerequisite:* Des. 220; Des. 221 desirable.

DES. 427. Advertising Design (4,2) 3 Cr.

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. *Prerequisite:* Des. 209.

DES. 428. Graphic Design (4,2) 3 Cr.

Advanced problems in advertising, publication, and packaging design; materials, techniques and processes used in the preparation of visuals, design presenta-

tions, and mechanicals; stress on individual solutions to problems encountered by the graphic designer. *Prerequisite:* Des. 209.

DES. 429. Illustration (4,2) 3 Cr.

Advanced problems in advertising, editorial, and technical illustration, in black and white and color, and carried out in various media used in illustration today; development of personal style. *Prerequisite:* Des. 427.

DES. 433. Product Design (4,2) 3 Cr.

Design and development of useful products to meet the needs of man and his environment. Problems explore function, human factors; aesthetics and production technology. *Prerequisite:* Des. 106 and 107.

DES. 436. Interior Design (4,2) 3 Cr.

Design problems related to the interiors of homes and public buildings; furniture and accessories; sketches, floor plans, and models as needed; visits to shops and manufacturers; practical design solutions for existing situations. *Prerequisite:* Des. 210.

DES. 442. Scenography (4,2) 3 Cr.

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 working drawings and the making of models.

DES. 443. Advanced Scenography 3-6 Cr. by arrangement

Advanced theater design, individualized study and research in the poetry of the stage setting; practical work in the design, construction, and painting of stage settings related to actual performances. *Prerequisite:* Des. 442, or special permission.

DES. 495. Project

(See Project under Academic Regulations.)

DES. 499. Independent Study

(See Independent Study under Academic Regulations.)

ECONOMICS DEPARTMENT

ECON. 101. The Economic System (3) 3 Cr.

A one semester course describing the basic economic processes, the fundamental concepts of economics, the major institutions in the American economy, the role of government, and the determinants of the level of national economic welfare. *Classification:* Elective for students who do not plan to take additional courses in Economics.

ECON. 103. Economic History of the United States (3) 3 Cr.

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. *Classification:* Elective.

ECON. 201. Principles of Economics (3) 3 Cr.

Basic concepts of the economic system; analysis of national income components; determination of the level of national income; money and banking; monetary and fiscal policies; foreign trade. *Classification:* Elective for all students.

ECON. 202. Principles of Economics (3) 3 Cr.

The factors of production and their organization for production; corporations; their organization and their use of stocks and bonds to raise capital; the role of demand and supply determining prices; competition; pricing of factors of production and income distribution. *Classification:* Elective for all students.

ECON. 205. Statistics for Economics (2,2) 3 Cr.

Development of statistical tools for applied economic research. Use of the calculating machine and the computer in simple and multiple regression analysis; index numbers and time series; analysis of variance; construction of large scale economic models; identification, causal ordering, and estimation in economic models; multi-collinearity and the use of *a priori* information in economic models. *Classification:* Required course for those

Number in parentheses indicates the class hours per week.

planning to major in Economics. *Prerequisite:* College Algebra or equivalent.

ECON. 212. Principles of Accounting (3) 3 Cr.

An introduction to accounting as an information system. Emphasis will be placed on concepts and limitations rather than on bookkeeping techniques. *Classification:* Elective for all students.

ECON. 301. Labor Relations (3) 3 Cr.

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. *Classification:* Elective for juniors and seniors.

ECON. 302. Labor Economics (3) 3 Cr.

The structure of the work force and the factors which influence its size, productivity, employment, and wage rates; an evaluation of the various theories of population, unemployment and wages; contemporary problems related to wage policy and its effect on inflation and employment. *Classification:* Elective for juniors and seniors. *Prerequisite:* Econ. 201-202, or consent of the instructor.

ECON. 304. Money and Banking (3) 3 Cr.

The nature and function of money; the American monetary system and the role of the banking system in creating the nation's money supply; the structure and functions of the Federal Reserve System as the principal agency for monetary control; 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. *Classification:* Elective for juniors and seniors. *Prerequisite:* Econ. 201-202 or consent of the instructor.

ECON. 305. Public Finance (3) 3 Cr.

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 inter-governmental fiscal relations. *Classification:* Elective for sophomores, juniors, and seniors. *Prerequisite:* Econ. 201 or 202, or consent of instructor.

ECON. 307. Intermediate Microeconomics (3) 3 Cr.

Analysis of the pricing process under differing market conditions of competition and monopoly and its function in resources allocation and income distribution. Elementary application of the differential calculus and linear algebra but limited to its introduction. *Classification:* Required course for Economics majors. *Prerequisite:* Econ. 202.

ECON. 308. Intermediate Macroeconomics (3) 3 Cr.

National income accounting; determination of aggregate income and employment; the classical approach to macroeconomics; inflation; business cycle theories and models; forecasting economic growth; policies for stabilization. *Classification:* Required for Econ. majors. *Prerequisite:* Econ. 201 or consent of the instructor.

ECON. 310. Economics of Poverty (3) 3 Cr.

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. *Classification:* Elective.

ECON. 312. Economics of Discrimination (3) 3 Cr.

A review and analysis of the economics consequences of discrimination by race, religion or sex. This includes social and private costs, impacts on labor and housing markets and policy alternatives. *Classification:* Elective.

ECON. 401. International Economics (3) 3 Cr.

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. *Classification:* Elective for juniors and seniors. *Prerequisite:* Econ. 201-202 or consent of the instructor. *Special Note:* May be elected by graduate students.

ECON. 402. Seminar in Current Economic Problems (3) 3 Cr.

Readings, discussion and research on current economic problems. Topics to be selected by the seminar. *Classification:* Required for Econ. majors. *Prerequisite:* Econ. 307 and 308.

ECON. 403. Comparative Economic Systems (3) 3 Cr.

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. *Classification:* Elective for juniors and seniors. *Prerequisite:* Econ. 201-202 or equivalent. *Special Note:* May be elected by graduate students.

ECON. 405. History of Economic Thought (3) 3 Cr.

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. *Classification:* Elective for juniors and seniors. Required course for those planning to major in Economics. *Prerequisite:* Econ. 201-202 or the equivalent. *Special Note:* May be elected by graduate students.

ECON. 407. Economics of Latin America (3) 3 Cr.

Latin American economic development, economic integration, balance of payments problems, investment criteria in private and public sectors, programming and planning, agricultural development problems. *Classification:* Elective for juniors and seniors. *Prerequisite:* Consent of the instructor. *Special Note:* May be elected by graduate students.

ECON. 409. Economic Development (3) 3 Cr.

The determinants of economic development in low-income countries; analysis and comparison of alternative models and theories of economic development, and an appraisal of their effectiveness in providing understanding and guidance for policy; the relevance of non-economic factors for economic development including institutional and cultural ones. *Classification:* Elective for juniors and seniors. *Prerequisite:* Econ. 201-202 or consent of the instructor. *Special Note:* May be elected by graduate students.

BEHAVIORAL STUDIES DEPARTMENT

Special Note: Ed. 101, 102, 103 and 104 are not offered this year. Those students who were required to take Ed. 101-102 will now take Ed. 210 and one from the following: Ed. 250, 251, 252. Those students who were required to take Ed. 103-104 will now take Ed. 220 and 203, in that sequence.

ED. 203. Educational Psychology for Secondary Majors (3) 3 Cr.

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, Home Economics and I.A. sophomores. Elective for other secondary majors. *Prerequisites:* Psychology 101, HDFCR 109; Ed. 210. *Special Note:* This course emphasizes the application of Educational Psychological principles to the secondary level of teaching.

ED. 204. Educational Psychology for Elementary Majors (3) 3 Cr.

Psychological principles underlying learning and effective teaching; the effect of

ECON. 412. Urban Economics (3) 3 Cr.

Urban economic development including land use, regional income inequalities, employment patterns, transportation needs and housing markets. *Classification:* Elective for juniors and seniors. *Prerequisite:* Econ. 202 or consent of the instructor. *Special Note:* May be elected by graduate students.

ECON. 495. Project

(See Project under Academic Regulations.)

ECON. 499. Independent Study

(See Independent Study under Academic Regulations.)

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:* All college elective for sophomores, juniors and seniors. *Prerequisites:* Ed. 210 or equivalent. *Special Note:* This course emphasizes the application of Educational Psychological principles to the elementary level of teaching.

ED. 206. Introduction to the Group Experience (3) 3 Cr.

Exploration and development of basic attitudes, understandings and skills involved in democratic group participation through laboratory and academic experiences. *Classification:* Elective. *Prerequisite:* Ed. 210 and 250, 251 or 252, Ed. 220 and 203 and/or Psych. 101 and/or HDFCR 109 and 209.

ED. 207. Seminar on Higher Education (3) 3 Cr.

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 free-

Number in parentheses indicates class hours per week.

dom for students and faculty, curriculum, teaching, rights and responsibilities, leadership, organization and the place of the university regarding social problems. *Classification:* Elective.

ED. 208. Seminar on the College Student (3) 3 Cr.

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. *Classification:* Elective.

ED. 210. Introduction to Human Development (3) 3 Cr.

An introduction to human behavior and development with emphasis on implications for elementary education. 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. *Classification:* Required of E.E. majors and Ex. Ed. majors according to program at the sophomore or higher level. *Prerequisite:* None. This is a required foundations course for E.E. students, and can be taken as an elective by students in other programs beyond the freshman level.

ED. 220. Adolescent Development for Secondary Teachers (3) 3 Cr.

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. *Classification:* Required of Secondary Education majors according to program; elective for others beyond the freshman level. *Prerequisite:* None. This is a foundations course for secondary education majors.

ED. 230. Statistics for the Classroom Teacher (3) 3 Cr.

An introduction to the use of statistics in educational research. Collection and graphic presentation of statistical data of relevance to the teacher—mostly interval data. Basic concepts of central tendency, variability, percentiles and standard scores. The meaning of correlation and its application in standardized and teacher-made tests. Introduction to probability theory, sampling theory and statistical tests of significance. Emphasis is placed on the classroom application of statistical concepts, and the interpretation of statistical conclusions of related studies. *Classification:* All college elective. *Prerequisites:* None. *Special Note:* The course is considered especially beneficial to those planning to work toward a master's degree.

ED. 235. Introduction to Educational Research (3) 3 Cr.

Introduction to research methods and techniques appropriate to educational research. Experimental and non-experimental methods. Elements of research problems, related testable hypotheses, methodology, analysis and interpretation of data, appropriateness of conclusions. Characteristics of good educational research. Samples and inferences about populations. Hypothesis testing. The student will be encouraged to plan and carry out his own research. *Classification:* All college elective. *Prerequisite:* None. *Special Note:* The course is especially beneficial to those planning to work toward a master's degree and interested in conducting research projects.

ED. 250. Human Development During Early Childhood (3) 3 Cr.

A consideration of behavior and development during early childhood with emphasis on teaching/learning implications. 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. *Classification:* Required of E.E. and Ex. Ed. majors; permissible substitutions — Ed. 251, 252; elective for others. *Prerequisite:* Ed. 210.

ED. 251. Human Development During Elementary School Years (3) 3 Cr.

A consideration of child development and behavior with emphasis on teaching/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. *Classification:* Required of E.E. and Ex. Ed. majors; permissible substitutions Ed. 250, 252; elective for others. *Prerequisite:* Ed. 210.

ED. 252. Human Development During Pre-Adolescence and Adolescence (3) 3 Cr.

A consideration of pre-adolescent and 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 adolescent behavior and development, and an analysis of learning in home, community, and middle/junior high school settings. *Classification:* Required of E.E. and Ex. Ed. majors; permissible substitutions — Ed. 250, 251; elective for others. *Prerequisite:* Ed. 210.

ED. 411. Evaluation in Education (3) 3 Cr.

Background and current status of evaluation, principles, purposes and procedures of evaluation, effective interpretation and use of evaluative data; methods of recording and reporting pupil progress. *Classification:* Elective for juniors and seniors. *Special Note:* May be elected by graduate students.

ED. 415. Seminar in Early Childhood Education (3) 3 Cr.

Curriculum development for children from three through eight; historical development; current problems and research; instructional materials and procedures; equipment; evaluating children's progress. *Classification:* Elective for juniors and seniors. *Prerequisite:* Ed. 210; 250, 251 or 252; 201 and 202. *Special*

Note: May be elected by graduate students in the teaching of young children.

ED. 425. The Family and the Elementary School (3) 3 Cr.

Brief historical perspective on concepts which have influenced contemporary family life; changes in attitudes between members of the contemporary family; dynamics of small and large group techniques in working with parents and children; family counselling, nutrition for elementary school children, sex education, and leisure time activities. *Classification:* Electives for juniors and seniors. *Prerequisites:* Ed. 210; 250, 251 or 252; 201 and 202. *Special Note:* May be elected by graduate students.

ED. 427. Community Services for Young Children (4) 3 Cr.

Current social and economic trends affecting the lives of young children; organization and administration of community services; planning and development of community services for young children; interaction of community services with public school programs, field trips and discussions with professional people at work in community organizations will augment lectures and readings. One or more experiences working in a community organization during the semester. *Classification:* Elective for juniors and seniors. *Prerequisite:* Ed. 210; 250, 251 or 252; 201 and 202. *Special Note:* May be elected by graduate students.

ED. 428. Sociodrama and Role Playing in Education (3) 3 Cr.

Theory and practice of sociodramatic principles and techniques in the educational setting. Laboratory experience. *Classification:* Elective.

ED. 495. Project

(See Project under Academic Regulations.)

ED. 499. Independent Study

(See Independent Study under Academic Regulations.)

CURRICULUM AND INSTRUCTION DEPARTMENT

ED. 202. Teaching the Language Arts (4) 3 Cr.

Teaching the language arts in the elementary school with special emphasis on the teaching of reading; foundations of learning; language development; various aspects of the language arts in elementary education. Directed observation and participation in school classrooms; laboratory experience for developing specific professional competencies. *Classification:* Restricted to E.E. students and Ex. Ed. students in Mental Retardation, Physical Handicap, Learning and Behavioral Disorders. *Prerequisite:* Ed. 210, 201.

ED. 301. The Teaching of Social Studies, Science and Mathematics (9) 6 Cr.

Selecting, organizing and presenting elementary school science, mathematics, and social studies materials; evaluation pupil progress; further experience in elementary school teaching; observation and classroom participation. *Classification:* Restricted to full-time E.E. students. *Prerequisite:* Ed. 210; 250, 251, or 252; 201; 202; cumulative average of 2.00 or higher.

ED. 305. The Child and the Curriculum (9) 3 Cr.

Methods and materials for teaching mathematics, social studies, and science in the elementary school; selection, organization and evaluation of learning experiences; practical classroom experience in working with children. *Classification:* Required of Ex. Ed. juniors majoring in Mental Retardation, Physical Handicap, Learning and Behavioral Disorders. *Prerequisite:* Ed. 210; 250, 251, or 252; 201, 202; cumulative average of 2.00 or higher. *Special Note:* one-half semester.

ED. 402. Seminar in Education (3) 3 Cr. Nature and function of a philosophy of education; study of teaching; research methods and techniques; crucial issues in education; problems of beginning teachers. *Classification:* To be taken concurrently with or subsequent to Ed. 401.

ED. 414. The Teaching of Reading (3) 3 Cr. Importance of reading in present day society, research in child development and learning and its implication for the teaching of reading; trends in the teaching of reading; development levels of reading; reading in the content areas; methods and materials; evaluation and guidance of pupil growth in reading. *Classification:* Required for E.E. majors and Ex. Ed. majors in Mental Retardation, Physical Handicap, Learning and Behavioral Disorders. *Prerequisite:* Ed. 202 or equivalent. *Special Note:* May be elected by graduate students.

ED. 418. Media in Education (4) 3 Cr. 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. *Special Note:* May be elected by graduate students.

ED. 419. Methods and Materials in the Elementary School (3) 3 Cr. 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. *Classification:* Elective for juniors and seniors. *Prerequisite:* 301 or equivalent. *Special Note:* May be elected by graduate students.

ED. 420. Teaching Language Arts in the Elementary School (3) 3 Cr. Factors that influence language growth; interrelationship of the language arts, skills of spelling, reading, speaking, writing, handwriting, listening; factors affecting creative writing, creative dramatics, choral speaking, and leisure reading; developmental language arts program. *Prerequisite:* Ed. 202

ED. 459. Analysis Systems in Education (3) 3 Cr. The course helps students develop skill in the objective appraisal of teaching/learn-

Number in parentheses indicates class hours per week.

ing by the use of systems developed by Mager, McAshan, Kibler, Withall, Amidon, Flanders, Galloway, Burkhart, Rogers, and Medley.

ED. 460. Mathematics Curriculum in the Elementary School (3) 3 Cr.

Attention will be focused upon instructional strategies and innovative programs which emphasize approaches, techniques and materials which have been developed and designed for the teaching of mathematics to elementary school children.

The use of instructional modules will provide for independently structured activities and enable each participant to systematically assess their individual growth and progress. *Prerequisite:* Math. 121-122.

ED. 495. Project
(See Project under Academic Regulations.)

ED. 499. Independent Study
(See Independent Study under Academic Regulations.)

FOUNDATIONS OF EDUCATION DEPARTMENT

ED. 201. School and Society (3) 3 Cr. 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. *Classification:* Required of E.E. and Ex. Ed. sophomores in Mental Retardation, Physical Handicap, Learning and Behavioral Disorders. *Prerequisite:* Ed. 210 and Ed. 250, 251, or 252.

ED. 403. Historical and Philosophical Forces Influencing Secondary Education (3) 3 Cr.

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. *Special Note:* Taken concurrently with Ed. 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.

ED. 410. Philosophy of Education (3) 3 Cr. 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. *Classification:* Elective for juniors and seniors. *Special Note:* May be elected by graduate students.

ED. 412. Comparative Education (3) 3 Cr. 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. *Classification:* Elective for juniors and seniors. *Special Note:* May be elected by graduate students.

ED. 423. Comparative Educational Systems of Western Europe 8 Cr.

International living tour; approximately eight weeks spent in Western Europe; homestay with family in one country for three weeks; study and comparison of selected educational systems; visits to university, library, cultural, and historical centers. *Classification:* Elective for seniors and graduate students. *Prerequisite:* Participants must meet entrance requirements of State University College at Buffalo, and must meet the standards ap-

plied by the State University of New York and the Experiment in International Living. *Special Note:* By special arrangement, up to four hours of credit may be applied as Social Studies credit. Permission of instructor to be obtained before enrollment in course.

STUDENT TEACHING DEPARTMENT

ED. 401. Practicum in Teaching (30) 12 Cr.
Teaching under supervision in elementary grades five days per week; group and individual conferences; individual and group instruction; daily and long-view planning; teacher-pupil planning; unit teaching; classroom management; routine procedures; audio-visual aids; community resources; record keeping; evaluation techniques; participation in total school

SOCIAL STUDIES EDUCATION DEPARTMENT

***S.S. 102. Man and His Institutions (3) 3 Cr.**

Human institutions, their structure, function and interrelationship, attention centered on family, religion, polity and economy. *Classification:* elective.

ED. 309. Methods and Materials in Teaching Secondary School Social Studies (4) 3 Cr.

Selecting, organizing and presenting curriculum materials; teacher-pupil relationships; evaluating pupil progress; introduction to classroom teaching; observation and participation in the secondary school; conferences with instructor and classroom teachers. *Classification:* Required of juniors and seniors majoring in secondary school Social Studies. *Prerequisite:* Ed. 220, 203; cumulative average of 2.00 or higher; approval by the Coordinator of Social Studies Student Teaching.

ED. 409. Practicum in the Teaching of Social Studies in the Secondary School (30) 12 Cr.

Teaching under supervision at least five days per week; group and individual conferences at college two days dur-

*General-liberal

ED. 495. Project
(See Project under Academic Regulations.)

ED. 499. Independent Study
(See Independent Study under Academic Regulations.)

program. *Classification:* Restricted to full-time E. E. juniors or seniors or with special permission of the Director. *Prerequisite:* Ed. 301; grade of "C" or higher in Ed. 301, cumulative and previous semester average of "C" or higher in the professional education sequence; overall cumulative of 2.0; passing grade in Eng. 101-102, or equivalent; if referred, satisfactory completion, or exemption from Ex. Ed. 100 (Student Speech Clinic.)

ing each of two eight-week assignments; 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. *Classification:* Required of juniors or seniors majoring in Secondary School Social Studies. *Prerequisite:* Ed. 309; grade of "C" or higher in Ed. 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 Ex.Ed. 100 (Student Speech Clinic); approval by the Coordinator of Social Studies student teaching.

S.S. ED. 495. Project
(See Project under Academic Regulations.)

S.S. ED. 499. Independent Study
(See Independent Study under Academic Regulations.)

ENGINEERING TECHNOLOGY DEPARTMENT

E.T. 201. Mechanics I 3 Cr.

Study of the basic concepts of statics and kinematics of rigid bodies; application of Newton's three laws of motion; vector analysis; application of theoretical mechanical concepts. *Classification:* Required of E.T. majors.

E.T. 202. Mechanics II 3 Cr.

Study of the basic concepts of dynamic systems under conditions of impact, momentum and total energy; force and reaction as it pertains to elastic bodies; laboratory application of mechanical principles. *Classification:* Required of E.T. majors. *Prerequisite:* E.T. 201.

E.T. 301. Thermodynamics and Heat Transfer 3 Cr.

The principles of engineering, thermodynamics and heat transfer and the application of these principles to heat-power systems; first law, second law and analysis of thermodynamic cycles. *Classification:* Required of E.T. majors. *Prerequisite:* Physics 102 or equivalent.

E.T. 311. Technical Design I 3 Cr.

Principles and concepts involved in materials application to production design. Investigation of support materials and operations required in the constructions of a design; fundamental requirements of successful technical designs. *Classification:* Required of E.T. majors. *Prerequisite:* E.T. 202.

E.T. 312. Technical Design II 3 Cr.

Creation of a design from proposal to working drawing to production. Fabrication and testing; design should be in

student's major field. *Classification:* Required of E.T. majors. *Prerequisite:* E.T. 301.

E.T. 351. Electronics 3 Cr.

Electronic components, electronic circuit theory, equivalent circuits of components; sketching circuits; electronic systems, continuous and discrete; experimental design and testing. *Classification:* Required of E.T. majors. *Prerequisite:* E.T. 152.

E.T. 352. Networks 3 Cr.

Circuit theorems; loci techniques; bridges and bridge networks; filters and filter design; coupled circuits and transformers; signal flow graph analysis; response and response measurement; computer aided circuit design. *Classification:* Required of E.T. majors. *Prerequisite:* E.T. 152, CS-111.

E.T. 411. Instrumentation 3 Cr.

Physical phenomena as applied to measurement; units, standards, and accuracy associated with calibration; theory and application of practical measurement; instruments used in analysis and instrumentation for control; controllers and recorders. *Classification:* Required of E.T. majors. *Prerequisite:* E.T. 352.

E.T. 421. Control Technology I 3 Cr.

Elements of control systems; transfer functions and control systems analysis; application of control systems in laboratory, computer simulation and stability analysis. *Classification:* Required of E.T. majors. *Prerequisite:* E.T. 152, E.T. 202, and CS-311.

ENGLISH DEPARTMENT

ENG. 098. Understanding English Language (3) 3 Cr.

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. Emphasizes the effective use of sentence patterns to express ideas, the development of a sense of the present, past and

future tenses, and such technical aspects of the language as subject-predicate agreement, faulty pronoun reference, and effective pronunciation.

ENG. 099. Critical Writing (3) 3 Cr.

An introductory course designed to reinforce sentence and paragraph structure through emphasis on: unity, consistency,

Number in parentheses indicates class hours per week.

order and coherence. Styles developed and practiced include narrative, descriptive, expository and argumentative. Requirements encompass several themes plus a research paper.

ENG. 100. English Composition (3) 3 Cr.†
Readings in expository prose; emphasis on basic rhetorical principles; writing assignments including the research paper.

ENG. 101. Composition and Language (3) 3 Cr.

An introduction to the study of language as a basis for understanding the relationship of speech and writing, with selected topics for composition on aspects of the English language. *Prerequisite:* English 100 or equivalent. *Special Note:* Students taking 101 may not receive credit for 102 or 103.

ENG. 102. Composition and Literature (3) 3 Cr.

Readings in poetry, fiction, drama, and criticism, with emphasis on the techniques of analyzing and writing about literature. *Prerequisite:* English 100 or equivalent. *Special Note:* Students taking 102 may not receive credit for 101 or 103.

ENG. 103. Composition and Mass Media (3) 3 Cr.

Readings, discussion, and written assignments to increase knowledge of the mass media and to develop standards of selection, of critical analysis, and aesthetic discrimination for using them effectively. *Prerequisite:* English 100 or equivalent. *Special Note:* Students taking 103 may not receive credit for 101 or 102.

ENG. 110. (107). English Literature to 1660 (3) 3 Cr.

Major British writers from Chaucer through Milton, with emphasis on poetry.

ENG. 111. (108). English Literature: 1660-1900 (3) 3 Cr.

Major British writers from Dryden through Hardy.

ENG. 130. Biblical and Classical Literature (3) 3 Cr.

Greek, Roman, and Biblical literature

†Required of all students who have not demonstrated a mastery of composition on their entrance tests.

and mythology with a special view toward influence on western literature.

ENG. 131. (205). European Literature: Medieval and Renaissance (3) 3 Cr.

Writers such as Dante, Boccaccio, Rabelais and Cervantes.

ENG. 132. (214). European Literature: Post-Renaissance (3) 3 Cr.

Writers such as Voltaire, Goethe, Flaubert, Dostoevsky, Kafka and Camus.

ENG. 140. (109). American Literature to 1860 (3) 3 Cr.

From Puritan and Colonial writers through the later poetry of Whitman.

ENG. 141. (110). American Literature since 1860 (3) 3 Cr.

From the later poetry of Whitman through realistic and naturalistic fiction to contemporary writers.

ENG. 180. (208). Introduction to Folklore (3) 3 Cr.

Nature, forms, and meanings of folklore; functions in society.

ENG. 201. Intermediate Composition (3) 3 Cr.

An expository writing course intended for students exempted from the required freshman composition course and for non-majors. *Classification:* not open to majors.

ENG. 202. (217). Mass Media (3) 3 Cr.

Historical development, present patterns, potentialities in a climate of freedom and responsibility; standards of critical analysis, aesthetic discrimination, and intelligent selection in using media; responsibility of relevant groups for media development.

ENG. 203. (220). Creative Writing (3) 3 Cr.

An introductory course in poetry and/or fiction. Genre emphasis may vary according to the instructor. *Classification:* open only to students who have satisfied the freshman writing requirement.

ENG. 205. History of Cinema I (3,1) 3 Cr.

A broad survey of the development of

the motion picture from its earliest forms in the 1890's to the appearance of sound.

ENG. 206. History of Cinema II (3,1) 3 Cr.

A survey of the development of the motion picture from the inception of sound to the present.

ENG. 230. (330). Comparative Literature (3) 3 Cr.

The comparison of ideas, themes, and theories in world literature. Figures such as Faust, Oedipus, Joan of Arc, and Ulysses are studied as they are treated by various writers.

ENG. 240. (339). Afro-American Literature to 1940 (3) 3 Cr.

Survey of Black American'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) 3 Cr.

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. (222). The Critical Process (3) 3 Cr.

A process-oriented 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. 251. Forms and Genres of Poetry (3) 3 Cr.

Study of the verbal and formal techniques of English and American poetry; prosody, verse forms, conventions, genres, diction and imagery.

ENG. 252. (312). Literature in English: 1900-1945 (3) 3 Cr.

Significant British and/or American literature: poetry, fiction, drama. Genre emphasis may vary according to the instructor.

ENG. 253. (313). Literature in English since 1945 (3) 3 Cr.

Significant British and/or American literature: poetry, fiction, drama. Genre emphasis may vary according to the instructor.

ENG. 260. (210). Children's Literature (3) 3 Cr.

Types of children's literature; folklore, informative material, fiction, biography, and poetry; principles of book selection; illustration, format; reading interests of children; story telling; bibliography.

ENG. 280. (340). American Folklore (3) 3 Cr.

Introduction to folklore with emphasis upon American folklore; collecting techniques; evaluations and interpretive procedures; literary uses of folklore.

ENG. 300. (440). Writing for the Professions (3) 3 Cr.

Designed for those students who wish to improve their competence in technical and semi-technical exposition, professional writing, report writing, and technical editing. *Prerequisite:* six hours of literature or writing courses and fulfillment of the freshman writing requirement.

ENG. 301. (201). Advanced Composition (3) 3 Cr.

Usage and the art of writing; practice with long and short papers; readings in contemporary prose. *Classification:* open to English majors only. *Prerequisite:* six hours of literature or writing courses and fulfillment of the freshman writing requirements.

ENG. 302. (325). Journalism (3) 3 Cr.

News, feature, and editorial writing; copy reading; makeup; advertising; public relations. *Prerequisite:* six hours of literature or writing courses and fulfillment of the freshman writing requirement.

ENG. 303. (319). Literature in the Film (3,1) 3 Cr.

A study of the motion picture as a vehicle for literature. Analysis and comparison of the printed and visual forms. *Prerequisite:* six hours of English courses.

ENG. 304. Forms of the Film (3,1) 3 Cr.

A writing in breadth and depth of selected specific film forms. Emphasis on the form as art, medium of communication, and social document. *Prerequisite:* six hours of English courses.

ENG. 315. Shakespeare (3) 3 Cr.

A selection of comedies, tragedies, and history plays with emphasis on the early plays. *Prerequisite:* six hours of literature courses.

ENG. 316. Shakespeare (3) 3 Cr.

A selection of comedies, tragedies, and history plays with emphasis on the later plays. *Prerequisite:* six hours of literature courses.

ENG. 331. (Fr. 331). French Literature in Translation (3) 3 Cr.

Selected masterpieces of French literature in translation: novels, poetry, plays, and essays. *Prerequisite:* six hours of literature courses. *Special Note:* French majors must obtain the approval of both their department chairman and the instructor.

ENG. 332. (Russ. 332). Russian Literature in Translation (3) 3 Cr.

Such writers as Gogol, Pushkin, Turgenev, Goncharov, Tolstoy, Dostoevsky, Chekhov, Gorky, Bunin, and Pasternak; relationships to western European literature. *Prerequisite:* six hours of literature courses.

ENG. 333. Yiddish Literature in Translation (3) 3 Cr.

Sholom Aleichem, I. L. Peretz, Sholom Ash, I. J. Singer, Morris Rosenfeld and others; relationships to East European and American literature and culture. *Prerequisite:* six hours of literature courses.

ENG. 335. (Ital. 335). Italian Renaissance Literature in Translation (3) 3 Cr.

The development of humanism from Petrarch to Tasso. *Prerequisite:* six hours of literature courses.

ENG. 336. (Ital. 336). Modern Italian Literature in Translation (3) 3 Cr.

Major writers and cultural movements since Italian unification. *Prerequisite:* six hours of literature courses.

ENG. 350. (203). Drama: Ibsen to 1945 (3) 3 Cr.

Naturalism, Symbolism, Expressionism and Lyric Theatre, including such writers as Ibsen, Strindberg, Chekhov, Shaw, O'Neill, Pirandello, and Brecht. *Prerequisite:* six hours of literature courses.

ENG. 351. Drama since 1945 (3,1) 3 Cr.

Contemporary realistic, surrealist, absurdist and ritual drama, including such writers as Duerrenmatt, Frisch, Miller, Genet, Ionesco, Beckett, Albee and Pinter. *Prerequisite:* six hours of literature courses.

ENG. 355. (308). The Short Story (3) 3 Cr.

Development of the short story in England and America. *Prerequisite:* six hours of literature courses.

ENG. 402. Advanced Creative Writing: Fiction (3) 3 Cr.

Creative workshop in longer forms of fiction and imaginative prose, such as novella, the novel, journal, personal reminiscence. Readings and step by step evaluation of discretionary projects under professional guidance. *Prerequisite:* Eng. 222 or consent of instructor.

ENG. 403. Creative Writing: Poetry (3) 3 Cr.

A workshop for students experienced and/or talented in the writing of poetry. Admission by instructor's permission based on manuscript of five poems, to be handed in prior to registration.

ENG. 404. Studies in Cinema (3,1) 3 Cr.

An analytical, in-depth study of a film genre, performer, director, or period. *Prerequisite:* at least one lower-level film course.

ENG. 410. (400). Medieval English Literature (3) 3 Cr.

The range of non-Chaucerian medieval prose and poetry. *Prerequisite:* nine hours of literature courses.

ENG. 411. (405). Chaucer (3) 3 Cr.

Representative works of Chaucer; the lyrics, minor poems, and either *Canterbury Tales* or *Troilus and Criseyde*, with attention to their meaning in terms of medieval literary theory and conventions. *Prerequisite:* nine hours of literature courses.

ENG. 412. (545). Spenser (3) 3 Cr.

A reading of the *Faerie Queene* and lyric poems with attention to the problems they pose for modern readers and in terms of their influence on literary history. *Prerequisite:* nine hours of literature courses.

ENG. 413. (409). Milton (3) 3 Cr.

Prose and poetry of Milton with emphasis on *Paradise Lost*; the background of Milton's writings. *Prerequisite:* nine hours of literature courses.

ENG. 414. (317). Sixteenth Century English Literature (3) 3 Cr.

Survey of the non-dramatic literature; development of the lyric and prose styles; nature and influences of the Renaissance and Reformation. *Prerequisite:* nine hours of literature courses.

ENG. 415. (411). Seventeenth Century English Literature (3) 3 Cr.

Emphasis on developments in prose and lyric poetry; effects on literature of new science, the Puritans and the restoration; Ben Jonson, Bacon, Donne, Herbert, Marvell, Dryden and others. *Prerequisite:* nine hours of literature courses.

ENG. 416. (426). Eighteenth Century English Literature (3) 3 Cr.

Poetry, prose, and drama, including Defoe, Pope, Swift, Johnson, Burns, Blake, and others. *Prerequisite:* nine hours of literature courses.

ENG. 417. (402). English Novel to 1800 (3) 3 Cr.

Origins of the English novel; major eighteenth century novelists such as Defoe, Richardson, Fielding, and Sterne. *Prerequisite:* nine hours of literature courses.

ENG. 418. (406). English Novel: 1800-1900 (3) 3 Cr.

The development of the novel in the nineteenth century: Scott, Dickens, Thackeray, Eliot, Trollope, and Hardy. *Prerequisite:* nine hours of literature courses.

ENG. 419. (307). Romantic Movement in English Literature (3) 3 Cr.

Romantic prose and poetry; Burns,

Wordsworth, Coleridge, Scott, Byron, Shelley, Keats; critics of the period. *Prerequisite:* nine hours of literature courses.

ENG. 420. (422/423). Early Victorian Literature (3) 3 Cr.

Emphasis upon Tennyson, Browning, Carlyle, Newman, and Macaulay. *Prerequisite:* nine hours of literature courses.

ENG. 421. (422/423). Later Victorian Literature (3) 3 Cr.

Emphasis upon Arnold, Mill, Ruskin, Pater, and Pre-Raphaelites, and the Decadents. *Prerequisite:* nine hours of literature courses.

ENG. 422. (314). James Joyce and His Contemporaries (3) 3 Cr.

The major fiction of James Joyce; supplemental readings in such writers as Joseph Conrad, D. H. Lawrence, and Virginia Woolf. *Prerequisite:* nine hours of literature courses.

ENG. 430. (401). Literature of the Bible (3) 3 Cr.

Selected writings of the Old and New Testaments studied as literature; Biblical poetry and prose; influence of Bible translations on the English language. *Prerequisite:* nine hours of literature courses.

ENG. 432. (441). Comparative Drama: Tragedy (3,1) 3 Cr.

Nature of tragic drama in theory and practice from Aeschylus to the present. *Prerequisite:* nine hours of literature courses.

ENG. 439. (415). Philosophy in Literature (3) 3 Cr.

Major philosophical viewpoints in general literature; literary masterpieces with strong philosophic import. *Prerequisite:* nine hours of literature courses.

ENG. 440. (450). Colonial American Literature (3) 3 Cr.

A study of the themes and concerns of seventeenth and eighteenth century American writers, with emphasis on major writers: Anne Bradstreet, Edward Taylor, Cotton Mather, Jonathan Edwards, Benjamin Franklin, Charles Brockden Brown and Philip Freneau. *Prerequisite:* nine hours of literature courses.

ENG. 441. (212). Romantic Movement in American Literature (3) 3 Cr.

Nature of Romanticism; English and Continental European backgrounds; nineteenth century American writers including the Transcendentalists, Hawthorne, the Cambridge Poets, Melville, and Whitman. *Prerequisite*: nine hours of literature courses.

ENG. 442. (404). American Novel to 1900 (3) 3 Cr.

Early novel in America through late nineteenth century realistic writers: Cooper, Hawthorne, Melville, Twain, James, Howells, Crane and Norris. *Prerequisite*: nine hours of literature courses.

ENG. 450. (360). Studies in Poetry (3) 3 Cr.

Analysis of a selected aspect of poetry: theme, motif, philosophic idea, or literary movement in English, American, or world literature. *Classification*: English majors only; others by consent of instructor. *Prerequisite*: nine hours of literature courses.

ENG. 451. (361). Studies in Fiction (3) 3 Cr.
Analysis of a selected aspect of the novel: theme, motif, concept, or movement in English, American, or world literature. *Classification*: English majors only; others by consent of instructor. *Prerequisite*: nine hours of literature courses.

ENG. 452. (362). Studies in Drama (3,1) 3 Cr.

Analysis of a selected aspect of the drama; theme, motif, philosophic concept, or literary movement in English, American, or world drama. *Classification*: English majors only; others by consent of instructor. *Prerequisite*: nine hours of literature courses.

ENG. 453. Studies in Individual Writers (3) 3 Cr.

A seminar course on a particular writer, with oral presentations by students. *Classification*: English majors only; others by consent of instructor. *Prerequisite*: nine hours of literature courses.

ENG. 454. (407). The Novel in English: 1900-1945 (3) 3 Cr.

Major British and/or American novels;

their artistic and social significance. *Classification*: English majors only; others by consent of instructor. *Prerequisite*: nine hours of literature courses.

ENG. 455. The Novel in English since 1945. (3) 3 Cr.

Major British and/or American novels, their artistic and social significance. *Classification*: English majors only; others by consent of the instructor. *Prerequisite*: nine hours of literature courses.

ENG. 456. (211). Poetry in English: 1900-1945 (3) 3 Cr.

Significant trends and writers in British and/or American poetry; close study of two or three major writers. *Classification*: English majors only; others by consent of instructor. *Prerequisite*: nine hours of literature courses.

ENG. 457. Poetry in English since 1945 (3) 3 Cr.

Significant trends and writers in British and/or American poetry; close study of two or three major writers. *Classification*: English majors only; others by consent of instructor. *Prerequisite*: nine hours of literature courses.

ENG. 458. (505). Seventeenth and Eighteenth Century English Drama (3) 3 Cr.

Stuart successors of Shakespeare; Restoration comedy and tragedy; Neo-classical and sentimental drama; Webster, Dryden, Wycherley, Congreve, Sheridan, and others. *Prerequisite*: nine hours of literature courses.

ENG. 459. (403). The World Novel (3) 3 Cr.

Major writers in the development of the novel during the past three centuries; Fielding, Balzac, Flaubert, Dostoevsky, Tolstoy, the Brontes, Hardy, Hawthorne, James, and others. *Prerequisite*: nine hours of literature courses.

ENG. 460. (455). Children's Literature and Mass Media (3) 3 Cr.

Survey and analysis of the aesthetic experiences of children through media other than the book; study of the media, the quality of the experiences they transmit, and potentialities for improvement. *Prerequisite*: nine hours of literature courses, including English 260.

ENG. 461. (213). Young Adult Literature (3) 3 Cr.

Literature appropriate in grades 7-12 in the secondary schools, including poetry, drama, adolescent fiction, ethnic literature, and non-fiction. *Classification*: open only to junior and senior secondary English majors and elementary students seeking extension in English.

ENG. ED. 462. (Ed. 306). Methods and Materials in Teaching Secondary School English (4) 3 Cr.

Selecting, organizing, and presenting curriculum materials; teacher-pupil relationships, evaluating pupil progress; observation and participation in the secondary school. *Classification*: Open only to juniors and seniors majoring in secondary English or elementary majors seeking certification in English; to be taken semester before student teaching. *Prerequisite*: English 270; Education 220, 203; cumulative average minimum 2.00.

ENG. ED. 464. (Ed. 406). Student Teaching in Secondary School English (30) 12 Cr.

Full-time practice teaching, five days per week, for fourteen 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. *Classification*: required of juniors or seniors majoring in secondary English and elementary extension students. *Prerequisite*: Completion of English Ed. 462 with minimum grade of C. Cumulative average minimum 2.00.

ENG. 470. Foundations of Language (3) 3 Cr.

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. To be taken by secondary English majors before English Ed. 462. Not open to students who have completed English 270.

ENG. 471. (609). History of the English Language (3) 3 Cr.

Historical development; political and social influences for change; growth of grammatical science and lexicography; contemporary problems of usage, semantics, trends in American English. *Prerequisite*: English 270 or 470.

ENG. 472. (610). English Grammars (3) 3 Cr.

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 including the Fries (word order), Chomsky (transformational-generative), Trager-Smith (aspectual), Pike (tagmemic-generative), and Lamb (stratificational) grammars. *Prerequisite*: English 270 or 470.

ENG. 474. (428). Speech Differences in American Society (3) 3 Cr.

Social, economic, and educational implications of variation in speech patterns among differing social groups in American society. Primary emphasis on language learning problems of the disadvantaged Afro-American. *Prerequisite*: English 270 or 470.

ENG. 475. Old English Language and Literature (3) 3 Cr.

The study of English language and literature prior to 1100 A.D. Topics include the origins of English, early political and linguistic divisions, grammar and phonology, literary traditions and devices, and text analysis. All Old English selections chosen for critical and grammatical analysis will be read in Old English. *Prerequisite*: nine hours of literature and language courses, including English 270 or 470.

ENG. 480. (564). Major Genres of Folklore (3) 3 Cr.

Major forms in which folk traditions are found: tales, ballads and songs, proverbs and riddles, customs and rituals, games; their interrelationships and universal scope. *Classification*: open only to upper-level (60 hours or more) students. *Prerequisite*: English 180 or 280, or permission of the instructor.

ENG. 490. (390). English Major Seminar (3) 3 Cr.

Specific topics selected by the instructor and announced at registration. Emphasis on student analyses and reports. *Classification*: Limited to English majors.

ENG. 491. (413). Study-Tour: American Literature (3) 3 Cr.

Study of major American writers before 1900, including a tour of locales associated with their lives and work. Study, four weeks; tour, two weeks. *Prerequisite*: nine hours of literature courses.

ENVIRONMENTAL AND CONSUMER STUDIES DEPARTMENT***ECS 101. Trends in ECS (3,0) 3 Cr.**

A review of our history from the agricultural revolution to the industrial revolution to the technological revolution (including the communication revolution), together with a view of advertising, inventions, radio and TV commercials, clothing and housing. Consumerism and equipment from the 1800's to 1971 will be presented in order to discover how today's challenges and problems developed. In addition futurism will be analyzed. Each ECS area will be presented and discussed to ascertain how it can aid the individual and society meet the future with a formative and adaptable process.

ECS 107. Introductory Clothing (1,4) 3 Cr.

Appreciation of the sociological, psychological, aesthetic and economic aspects of clothing; development of and understanding of basic construction skills. *Classification*: Required of HEE students only.

ECS 210. Apparel Design (1,2) 3 Cr.

Problems of individual interest in textiles; clothing selection; buying; care; the apparel market and construction. *Classification*: required for majors, elective for others.

Note: Students will not receive credit for both ECS 107 and ECS 210. 107 is essentially for students in the division according to the curriculum. ECS 210 is required for majors.

*General-liberal.

ENG. 492. (416). Study-Tour: Western Europe 8 Cr.

Six-weeks study-tour including Holland, Germany, Austria, Italy, Switzerland and France. *Prerequisite*: nine hours of literature courses. A course in European literature is strongly recommended.

ENG. 494. (499). Independent Study (See Independent Study under Academic Regulations.)**ENG. 495. (495). Project (See project under Academic Regulations.)****ECS 110. Clothing and Fashion Accessories (3,0) 3 Cr.**

Designed to familiarize ECS majors with men's, women's and children's clothing on the retail market. Fashion apparel, accessories, and other textile items will be investigated in terms of construction, fabric selection, and aesthetics. Comparisons of quality and price will be made. Students taking ECS 107 or 210 will not receive credit. *Classification*: Required of students in the Division according to the student's curriculum. Divisional and all college elective.

ECS 117. Introduction to Retailing (3,0) 3 Cr.

This course examines the role of retailing as a channel of distribution, the relationship and responsibilities to production and consumption and the consumer, and the functions of retailing. Topics to be considered: constraints; frictions and types of stores, consumer motivation and behavior, techniques of selling, retail mathematics, sales supporting activities, retail organizational structure, customer services, retailing and the consumer, retailing and the government, trends and future outlook. *Classification*: Required of students in the Division according to the student's curriculum. Divisional and all college elective.

***ECS 207. Textiles for the Consumer and Marketeer**

Study of plant, animal and synthetic fibers as they relate to use, care and consumer satisfaction. *Classification*: Required of students in the division according to curriculum. *Prerequisite*: Chem. 102 or 112 concurrently.

***ECS 217. Environmental and Consumer Problems in the Textile Industry (3,0) 3 Cr.**

A study of the consumer market in terms of production, distribution, advertising, promotion, selection, use and care of textile and clothing products. Special emphasis will be given to federal legislation, pricing, and technical terminology necessary for wise consumption. *Classification*: All College Elective except ECS and HEE majors.

ECS 220. Household Equipment (2,2) 3 Cr.

Study of material and processes used in the manufacture of household equipment; problems of selection, use, arrangement and safety for satisfying home living. *Classification*: Required of students in the Division according to the student's curriculum. Divisional and all college elective.

***ECS 221. Housing the Family (3,0) 3 Cr.**

Study of individual and family needs and values in the selection of shelter; family spending patterns; design, location, fundamental equipment and furnishings of the home. *Classification*: Required of students in the division according to the student's curriculum. May be elective with approval of instructor.

ECS 227. Merchandising I (3,0) 3 Cr.

Formulation of merchandising plans, control techniques for profitable operation. Retail method of inventory, techniques of planning seasonal purchases, methods of figuring markup, turnover, open-to-buy, markdowns, terms of sale, stocks, merchandise classifications, model stocks, unit control system and reports. Combining the art and science of merchandising management plus trends in merchandising. *Prerequisite*: ECS 117.

ECS 237. Visual Merchandising 3 Cr.

In-depth study of display and its importance in selling merchandise in terms of principles of display; place of behavioral science in display; develop sense of critical evaluation in display and design, learn to use color, harmony and arrangement most effectively. *Prerequisites*: ECS 117, DES. 105 recommended.

ECS 307. Clothing—Design and Construction (1,2) 3 Cr.

Creative use of commercial patterns with experimental implementation of fabrics, methods and design; combined with a comparative study of ready-to-wear. *Classification*: Required of clothing and textile majors. Elective for other curricula. *Prerequisite*: ECS 107 and ECS 207 or ECS 210.

***ECS 310. Economics for Consumers (3,0) 3 Cr.**

Personal and family financial planning in relation to economic conditions; current problems of consumers; evaluation of aids for consumers. *Classification*: Required of students in the Division according to student's curriculum. Divisional and all college elective.

ECS 320. Problems in Home Equipment (4,0) 3 Cr.

Study of current developments in household equipment. Individual investigations of home equipment, arrangement for selected situations, evaluation of laboratory studies. *Classification*: For students in the Division; others by permission of the instructor. *Prerequisite*: ECS 220.

***ECS 325. Personnel Management (3,0) 3 Cr.**

A conceptual course in personnel management designed to give overview and philosophy of personnel management. Decision-making side of creative thinking and operations research applied as well as behavioral and classical managerial approaches. Emphasis placed on human relations and human development in changing world in which we live.

***ECS 327. Retail Advertising and Promotion (3,0) 3 Cr.**

Analysis, solution, coordination of various media and sales promotion materials

to promote profit-producing programs. Evaluation of advertisements in terms of appeal, activation, size, position, frequency of presentation to meet basic marketing needs. Advertising management, copy-writing, typography, layout, production, radio and television techniques considered. Exploration of relationship of behavioral sciences to advertising.

ECS 328. Sales Promotion (3,0) 3 Cr.

A conceptional and applied study of the principles of communication and advertising in non-newspaper media. Radio, TV, direct mail, fashion shows, posters, bill boards, contests, credit promotions will be analyzed for creativity, consumerism, research and use. The coordination of sales promotion activities will be studied as well as its effects on business organizations, industries and individuals. *Classification:* Required of students in the Division according to student's curriculum. Divisional and all college elective.

***ECS 335. The Consumer and the Law (3,0) 3 Cr.**

Survey of law concerning purchase of goods and services; special attention to Uniform Commercial Code, Law of Products Liability, Express and Implied Warranties. Professional Malpractice, Institutional Services, Insurance, Credit, Regulatory Agencies, Consumer Fraud, legal remedies.

ECS 402. Management and Family Finance (3,0) 3 Cr.

Principles of home management and their application. Emphasis is placed upon the process of management and inter-relationships of the utilization of human and material resources toward achieving personal and family goals. *Classification:* Required of students in the Division according to the student's curriculum. Divisional and all college elective.

ECS 412. Accounting (1,4) 3 Cr.

Basic accounting principles underlying financial statements. *Classification:* All college elective.

ECS 420. Housing and the Community (3,0) 3 Cr.

Study of the housing supply, needs, and research related to the area. The place of government in housing; housing design, urban renewal, community controls. *Classification:* Elective for students in the Division; others by permission of the instructor. *Prerequisite:* ECS 221. *Special Note:* May be elected by graduate students.

ECS 425. Clothing Design Through Tailoring (2,2) 3 Cr.

Application of principles of selection, design, fitting and construction techniques including tailoring. *Classification:* Elective for students in the Division; others by permission of instructor. *Prerequisite:* ECS 307. *Special Note:* May be elected by graduate students.

ECS 426. Creative Opportunities in Management Decision Making (3,0) 3 Cr.

Familiarizes students with the basic principles of problem solving and decision making. Ties together the elements of sound thinking in dealing with employees, suppliers and customers using a systems approach. The course is to help students understand the functions of a chief operating officer and top executives in large and small companies and effective communication through creative thinking. *Classification:* Required of students in the Division according to student's curriculum. Divisional and all college elective.

ECS 427. Clothing Design Through Flat Pattern (2,2) 3 Cr.

Alteration of patterns to adapt them to individual needs; development of a master pattern; designing and creating garment through the use of flat pattern technique. *Classification:* Elective for students in the division; others by permission of the instructor. *Prerequisite:* ECS 307. *Special Note:* May be elected by graduate students.

ECS 428. Advanced Merchandising (3,0) 3 Cr.

Provides the student with a deeper knowl-

edge and understanding of the major approaches used in analyzing dollar sales and stock records, planning sales and markdowns, inventories in making dollar purchases, open to buy, and model stocks and reorder quantities for fashion and staple goods and plan and control of the expenses. *Classification:* Required of students in the Division according to the student's curriculum. Divisional and all college elective.

ECS 429. Business Organization, Management and Operation (3,0) 3 Cr.

A study of fundamental management principles underlying the organization and operation of modern business firms. Attention is focused upon retail store management principles, policies, methods and facilities; relates to organization, structure, store location, arrangement, personnel, operating activities, shortage control, receiving, marketing, maintenance, communication and service functions, credit and changes in the retail structure of the economy. *Classification:* Required of students in the Division according to the student's curriculum. Divisional and all college elective.

ECS 431. Furnishing the House (3,0) 3 Cr.

Study of home environment by individual and family needs and values; selection, arrangement, care and use of home furnishings and decorations. *Classification:* Elective for students in the Division; others by permission of the instructor. *Prerequisite:* ECS 221.

ECS 437. Environmental Textile Testing (4,0) 3 Cr.

Study of fibers, yarns, fabrics and finishes emphasizing textile testing and utilizing test methods. *Classification:* Required of

students in the Division according to the curriculum. Elective with approval of the instructor. *Prerequisite:* An introductory course and six hours of chemistry. *Special Note:* May be elected by graduate students.

ECS 447. Clothing in Relation to Human Behavior (3,0) 3 Cr.

The study of cultural, social and psychological aspects of clothing as they relate to human behavior. *Classification:* Elective. *Prerequisite:* ECS 107 or introductory courses in sociology and psychology. *Special Note:* May be elected by graduate students.

ECS 457. Fashion Merchandising (3,0) 3 Cr.

The study of clothing, and textiles merchandising procedures, markets, resources and trade practices. Opportunities to observe and evaluate the operations and functions of local stores. *Classification:* Elective. *Prerequisite:* ECS 207 or approval of instructor. *Special Note:* May be elected by graduate students.

ECS 490. Field Experience Credit to be arranged

A course to provide students the opportunity to have experience related to their majors in public or private agencies, in business organizations, or in educational institutions. Registration by permission of the faculty. Obtain necessary forms in Room CH 114F.

ECS 495. Special Project (See Project under Academic Regulations) Credit to be arranged.

Students interested in advanced study in Advertising, Merchandising, Display and the consumer and the law may select special projects in these fields. Obtain necessary form in Room CH 114F.

ENVIRONMENTAL SCIENCE

The Environmental Science program has been established primarily to enable students who have majored in environmental (health) sciences at a two-year college to continue to specialize in environmental sciences while majoring either in Biology, Chemistry or Psychology at Buffalo State. This can be accomplished by electing courses in Environmental Science while meeting all the requirements for a B.A. in Biology or Chemistry. However, these courses are open to any students who meet the prerequisites.

E.S. 270. (Psych. 270). Environmental Psychology (3) 3 Cr.

An examination of significant aspects of the role of the physical environment in man's psychological functioning. Topics covered will include: theoretical bases for the study of physical environment-behavior relations; research methods; individual human needs including territoriality; social facilitation; institutional-environmental relations; approaches to complementing planned environment relationships via attitude and behavioral changes. *Prerequisites:* Psych. 101, Biology 315 or General Science 221 recommended.

E.S. 300. Environmental Measurements (1,6) 4 Cr.

Study of theory and application of biological, chemical and physical techniques for the evaluation of environmental quality. *Prerequisites:* Year of Biology and/or Chemistry.

Numbers in parentheses indicate lecture and laboratory hours per week respectively

EXCEPTIONAL CHILDREN EDUCATION

EX.ED. 100. Student Speech Clinic 0 Cr.
Speech therapy for students found defective in speech production. Students enrolled must complete this course in order to be eligible for student teaching and graduation. *Classification:* Open to all students. *Special Note:* Hours by arrangement.

***EX.ED. 101. Nature and Needs of Exceptional Children (3) 3 Cr.**
Study of children who are exceptional because of intelligence, physical development, behavior, speech and hearing. *Classification:* Required of students in Exceptional Children.

***EX.ED. 204. Science of Speech and Hearing (4) 3 Cr.**
Anatomy and physiology of normal speech and hearing mechanisms and introduction to possible deviations. Also included are embryological development, neurology, production and reception of

Number in parentheses indicates class hours per week.

*General-liberal

E.S. 400. Applications of Environmental Technology (0,6) 3 Cr.

On the job experiences at sewage and water treatment plants, State and County environmental health labs and effluent quality monitoring labs of selected industries. *Prerequisites:* E.S. 300, or by consent of instructor.

E.S. 410. Seminar in Environmental Science (3,0) 3 Cr.

Investigations and discussions of topics of current interest. Special note: May be taken twice since different topics will be offered.

E.S. 495. Project
(See Project under Academic Regulations.)

E.S. 499. Independent Study
(See Independent Study under Academic Regulations.)

oral language. Observation in speech and hearing clinic. *Classification:* Required of sophomores in Communication Disorders.

EX.ED. 205. Introduction to Phonetics (4) 3 Cr.

Production and representation of English (American) speech sounds; application of phonetics to deviations in children's speech. Observation in Speech and Hearing Clinic. *Classification:* Required of sophomores in Communication Disorders.

EX.ED. 206. Bases of Speech (4) 3 Cr.
Study of fundamental areas of communication. The genetic, semantic, linguistic, social, and psychological bases of communication are examined in an effort to develop a broad understanding of the nature and function of communication. Emphasis is on the nature and development of language. Observation in speech and hearing clinic. *Classification:*

Required of sophomores in Communication Disorders.

***EX.ED. 209. Psychology of Exceptional Children (4) 3 Cr.**

Examination of behavior trends common to various types of exceptionality; description, analysis, examination of educational implications. *Classification:* Required of students in Mental Retardation and Physical Handicap. *Prerequisite:* Ex. Ed. 101.

EX.ED. 210. Learning and Behavioral Disorders of Children (4) 3 Cr.

Study of the incidence and nature of learning and behaviorally disordered children; problems of psycho-social adaptation in the educational setting. A clinically-oriented supervised field practicum in a variety of residential centers for four to six hours per week. *Classification:* Required of sophomores in Learning and Behavioral Disorders. *Prerequisite:* Ex. Ed. 101.

EX.ED. 301. Observation and Participation in Mental Retardation (9) 3 Cr.

Observation, classroom participation, class discussion and conferences with instructors; teacher-pupil relationships, selecting, organizing and presenting curriculum materials on different grade levels; evaluating pupil progress in classes for the mentally retarded. *Classification:* Required for juniors in Mental Retardation. *Prerequisite:* Ex. Ed. 404 and cumulative average of 2.00 or higher.

EX.ED. 306. Speech Pathology I (5) 3 Cr.

Introduction to the defects of speech: etiology and therapeutic procedures for treatment of functional and mild organic speech problems; observation and treatment of minor disorders. Laboratory two hours per week. *Classification:* Required of juniors in Communication Disorders. *Prerequisite:* Ex. Ed. 205.

EX.ED. 307. Speech Pathology II (4) 3 Cr.

Etiology and therapy of more severe speech defects, particularly extensive organic problems; observation of diagnosis and treatment. Laboratory two hours per week. *Classification:* Required of juniors

in Communication Disorders. *Prerequisite:* Ex. Ed. 204, 205.

EX.ED. 311. Observation and Participation in Physical Handicap (9) 3 Cr.

Observation, classroom participation, class discussion, and conference with instructors, teacher-pupil relationships, selecting, organizing, and presenting curriculum materials on different grade levels; evaluating pupil progress in class for the orthopedically handicapped. *Classification:* Required of students in Physical Handicap. *Prerequisite:* Ex. Ed. 417 and cumulative average of 2.00 or higher. Spring only.

EX.ED. 313. Observation and Participation with the Learning and Behaviorally Disordered (9) 3 Cr.

Observation, classroom participation, class discussion, and conferences with instructors; teacher-pupil relationships, selecting, organizing, and presenting curriculum materials on different grade levels; evaluating pupil progress in classes for the learning and behaviorally disordered and socially maladjusted. *Classification:* Required of juniors and seniors in Learning and Behavioral Disorder. *Prerequisite:* Ex. Ed. 409 and cumulative average of 2.00 or higher.

EX.ED. 402. Clinical Procedures and Organization of School and Clinic Speech and Hearing Programs (18, ½ Sem.) 4 Cr.

Participation in and observation of speech and hearing programs in schools, hospitals and other community agencies. *Classification:* Required of seniors in Speech Pathology and Audiology. *Prerequisite:* Eighteen hours in Speech Pathology and Audiology courses.

EX.ED. 403. Mental and Educational Measurement (4) 3 Cr.

Examination of general measurement and evaluation techniques and descriptive statistics. Construction of teacher-made instruments. *Classification:* Required of juniors in Learning and Behavioral Disorders, Mental Retardation and Physical Handicap.

EX.ED. 404. Curriculum Practices for the Mentally Retarded (4) 3 Cr.

Review of basic curricular practices and procedures used in developing programs for the educable mentally retarded. *Classification:* Required of juniors in Mental Retardation and Physical Handicap. *Prerequisite:* Ex.Ed. 209.

ED. 404. Practicum in Elementary School Teaching (30, ½ Sem.) 6 Cr.

Full-time teaching under supervision five days per week; group and individual conferences at college two days during eight-week assignment; individual and group instruction; daily and long-view planning; teacher-pupil planning; unit teaching; classroom management; routine procedures, audio-visual aids; community resources; record keeping; evaluation techniques; participation in total school program. *Classification:* Required of Ex. Ed. seniors majoring in Mental Retardation, Physical Handicap, Learning and Behavioral Disorders. *Prerequisite:* Ed. 305, and Ex.Ed. 301, 311 or 313; grade of "C" or higher in these courses; cumulative and previous semester average of "C" or higher; average of "C" or higher in the professional education sequence is a prerequisite for student teaching, and also for graduation; if referred, satisfactory completion, or exemption from Ex.Ed. 100 (Student Speech Clinic).

EX.ED. 405. Practicum in Speech and Hearing (daily, ½ Sem.) 6 Cr.

Clinical practice in schools under supervision of a speech and hearing clinician. *Classification:* Required of all seniors in Speech Pathology and Audiology. *Prerequisite:* Eighteen hours in speech and hearing. Cumulative average of 2.00 or higher in all college courses and in the major sequence.

EX.ED. 409. Curriculum Practices for Learning and Behaviorally Disordered Children (4) 3 Cr.

Organizing a school program for learning and behaviorally disordered children; evaluating suitable group and individual activities for teaching basic school sub-

jects. *Classification:* Required. *Prerequisite:* Ex.Ed. 210.

EX.ED. 411. Seminar in Speech and Hearing (4) 3 Cr.

Consideration of recent research and theoretical information relating to communication disorders with particular emphasis on application to diagnosis and therapy. *Classification:* Required of seniors in Communication Disorders. *Prerequisite:* Ex.Ed. 307 and 416.

EX.ED. 412. Audiometry and Hearing Aids (5) 3 Cr.

Study and measurement of hearing; administration of individual and group audio-metric examinations, interpreting audiograms; principles of construction, fitting and use of individual hearing aids. *Classification:* May be substituted for Ex.Ed. 411. *Prerequisite:* Ex.Ed. 414.

EX.ED. 413. Nature and Needs of Exceptional Children (3) 3 Cr.

Study of Children who are exceptional because of intelligence, physical development, behavior, speech and hearing. Observation, one hour per week.

EX.ED. 414. Introduction to Audiology (5) 3 Cr.

The clinical treatment of hearing problems particularly to assist the speech correctionist; hearing testing, hearing aid construction, and research in the field of audiology. *Classification:* Required of juniors in Speech and Hearing. *Prerequisite:* Ex.Ed. 204.

EX.ED. 415. Speechreading and Auditory Training (5) 3 Cr.

Principles and techniques in the rehabilitation of the hearing handicapped; methodology in speechreading and auditory training; study and evaluation of various techniques and clinical practice. *Classification:* Required of seniors in Communication Disorders. *Prerequisite:* Ex.Ed. 414.

EX.ED. 416. Stuttering (5) 3 Cr.

Therapeutic procedures for the treatment of stuttering. Tests used in diagnosis and evaluation of the problem. Parent con-

sulting and indirect methods for prevention. Understanding the speech aspects and the individual with the fluency problem. *Classification:* Required of juniors in Communication Disorders. *Prerequisite:* Ex.Ed. 206.

EX.ED. 417. Curriculum Practices for the Physically Handicapped (4) 3 Cr.

Organizing a school program for orthopedically handicapped children; selecting and evaluating suitable group and individual activities for the teaching of basic school subjects; observations of special classes for the crippled child. *Classification:* Required of juniors in Physical Handicap. *Prerequisite:* Ex.Ed. 209. Fall only.

EX.ED. 418. Practicum in Teaching Children with Retarded Mental Development (daily, ½ Sem.) 6 Cr.

Practice teaching under supervision in a special class for educable mentally retarded children or trainable retarded children. *Classification:* Required of seniors in Mental Retardation. *Prerequisite:* Ex.Ed. 301 and Ed. 305. Cumulative average of 2.00 or higher in general college achievement and in achievement in the professional sequences. Grade of "C" or higher in Ex.Ed. 301 and Ed. 305.

EX.ED. 419. Teaching the Trainable Retarded (4) 3 Cr.

An examination of the curriculum methods, materials and problems encountered in educating the child with an I.Q. of below 50 in public day-school classes. *Classification:* Required of juniors planning to teach trainable children; elective for majors in Mental Retardation and Physical Handicap. *Prerequisite:* Ex.Ed. 101.

EX.ED. 420. Speech Problems of Children (3) 3 Cr.

Types and causes of speech defects and disorders found in elementary school children; methods of treatment of minor

disorders by the classroom teacher; basic information pertaining to phonetics and speech science; observation of children presenting various speech problems. *Classification:* All college elective.

EX.ED. 421. Practicum in Teaching Children with Physical Handicap (daily, ½ Sem.) 6 Cr.

Practice teaching under supervision in a special class for orthopedically handicapped children. *Classification:* Required of seniors in Physical Handicap. *Prerequisite:* Ex.Ed. 311 and Ed. 305. Cumulative average of 2.00 or higher in general college achievement and in achievement in the professional sequence. Grade of "C" or higher in Ex.Ed. 311 and Ed. 305.

EX.ED. 424. Organization and Administration of School Programs (4, ½ Sem.) 2 Cr.

Study of the organization and administration of school programs particularly relating to case selection, case load, scheduling, records and reports; speech improvement, facilities, etc. *Classification:* Required of seniors in Communication Disorders. *Prerequisite:* Eighteen hours in Speech and Hearing Courses.

EX.ED. 430. Practicum in Teaching Children with Learning and Behavioral Disorders (daily, ½ Sem.) 6 Cr.

Practice teaching with learning and behaviorally disordered children in public school special classes or residential settings. *Classification:* Required of seniors in Learning and Behavioral Disorders. *Prerequisite:* Ex.Ed. 210, Ex.Ed. 313 and Ed. 305. Cumulative average of 2.00. Grade of "C" or higher in Ex.Ed. 313 and Ed. 305.

EX.ED. 495. Project (See Project under Academic Regulations.)**EX.ED. 499. Independent Study (See Independent Study under Academic Regulations.)**

FINE ARTS DEPARTMENT

F.A. 100. Introduction to Fine Arts (4,2) 3 Cr.

A study of the critical bases for procedures in the Fine Arts; introductory problems in studio performance. Lecture and studio experiences. *Classification:* Elective except for Art majors.

F.A. 101. Drawing I (4,2) 3 Cr.

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.

F.A. 102. Drawing II (4,2) 3 Cr.

Drawing from the nude using various media with an emphasis on proportion, anatomy and pictorial structure; involving lecture and studio experiences. *Prerequisite:* F.A. 101.

F.A. 103. Modeling (4,2) 3 Cr.

Modeling as an introductory experience in the exploration of three dimensional form; development of perceptual and analytical attitudes; involving lecture and studio experiences. *Classification:* First-Year B.F.A. students only. By contract only.

F.A. 104. Introduction To Art History (3) 3 Cr.

An examination of the artistic achievements of Western Art from Prehistoric times to the 20th Century; the vocabulary and principles of art history; a comprehensive study of the various forms of architecture, painting, and sculpture within a historical context. *Classification:* All College Elective.

F.A. 200. Drawing III (4,2) 3-6 Cr. (3 hrs. per sem.)

A continuation of Fine Arts 102 with an emphasis on surface anatomy and pictorial structure; includes lecture and studio experiences. *Prerequisite:* F.A. 102.

F.A. 210. Introductory Painting (4,2) 3 Cr.

An introduction to the methods, techniques, standards and values of painting;

exploration of color, form and compositional problems; includes lecture and studio experiences. *Prerequisite:* F.A. 101.

F.A. 211. Intermediate Painting I (4,2) 3 Cr.

A continuation of the problems dealt with in Introductory Painting, working toward a greater awareness of a personal statement; includes lecture and studio experiences. *Prerequisite:* F.A. 210.

F.A. 212. Intermediate Painting II (4,2) 3 Cr.

A further continuation of 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. *Prerequisite:* F.A. 211.

F.A. 220. Introductory Photography (4,2) 3 Cr.

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. *Prerequisite:* F.A. 101 or Department permission.

F.A. 221. Intermediate Photography I (4,2) 3 Cr.

A continuation of Introductory Photography with more in depth study; current emphasis on technique and image to produce personal, expressive and significant images; includes lecture, field and studio experiences. Camera required. *Prerequisite:* F.A. 220.

F.A. 222. Intermediate Photography II (4,2) 3 Cr.

An advanced course in the photographic disciplines, stressing the individual, expressive, and creative approach to the making of significant photographic images; includes lectures, field and studio experiences. Professional quality camera required. *Prerequisite:* F.A. 221.

F.A. 230. Introductory Printmaking (4,2) 3 Cr.

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. *Prerequisite:* F.A. 101.

F.A. 231. Intermediate Printmaking I (4,2) 3 Cr.

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. *Prerequisite:* F.A. 230.

F.A. 232. Intermediate Printmaking II (4,2) 3 Cr.

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. *Prerequisite:* F.A. 230.

F.A. 240. Introductory Sculpture (4,2) 3 Cr.

An introduction to the fundamentals of sculptural form; exploration of additive, subtractive, and constructive approaches to sculpture through lecture and studio experiences. *Prerequisite:* F.A. 101.

F.A. 241. Intermediate Sculpture I (4,2) 3 Cr.

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. *Prerequisite:* F.A. 240.

F.A. 242. Intermediate Sculpture II (4,2) 3 Cr.

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. *Prerequisite:* F.A. 241.

F.A. 250. Art History I (3) 3 Cr.

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 ar-

tistic trends in Rome and Constantinople. *Classification:* All College Elective.

F.A. 251. Art History II (3) 3 Cr.

The development of art from the Romanesque Period through the rise of 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. *Classification:* All College Elective. *Prerequisite:* F.A. 250.

F.A. 300. Drawing IV (4,2) 3-6 Cr. (3 hrs. per sem.)

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. *Prerequisite:* F.A. 200.

F.A. 310. Advanced Painting (4,2) 3-9 Cr. (3 hrs. per sem.)

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. *Prerequisite:* F.A. 212.

F.A. 320. Advanced Photography (4,2) 3-9 Cr. (3 hrs. per sem.)

An advanced course in which individual directions and advance photographic concerns may be explored; includes lecture, field and studio experience. *Prerequisite:* F.A. 222.

F.A. 330. Advanced Printmaking (4,2) 3-9 Cr. (3 hrs. per sem.)

Advanced printmaking, media determined by the student in consultation with the instructor; includes lecture and studio experience. *Prerequisite:* F.A. 231 & 232.

F.A. 340. Advanced Sculpture (4,2) 3-9 Cr. (3 hrs. per sem.)

Concentration on individually selected areas of development in sculpture based on personal interest and needs; includes lecture and studio experiences. *Prerequisite:* F.A. 242. By contract only.

Numbers in parentheses indicate class and independent studio hours per week respectively.

F.A. 345. Figure Modeling (4,2) 3 Cr.

Figure modeling as a basic sculptural discipline; portrayal and interpretation of the human form; includes lecture and studio experiences. *Prerequisite:* F.A. 240.

F.A. 410. Senior Studio in Painting (8,4) 6 Cr.

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 project in consultation with his major advisor. *Prerequisite:* F.A. 310.

F.A. 420. Senior Studio in Photography (8,4) 6 Cr.

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 his major advisor. *Prerequisite:* F.A. 320. By contract only.

F.A. 430. Senior Studio in Printmaking (8,4) 6 Cr.

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 his major advisor. *Prerequisite:* F.A. 330. By contract only.

F.A. 440. Senior Studio in Sculpture (8,4) 6 Cr.

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 his major advisor. *Prerequisite:* F.A. 340. By contract only.

F.A. 454. Greek Art (3) 3 Cr.

A concentrated study of the architecture, painting, and sculpture of Ancient Greece from Minoan and Mycenaean ages to the end of the Hellenistic period. *Classification:* All College Elective — Required of Art History Majors. *Prerequisite:* F.A. 250 & 251.

F.A. 455. Etruscan and Roman Art (3) 3 Cr.

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. *Classification:* All College Elective. *Prerequisites:* F.A. 250 & 251.

F.A. 456. Early Medieval Art (3) 3 Cr.

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 meanings of art, architecture, manuscript illumination and jeweled arts of the period. Illustrated lectures, extra class assignments. *Classification:* All College Elective. *Prerequisite:* F.A. 250 & 251.

F.A. 457. Romanesque and Gothic Art (3) 3 Cr.

A comprehensive study of architecture, sculpture, painting, and decorative arts of the Romanesque period through the Gothic era; from the Pilgrimage churches to the late Gothic cathedrals; from 11th century illuminated manuscripts and the Bayeux Tapestry to the precursors of the van Eycks; and sculpture from S. Sernin in Toulouse, the portals of Vézelay and Autun through the work of Clau Sluter at Dijon. *Classification:* All College Elective. *Prerequisite:* F.A. 250 & 251.

F.A. 458. Early Renaissance Art in Italy (3) 3 Cr.

Survey of painting, sculpture, and architecture of 15th century Italy. Special attention to Donatello, Brunelleschi, and Alberti. Consideration will be given to important antecedent artists and movements as well as to the aesthetic implications of the rebirth of classical tradition in western civilization. *Classification:* All College Elective — Required of Art History Majors. *Prerequisites:* F.A. 250 & 251.

F.A. 459. High Renaissance and Mannerism (3) 3 Cr.

Survey of Italian art and architecture in the 16th century. Special attention to Bramante, Leonardo, Raphael and Mi-

chelangelo. The emergence of the unconventional Mannerist style will be studied against the background of shifting religious and political patterns, in the works of Pontormo, Primaticcio, and Cellini. *Classification:* All College Elective. *Prerequisites:* F.A. 250 & 251.

F.A. 460. Northern Renaissance Art (3) 3 Cr.

A concentrated study of the artistic production, including illuminated manuscripts, in the Netherlands, France, Germany, and England, from the latter part of the 14th century through the first third of the 16th century; included will be the works of Melchior Broederlam, the Limbourg Brothers, the van Eycks, Roger van der Weyden, Petrus Christus, Hugo van der Goes, Bosch; graphic art of Martin Schongauer and Albrecht Dürer. *Classification:* All College Elective. *Prerequisite:* F.A. 250 & 251.

F.A. 461. Italian Baroque Art (3) 3 Cr.

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. *Classification:* All College Elective. *Prerequisites:* F.A. 250 & 251.

F.A. 462. Nineteenth Century Art (3) 3 Cr.

A concentrated study of architecture from Neo-Classicism to the Adam Brothers to the skyscraper; painting from David to Cézanne in France, the Nazarenes and Pre-Raphaelites in Germany and England; Nineteenth century American painting; Sculpture from Houdin and Canova to Rodin and Augustus St. Gaudens; in relationship to the social, political, economic and intellectual climate of the times; lectures, discussions, extra class assignments. *Classification:* All College Elective. *Prerequisite:* 250 & 251.

F.A. 463. Twentieth Century Art (3) 3 Cr.

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. *Classification:* All College Elective. *Prerequisite:* F.A. 250 & 251.

F.A. 466. American Art (3) 3 Cr.

The development of American Art from Colonial times to the post World War II period. Particular stress upon the architecture, sculpture, and painting during the 19th and 20th Centuries. *Classification:* All College Elective. *Prerequisite:* F.A. 250 & 251.

F.A. 467. Baroque of Northern Europe (3) 3 Cr.

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. *Classification:* All College Elective. *Prerequisites:* F.A. 250 & 251.

F.A. 470. Senior Seminar in Fine Arts (3) 3 Cr.

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. *Prerequisite:* F.A. 410, 420, 430, or 440.

F.A. 471. Senior Seminar in Art History (3) 3 Cr.

Readings, discussions, and research on selected problems in the history of art from antiquity to the 20th century. Special emphasis will be put on the gathering and interpretations of source material. *Classification:* Senior Art History Majors only, or Department permission. *Prerequisites:* F.A. 454, 457, & 458.

F.A. 495. Project

(See Project under Academic Regulations.)

F.A. 499. Independent Study

(See Ind. Study under Academic Regulations.)

FOREIGN LANGUAGE DEPARTMENT

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.

1. *Those interested in continuing the same language in college* 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. Students who have completed one year of a foreign language in high school may register for a 102 course in that same language; two years of the same language, 201; three years of the same language, 202. Four years of study in the same language in high school waives the language requirement for the B.A. degree.

2. *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, e.g. two years of high school French would enable the student to complete two terms of another language (101, 102) to fulfill the requirement.

3. *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.

F.L. 100. English as a Foreign Language (3,1) 3 Cr.

Spoken and written English, designed to complement the foreign student's previous studies of English. *Classification:* Required of foreign students whose score is inadequate on a diagnostic test. Open only to students whose native language is not English.

F.L. 101. English as a Foreign Language (3,1) 3 Cr.

Continuation of F.L. 100. *Classification:* Required of foreign students whose score is inadequate on a diagnostic test. Open only to students whose native language is not English. No prerequisite required.

F.L. 201. Introduction to Language and the Study of Foreign Languages (3,0) 3 Cr.

A general introduction to linguistics for anyone interested in language. Discussion of major methods of learning a foreign language. Strongly recommended for non-language majors. Not open to those who have taken English 470, Foundations of

Language. Not open to foreign language majors; foreign language majors are encouraged to take English 470, Foundations of Language. No prerequisite required.

F.L. 202. Survey of Languages of the World (3,0) 3 Cr.

Survey of languages. A general survey of language families of the world, including a brief introduction to historical linguistics. A close examination of representatives of various language families. *Prerequisite:* F.L. 201 or consent of the instructor.

F.L. 210. Italian-Americans: Literature and Society (3,0) 3 Cr.

The Italian experience in the United States as seen through works of fiction and non-fiction. No prerequisite required. Knowledge of Italian not required.

F.L. 337. Greek and Roman Mythology (3,0) 3 Cr.

The stories of the gods, goddesses and heroes of Greece and Rome as presented

in Graeco-Roman literature. A philosophical and psychological interpretation of the myths of the gods and goddesses in Graeco-Roman literature. No prerequisite required.

F.L. 338. Introduction to Classical Greek Drama (3,0) 3 Cr.

Origin of European drama as a distinct literary form. Characteristics of Greek tragedy, the ancient theater and theatrical conventions. Careful reading and discussion of at least one play from each of Aeschylus, Sophocles and Euripides, with emphasis on the problems posed in relation to the intellectual, social, political and cultural patterns of the time. *Prerequisites:* a basic literature course in English, American, European or World Literature or permission of the instructor.

F.L. 461. Language Teaching Workshop (3,1) 3 Cr.

An intensive course in foreign language teaching at the college level. Includes theory and practice and training in audio-lingual techniques on the 101-102 levels. *Prerequisites:* Mastery of the languages to be taught and permission of the instructor.

F.L. 462. Language Teaching Workshop (3,1) 3 Cr.

Continuation of F.L. 461. *Prerequisites:* Mastery of the language to be taught and permission of the instructor.

F.L. 478. Methods of Teaching of English as a Second Language (3,0) 3 Cr.

Includes practical experience in preparing materials for teaching and testing English for speakers of a specific language as well as discussion of the theory and practice of teaching English. *Prerequisites:* an introductory course in linguistics or in the structure of English or consent of the instructor.

F.L. 495. Project

(See Project under Academic Regulations.)

F.L. 499. Independent Study

(See Independent Study under Academic Regulations.)

F.L. ED. 310. Methods and Materials in Teaching Foreign Languages in the Secondary Schools (3) 3 Cr.

Selecting, organizing and presenting curriculum materials; interrelationships of elementary and secondary school programs; teacher-pupil relationships; evaluating pupil progress; introduction to classroom teaching. *Classification:* Required of juniors or seniors majoring in Secondary School Foreign Languages. *Prerequisite:* Ed. 220, 203; cumulative average of 2.00 or higher; approval by Foreign Language Department chairman. *Special note:* F.L. ED. 310 should be taken semester immediately preceding student teaching. Not open to first semester Juniors.

F.L. ED. 413. Practicum in the Teaching of Foreign Languages in the Secondary Schools (30) 12 Cr.

Teaching under supervision at least five days per week; group and individual conferences at college two days during each of two eight-week assignments; 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. *Classification:* Required of juniors or seniors majoring in Secondary School Foreign Languages. *Prerequisite:* Ed. 310; grade of "C" or higher in Ed. 310; 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 Ex. Ed. 100 (Student Speech Clinic); approval of Foreign Language Department chairman.

French

FR. 101. Elementary French (3,1) 3 Cr.

Fundamentals of French with emphasis on the spoken language. Laboratory attendance required.

Numbers in parentheses indicate class and minimum language laboratory hours per week respectively.

FR. 102. Elementary French (3,1) 3 Cr.
Continuation of French 101. Laboratory attendance required. *Prerequisite:* French 101 or its equivalent.

FR. 201. Intermediate French (3,1) 3 Cr.
Further development of the basic skills with emphasis on reading and writing. Laboratory attendance required. *Prerequisite:* French 102 or its equivalent.

FR. 202. Intermediate French (3,1) 3 Cr.
Continuation of French 201. Laboratory attendance required. *Prerequisite:* French 201 or its equivalent.

FR. 211. Intermediate French—French for Reading (3,0) 3 Cr.
Review of the essentials of French grammar to serve as basis for learning to read French prose rapidly and accurately through a study of contemporary French civilization. Equivalent of French 201. Elective. Not for French majors. *Prerequisite:* Fr. 102, or its equivalent.

FR. 212. Intermediate French — French for Reading (3,0) 3 Cr.
Review of the essentials of French grammar to serve as basis for learning to read French prose rapidly and accurately through a study of contemporary French civilization. Equivalent of French 202. Elective. Not for French majors. *Prerequisite:* Fr. 102 or its equivalent.

FR. 301. French Conversation and Composition (3,0) 3 Cr.
Practice in spoken and written French with emphasis on the spoken language. *Prerequisite:* French 202 or its equivalent.

FR. 302. French Conversation and Composition (3,0) 3 Cr.
Practice in spoken and written French with emphasis on the written language. *Prerequisite:* French 202 or its equivalent.

FR. 305. Spoken French (3,0) 3 Cr.
Introduction to French phonetics and applied linguistics. *Prerequisite:* French 301, or permission of instructor.

FR. 306. The Civilization of France (3,0) 3 Cr.
Prerequisite: French 301, or permission of instructor.

FR. 307. Survey of French Literature (3,0) 3 Cr.

The Middle Ages through the Renaissance. *Prerequisite:* French 301, or permission of instructor.

FR. 308. Survey of French Literature (3,0) 3 Cr.

Classicism and the Enlightenment. *Prerequisite:* French 301, or permission of instructor.

FR. 331. (English 331). Literature of France in Translation (3,0) 3 Cr.

Selected masterpieces of French literature in translation: novels, poetry, plays and essays. *Prerequisite:* a basic literature course in English, American, European or World Literature or permission of the instructor. Knowledge of French not required. *Special Note:* Open to French majors only upon approval of both their department chairman and the course instructor.

FR. 401. Classical French Drama (3,0) 3 Cr.
The French drama of the seventeenth century. *Prerequisite:* French 307-308, or permission of instructor.

FR. 403. Nineteenth Century French Novel (3,0) 3 Cr.

A study and analysis of major works of the period. *Prerequisite:* French 307-308, or permission of instructor.

FR. 404. Contemporary French Novel (3,0) 3 Cr.

A study and analysis of major works of the period. *Prerequisite:* French 307-308, or permission of instructor.

FR. 407. The French Enlightenment (3,0) 3 Cr.

French literature of the eighteenth century. *Prerequisite:* French 307-308, or permission of instructor.

FR. 408. Contemporary French Theater (3,0) 3 Cr.

The French theater of the twentieth century. *Prerequisite:* French 307-308, or permission of instructor.

FR. 409. Nineteenth Century French Drama (3,0) 3 Cr.

A study and analysis of major works of the period. *Prerequisite:* French 307-308, or permission of instructor.

FR. 410. Nineteenth Century French Poetry (3,0) 3 Cr.

A study and analysis of major works of the period. *Prerequisite:* French 307-308, or permission of instructor.

FR. 415. Advanced Grammar and Composition (3,0) 3 Cr.

Systematic study of more advanced topics of French grammar with work in French composition. *Prerequisite:* French 301-302.

FR. 416. Advanced Conversation and Composition (3,0) 3 Cr.

Continuation of Fr. 415 with emphasis on contemporary French civilization and institutions. *Prerequisite:* Fr. 302 and Fr. 415 or consent of instructor.

FR. 421. Structure of Modern French (3,0) 3 Cr.

General linguistics applied to French. *Prerequisite:* French 305.

FR. 430. French Renaissance (3,0) 3 Cr.
Origins and progress of the French literature of the sixteenth century. *Prerequisite:* French 307-308, or permission of instructor.

FR. 442. The Fable in France (3,0) 3 Cr.
Reading, analysis and discussion of La Fontaine's fables and other fables of special merit, found throughout the Middle Ages and the modern times. Elective. Undergraduate and graduate course. *Prerequisite:* 301-302, or permission of the instructor.

FR. 450. Directed Readings I (3,0) 3 Cr.
Variable. *Prerequisite:* Permission.

FR. 451. Directed Readings II (3,0) 3 Cr.
Variable. *Prerequisite:* Permission.

FR. 496. Senior Seminar I (3,0) 3 Cr.
Topic to be chosen by professor. *Prerequisite:* Permission.

FR. 497. Senior Seminar II (3,0) 3 Cr.
Topic to be chosen by professor. *Prerequisite:* Permission.

German

GERM. 101. Elementary German (3,1) 3 Cr.
Fundamentals of German with emphasis upon speaking. Laboratory attendance required.

GERM. 102. Elementary German (3,1) 3 Cr.
Continuation of German 101. Laboratory attendance required. *Prerequisite:* German 101 or the equivalent.

GERM. 201. Intermediate German (3,1) 3 Cr.
Further development of the basic skills with emphasis upon reading, aural comprehension and speaking. Laboratory attendance required. *Prerequisite:* German 102 or the equivalent.

GERM. 202. Intermediate German (3,1) 3 Cr.
Continuation of German 201. Laboratory attendance required. *Prerequisite:* German 201 or the equivalent.

GERM. 301. German Conversation and Composition (3,0) 3 Cr.

Practice in written and spoken German with emphasis upon the spoken language. *Prerequisite:* German 202 or the equivalent.

GERM. 302. German Conversation and Composition (3,0) 3 Cr.

Practice in spoken and written German with emphasis upon the written language. *Prerequisite:* German 202 or the equivalent.

GERM. 303. The German Novelle (3,0) 3 Cr.
Representative readings from the romantic, realistic and contemporary short prose form, the Novelle. *Prerequisite:* German 202 or the equivalent.

GERM. 304. German Drama (3,0) 3 Cr.
A study of the chief literary trends and the major authors of German drama during the period 1750 to 1870. *Classification:* Elective. *Prerequisite:* Germ. 202.

GERM. 306. German Civilization (3,0) 3 Cr.
Study of the growth of German civilization, with emphasis on the artistic and intellectual contributions to the Western world. *Classification:* Elective. *Prerequisite:* Germ. 201-202.

GERM. 307. History of German Literature (3,0) 3 Cr.

Chronological study of German literature from the Middle Ages through the eighteenth century. Readings of representative selections from major authors. *Classification:* Elective. *Prerequisite:* Germ. 201-202.

GERM. 308. History of German Literature (3,0) 3 Cr.

Continuation of GERM. 307. Reading of representative selections from the major authors of the Classical period and the nineteenth and twentieth centuries. *Classification*: Elective. *Prerequisite*: GERM. 201-202.

GERM. 337. Modern German Literature in Translation (3,0) 3 Cr.

A study of the various literary trends, ideas, and techniques of modern German literature as manifested in the selected works of such major German literary figures as Thomas Mann, Franz Kafka, Hermann Hesse and Bertolt Brecht. *Prerequisite*: a basic literature course in English, American, European or World Literature or permission of the instructor. Knowledge of German not required. *Special note*: open to German majors only upon approval of both their department chairman and the course instructor.

GERM. 401. Twentieth Century German Literature (3,0) 3 Cr.

A study of the chief literary trends and the major authors of German literature in the twentieth century. *Classification*: Elective. *Prerequisite*: GERM. 202.

GERM. 450. Directed Readings I (3,0) 3 Cr.

Variable. *Prerequisite*: Permission.

GERM. 451. Directed Readings II (3,0) 3 Cr.

Variable. *Prerequisite*: Permission.

Hebrew

HEB. 101. Elementary Hebrew (3,1) 3 Cr.
Fundamentals of Hebrew with emphasis upon speaking. Available on self-study basis only.

HEB. 102. Elementary Hebrew (3,1) 3 Cr.
Continuation of Hebrew 101. Available on self-study basis only. *Prerequisite*: HEB. 101 or the equivalent.

HEB. 201. Intermediate Hebrew (3,1) 3 Cr.
Further development of the basic skills with emphasis on reading and writing. Available on self-study basis only. *Prerequisite*: HEB. 102 or the equivalent.

HEB. 202. Intermediate Hebrew (3,1) 3 Cr.
Continuation of Hebrew 201. Available on self-study basis only. *Prerequisite*: HEB. 201 or the equivalent.

Hungarian

HUN. 101. Elementary Hungarian (3,1) 3 Cr.
Fundamentals of Hungarian with emphasis upon speaking. Available on self-study basis only.

HUN. 102. Elementary Hungarian (3,1) 3 Cr.
Continuation of Hungarian 101. Available on self-study basis only. *Prerequisite*: HUN. 101 or the equivalent.

HUN. 201. Intermediate Hungarian (3,1) 3 Cr.

Further development of the basic skills with emphasis on reading and writing. Available on self-study basis only. *Prerequisite*: HUN. 102 or the equivalent.

HUN. 202. Intermediate Hungarian (3,1) 3 Cr.

Continuation of Hungarian 201. Available on self-study basis only. *Prerequisite*: HUN. 201 or the equivalent.

HUN. 335. Hungarian Literature in Translation (3,0) 3 Cr.

A survey of Hungarian poetry and prose in English translation, emphasizing the primary role of literature in the struggle for national independence and social advancement; a close study of Ady, Petöfi, József and Németh. *Prerequisite*: a basic literature course in English, American, European or World Literature or permission of the instructor. Knowledge of Hungarian not required.

Italian

ITAL. 101. Elementary Italian (3,1) 3 Cr.
Fundamentals of Italian with emphasis upon speaking. Laboratory attendance required.

ITAL. 102. Elementary Italian (3,1) 3 Cr.
Continuation of Italian 101. Laboratory attendance required. *Prerequisite*: Italian 101 or the equivalent.

ITAL. 103. Intensive Elementary Italian (6,2) 6 Cr.

Intensive approach to the learning of

Italian, comprising Italian 101 and 102 in one semester.

ITAL. 201. Intermediate Italian (3,1) 3 Cr.
Further development of the basic skills with emphasis on reading and writing. Laboratory attendance required. *Prerequisite*: Italian 102 or the equivalent.

ITAL. 202. Intermediate Italian (5,1) 3 Cr.
Continuation of Italian 201. Laboratory attendance required. *Prerequisite*: Italian 201 or the equivalent.

ITAL. 301. Italian Conversation and Composition (3,0) 3 Cr.

Practice in spoken and written Italian with emphasis on the spoken language. *Prerequisite*: Italian 202 or the equivalent.

ITAL. 302. Italian Conversation and Composition (3,0) 3 Cr.

Practice in spoken and written Italian with emphasis on the written language. *Prerequisite*: Italian 202 or the equivalent.

ITAL. 306. Contemporary Italian Civilization (3,0) 3 Cr.

Cultural, intellectual and political developments of twentieth century Italy. *Prerequisite*: Italian 202.

ITAL. 307. Survey of Italian Literature (3,0) 3 Cr.

Readings and discussions of major works from the origins through the Cinquecento. *Prerequisite*: Italian 202.

ITAL. 308. Survey of Italian Literature (3,0) 3 Cr.

The Seicento to the present. *Prerequisite*: Italian 202.

ITAL. 335. (English 335). Italian Renaissance Literature in Translation (3,0) 3 Cr.

The development of humanism from Petrarch to Tasso. *Prerequisite*: A basic literature course in English, American, European or World Literature or permission of the instructor. Knowledge of Italian not required. *Special Note*: Open to Italian majors only upon approval of both their department chairman and the course instructor.

ITAL. 336. (English 336). Modern Italian Literature in Translation (3,0) 3 Cr.

Major writers and cultural movements since Italian unification. *Prerequisite*: A basic literature course in English, American, European or World Literature or permission of the instructor. Knowledge of Italian not required. *Special Note*: Open to Italian majors only upon approval of both their department chairman and the course instructor.

ITAL. 401. Dante's Divina Commedia. (3,0) 3 Cr.

Study of selected cantos as an introduction to Dante's work and times. *Prerequisite*: Successful completion of an upper-division course or permission.

ITAL. 403. Italian Renaissance Prose (3,0) 3 Cr.

Representative writers such as Boccaccio, Castiglione, Leonardo da Vinci, Machiavelli and others. *Prerequisite*: Successful completion of an upper-division course or permission.

ITAL. 406. Nineteenth Century Italian Literature (3,0) 3 Cr.

Readings and discussions of representative works in poetry and novel. *Prerequisite*: Successful completion of an upper-division course or permission.

ITAL. 408. Contemporary Italian Literature (3,0) 3 Cr.

Poetry and Theater. *Prerequisite*: Successful completion of an upper-division course or permission.

ITAL. 410. Contemporary Italian Literature (3,0) 3 Cr.

Novel, short story and essay. *Prerequisite*: Successful completion of an upper-division course or permission.

ITAL. 450. Directed Readings I (3,0) 3 Cr.

Variable. *Prerequisite*: Permission.

ITAL. 451. Directed Readings II (3,0) 3 Cr.

Variable. *Prerequisite*: Permission.

Latin

LAT. 101. Elementary Latin (3,0) 3 Cr.
Fundamentals of the Latin language. Es-

entials of Latin grammar with exercises. For students with no previous knowledge of Latin.

LAT. 102. Elementary Latin (3,0) 3 Cr.
Reading of simple prose selections. The Latin element in the vocabulary of English and the modern language. *Prerequisite:* Latin 101 or its equivalent.

LAT. 201. Intermediate Latin (3,0) 3 Cr.
Reading from such prose authors as Caesar, Cicero, Nepos, or Aulus Gellius. *Prerequisite:* Latin 102 or the equivalent.

LAT. 202. Intermediate Latin (3,0) 3 Cr.
Reading from such Latin poets as Catullus, the elegiac poets, Phaedrus, Martial and Claudian. *Prerequisite:* Latin 201 or its equivalent.

LAT. 203. Livy's History of Rome (3,0) 3 Cr.
Reading of Book I and selections from Books XXI and XXII. *Prerequisite:* Latin 202 or its equivalent.

LAT. 204. Virgil and the Augustans (3,0) 3 Cr.
Readings of selections from the Aeneid, the Eclogues, the Georgics and Ovid's Metamorphoses. *Prerequisite:* Latin 203 or its equivalent.

LAT. 301. Silver Age Prose (3,0) 3 Cr.
Reading of Pliny's Letters and the Germania of Tacitus. *Prerequisite:* Latin 203 or 204.

LAT. 302. Horace (3,0) 3 Cr.
Readings of selected odes, epodes, satires and epistles. Horace in relation to his age. *Prerequisite:* Latin 203 or 204.

LAT. 303. Medieval Latin (3,0) 3 Cr.
Reading of selections from all types of Latin literature in the Middle Ages. Its relation to the literature in the modern vernaculars. *Prerequisite:* Latin 203 or 204.

LAT. 305. Latin Drama (3,0) 3 Cr.
Reading of representative comedies of Plautus and Terence. Studies in the technique of the Roman theater. *Prerequisite:* Latin 203 or 204.

Polish

POL. 101. Elementary Polish (3,1) 3 Cr.
Fundamentals of Polish with emphasis upon speaking. Laboratory attendance required.

POL. 102. Elementary Polish (3,1) 3 Cr.
Continuation of Polish 101. Laboratory attendance required. *Prerequisite:* Polish 101 or the equivalent.

POL. 201. Intermediate Polish (3,1) 3 Cr.
Further development of the basic skills with emphasis upon reading and writing. Laboratory attendance required. *Prerequisite:* Polish 102 or the equivalent.

POL. 202. Intermediate Polish (3,1) 3 Cr.
Continuation of Polish 201. Laboratory attendance required. *Prerequisite:* Polish 201 or the equivalent.

POL. 301. Polish Conversation and Composition (3,0) 3 Cr.
Practice in spoken and written Polish with emphasis on the spoken language. *Prerequisite:* Pol. 202 or its equivalent.

POL. 302. Polish Conversation and Composition (3,0) 3 Cr.
Practice in spoken and written Polish with emphasis on the written language. *Prerequisite:* Pol. 202 or its equivalent.

POL. 431. Polish Literature in English Translation (3,0) 3 Cr.
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. *Prerequisite:* a basic literature course in English, American, European or World Literature or permission of the instructor. Knowledge of Polish not required.

POL. 432. Modern Polish Literature in English Translation (3,0) 3 Cr.
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. *Prerequisite:* a basic literature course in English, American, European or World Literature or permission of the instructor. Knowledge of Polish not required.

Portuguese

PORT. 101. Elementary Portuguese (3,1) 3 Cr.
Fundamentals of Portuguese with emphasis upon speaking. Available on self-study basis only.

PORT. 102. Elementary Portuguese (3,1) 3 Cr.
Continuation of Portuguese 101. Available on self-study basis only. *Prerequisite:* Portuguese 101 or the equivalent.

PORT. 201. Intermediate Portuguese (3,1) 3 Cr.
Further development of the basic skills with emphasis on reading and writing. Available on self-study basis only. *Prerequisite:* Port. 102 or the equivalent.

PORT. 202. Intermediate Portuguese (3,1) 3 Cr.
Continuation of Portuguese 201. Available on self-study basis only. *Prerequisite:* Port. 201 or the equivalent.

Russian

RUSS. 101. Elementary Russian (3,1) 3 Cr.
Fundamentals of Russian with emphasis upon speaking. Laboratory attendance required.

RUSS. 102. Elementary Russian (3,1) 3 Cr.
Continuation of Russian 101. Laboratory attendance required. *Prerequisite:* Russian 101 or the equivalent.

RUSS. 201. Intermediate Russian (3,1) 3 Cr.
Further development of the basic skills with emphasis upon reading, and writing. Laboratory attendance required. *Prerequisite:* Russian 102 or the equivalent.

RUSS. 202. Intermediate Russian (3,1) 3 Cr.
Continuation of Russian 201. Laboratory attendance required. *Prerequisite:* Russian 201 or the equivalent.

RUSS. 301. Russian Conversation and Composition (3,0) 3 Cr.
Practice in spoken and written Russian with emphasis on the spoken language. *Prerequisite:* Russian 202 or the equivalent.

RUSS. 302. Russian Conversation and Composition (3,0) 3 Cr.
Practice in spoken and written Russian with emphasis on the written language. *Prerequisite:* Russian 202 or the equivalent.

RUSS. 332. (English 332). Russian Literature in Translation (3,0) 3 Cr.
Such writers as Gogol, Pushkin, Turgenev, Goncharov, Tolstoy, Dostoyevsky, Chekhov, Gorky, Bunin, and Pasternak; relationships to western European literature. *Prerequisite:* a basic literature course in English, American, European or World Literature or permission of the instructor. Knowledge of Russian not required.

RUSS. 338. Russian Literature Since the Revolution (3,0) 3 Cr.
An examination of the state of Russian literature from the Revolution to the present. Such writers as Gorky, Sholokhov, Terc, Dudintsev, Solzhenitzyn, Pasternak and Evtysenke. *Prerequisite:* a basic literature course in English, American, European or World Literature or permission of the instructor. Knowledge of Russian not required.

Spanish

SPAN. 101. Elementary Spanish (3,1) 3 Cr.
Fundamentals of Spanish with emphasis on the spoken language. Laboratory attendance required.

SPAN. 102. Elementary Spanish (3,1) 3 Cr.
Continuation of Spanish 101. Laboratory attendance required. *Prerequisite:* Spanish 101 or the equivalent.

SPAN. 103-104. Intensive Spanish (12,4) 12 Cr.
Intensive approach to the learning of Spanish comprising elementary and intermediate Spanish (101 through 202) in one semester.

SPAN. 201. Intermediate Spanish (3,1) 3 Cr.
Further development of the basic skills with emphasis on reading and writing. Laboratory attendance required. *Prerequisite:* Spanish 102 or the equivalent.

SPAN. 202. Intermediate Spanish (3,1) 3 Cr.
Continuation of Spanish 201. Laboratory attendance required. *Prerequisite:* Spanish 201 or the equivalent.

SPAN. 211. Intermediate Spanish — Spanish for Reading (3,0) 3 Cr.
Review of the essentials of Spanish grammar to serve as basis for learning to read Spanish prose rapidly and accurately through a study of contemporary Spanish civilization. Equivalent of Spanish 201. Elective. Not for Spanish majors. *Prerequisite:* Span. 102 or its equivalent.

SPAN. 212. Intermediate Spanish — Spanish for Reading (3,0) 3 Cr.
Review of the essentials of Spanish grammar to serve as basis for learning to read Spanish prose rapidly and accurately through a study of contemporary Spanish civilization. Equivalent of Spanish 202. Elective. Not for Spanish majors. *Prerequisite:* Span. 102 or its equivalent.

SPAN. 301. Spanish Conversation and Composition (3,0) 3 Cr.
Practice in spoken and written Spanish with emphasis on the spoken language. *Prerequisite:* Spanish 202 or the equivalent.

SPAN. 302. Spanish Conversation and Composition (3,0) 3 Cr.
Practice in spoken and written Spanish with emphasis on the written language. *Prerequisite:* Spanish 202 or the equivalent.

SPAN. 303. Introduction to Spanish Literature (3,0) 3 Cr.
Study of basic concepts of literary theory and their application to masterpieces of prose and poetry. *Prerequisite:* Spanish 202.

SPAN. 305. Introduction to the Structure of Spanish (3,0) 3 Cr.
Contrastive analysis of the structure of English and Spanish. *Prerequisite:* Spanish 301-302.

SPAN. 306. The Civilization of Spain (3,0) 3 Cr.
Prerequisite: Spanish 202.

SPAN. 307. Survey of Spanish Literature (3,0) 3 Cr.
The Middle Ages to the Golden Age. *Prerequisite:* Spanish 202.

SPAN. 308. Survey of Spanish Literature (3,0) 3 Cr.
The 18th Century to the present. *Prerequisite:* Spanish 202.

SPAN. 309. The Civilization of Latin America (3,0) 3 Cr.
Prerequisite: Spanish 202.

SPAN. 310. Survey of Spanish American Literature (3,0) 3 Cr.
The Colonial Period to Romanticism. *Prerequisite:* Spanish 202.

SPAN. 311. Survey of Spanish American Literature (3,0) 3 Cr.
Realism to the present. *Prerequisite:* Spanish 202.

SPAN. 400. Medieval Spanish Literature (3,0) 3 Cr.
Study of major works of the medieval period. *Prerequisite:* Spanish 307 or permission.

SPAN. 402. Spanish Drama of the Golden Age (3,0) 3 Cr.
Study of preloistas and analysis of the works of Lope de Vega, Tirso de Molina, Juan Ruiz de Alarcón, and others. *Prerequisite:* Spanish 307 or permission.

SPAN. 404. Cervantes (3,0) 3 Cr.
A detailed reading and analysis of *Don Quixote* or the *Novelas ejemplares*. *Prerequisite:* Spanish 307 or permission.

SPAN. 406. 19th Century Spanish Literature (3,0) 3 Cr.
Critical study of representative works of the period. *Prerequisite:* Spanish 308 or permission.

SPAN. 408. 20th Century Spanish Literature: Poetry and Theater (3,0) 3 Cr.
Prerequisite: Spanish 308 or permission.

SPAN. 409. 20th Century Spanish Literature: Novel, Short Story and Essay (3,0) 3 Cr.
Prerequisite: Spanish 308 or permission.

SPAN. 411. Spanish American Literature of the 19th and 20th Centuries: Novel, Short Story and Essay (3,0) 3 Cr.
Prerequisite: Spanish 310, 311, or permission.

SPAN. 412. Spanish American Literature of the 19th and 20th Centuries: Theater and Poetry (3,0) 3 Cr.
Prerequisite: Spanish 310, 311, or permission.

SPAN. 415. Advanced Grammar and Composition (3,0) 3 Cr.
Prerequisite: Spanish 301-302 or permission.

SPAN. 421. Structure of Modern Spanish (3,0) 3 Cr.
Prerequisite: Spanish 305 or permission.

SPAN. 450. Directed Readings I (3,0) 3 Cr.
Variable. *Prerequisite:* Permission.

SPAN. 451. Directed Readings II (3,0) 3 Cr.
Variable. *Prerequisite:* Permission.

SPAN. 496. Senior Seminar I (3,0) 3 Cr.
Topic to be chosen by professor. *Prerequisite:* Permission.

SPAN. 497. Senior Seminar II (3,0) 3 Cr.
Topic to be chosen by professor. *Prerequisite:* Permission.

Swahili

SWAHILI 101. Elementary Swahili (3,1) 3 Cr.
Fundamentals of Swahili with emphasis

on the spoken language. Available on self-study basis only.

SWAHILI 102. Elementary Swahili (3,1) 3 Cr.
Continuation of Swahili 101. Available on self-study basis only. *Prerequisite:* Swahili 101 or its equivalent.

SWAHILI 201. Intermediate Swahili (3,1) 3 Cr.
Further development of the basic skills with emphasis on reading and writing. Available on self-study basis only. *Prerequisite:* Swahili 102 or its equivalent.

SWAHILI 202. Intermediate Swahili (3,1) 3 Cr.
Continuation of Swahili 201. Available on self-study basis only. *Prerequisite:* Swahili 201 or its equivalent.

Ukrainian

UKR. 101 Elementary Ukrainian (3,1) 3 Cr.
Fundamentals of Ukrainian with emphasis on the spoken language. Laboratory attendance required.

UKR. 102 Elementary Ukrainian (3,1) 3 Cr.
Continuation of Ukrainian 101. Laboratory attendance required. *Prerequisite:* Ukrainian 101 or its equivalent.

GENERAL SCIENCE DEPARTMENT

SCI. 100. Contemporary Topics in Science (3,0) 3 Cr.
Significant and relevant topics to be selected through student-instructor planning and presented through coordinated large and small group sessions. Problems to be studied will deal with life-centered, contemporary issues in relation to their scientific implications.

SCI. 101. Interdisciplinary Science for Elementary School Teachers I (2,2) 3 Cr.
Scientific methods of inquiry exemplified by selected topics from physics and chemistry.

Numbers in parentheses indicate class and laboratory hours per week respectively.

SCI. 103. Interdisciplinary Science for Elementary School Teachers II (2,2) 3 Cr.
Scientific methods of inquiry exemplified by selected topics from astronomy, geology, and meteorology.

SCI. 121. Physical Science for Nonscience Students I (3,0) 3 Cr.
The scientist's approach to the world around him (including, but not limited to: classifying, measuring, predicting, modifying predictions on the basis of further experience, inferring and making explanatory models) developed through a study of matter in the solid state.

SCI. 122. Physical Science for Nonscience Students II (3,0) 3 Cr.

A continuation of Sci. 121. *Prerequisite:* Sci. 121.

SCI. 200. Interdisciplinary Studies of Space (3,0) 3 Cr.

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. 221. Environmental Pollution (2,2) 3 Cr. Introductory course for general-liberal student interested in the contemporary problems of air, water, soil and space pollution. Examination of the causes, effects and possible solutions of the pollution problem with reference to implications from ecology, conservation, chemistry, health and sociology.

SCI. 225. Man and the Natural World I 3 Cr.

Solution of man's conception of the natural world and his relation to it; historical approach to the sciences; from the ancient world to the Age of Newton. *Special Note:* May not be counted for credit with Sci. 409.

SCI. 225L. Man and the Natural World I 1 Cr.

This one credit course is to supply a laboratory accompaniment to Sci. 225 for those who want or need 225 as a laboratory science. *Prerequisite:* Coregistration with Sci. 225, or previous completion of Sci. 225.

SCI. 226. Man and the Natural World II 3 Cr.

Evolution of man's conception of the natural world and his relation to it during the 18th, 19th and 20th Centuries. *Special Note:* May not be counted for credit with Sci. 409.

SCI. 226L. Man and the Natural World II 1 Cr.

This one credit course is to supply a laboratory accompaniment to Sci. 226 for those who want or need 226 as a laboratory science. *Prerequisite:* Coregistration

with Sci. 226, or previous completion of Sci. 226.

SCI. 235. Development of Life in Geologic Time (2,2) 3 Cr.

Evidences of organic evolution in the fossil record; Fossil Man; Evolution of landscape.

SCI. ED. 308. Methods and Materials in Teaching Secondary School Science (4) 4 Cr.

To identify the components of the teaching-learning situation in a science classroom and to illustrate the construction of the components of an optimal teaching-learning situation. An environment in which the students plan and practice a teaching-learning situation will be given to the academic disciplines as well as the interrelationships of secondary school science programs. *Classification:* Required of juniors or seniors majoring in secondary school science. *Prerequisite:* Ed. 203 and Ed. 220; cumulative average of 2.00 or higher; approval by the General Science Department Chairman.

SCI. 322. The Development of Scientific Method 3 Cr.

The evolution of scientific methods from Thales to the present.

SCI. 323. Science as Inquiry (4,0) 3 Cr.

The procedures of science as a search for knowledge of natural phenomena; comparison with other methods of inquiry; implications for non-scientists.

SCI. ED. 408. Practicum in Teaching Science in the Secondary School (30) 12 Cr.

Teaching under supervision at least five days a week for two eight week periods; individual and group instruction; daily and long view planning; unit teaching; classroom management and routine procedure; audio-visual aids; community resources; record keeping; evaluation procedures; participation in total school program. *Classification:* Required of juniors or seniors majoring in Secondary School Science. *Prerequisite:* Sci. Ed. 308; grade of "C" or higher in Sci. Ed. 308; 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 of Eng. 101-102, or equivalent; if referred, satisfactory completion, or exemption from Ex. Ed. 100 (Student Speech Clinic); approval by the General Science Department Chairman.

SCI. 409. Introduction to the History of Science (2,2) 3 Cr.

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. *Prerequisite:* Junior standing as Elementary Education major with a science concentration, or as a major in Biology, Chemistry, Geoscience or Physics.

SCI. 410. Science in the Elementary School Curriculum (2,2) 3 Cr.

Background, purposes and present scope

of science in the elementary school; professional review of subject matter with demonstrations, experiments, audio-visual aids, reading. *Prerequisite:* junior standing.

SCI. 415. Basic Science of Radiation and Radioisotopes (2,2) 3 Cr.

Fundamental principles and techniques in the study of radiation and radioisotopes with emphasis on their measurement and applications, along with an examination of recent advances in radioisotopes and their social implications. *Prerequisite:* Sci. 101 and Sci. 103, or instructor's approval.

SCI. 495. Project

(See Project under Academic Regulations.)

SCI. 499. Independent Study

(See Independent Study under Academic Regulations.)

GEOGRAPHY DEPARTMENT

GEOG. 100. Problems in Geography (3) 3 Cr. Discusses man's role in altering the surface of the earth; introduction to geographic aspects of cultural, economic, political and urban phenomena.

GEOG. 101. Elements of Physical Geography (3) 3 Cr.

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. *Classification:* Required of geography majors.

GEOG. 102. Elements of Cultural Geography (3) 3 Cr.

Nature of cultural geography; relationships between cultural and physical landscapes; man's adaptations to the natural environment; hunting and gathering, herding and farming; effects of technology on land utilization; and problems arising from present occupancy of the land. *Classification:* Required of geography majors.

Number in parentheses indicates class hours per week.

GEOG. 104. World-Economic Geography (3) 3 Cr.

Study of man's major economies; agriculture, manufacturing, mining, forest industries, commercial fishing, commerce, and transportation; effects of the natural environment on the major economies, interdependence of geographic regions. *Classification:* Required of geography majors.

GEOG. 107. Resources and Man (3) 3 Cr.

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. *Classification:* Open to freshmen and sophomores only.

GEOG. 112. World Regional Geography (3) 3 Cr.

The region and geography; physical, cultural, economic and political geographies of selected world regions.

GEOG. 202. Geography of Anglo-America (3) 3 Cr.

Landforms and climates, soils and natural vegetation; land-use regions; distribution of resources; changing pattern of land use; industrial development. *Classification*: Open to sophomores, juniors and seniors.

GEOG. 203. Geography of Middle America (3) 3 Cr.

Physical, cultural, historical and regional geography of Mexico, Central America, and the West Indies; emphasis on man's relationship to the natural environment. *Classification*: Open to sophomores, juniors and seniors.

GEOG. 205. Geography of Asia (3) 3 Cr.
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. *Classification*: Open to sophomores, juniors, and seniors.

GEOG. 206. Geography of New York State (3) 3 Cr.

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. *Classification*: Open to sophomores, juniors, and seniors.

GEOG. 210. Geography of Europe (3) 3 Cr.
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. *Classification*: Open to sophomores, juniors and seniors.

GEOG. 211. Geography of the Soviet Union (3) 3 Cr.

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. *Classification*: Open to sophomores, juniors and seniors.

GEOG. 303. World Climatology (3) 3 Cr.
Discussion of world climatic regions. Fundamentals of climate classification systems. Classification, distribution, and comparative analysis of world climatic regions. *Prerequisite*: Geography 101.

GEOG. 304. Map Interpretation (3) 3 Cr.
History of maps; types of maps; techniques in map interpretation; methods of developing map-reading skills. *Classification*: Open to juniors and seniors.

GEOG. 307. Resource-Use Planning and Conservation (3) 3 Cr.

Discussion of concept of human and cultural resources; nature, use, and management problems of natural resources; planning the use of natural resources for the future.

GEOG. 309. Urban Geography (3) 3 Cr.
Spatial arrangement of land uses existing within the American city; differences between American cities of function, size, and location; dynamics of change in city structure; central place theory and urban structures; and the role of urban geography in city planning. *Classification*: Required for geography majors; open to upper classmen by permission of the instructor.

GEOG. 320. Historical Geography of the United States (3) 3 Cr.

The approach and methods of historical geography; exploration and discovery; regional variation of cultural landscapes; origin and dispersals of selected cultural traits.

GEOG. 401. Development of Geographic Thought (3) 3 Cr.

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. *Classification*: Required of geography majors. Open to History, Sociology, and Political Science majors by permission of the instructor only.

GEOG. 408. Agricultural Geography (3) 3 Cr.
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.

GEOG. 409. Geography of Manufacturing and Service Industries (3) 3 Cr.

Analysis of the manufacturing and service industries of developed economies as illustrated by reference to the United States; classification and description; methods of analysis and the location process; and the spatial distribution of these activities.

GEOG. 410. Resource Use and Urban Planning (3,1 Research) 3 Cr.

Principles and concepts of resource use and urban planning; interrelationships between natural and human resources; urban-metropolitan and regional planning. *Classification*: Open to juniors and seniors. *Prerequisite*: Permission of instructor. *Special Note*: May be elected by graduate students.

GEOSCIENCES DEPARTMENT***GEOS. 101. Physical Geology (2,2) 3 Cr.**

Introduction to weathering, erosion, deposition, mountain building, earthquakes, and volcanism; minerals, rocks, and topographic maps.

Students obtaining credit for Geos. 101 may not obtain credit for Geos. 122.

GEOS. 102. Historical Geology (2,2) 3 Cr.
Origin of the solar system; physical history of the earth in relationship to the orderly development of life throughout geologic time.

GEOS. 121. The Dynamic Earth: Sky, Sea, and Air (2,2) 3 Cr.

Earth motion; solar energy; weather and climate as a result of energy flow through the atmosphere and ocean.

GEOS. 122. Principles of Earth Science: Geology (2,2) 3 Cr.

An investigation of topics from geology and oceanography, selected for their relevance to concepts and processes fundamental to earth science.

*All courses in the Geosciences include occasional field trips.

Numbers in parentheses indicate class and laboratory hours per week respectively.

GEOG. 413. Cartography (4) 3 Cr.

History of cartography; use of drafting materials; the study and construction of map projections and cartograms; principles of map reproduction. *Classification*: Required of geography majors. *Prerequisite*: Geography 101 or permission of the instructor.

GEOG. 415. Proseminar (3) 3 Cr.

Investigation, examination, and discussion of topics of current interest in geography. Techniques and analysis of geographic research. *Prerequisite*: Twelve (12) hours of Geography at least three (3) of which are related to the seminar topic and permission of the instructor.

GEOG. 495. Project

(See project under Academic Regulations.)

GEOG. 499. Independent Study

(See Independent Study under Academic Regulations.)

Students obtaining credit for Geos. 122 may not obtain credit for Geos. 101. (Geos. 121 is not a prerequisite for Geos. 122.)

GEOS. 131. Introductory Astronomy (2,2) 3 Cr.

A non-mathematical survey of the universe. A study of the sun, planets, moons, and comets comprising our solar system will precede an investigation of stars, galaxies, and finally the universe. Course may not be credited toward Major.

GEOS. 132. Introduction to the Astronomy of the Solar System (2,2) 3 Cr.

Sun, moon, planets, and constellations, their positions and movements; astronomical instruments; star maps; time and geographic position determined from celestial observations; origin of the solar system. Observation of the heavens and of the planetarium sky.

GEOS. 133. Introduction to the Galactic Astronomy (2,2) 3 Cr.

Review of the solar system; our sun as a star; classification of stars; Hertzsprung-Russell diagram; binary stars; star clusters; Milky Way and other galaxies; origin of the universe. *Prerequisite:* Geos. 131 or 132.

GEOS. 201. Geomorphology (2,2) 3 Cr.
Landforms with particular reference to the physical principles of the processes that produce them. *Prerequisite:* Geos. 101 or 122, or Geog. 101.

GEOS. 211. General Oceanography (2,2) 3 Cr.

An introduction to the science of the sea; the importance of the oceans in our civilization.

GEOS. 212. Environmental Oceanography (3,0) 3 Cr.

An environmental science approach to the study of the sea. Topics include marine geologic ecology, ocean law, and pollution.

GEOS. 239. Astronomy and Cosmology (3) 3 Cr.

Astronomical data related to the questions of the structure and origin of the universe, stellar evolution and nucleosynthesis. *Prerequisite:* One semester of astronomy.

GEOS. 241. Meteorology (2,2) 3 Cr.

The atmosphere; meteorological instruments; heat balance and temperature; humidity and precipitation; atmospheric pressure; winds and circulation; air masses and fronts; typical wave cyclone; weather analysis and forecasting. *Prerequisite:* Geos. 121 or permission of instructor.

GEOS. 301. Stratigraphy (2,2) 3 Cr.

Basic principles governing the interpretation, correlation, classification, and nomenclature of stratified rock units. *Prerequisite:* Geos. 101, or 102, or 122.

GEOS. 302. Invertebrate Paleontology (2,2) 3 Cr.

A general study of invertebrate fossils and their stratigraphic distribution. *Prerequisite:* Geos. 102 or 122 and one year of biology.

GEOS. 303. Mineralogy (2,2) 3 Cr.

Minerals and their chemical and physical properties; occurrence, identification, and classification; rockforming minerals. *Prerequisite:* Geos. 101 or 122 and one year of chemistry.

GEOS. 401. Petrology (2,2) 3 Cr.

Description, origin, and classification of igneous, sedimentary, and metamorphic rocks. *Prerequisite:* Geos. 303.

GEOS. 402. Structural Geology (2,2) 3 Cr.

Analysis of folds, faults, and other structural features in sedimentary and metamorphic terrains; introduction to rock mechanics; regional tectonics. *Prerequisite:* Geos. 101 or 122.

GEOS. 403. Glacial Geology (2,2) 3 Cr.

A study of glacial processes and features with emphasis upon New York State. *Prerequisite:* Geos. 101 or 122.

GEOS. 404. Field Geology (1,4 or field trips) 3 Cr.

Application of geological principles and techniques in the interpretation of earth features in the field. *Prerequisite:* Geos. 101 or 122.

GEOS. 405. Geology of North America (2,2) 3 Cr.

Major physical provinces of the United States and adjacent areas with reference to their geologic history; structure, and topographic development. *Prerequisite:* Geos. 101 or 122.

GEOS. 406. Geology of New York State (2,2) 3 Cr.

Physiography, stratigraphy, paleontology, glacial geology, and economic geology of New York State; geologic history of the region. *Prerequisite:* Geos. 302.

GEOS. 407. Advanced Invertebrate Paleontology (2,2) 3 Cr.

A study of the identification and classification of major fossil invertebrate groups. *Prerequisite:* Geos. 302.

GEOS. 408. Vertebrate Evolution (3,0) 3 Cr.

Resumé of vertebrate life during the geologic past with emphasis on phylogeny and ancestry. *Prerequisite:* Geos. 302.

GEOS. 409. Tectonics and Earth History 3 Cr.

Study of mountain building and large-

scale movements of continents and sea-floor throughout geologic time; influence of such movements on climates and evolution of life. *Prerequisite:* 4 semesters of geosciences.

GEOS. 411. Advanced Oceanography (2,2) 3 Cr.

A general approach to the physics, chemistry, biology, and geology of the ocean and its floor. *Prerequisite:* Two years of undergraduate biology, chemistry, geology, or physics.

GEOS. 430. Stellar and Galactic Astronomy (3,0) 3 Cr.

Stellar parallax and proper motion; luminosities, colors and spectra of stars; the solar neighborhood; indirect distance measurements of stars; stellar atmospheres; stellar evolution; binary stars. *Prerequisite:* One semester of astronomy and one year of physics.

GEOS. 431. Planetarium Seminar (2,2) 3 Cr.

Operation of the planetarium; history of the planetarium; audio-visual aids; the planetarium sky; implementation in the school curricula; planetarium programming, teaching, and administration. *Prerequisite:* Two semesters of Astronomy.

GEOS. 435. Methods of Observational Astronomy (2,2) 3 Cr.

Characteristics of photographic plates and processes; special needs of astronomical photography; use of filters; telescopes for astronomical photography; astronomical spectroscopy. *Prerequisite:* One semester of astronomy.

GEOS. 461. Geophysics (2,2) 3 Cr.

Study of geophysical procedures and the interpretation of data obtained. *Prerequisite:* 4 semesters of geosciences and 1 year of physics.

GEOS. 493. Interdisciplinary Earth Science 3 Cr.

A study of the revised New York State Regents Earth Science Syllabus. Emphasis will be placed on the inquiry oriented laboratory approach and on the interdisciplinary nature of current courses content in Earth Science. The laboratory will consist of representative investigations from the new Regents syllabus.

GEOS. 495. Project

(See Project under Academic Regulations.)

GEOS. 499. Independent Study

(See Independent Study under Academic Regulations.)

HEALTH, PHYSICAL EDUCATION AND RECREATION DEPARTMENT**Physical Education**

The policy of the Board of Trustees of the State University of New York requires that all regular undergraduate students must complete a physical education program satisfactory to the Chancellor. Completion of three semesters of activity selected from the following courses fulfill this requirement. Each course (1) meets the equivalent of two hours per week for one hour credit; (2) includes instruction in techniques, rules and tactics; (3) involves written and skill evaluations.

Those courses designated with "I" are designed for students with limited previous experience. Those designated by "II" require previous experience in the form of a semester course or equivalent.

Health Science courses do *not* satisfy the above Physical Education requirement.

Activity Courses**Co-ed Physical Education****P.ED. 100—Special Project:**

Limited credit for certain activity experi-

ences not included in list below. Necessary forms must be obtained from HPER office prior to registration.

P.ED. 101—Adapted Physical Education:
Activities for medically referred students.

P.ED. 102—Archery I

P.ED. 103—Badminton I

P.ED. 104—Bowling I

P.ED. 105—Fencing I

P.ED. 106—Folk Dance I

P.ED. 107—Tap Dance I

P.ED. 108—Jazz Dance

P.ED. 109—Swim—Interm.

P.ED. 110—Modern Dance I

P.ED. 111—Elem. Games

P.ED. 112—Fencing II

P.ED. 113—Modern Dance II

P.ED. 114—Badminton II

P.ED. 115—Life Saving

Students must be of intermediate swimmer level or secure permission of instructor. American Red Cross course requirements must be met.

P.ED. 116—Folk Dance II

P.ED. 117—Volleyball

P.ED. 118—Golf

Women's Physical Education

P.ED. 120—Archery I

P.ED. 121—Badminton I

P.ED. 122—Bowling I (Less than 100 average)

P.ED. 123—Fencing I

P.ED. 126—Golf I

P.ED. 127—Gymnastics I

P.ED. 129—Paddle Rackets I

P.ED. 130—Physical Fitness I

P.ED. 131—Rhythmic Movement I

P.ED. 132—Skiing I (Ski slopes)

P.ED. 133—Swim—Non-Swimmers

P.ED. 134—Swim—Beginner

P.ED. 135—Swim—Intermediate

P.ED. 136—Swim—Advanced (synchronized, competitive, games)

P.ED. 138—Tennis I

P.ED. 139—Volleyball I

P.ED. 140—Badminton II

P.ED. 141—Elementary Games

P.ED. 142—Squash Rackets I (one semester of racket sport or equivalent)

P.ED. 148—Tennis II

P.ED. 158—Paddle Rackets—Tennis

P.ED. 160—Swim—Physical Fitness

P.ED. 164—Skiing—Conditioning (Campus)

P.ED. 167—Field Hockey—Volleyball

Men's Physical Education

P.ED. 170—Badminton—Softball

P.ED. 171—Swim—Tennis

P.ED. 172—Bowling—Paddle Rackets

P.ED. 173—Soccer—Bowling

P.ED. 174—Bowling—Softball

P.ED. 175—Handball—Paddle Rackets

P.ED. 176—Physical Fitness—Wrestling

P.ED. 177—Bowling—Golf

P.ED. 178—Swim (Beginning)

P.ED. 179—Aquatic Sports

P.ED. 180—Tennis—Squash

P.ED. 181—Volleyball

P.ED. 182—Weight Training—Speedball

P.ED. 183—Track and Field—Weight Training

P.ED. 184—Badminton

P.ED. 185—Men's Fencing (Foils)

P.ED. 186—Bowling

P.ED. 187—Softball (9 weeks)

P.ED. 188—Badminton—Tennis

P.ED. 189—Skiing I & II

P.ED. 190—Men's Fencing (Sabre & Epee)

P.ED. 191—Soccer

P.ED. 192—Weight Training—Physical Fitness

P.ED. 193—Paddle Rackets—Squash

P.ED. 198—Tennis

P.ED. 199—Golf

Note: Students who have taken one activity of a combination should register for a course involving other activities. Activities may not be repeated for credit.

Physical Education Theory — Elective

P.ED. 195. Introduction to Physical Education and Related Fields (3) 3 Cr.

Critical orientation to nature and scope of Physical education.

P.ED. 202. Techniques and Theories of Soccer (3) 3 Cr.

A complete analysis of the sport of soccer with particular emphasis on history, present status, rules, techniques and theories. Designed for the fan, player, and potential coach alike. *Classification:* Elective for sophomore, junior, and senior. *Prerequisite:* None.

P.ED. 203. Techniques and Theories of Football (3) 3 Cr.

A complete analysis of the sport of football with particular emphasis on history, present status, rules, techniques and theories. Designed for the fan, player, and potential coach. *Classification:* Elective for sophomore, junior, and senior. *Prerequisite:* None.

P.ED. 204. Techniques and Theories of Track and Field (3) 3 Cr.

A complete analysis of the sport of track and field with particular emphasis on history, present status, rules, techniques and theories. Designed for the fan, player, and potential coach. *Classification:* Elective for sophomore, junior, and senior. *Prerequisite:* None.

P.ED. 207. Techniques and Theories of Baseball (3) 3 Cr.

A complete analysis of the sport of baseball with particular emphasis on history,

Number in parentheses indicates class hours per week.

present status, rules, techniques and theories. Designed for the fan, player, and potential coach. *Classification:* Elective for sophomore, junior, and senior. *Prerequisite:* None.

P.ED. 208. Techniques and Theories of Swimming (3) 3 Cr.

A complete analysis of the sport of swimming with particular emphasis on history, present status, rules, techniques and theories. Designed for the fan, player, and potential coach. *Classification:* Elective for sophomore, junior, and senior. *Prerequisite:* None.

P.ED. 209. Techniques and Theories of Basketball (3) 3 Cr.

A complete analysis of the sport of basketball, with particular emphasis on history, present status, rules, techniques and theories. Designed for the fan, player, and potential coach. *Classification:* Elective for sophomore, junior and senior. *Prerequisite:* None.

P.ED. 210. Water Safety Instruction (1,3 in pool) 3 Cr.

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. *Classification:* Elective for sophomore, junior, and senior men and women. *Prerequisite:* P.ED. 115 or a current valid Senior Red Cross Life Saving card and the consent of the instructor.

P.ED. 251. Physical Education Skills I (6) 3 Cr.

Group games of low organization suitable for all ages with an emphasis on games for the elementary grades. Dance skills and activities suitable for grades one through six. *Classification:* Elective. *Prerequisite:* None.

P.ED. 252. Physical Education Skills II (6) 3 Cr.

Skill development, skill analysis, and learning progressions in basketball, field hockey, softball, soccer and volleyball. Dance suitable for the junior and senior high levels. Includes folk and square;

social (ballroom); movement as creative dance experience. *Classification*: Elective. *Prerequisite*: None.

P.ED. 253. Physical Education Skills III
(6) 3 Cr.

Skill development, skill analysis, and learning progressions in the individual and dual sports, archery, badminton, bowling, fencing, golf, tennis, track and field, and in selected recreational games. *Classification*: Elective. *Prerequisite*: None.

P.ED. 254. Physical Education Skills IV
(6) 3 Cr.

Skill development, skill analysis and teaching progressions in gymnastics, stunts and tumbling, and modern dance. *Classification*: Elective. *Prerequisite*: None.

P.ED. 256. Physical Education Skills V (2)
1 Cr.

Skill development, skill analysis and teaching progressions in aquatic activities. *Classification*: Elective. *Prerequisite*: None.

P.ED. 301. Principles of Physical Education
(3) 2 Cr.

Principles of physical education: physical education in the elementary and early secondary school; teaching motor skills; fundamental play, relays, lead-up games; rhythms, stunts and classroom games; selection of activities; safety in physical education. *Classification*: Elective for upperclassmen. *Prerequisite*: None.

P.ED. 325. Physical Education for Children
(4) 3 Cr.

Lecture and laboratory experiences stressing development of the child through physical education activities. *Classification*: Elective for upperclassmen, especially elementary and exceptional education students. *Prerequisite*: P.ED. 141 or P.ED. 251, either of which may be taken concurrently.

P.ED. 330. Physical Education and Recreation for the Exceptional Child (3) 3 Cr.

Lecture and laboratory experiences emphasizing the study of programs of physical education and recreation for the

*General-liberal

exceptional child who may have intellectual and/or motor disabilities. *Classification*: Elective for second semester upperclassmen with a declared major in elementary education or exceptional education. *Prerequisite*: Ex.Ed. 101, Ex.Ed. 209, Ex.Ed. 101-102.

P.ED. 420. Organization and Conduct of Physical Education (3) 3 Cr.

Examination of organizational structures; supervising and administrative devices involved in Physical Education: management of equipment and facilities, scheduling, personal and public relation, operating an intramural program. *Classification*: Elective for seniors.

P.ED. 450. Officiating Seasonal Sports (3)
1 Cr.

Lecture and laboratory experience in rules and techniques of officiating competitive sports for women. May be elected more than once to cover official ratings in seasonal sports. *Classification*: Elective for Women. *Prerequisite*: None.

P.ED. 495. Project
(See Project under Academic Regulations).

P.ED. 499. Independent Study
(See Independent Study under Academic Regulations).

Health Education

***H.S.C. 204. Personal and Community Health** (3) 3 Cr.

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 in a modern world society. Included are critical issues such as Alcohol, Drugs, Tobacco, among other areas, legally mandated in New York State Public Schools.

H.S.C. 400 & 400g. Seminar on Smoking 2 Cr.
A workshop designed for teachers, supervisors and other personnel concerned with individual and community health problems. Emphasis is placed upon development of an understanding of the

widespread effects of smoking, its relationship to health and disease, and the implications and application for health teaching.

H.S.C. 410 & 410g. New York State Institute on Alcohol Problems 3 Cr.

An institute designed for teachers, supervisors and voluntary and governmental agency personnel concerned with individual and community health problems. Emphasis is placed upon development of an understanding of the widespread effects of alcohol, its relationship to health and disease, and the implication and application for health teaching and therapy.

Recreation

REC. 204. Organization and Leadership in Recreation (3) 3 Cr.

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. *Classification*: Elective for sophomore, junior and senior men and women.

Dance

Fine Arts Elective

***DANCE 201. Rhythmic Analysis and Dance** (3) 3 Cr.

Awareness and perception of rhythm. Analysis of rhythm in relation to music and movement, and to various forms of dance. Rhythmic devices utilized in dance. Study and application of percussion instruments as accompaniment for movement and dance. *Classification*: Elective for men and women. *Prerequisite*: None.

***DANCE 220. Survey of Afro-American Dance** (3) 3 Cr.

A lecture-studio course which emphasizes the contributions of the black man to all areas and forms of dance. West African, West Indian, jazz, and modern dance forms are studied in depth. *Classification*: Elective. *Prerequisite*: None.

*General-liberal

***DANCE 224. Dance Appreciation** (3) 3 Cr.
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. *Classification*: Elective. *Prerequisite*: None.

***DANCE 250. Jazz Dance** (6) 3 Cr.
A concise survey of the techniques and styles of jazz dance, from primitive to rock, 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. *Prerequisites*: P.E. 108, P.E. 110 or consent of instructor.

***DANCE 260. Movement for Actors** (4) 2 Cr.
Designed to give the student actor a knowledge and awareness of his body so he can more fully incorporate the physical dimensions of acting into his character portrayals. The course is comprised of a pluralistic series of movement experiences, including the basic problems of posture and carriage as well as the advanced problems of the physicalization of a character. Number in parentheses indicates the class hours per week.

***DANCE 302. Modern Dance Technique and Presentation** (6) 3 Cr.

Designed for elementary dance production and experimentation. Fundamental principles of movement in relation to dynamics, rhythm and space; development of original movement patterns; elementary dance composition. Philosophy and theory of scenography for the dance. *Classification*: Elective for men and women. *Prerequisite*: One semester of Modern Dance or equivalent. *Special Note*: It is recommended that students elect P.Ed. 201 and Art 444.

***DANCE 303. Dance Composition** (6) 3 Cr.
Research in individual and group composition; experimentation with various approaches to dance composition; evaluation of original compositions. *Classification*: Elective for men and women. *Prerequisite*: One semester of Modern Dance or equivalent.

HISTORY DEPARTMENT**HIST. 101. United States in the Twentieth Century (3) 3 Cr.**

Political reform and reaction; isolationism, interventionism, and internationalism in foreign relations; big government, industry, and labor; revolution in foreign policy; national security in the nuclear age; social and intellectual ferment in a pluralistic society. *Classification:* Elective for freshmen and sophomores. American History Group A for Elementary Education. Required for Liberal Arts History Majors.

HIST. 102. Foundations of Western Civilization (3) 3 Cr.

Major contributions of three civilizations — Greek, Roman and Medieval — to the Western heritage in philosophy, art, literature, science, government, law and economy. *Classification:* Required of secondary Social Studies majors. Elective for freshmen and sophomores.

HIST. 103. Twentieth Century Europe (3) 3 Cr.

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 Fascism and National Socialism; the Western Democracies between the Wars, the road to World War II; restoration of the Atlantic Community, and the challenge of the Nuclear Age. *Classification:* Elective for freshmen and sophomores. European History Group B for Elementary Education.

HIST. 110. History and Ideas (3) 3 Cr.

Ideas in history examination of selected problems in an historical frame of reference with emphasis upon the techniques of critical analysis, writing, and class discussion. Designed for freshmen and sophomores without any college level history courses. *Classification:* Elective for freshmen and sophomores.

HIST. 201. Social and Intellectual Development of the American People to 1900 (3) 3 Cr.

Colonial society and thought; American

Revolution as a social movement; equalitarian ideas and transcendentalism in the Jacksonian Period; impact of immigration on American religious groups; Civil War and social change; rise of the city; Social Darwinism at home and abroad. *Classification:* Elective for freshmen and sophomores. American History Group A for Elementary Education.

HIST. 202. Political and Economic Growth of the United States to 1900 (3) 3 Cr. European expansion in the New World; colonial life and problems; revolution and independence; the constitution and political parties; national growth and the common man; continental expansion; sectional economic systems and the Civil War; impact of industrialization; party politics; imperialism and world power. *Classification:* Elective for freshmen and sophomores. American History Group A for Elementary Education.

HIST. 204. European Social and Intellectual History Since 1500 (3) 3 Cr.

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; Fascism and Communism. *Classification:* Elective for freshmen and sophomores.

HIST. 207. History of Spain (3) 3 Cr.

Geography; pre-Roman period; Roman and Visigothic eras; Islamic Spain; the Christian Reconquest; era of the Catholic Kings; age of Spanish and Portuguese imperialism; the Golden Age of Spain; Enlightenment and reform in the 18th century; impact of French Revolution in Spain; recent developments in modern Spain. *Classification:* Elective for freshmen and sophomores, and students concentrating in Latin American Studies.

HIST. 208. History of England Since 1485 (3) 3 Cr.

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. *Classification:* Elective for freshmen and sophomores.

HIST. 209. History of Latin America: The Colonial Era (3) 3 Cr.

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. *Classification:* Elective for freshmen and sophomores in History other than European or United States. Elementary Education — Group B.

HIST. 210. History of the Far East: The Revolutionary Era (3) 3 Cr.

China, Korea, Japan and Southeast Asia in modern times; rise of nationalism; challenge of communism; problems of modernization and nation-building. *Classification:* Elective for freshmen and sophomores in History other than European or United States. Elementary Education — Group B.

HIST. 211. History of Modern Africa Since 1919 (3) 3 Cr.

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. *Classification:* Elective for freshmen and sophomores in History other than European or United States. Elementary Education — Group B.

HIST. 212. History of the Jews in Europe (3) 3 Cr.

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. *Classification:* All college elective.

HIST. 213. History of Cities in Western Civilization (3) 3 Cr.

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. *Classification:* Elective for freshmen and sophomores.

HIST. 302. History and Government of New York State (3) 3 Cr.

Aboriginal background; development of the colony; establishment of the state; rise of political parties; past and present structure and problems of New York State government; economic and social growth to the present time. *Classification:* Limited to students in social studies programs in Secondary Education and Liberal Arts.

HIST. 304. Europe From Napoleon to the First World War (3) 3 Cr.

Major influences in nineteenth century Europe; nationalism, imperialism, Industrial Revolution, democracy and socialism; causes of World War I. *Classification:* Elective for juniors and seniors.

HIST. 306. History of Africa to 1919 (3) 3 Cr.

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. *Classification:* Elective for sophomores, juniors, and seniors in History other than European or United States.

HIST. 309. American Leaders (3) 3 Cr.

Selected leaders in critical periods or areas of American Civilization, such as: Benjamin Franklin and Revolutionary America; John Marshall and Federal Power; Booker T. Washington and W. E. DuBois — Contrasting Negro Leaders; Lincoln Steffens and the Muckrakers; Henry Ford and Mass Production. *Classification:* Elective for juniors and seniors.

HIST. 310. History of the Far East: The Traditional Era (3) 3 Cr.

China, Korea and Japan before the coming of the West; traditional cultures, geography, political and religious institutions; impact of Western ideas and colonialism. *Classification:* Elective for sophomores, juniors, and seniors in History other than European or United States.

HIST. 311. American Immigration and Emigration (3) 3 Cr.

Causes and description of world population movements; background of American immigrants; how and why they came; immigrant influences; those who did not stay; American nativism; immigration policy and immigration law; the future of immigration history. *Classification:* Elective for sophomores, juniors and seniors.

HIST. 312. History of Italy (3) 3 Cr.

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. *Classification:* All college elective.

HIST. 313. (Pol. Sc. 313). Politics and History of the Middle East (3) 3 Cr.

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. *Classification:* Elective.

HIST. 314. History of Latin America: The National Era (3) 3 Cr.

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. *Classification:* Required of students majoring in Latin American Studies. Elective for sophomores, juniors and seniors.

HIST. 318. History of Russia to 1917 (3) 3 Cr.

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. *Classification:* Required of students majoring in Soviet and East Central European Studies. Elective for sophomores, juniors and seniors.

HIST. 319. Colonial History of the American People (3) 3 Cr.

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. *Classification:* Elective for sophomores, juniors, and seniors.

HIST. 321. History of Medieval Europe (3) 3 Cr.

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 synthesis; rise of monarchies, decline of Papacy; decline of Medieval Civilization. *Classification:* Elective for sophomores, juniors, and seniors.

HIST. 335. History of Mexico (3) 3 Cr.

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. *Classification:* Elective for sophomores, juniors, and seniors.

HIST. 340. Indians of the United States (3) 3 Cr.

The physical setting of the United States; Indian culture; invasion of Indian lands by French, Spanish, English, and Dutch; the processes of cooperation, conflict, accommodation, dependency, and/or elim-

ination; Indian policy of the United States; revival of Indian consciousness; the Indian today. *Classification:* Elective for juniors and seniors.

HIST. 342. English Legal History (3) 3 Cr.

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. *Classification:* Elective for sophomores, juniors, and seniors; elective by advisement for Criminal Justice majors.

HIST. 350. Left and Right in European History (3) 3 Cr.

The evolution of Marxist, anarchist, state socialist and right-radical ideologies in European thought and politics. *Prerequisite:* Upper division standing or approval of instructor.

HIST. 400. Twentieth Century European Diplomacy (3) 3 Cr.

Causes and diplomatic problems of World Wars I and II; the Paris Peace Conference and interwar diplomacy; peacemaking in the Cold War era; the European movement; Gaullism and its consequences. *Classification:* Elective for juniors and seniors. *Special Note:* May be elected by graduate students.

HIST. 401. American Expansion Since 1783 (3) 3 Cr.

Territorial acquisition through annexation, purchase, conquest, occupation and diplomatic negotiation; policies of government administration; imperialism — economic, strategic and benevolent. *Classification:* Elective for juniors and seniors. *Special Note:* May be elected by graduate students.

HIST. 402. History of the Soviet Union (3) 3 Cr.

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 sys-

tem and other cultural developments. *Classification:* Required of students majoring in Soviet and East Central European Studies. Elective for juniors and seniors. *Special Note:* May be elected by graduate students.

HIST. 403. American Diplomatic History to 1898 (3) 3 Cr.

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. *Classification:* Elective for juniors and seniors. *Special Note:* May be elected by graduate students.

HIST. 404. The South, Sectionalism, and the Civil War (3) 3 Cr.

Sectional life and sectionalism; proslavery and anti-slavery crusades; military conduct of the war; constitutional and diplomatic problems; life behind the lines; political, social and economic reconstruction. *Classification:* Elective for juniors and seniors. *Special Note:* May be elected by graduate students.

HIST. 405. The Renaissance and Reformation (3) 3 Cr.

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. *Classification:* Elective for juniors and seniors. *Special Note:* May be elected by graduate students.

HIST. 406. The French Revolution and Napoleon (3) 3 Cr.

Political, social, economic and intellectual fabric of the Old Regime; the Revolution; dictatorship of Napoleon and spread of revolutionary ideas; rise of modern nationalism. *Classification:* Elective for juniors and seniors. *Special Note:* May be elected by graduate students.

HIST. 407. Germany Since 1871 (3) 3 Cr.

History, government and political thought; anti-democratic forces; economic and cul-

tural developments; rise and impact of Nazi totalitarianism. *Classification*: Elective for juniors and seniors. *Special Note*: May be elected by graduate students.

HIST. 408. History of American Thought (3) 3 Cr.

Sources of major bodies of thought and ideas in American History; their impact upon American culture; the role that ideas have played in producing a distinctive culture. *Classification*: Elective for juniors and seniors. *Special Note*: May be elected by graduate students.

HIST. 409. Seminar in Problems of American History (3) 3 Cr.

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*: Required of Secondary Social Studies majors; elective for Liberal Arts, History majors. *Prerequisite*: Senior status and official standing in Secondary Social Studies program or Liberal Arts History program.

HIST. 410. American Labor History (3) 3 Cr.

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. *Classification*: Elective for juniors and seniors. *Special Note*: May be elected by graduate students.

HIST. 411. Social and Intellectual History of Latin America (3) 3 Cr.

Colonial society and thought; social movements during the Wars of Independence; immigration, urbanization, and modernization since Independence, impact of positivism and modernism on Latin American thought, nativism and Yankeephobia; social change, social problems and the Latin American search for identity as expressed in its twentieth century art and culture. *Classification*:

Elective for juniors and seniors. *Special Note*: May be elected by graduate students.

HIST. 412. History of East Central Europe (3) 3 Cr.

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. *Classification*: Required of students majoring in Soviet and East Central European Studies. Elective for juniors and seniors. *Special Note*: May be elected by graduate students.

HIST. 414. History of the Balkans Since 1453 (3) 3 Cr.

Significant social, political, and economic developments in Southeast Europe; rise and fall of the Ottoman Empire; development of individual Balkan states; clash of the great powers in the Balkans; adjustment of the area to industrialization and Communism. *Classification*: Required of students majoring in Soviet and East Central European Studies. Elective for juniors and seniors. *Special Note*: May be elected by graduate students.

HIST. 416. Principles and Techniques of Operating an Historical Agency (3) 3 Cr.

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. *Classification*: Elective for juniors and seniors. *Prerequisite*: At least one course in American history. *Special Note*: May be elected by graduate students with special permission.

HIST. 417. American Diplomatic History Since 1898 (3) 3 Cr.

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. *Classification*: Elective for juniors and seniors. *Special Note*: May be elected by graduate students.

HIST. 418. The History Museum and Its Presentation of History (3) 3 Cr.

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. *Classification*: Elective for juniors and seniors. *Prerequisite*: At least one course in American history. *Special Note*: May be elected by graduate students with special permission.

HIST. 419. Curatorship (3) 3 Cr.

An examination in detail of principles and techniques of collection and care of museum collection, the library, manuscript collection, audio-visual materials, archives, iconography, and historic sites; development of professional expertise in curatorship. *Classification*: Elective for juniors and seniors. *Special Note*: May be elected by graduate students.

HIST. 420. Administration of the Historical Agency or Museum (3) 3 Cr.

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. *Classification*: Elective for juniors and seniors. *Prerequisite*: History 416. *Special Note*: May be elected by graduate students with special permission.

HIST. 421. Afro-American History (3) 3 Cr.

The African 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. *Classification*: Elective for sophomores, juniors, and seniors.

HIST. 422. Tudor and Stuart England (3) 3 Cr.

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. *Classification*: Elective for juniors and seniors. *Special Note*: May be elected by graduate students.

HIST. 423. History of the Byzantine Empire (3) 3 Cr.

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. *Classification*: Recommended for the M.A. degree in East European History and for an undergraduate concentration in Soviet and East Central European Studies. *Prerequisite*: Upperclass-graduate standing or permission of the instructor. *Special Note*: May be elected by graduate students.

HIST. 425. Medieval Slavic History (3) 3 Cr.

A study of the historical, social, economic and cultural development of the Slavic Peoples of East Central Europe, Eastern Europe and the Balkan Peninsula during the Middle Ages. *Classification*: Recommended for the M.A. degree in East European History and for an undergraduate concentration in Soviet and East Central European Studies. *Prerequisite*: Upperclass or graduate standing, or the permission of the instructor. *Special Note*: May be elected by graduate students.

HIST. 430. New Nation (3) 3 Cr.

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. *Classification*: Elective for juniors and seniors. *Special Note*: May be elected by graduate students.

HIST. 460. Seminar in Asian History (3) 3 Cr.

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. *Classification*: Elective for juniors and seniors in Secondary Social Studies or

Liberal Arts history majors. *Prerequisite:* Three hours of Asian history and three hours in social science related to Asia.

HIST. 470. Seminar in European History
(3) 3 Cr.

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. *Classification:* Required of students ma-

joring in Soviet and East Central European Studies. Elective for juniors and seniors in Secondary Social Studies or Liberal Arts history majors. *Prerequisite:* Six hours of European History.

HIST. 495. Project
(See Project under Academic Regulations.)

HIST. 499. Independent Study
(See Independent Study under Academic Regulations.)

HOME ECONOMICS EDUCATION DEPARTMENT

HEE 217. Dimensions of Home Economics
3 Cr.

Exploratory course for home economics education students to develop understanding of the several aspects of careers within the field; teaching in middle, junior high, senior high school, home economics occupational, adult education, extension service, exceptional education, community service, foreign service. Observations in selected situations. *Classification:* Elective prior to the Professional Semester.

HEE 417. Home Economics in the Urban Setting 3 Cr.

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. *Classification:* Elective for HEE majors; others by permission.

HEE 424. Adult Experiences in Home Economics 3 Cr.

Introductory course in adult experiences in Home Economics. Consideration of nature, scope, organizational procedures, methods, materials, for teaching adults and out-of-school youth. *Classification:* Elective for HEE majors; others by permission.

HEE 429. Home Economics and International Education (3,0) 3 Cr.

Exploratory course to increase understanding of Home Economics in world education. Investigation of Home Eco-

nomics programs in underdeveloped countries; contributions of private and government agencies to international service and education, study of Home Economics programs overseas; consideration of opportunities for service abroad. *Classification:* Upper division elective. *Special Note:* May be elected by graduate students.

HEE 435. Occupational Education in Home Economics 3 Cr.

Philosophical, social, economic bases, curriculum methods, materials, media necessary for planning and developing programs in home economics to prepare persons for gainful employment; observation in related employment education situations. *Classification:* Elective for HEE majors; others by permission. *Special Note:* May be elected by graduate students.

HEE 460. Professional Semester 6 Cr.

Principles of learning, study of curricula, methods, resources, evaluation procedures and problems encountered in teaching. *Classification:* Required of HEE majors. *Prerequisites:* Cumulative average of "C" and Ed. 203.

HEE 461-462. Professional Semester (daily) 9 Cr.

Student teaching experience in the New York State home economics program supervised experience in cooperating schools. *Classification:* Required of HEE majors. *Concurrent:* HEE 460; cumulative average of "C".

HEE 490. Field Experience. Credit to be arranged.

A course to provide students the opportunity to have experience related to their majors in public or private agencies, in business organizations, or in educational institutions. Registration by permission

of the faculty. Obtain necessary forms in Room CH 114F.

HEE 495. Project
(See Project under Academic Regulations); obtain necessary forms in Room CH 114F.

HUMAN DEVELOPMENT, FAMILY AND COMMUNITY RELATIONS

***HDFCR 109. Human Development and Family Relations—Conception Through Pre-Adolescence** (3,1) 3 Cr.

Individual development from conception through the pre-adolescent years within the family setting. Family relationships during the beginning and expectant phases, the child-bearing and child-rearing stages of the family development cycle. Scientific method as it applies to study of child and family. *Classification:* Required of HDFCR majors and Home Economics Education majors.

***HDFCR 119. Interpersonal Relations** (3,0) 3 Cr.

This course examines the processes by which individuals attempt to reconcile their needs with the needs and demands of significant others in various settings. Some topics to be considered are: identity, achievement, dependency, sexuality, anxiety, prejudice and social sensitivity. *Classification:* An all College elective.

HDFCR 201. Preparation For Marriage and Family (3,0) 3 Cr.

This functional course examines and analyzes preparation for marriage and family relationships. All College elective. May not be credited towards HDFCR major.

HDFCR 203. The Child In The Family (3,0) 3 Cr.

A functional course emphasizing key concepts in family organization, parent roles and responsibilities, child growth, care and guidance. *Classification:* Required for students in the planned sequence of 12 semester hours for child-care personnel.

*General-liberal

***HDFCR 209. Human Development and Family Relations—The Adolescent Years Through Young Adulthood** (3,0) 3 Cr.

Individual development during adolescence and young adulthood, family relationships in early marriage. *Classification:* Required of HDFCR majors and Home Economics Education majors. *Prerequisite:* HDFCR 109.

***HDFCR 212. The Family in Society and Culture** (3,0) 3 Cr.

Study of the family against a background of social and cross-cultural perspectives. Social variation in family organization, community relationships. *Classification:* All College elective.

HDFCR 218. Laboratory in The Study of Young Children (2,2) 3 Cr.

Brief perspective of various philosophies of early childhood education with findings of recent research; program planning participation in the nursery school; recording and evaluating behavior; techniques for parent-teacher conferences. *Classification:* Elective. *Prerequisite:* HDFCR 109 or Ed. 101 or its equivalent.

HDFCR 229. Techniques and Materials for Pre-Kindergarten Groups (3) 3 Cr.

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 and language arts experiences); current trends in the education of young children. *Classification:* Required for students in the planned sequence of 12 semester hours of in-service training for child care center personnel.

Elective for college students interested in human service and nursery school careers. *Prerequisite:* HDFCR 109 or its equivalent.

***HDFCR 309. The Adult In Contemporary Society (3,0) 3 Cr.**

A consideration of the changing roles, conflicts, adjustments, dilemmas, aspirations, potentials, responsibilities, rights, freedoms and concerns of today's adults, reflected in research and theory. *Classification:* All College elective.

HDFCR 317. Experimental Child and Family Studies (3,0) 3 Cr.

The application of research methodology to the field of human development with particular emphasis on child and family studies. *Classification:* Elective. *Prerequisite:* HDFCR 109, 209 or 309. HDFCR 212 or Soc. 203 is recommended. Psych. 206 or Soc. 306 or Mathematical Statistics is strongly recommended.

***HDFCR 319. Social Dynamics of Poverty (3,0) 3 Cr.**

An analysis of the effects of poverty upon individual and family development reflected in various co-cultural groupings including American Indian, Appalachian White, central city and rural Blacks, Migrant Workers and Puerto Ricans. This course is designed for students working or planning to work with people in poverty. *Classification:* Elective for Juniors and Seniors.

HDFCR 320. Organization of Community Services (3,0) 3 Cr.

A survey of the growing, changing and complex network of community agencies established to help people solve their problems and reach personal goals. This course is designed primarily for HDFCR majors, urban studies, criminal justice majors and other students seeking an understanding of community organizations. *Classification:* Upper division elective. Required of all HDFCR students contemplating HDFCR 490.

HDFCR 409. Essentials of Sex Education Programs (3) 3 Cr.

Course examines philosophies, approaches, content and materials related to the education for sexuality in a variety of

settings. *Prerequisite:* HDFCR 310 or by permission of instructor. *Special Note:* May be elected by graduate students.

HDFCR 418. Working With Parents (3,0) 3 Cr.
The dynamics of working with parents, individually or in groups for purpose of enhancing their understanding of their children or of themselves as family members. Course is designed for current or future teachers, principals or family development specialists. *Classification:* Elective. *Prerequisites:* HDFCR 109, 209, or Ed. 101, 102.

***HDFCR 419. Introduction to Social Welfare (3,0) 3 Cr.**

A course designed to give students an introductory understanding of the profession of social work and its relation to the institutional development of the social welfare movement. *Prerequisites:* HDFCR 109 and 209; Soc. 101 or equivalent. *Classification:* Juniors and Seniors only.

HDFCR 422. Principles of Social Group Work (3,0) 3 Cr.

A basic course for students preparing for careers in the human helping services covering principles, concepts and methods of social group work and their application in agencies, institutions and communities. *Classification:* Juniors and Seniors only. *Prerequisite:* HDFCR 109 and 209, and/or equivalent work in education, sociology or psychology.

HDFCR 429. Cognitive and Socialization Programs for Pre-Kindergarten Urban Children (3,0) 3 Cr.

Consideration of the cognitive and socialization needs of young children living in an urban society; emphasis is placed on research for program planning and implementation. *Prerequisites:* HDFCR 109, 218 or 229; Psych. 204 or 255 or Education 203 is recommended. *Classification:* Upper Division elective.

HDFCR 430. Issues of the Modern American Family (3,0) 3 Cr.

Social, psychological and related concerns of the American family in the contemporary community. *Classification:* Elective. *Prerequisites:* HDFCR 109, 209, 212 or Soc. 203. *Note:* May be elected by graduate students.

HDFCR 440. Psychopathology in Parent Child Relations (3,0) 3 Cr.

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 resources. Strong emphasis will be placed on theoretical and empirical findings. *Prerequisites:* HDFCR 109 and 209. Psychology 211 is recommended. *Classification:* Juniors and Seniors only.

HDFCR 441. Interventive Methods (3,0) 3 Cr.

A course designed to acquaint students with the variety of interventive methods utilized by social service and mental health professionals and pre-professionals, including interviewing, psychotherapies, crisis-centered approaches and family counseling. Emphasis will be placed upon application of selected methods. *Classification:* Restricted to Upper Division Majors in HDFCR. *Prerequisites:*

INDUSTRIAL ARTS EDUCATION DIVISION

I.A. 102. Forest Products Technology (6) 3 Cr.

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.

I.A. 103. Technical Drawing (6) 3 Cr.

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.

I.A. 104. Technical Drawing and Production Planning (6) 3 Cr.

Idea development, sketching, product design, working drawings, reproductions,

Number in parentheses indicates class hours per week.

*General-liberal

HDFCR 109, 209; Psychology 101, Psychology 211—Personality and Psychology 311—Abnormal Psychology are strongly recommended.

HDFCR 485. Senior Seminar (3,0) 3 Cr.

Intensive analysis of selected topics in HDFCR. Required for Senior majors.

HDFCR 490-494. Field Instruction (Practicum) (1,7) (Credits to be arranged 8 hrs. of field work per 3 hrs. credit)

Closely supervised human helping services practicum in child guidance, family services, mental health, pre-kindergarten, social services and other central city settings. Registration by permission of Department Chairman. *Prerequisites:* HDFCR 109, 209, 320, 441 (prerequisite or co-requisite.)

HDFCR 495. Project

(See Project under Academic Regulations.)

manufacturing processes and operations, cost analysis, sales and servicing, illustrations, and drafting room procedures. *Prerequisite:* I.A. 103 or equivalent.

I.A. 106. Metal Technology (5) 3 Cr.

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.

***I.A. 115. Survey of Industrial Pollution Control Problems (3) 3 Cr.**

Overview and analysis of problems pertaining to pollution generation and abatement by industry during procurement, product development, distribution, utilization and distribution.

***I.A. 201. Development of American Industries (3) 3 Cr.**

Study of America's contemporary society. The relationship of man and machine in the increasingly complex world

of work. Understanding industry as a basis for culture.

I.A. 203. Electronics (6) 3 Cr.

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.

I.A. 206. Introduction to the Ceramic Industries (6) 3 Cr.

Introduction to the major ceramic industries that utilize earthy, inorganic, nonmetallic materials which are usually heat treated at high temperatures. Laboratory experiences to achieve breadth understandings of major manufacturing industries: Ceramic raw materials, stone, refractories and kilns, gypsum, lime, Portland cement and concrete, clay (structural products and whitewares), glaze, porcelain enamels, glass, abrasives, carbon and graphite, and electronic ceramics.

I.A. 208. Graphic Arts (5) 3 Cr.

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.

I.A. Ed. 300. Introduction to Industrial Arts Education (5) 3 Cr.

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. *Classification:* Required of I.A. majors, to be taken immediately prior to I.A. 414.

I.A. 302. Power and Transportation (6) 3 Cr. 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.

I.A. 303. Plastics Technology (5) 3 Cr. 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.

I.A. 304. Letterpress Technology (5) 3 Cr.

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. *Prerequisite:* I.A. 208.

I.A. 305. Creative Arts for Mentally Retarded Children (4) 3 Cr.

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. *Classification:* Elective for Ed. majors.

I.A. 307. Technical Drawing and Graphics (5) 3 Cr.

Advanced study in technical sketching, graphics, working drawing, design drafting in selected areas of technology, reproductions, and contemporary drafting practices. *Prerequisite:* I.A. 104.

I.A. 309. Solid and Composition Wood Products Technology (6) 3 Cr.

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. *Prerequisite:* I.A. 102.

I.A. 314. Machine Tool Technology (5) 3 Cr.

Principles and application of the operation of the five basic machining techniques — drilling, turning and boring, melting, shaping or planing and grinding. Laboratory experience with machine tools includes the study and utilization of automation devices, numerical controls, mass production and metallurgy theory and practice. *Prerequisite:* I.A. 106.

I.A. 315. Manufacturing Processes of the Ceramic Industries (6) 3 Cr.

Manufacturing processes utilized by the major ceramic industries. Emphasis on procurement, transformation, manufacturing technology, and competency. Laboratory experiences with procurement, beneficiation, mixing, cutting, forming, agglomerating, conditioning, finishing, and assembling. *Prerequisite:* I.A. 206, or equivalent course.

I.A. 316. Power Technology (6) 3 Cr.

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. *Prerequisite:* I.A. 302.

I.A. 318. Metal Forming Technology (5) 3 Cr.

Advanced study of metal working processes exemplified by casting, shaping, welding, forging and finishing techniques; emphasis on individual experiences in contemporary metal working technology. *Prerequisite:* I.A. 106.

***I.A. 320. Marine Technology (6) 3 Cr.**

Types and methods of marine vehicle construction; design, testing, and evaluation of hulls and power plants; safety, navigation, regulations, and handling, applicable to marine transportation.

I.A. 401. Industrial Arts for the Elementary School (4) 3 Cr.

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 I.A.

I.A. 402. Graphic Reproduction Processes (6) 3 Cr.

The photomechanical processes as related to offset lithography, screen process printing and gravure printing. *Prerequisite:* I.A. 208.

I.A. 403. Plastics Technology (5) 3 Cr.

Analysis of the new and more sophisticated plastic material and molding processes.

esses. Development of tooling for the various molding processes. Study of automated molding systems and their effect on the economic status of the industry. *Prerequisite:* I.A. 303.

I.A. 406. Investigation of Forest Materials and Products (6) 3 Cr.

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. *Prerequisite:* I.A. 102.

I.A. 407. Architectural Drawing (5) 3 Cr.

Locations, restrictions, building codes, facilities, floor plans, elevations, and specifications of structures; materials, equipment, and methods of construction. *Prerequisite:* I.A. 104.

I.A. 408. Electronics Communication (6) 3 Cr.

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. *Prerequisite:* I.A. 203.

I.A. 409. Electronic Instrumentation (6) 3 Cr.

Circuit analysis, electronic instrumentation, and electronics techniques. Advanced study of electrical and electronic instruments and equipment. Operating principles and applications. Demonstration techniques in the electrical or electronics field. *Prerequisite:* I.A. 203 and I.A. 408.

I.A. 410. Materials and Products of the Ceramic Industry (6) 3 Cr.

Major ceramic materials, products, and competency emphasized. Laboratory experiences with raw materials, manufactured materials, primary products, and secondary products. *Prerequisite:* I.A. 206, or equivalent course.

***I.A. 413. Philosophy of Technology (3) 3 Cr.**

A critical examination of prevalent conceptions and issues relative to technology; its meaning; its characteristics; its inter-

disciplinary scope; its relation to science; its place in education.

I.A. 414. Professional Semester (daily, 18 weeks) 15 Cr.

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 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. *Prerequisite:* I.A. 300, Ed. 203, all basic labs, cumulative average of 2.00 or better, cumulative average in I.A. of 2.00 or better, Eng. 100 and 101 or comparable.

I.A. 415. The Role of Technology in Civilization (3) 3 Cr.

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. *Classification:* Elective.

I.A. 417. Descriptive Geometry (5) 3 Cr.

Solutions of space problems involving points, lines and planes. Surface developments and intersections, conic sections, vector geometry, and practical applications. *Classification:* Elective.

I.A. 418. Research & Experimentation in Metal Technology (5) 3 Cr.

Individual exploration of advanced metal technology processes and procedures. Development of representative equipment, machine miniaturization or teaching devices for the demonstration of

contemporary industrial techniques. Experimentation will include the areas of high energy rate forming electro and electrochemical machining, ultrasonics, powder metallurgy, zone refining, plasma arc cutting, metalizing, electronics, ions and light rays for finishing, fabrication and testing. *Prerequisite:* I.A. 106 and I.A. 314 or I.A. 318.

I.A. 421. Industrial Arts for Students with Special Needs (5) 3 Cr.

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. *Classification:* Elective for Upperclassmen in I.A.

I.A. 423. Introduction to Industrial Arts for the Elementary School (5) 3 Cr.

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. *Prerequisite:* I.A. major or Elementary Education majors with I.A. 401.

I.A. 424. The Industrial Arts Consultant in the Elementary School (5) 3 Cr.

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. *Prerequisite:* I.A. majors, I.A. 423 or concurrent registration.

I.A. 428. Technical Semester (Manufacturing) 12 Cr.

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. *Classification:* Elective for I.A. majors. *Prerequisite:* 4 Basic Laboratories preferably including I.A. 102, 106.

I.A. 495. Independent Project 1-3 Cr.

An individual undertaking by a student under the guidance of a faculty member, involving a special investigative or creative potential not otherwise available through regular course offerings; available to upperclassmen who have demon-

strated capacity for independent work. *Classification:* Elective for upperclassmen. *Special Note:* Requires the recommendation of a faculty member related to the area of the project, who agrees to supervise the project, and approval of the Division Director.

(See Project under Academic Regulations.)

I.A. 499. Independent Study

(See Independent Study under Academic Regulations.)

INDUSTRIAL TECHNOLOGY DEPARTMENT

I.T. 100. Graphic Science (5) 3 Cr.

Theory of points, lines and planes applied to the solution of problems involving graphic representation of shape and size description, multiview projection, auxiliaries, rotations, and pictorial drawings; application of instrument techniques; fundamentals of descriptive sketching. *Classification:* Required of I.T. majors. *Prerequisite:* None.

I.T. 101. Production Planning (5) 3 Cr.

Experience in idea, development, sketching, product design, working drawings, reproductions and jig and fixture design; applications of engineering specifications, inspection gauges, cost analysis, sales and service illustrations, and drafting room procedures. *Classification:* Required of I.T. majors. *Prerequisites:* I.T. 100 or equivalent.

I.T. 102. Electro-Mechanics (5) 3 Cr.

Experience in testing, trouble shooting, analyzing and calibrating precision electro-mechanical components, devices, systems, and instruments; application of performance, design, and function data to mechanisms, gears, brakes, sprockets, relays, switches, photo-electric cells, operational amplifiers, logic circuits, controls, systems, and other mechanical devices that involve electronic actuation or control. *Classification:* Required of I.T.

majors. *Prerequisites:* Physics 101, 102 or equivalent.

***I.T. 150. The Shape of Things (3) 3 Cr.**

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.

***I.T. 200. Materials Science and Testing (5) 3 Cr.**

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 chemical properties suitable for specific industrial uses. *Classification:* Required of I.T. majors; elective for all others.

I.T. 201. Materials Processing (5) 3 Cr.

A study of, and experience in, materials ordering, inventorying, storing, and selecting; application of form change processes to various industrial materials through the use of controlled mechanisms. *Classification:* Required of I.T. majors. *Prerequisite:* I.T. 100.

Number in parentheses indicates the class hours per week.

*General-liberal

I.T. 202. Production and Quality Control (4) 3 Cr.

Types of production control, forecasting and estimating, order and flow control, parts and materials requirements, systems of manufacturing control; application of quality control devices; tabulation and production communication systems. *Classification*: Required of I.T. majors. *Prerequisite*: Sophomore standing.

***I.T. 250. Communicating Technology—Radio (5) 3 Cr.**

Operating procedures of an educational or a commercial radio station. Technical concepts utilized in the functional procedure. Experience in actual operation, control, staffing, managing, and announcing.

***I.T. 260. Development of Technology (3) 3 Cr.**

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.

I.T. 300. Graphic Communications (5) 3 Cr.

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. *Classification*: Required of I.T. majors. *Prerequisite*: Junior or senior standing.

I.T. 301. Power-Energy-Mechanisms (5) 3 Cr.

An investigation of, and experimentation with, representative chemical and nuclear fuels; the study and design of energy to power conversion systems; application of mechanisms to man-machine work. *Classification*: Required of I.T. majors. *Prerequisite*: I.T. 102, I.T. 201.

I.T. 302. Manufacturing Technology (6) 3 Cr.

Experience in the complete manufacturing cycle from product idea, through

engineering planning, production set-up, fabrication, assembly, finishing, and packaging; application of safety practices, the management concept, systems analysis, human engineering, cost and quality control, and market analysis. *Classification*: Required of I.T. majors. *Prerequisite*: Senior standing.

***I.T. 400. Industrial Marketing (3) 3 Cr.**

Establishment of a conceptual framework for marketing and sales; the implications of product, market, and sales analysis, and the resulting management systems; advertising techniques and media; customer contact. *Classification*: Required of I.T. majors; elective for all others.

***I.T. 401. Management Science (3) 3 Cr.**

A conceptual framework for the management sciences; the design of management programs to develop desired characteristics, attitudes, controls, facilities, and man-jobs; decision making components; survey of methods of recruitment, selection, placement, supervision, training and re-training of employees. *Classification*: Required of I.T. majors; elective for all others.

***I.T. 402. Human Factors Engineering (3) 3 Cr.**

The interaction of man and machines; Development and use of human factors information; man's cognitive and psychomotor processes as relates to machine displays and controls; effects of environment and systems integration on safety, output, and compatibility. *Classification*: Required of I.T. majors; elective for all others. *Prerequisite*: Industrial Psychology.

I.T. 403. Systems Analysis (3) 3 Cr.

An investigation of modern business and management systems and their interaction with the economic, social, technological and legal environments; a study of subsystems comprising a modern business production or service enterprise. Cost-effectiveness evaluations of systems through application of operations research methods. *Classification*: Required of I.T. majors. *Prerequisite*: I.T. 402.

INTERDEPARTMENTAL***I.D. 105. Introduction to Creative Studies (3) 3 Cr.**

The purpose of this course is to increase the degree to which students recognize and nurture their creative potential. *Note*: Open to selected students only.

***I.D. 106. Creative Approaches to Problem-Solving (3) 3 Cr.**

This course will allow students to 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. *Note*: Open to selected students only.

***I.D. 203. Creative Leadership (3) 3 Cr.**

This course is designed to provide students with a greater grasp of creative principles and procedures and particularly for leadership experience in problem-solving groups. A variety of pertinent problems concerning the academic work and the college life of students will be used for the leadership practice. *Note*: Open to selected students only.

*General-liberal

***I.D. 204. Advanced Creative Studies (3) 3 Cr.**

This course is designed to help students better analyze and interpret the literature of creativity, including classical books and articles on creativity as well as recent contributions, doctoral theses, etc. in relations to theories, research and applications in discovering and nurturing creative talent. *Note*: Open to selected students only.

I.D. 250. Intercultural Communications (3) 3 Cr.

A course aimed to develop communication skills through a sociopsychological understanding of each student's own attempt to develop a two-way exchange of information with members of a subculture strange to him. These attempts are phased and followed by extended discussion in groups not larger than ten.

***I.D. 424. People and Institutions of India (3) 3 Cr.**

Study of family patterns, educational programs and traditional and modern culture of India.

LATIN AMERICAN STUDIES**IAS. 301. Language and Culture of Costa Rica 3 Cr.**

A course taught in Costa Rica for participants in the Costa Rican phase of Latin American Studies program. Intensive study of advanced Spanish, study of Costa Rican history, geography and other cultural aspects. *Classification*: Required for participants in the Costa Rican Program.

IAS. 302. Field Studies in Latin America 3 Cr.

A two week field trip for participants in Latin American Studies programs abroad. Visits to archeological sites and places of historic and current interest together with appropriate seminars on location. *Classification*: Required of participants in the Costa Rican Program.

IAS. 303. Development of Industrial Technology in Latin America 3 Cr.

A survey of the industrialization of Latin America beginning with understanding the nature of industrial technology; the growth and current status of industrial development in Latin America relating to: cultural, economic and political problems; importance of natural resources; education and training needs; foreign assistance, governmental and private; the role of private enterprise; the role of government, planning and participation; employment opportunities and the future of industrial development. All college elective.

LAS. 410. Twentieth Century Latin American Problems 3 Cr.

Interdisciplinary seminar on contemporary Latin American problems: Latin American Values, the Nativist Complex, Agrarian Reform, Social Change and the Revolution of Rising Expectations. *Classification:* Required for Liberal Arts majors in Latin American Studies. *Prerequisites:* Nine hours in Latin American

Studies. *Special Note:* May be elected by graduate students.

LAS. 495. Project

(See Project under Academic Regulations.)

LAS. 499. Independent Study

(See Independent Study under Academic Regulations.)

MATHEMATICS DEPARTMENT

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 Math 161. If a student has not taken more than the eleventh year of high school mathematics he/she may wish to enroll in Math 124 before taking Math 161. Students with only 2-3 years of high school mathematics wishing to fulfill a mathematics requirement (elective) may elect any of the following: Math 103, 111, 119, 125, or 126. The first three of these have no background requirements.

GENERAL ELECTIVES. Credit for these courses may not be earned by Mathematics Majors and Secondary Education Mathematics Majors.

MATH. 103. Mathematics in Modern Life (3) 3 Cr.

Mathematics appreciation developed through such topics as: the nature and philosophy of mathematics; historical problems and personalities; mathematical systems; computers, statistics.

MATH. 111. Elementary Probability and Statistics (3) 3 Cr.

Empirical frequency distributions; measures of central tendency and dispersion; theory of probability of a finite sample space; application of statistical distributions. *Prerequisite:* Three years of high school mathematics. Credit may not be earned for both Math. 111 and Math. 381 or equivalents.

MATH. 119. Finite Mathematics (3) 3 Cr.

Logic; sets; partitions; probability; vectors, matrices; linear programming. *Prerequisite:* two years high school mathematics.

MATH. 121. Mathematics for Elementary Teachers I (3) 3 Cr.

Natural numbers; logic, nature of deductive proof; elementary set theory; numeration systems; non-metric geometry; integers.

MATH. 122. Mathematics for Elementary Teachers II (3) 3 Cr.

Number theory, divisibility, division algorithm, Euclidean algorithm, fundamental theorem; rational numbers; real numbers; metric geometry, measures; finite mathematical systems. *Prerequisites:* Math. 121 or equivalent.

MATH. 124. Fundamentals of College Mathematics (3) 3 Cr.

Designed to prepare a student, who has not gone beyond Math. 11, 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. 11.

MATH. 125. Analytic Geometry (3) 3 Cr. Coordinate geometry of the line, circle, ellipse, parabola and hyperbola; transformation of axes; higher plane curves; polar coordinates; parametric equations. Credit may not be earned for both Math. 125 and Math. 161 or equivalent.

MATH. 126. Calculus (3) 3 Cr.

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 Math. 126 and Math. 161 or equivalents.

COURSES FOR MATHEMATICS MAJORS AND ELECTIVES FOR ALL QUALIFIED STUDENTS.**MATH. 161. Analytic Geometry and Calculus I (4) 4 Cr.**

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 Math. 126 and Math. 161 or equivalents.

MATH. 162. Analytic Geometry and Calculus II (4) 4 Cr.

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. *Prerequisite:* Math. 161.

MATH. 215. Differential Equations (3) 3 Cr.

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. *Prerequisite:* Math. 263.

MATH. 222. Introduction to Modern Geometry (3) 3 Cr.

The axiomatic method; historical background of Euclidean geometry; defects of Euclid; modern sets of postulates for Euclidean geometry; introduction of non-Euclidean geometries.

MATH. 231. Set Theory and Development of the Real Number System (3) 3 Cr.

Basic concepts of set theory; relations and functions; natural numbers; construction of the integers, the rational numbers and the real numbers; cardinal numbers. *Prerequisite:* At least sophomore status.

MATH. 263. Analytic Geometry and Calculus III (4) 4 Cr.

Further study of continuous and differentiable functions; infinite series; elements of solid analytic geometry; vectors; partial differentiation; multiple integration. *Prerequisite:* Math. 162. *Prerequisite for:* Math. 381, 413, 415, 417, 461, 471, 490 and 499.

MATH. 301. Introduction to Modern Algebra I (3) 3 Cr.

An introduction to the fundamental topics of modern abstract algebra; mappings, groups, normal subgroups, quotient groups, homomorphisms, Cayley's Theorem, permutation groups, Sylow Theorems, rings and ideals.

MATH. 302. Introduction to Modern Algebra II (3) 3 Cr.

A continuation of Math. 301. Quotient fields of integral domains; polynomial rings; principal ideals; Noetherian rings; extension fields; algebraic numbers; splitting fields; elements of Galois theory. *Prerequisite:* Math. 301.

MATH. 303. Linear Algebra (3) 3 Cr.

Vectors and vector spaces; linear dependence; basis and dimension; matrices and determinants; linear systems; linear transformations.

MATH. 323. Modern Geometry (3) 3 Cr.

Groups and transformations; projective geometry; affine geometry; Euclidean geometry. *Prerequisite:* Math. 222.

MATH. 351. Elementary Theory of Numbers (3) 3 Cr.

Divisibility; Euclid's algorithm; prime numbers; prime factorization theorem; Euler's phi-function; Diophantine analysis; congruences; theorems of Fermat, Euler, and Wilson. *Prerequisite:* At least sophomore status.

MATH. 381. Probability (3) 3 Cr.

Probability spaces, discrete and continuous; distributions of discrete and continuous random variables; mathematical expectation; linear combinations of random variables. *Prerequisite:* Math. 263.

MATH. 382. Statistics (3) 3 Cr.

Sampling distributions; the central limit theorem; point and interval estimation; tests of hypotheses. *Prerequisite:* Math. 381.

MATH. 411. Introduction to Complex Variables (3) 3 Cr.

Complex numbers, analytic functions, elementary functions, contour integration, Taylor Series, Laurent Series, uniform convergences, calculus of residues, conformal mappings and applications. *Prerequisite:* Math. 263.

MATH. 413. Applied Analysis (3) 3 Cr.

Matrices; systems of linear equations; transformations; Eigen vectors; algebra and calculus of vectors; line and surface integrals; theorems of Green, Gauss and Stokes; applications to boundary value problems; complex numbers; differentiation and integration; sequences and series; power series; analytic functions; conformal mapping; residue theory. *Prerequisite:* Math. 215, 263. Credit may not be earned for both physics 414 and Math. 413.

MATH. 415. Mathematical Methods in Applied Mathematics (3) 3 Cr.

Linear partial differential equations; existence, uniqueness and stability of the solutions; infinite series; absolute convergence; uniform convergence: Fourier series; applications to boundary value problems; Gamma functions; Bessel functions; Legendre functions. *Prerequisite:* Math 215, 263. Credit may not be earned for both Physics 415 and Math 415.

MATH. 417. Introduction to Real Analysis I (3) 3 Cr.

Sequences and functions; limits; continuity; derivatives; mean value theorems; intermediate forms; Taylor's theorem; series; functions of two variables; continuity in a region; higher derivatives; coordinate transformations. *Prerequisite:* 263.

MATH. 418. Introduction to Real Analysis II (3) 3 Cr.

Solid analytic geometry and vectors; partial differentiation; change of variable, maxima and minima, implicit function; multiple integrals, moment and centroids; Jacobians and transformations; infinite series, main tests for convergence. *Prerequisite:* Math. 417.

MATH. 431. Mathematical Logic (3) 3 Cr.

Validity, deductibility, and completeness in propositional and predicate logics; first order formal theories and informal theories in the context of set theory.

MATH. 435. Theory of Recursive Functions and Effective Computability (3) 3 Cr.

Primitive, partial and general recursive function; recursively enumerable sets; recursively enumerable sets and recursive sets; theses of Church and Kleene regarding effective computability of functions; selected topics in simple and immune sets, productive and creative sets. *Prerequisite:* One 300 level math. course.

MATH. 461. Numerical Analysis (3) 3 Cr.

Fundamentals; finite differences; difference tables; tabulation of polynomials; difference operators; linear interpolation; classical polynomial formulas; inverse interpolation; Lagrange's formula; numerical integration; Gauss's formula; difference equations. *Prerequisite:* Math. 263.

MATH. 471. Introduction to Topology (3) 3 Cr.

Sets and functions; metric spaces; topological spaces; connectedness; compactness; separation. *Prerequisite:* Math. 231 or 301.

MATH. 490. Seminar (3) 3 Cr.

Investigation of some topics of current interest to mathematicians, such as, Group Theory, Game Theory, Differential Geometry, Measure Theory, Sampling Theory, etc. Emphasis is on oral presentations by the students and discussions. *Prerequisite:* Senior mathematics major or permission of instructor.

MATH. 495. Project

(See Project under Academic Regulations.)

MATH. 499. Independent Study

(See Independent Study under Academic Regulations.)

MATH. ED. 496. Professional Semester.

Early Secondary Mathematics (30) 6 Cr.

Early secondary school classroom laboratory experiences; goals of early secondary math. educ.; psychological influences; teaching models; testing and evaluation techniques; total involvement in early secondary school activities — practicum. *Prerequisites:* Elem. Educ. Extension of Certification in Math. status; Ed. 210 and one from Ed. 250, 251, 252; Math. 161-2, 222 and 301 with a minimum math. average of 2.20; a minimum cumulative and previous semester average of 2.00; senior status. *Classification:* Required of Elem. Educ.

Majors seeking certification to teach Jr. High School Math.

MATH. ED. 497. Professional Semester. (30) 15 Cr.

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. *Prerequisite:* Ed. 220 and Ed. 203 or six hours of Psychology from Psych. 101, 204, or 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.

MUSIC DEPARTMENT

Music 125 and the 200 series courses are suitable for fulfilling General-Liberal requirements in the Arts. Music 125 is a prerequisite for some upper-level courses.

At the upper level (Mus. 300-400 Series) the Music Department offers five emphases, with choice of courses by election and advisement. The emphases are: Theory-Composition; Music History; Classroom Music; America's Music; and Applied Music.

It is possible for qualified students majoring in Elementary Education to take an *expanded concentration in music* of 36 hours, rather than 24. Such students, in addition to receiving certification from the State of New York as classroom teachers, are then eligible to be candidates for the position of music teacher in the elementary grades in the schools of Buffalo. If accepted, they would receive certification from the the City of Buffalo as music teachers, K-6. Fluency in piano or an orchestral instrument is advised.

MUS. 111. Vocal Techniques* (1) 1 Cr.

Elementary Class instruction in voice placement and singing. *Classification:* Elective. By permission of the instructor.

MUS. 112. Applied Music* (1) 1 Cr.

Individual lessons for students of voice or instrument. *Classification:* Required

of Music Majors. Elective for others. *Prerequisite:* Mus. 125 Basic Music Participation or previous performance with the instrument, with permission of instructor.

MUS. 113. Orchestra* (3) 1 Cr.

Regular rehearsals and scheduled per-

*No more than 3 credit hours a semester may be earned in Mus. 110 through Mus. 121.

Number in parentheses indicates class hours per week.

performances with the Symphonic Orchestra group. *Classification*: Elective. *Prerequisite*: Audition: permission of instructor.

MUS. 114. Concert Band* (4) 1 Cr.
Regular rehearsals and scheduled performances with College Band. *Classification*: Elective. *Prerequisite*: Audition: permission of instructor.

MUS. 115. Women's Glee Club* (3) 1 Cr.
Regular rehearsals and scheduled performances with Women's Choral groups. *Classification*: Elective. *Prerequisite*: Audition: permission of instructor.

MUS. 116. A Cappella Choir* (4) 1 Cr.
Regular rehearsals and scheduled performances with mixed unaccompanied group. *Classification*: Elective. *Prerequisite*: Audition: permission of instructor.

MUS. 117. Ensemble* (1) 1 Cr.
Training and supervised performance in small instrumental combinations. *Classification*: Elective. *Prerequisite*: Audition: permission of instructor.

MUS. 118. Stage Band* (3) 1 Cr.
Training and supervised performance in stage and dance band combinations. *Classification*: Elective. *Prerequisite*: Audition: permission of instructor.

MUS. 121. All-College Gospel Chorus* (4) 1 Cr.
Training and supervised performance in the singing of Negro Gospel Music. *Classification*: Elective.

MUS. 125. Basic Music Participation (4) 3 Cr.
Comprehensive approach to Basic musicianship, integrating theory-composition, music literature and history, classroom music, American music, and applied music. *Classification*: Elective in the music major, the elementary music education major, the elementary music education concentration, and the Arts 9-hour general-liberal requirement. *Prerequisite*: None.

MUS. 201. Symphonic Literature (3) 3 Cr.
The symphony orchestra; the understanding and enjoyment of the masterpieces of Classic, and Romantic and Contemporary composers; attendance at selected concerts. *Classification*: Elective.

MUS. 202. Vocal Literature, 17th-20th Centuries (3) 3 Cr.

Class instruction and listening experience in the principal literature of choral and art songs of these centuries. *Classification*: Elective.

MUS. 203. Chamber Music Literature (3) 3 Cr.

Class instruction and listening experience in the principal literature of small instrumental combinations. *Classification*: Elective.

MUS. 204. Dramatic Music (3) 3 Cr.

Class instruction and listening experience in the principal literature of opera and oratorio. *Classification*: Elective.

MUS. 205. American Popular Music in the 20th Century (3) 3 Cr.

Class instruction and listening experience in the principal literature of American popular music. *Classification*: Elective.

MUS. 206. Afro-American Music (3) 3 Cr.
Sources and development of the idioms, styles and sound media of the American Negro. *Classification*: Elective.

MUS. 208. Oriental Art Music: China, Japan, Korea (3) 3 Cr.

Sources and development of the idioms, styles and sound media of the Orient. *Classification*: Elective.

MUS. 209. Oriental Art Music: India, Indonesia, Philippines (3) 3 Cr.

Sources and development of the idioms, styles and sound media of the Far East. *Classification*: Elective.

MUS. 211. Introduction to Conducting (1) 1 Cr.

A terminal course in group conducting such as might be helpful to a classroom teacher. *Classification*: Elective. *Prerequisite*: Mus. 125 Basic Music Participation.

MUS. 212. Criticism (3) 3 Cr.

Discussion of critical esthetics in music and related arts, with practice in critical writing. *Classification*: Elective.

MUS. 213. Music of African Continent (3) 3 Cr.

Class Instruction and Listening experi-

ence in the idioms, styles and sound media of African music. *Classification*: Elective.

MUS. 301. Introduction to Music Literature (3) 3 Cr.

Introduction to music from Antiquity to present; musical forms and styles; vocal and instrumental music. *Classification*: Required for Music Majors. Elective for others. *Prerequisite*: A 200-level course in Western Classical Music and/or Ability To Read Music.

MUS. 302. Music History, Antiquity through Baroque (3) 3 Cr.

Emphasis on Medieval, Renaissance, and Baroque styles. *Classification*: Required of Music Majors. Elective for others. *Prerequisite*: Mus. 125 Basic Music Participation, Mus. 301, Introduction To Music Literature.

MUS. 303. Music History, Classic and Romantic (3) 3 Cr.

The 19th century opera, oratorio, solo song, chamber music, symphony and other forms. *Classification*: Required of Music Majors. Elective for others. *Prerequisite*: Mus. 301 Introduction to Music Literature.

MUS. 304. Music History, 20th Century (3) 3 Cr.

Sources and development of the idioms, styles, and new sound media of music in the present century. *Classification*: Required of Music Majors. Elective for others. *Prerequisite*: Mus. 301, or permission of the instructor.

MUS. 305. Latin American Music (3) 3 Cr.

A survey of the ethnic and European heritage of Latin American Music from early aboriginal sources to contemporary composition. *Classification*: Elective. *Prerequisite*: Mus. 301 or its equivalent.

MUS. 306. Urban Blues and Rock (3) 3 Cr.

Sources and development of the idioms, styles, and sound media of this music. *Classification*: Elective. *Prerequisite*: Mus. 206, Afro-American Music.

MUS. 307. American Music From The European Tradition (3) 3 Cr.

Class Instruction and Study projects in

the developing of American Art Music during the 18th and 19th centuries. *Prerequisite*: Mus. 125 Basic Music Participation, or Mus. 301, Intro. to Mus. Literature.

MUS. 308. American Music From The European Tradition (3) 3 Cr.

Class Instruction and Study projects in the American Art Music during the 20th century. *Prerequisite*: Mus. 125 Basic Music Participation, or Mus. 301, Intro. to Music Literature.

MUS. 309. Art Music of Asia: Japan, Indonesia, India (3) 3 Cr.

Class Instruction and Study projects in art music of these areas. *Prerequisite*: Mus. 208 or 209.

MUS. 310. Primitive and Folk Music of South Asia and Africa (3) 3 Cr.

Class Instruction and Study projects in the primitive folk music of these areas. *Prerequisite*: Mus. 208 or 209 or 213.

MUS. 311. Theory I, Melody and Two-Part Texture (3) 3 Cr.

Species counterpoint and contrapuntal forms. *Classification*: Required of Music Majors. Elective for others. *Prerequisite*: One year of recent practice of either singing, playing, or writing music.

MUS. 312. Theory II, Harmony and Sonority (3) 3 Cr.

Diatonic and Chromatic harmony, harmonic structure and harmonic rhythm. *Classification*: Required of Music Majors. Elective for others. *Prerequisite*: One year of recent practice of either singing, playing, or writing music.

MUS. 313. Music Materials & Styles — Antiquity to 1600 (3) 3 Cr.

Analysis of representative composition of this period. *Classification*: Elective. *Prerequisites*: Mus. 125 Basic Music Participation, Mus. 311 and Mus. 312, or equivalent.

MUS. 314. Music Materials & Styles — 1600-1900 (3) 3 Cr.

Analysis of representative compositions of this period. *Classification*: Elective. *Prerequisites*: Mus. 125 Basic Music Participation, Mus. 311 and Mus. 312, or equivalent.

MUS. 315. Theory III, Complex Textures in Tonal Music: Harmony, Counterpoint, and Form (3) 3 Cr.
Intermediate level studies in tonal harmony and counterpoint in music forms. Emphasis on aural development and analysis, computer techniques. *Classification*: Elective. *Prerequisites*: Mus. 311 and Mus. 312, or equivalent.

MUS. 316. Theory IV, Resources Used in Composition and Analysis of 20th Century Music (3) 3 Cr.
Introduction to modal and atonal counterpoint, serial technique, chance operation, taping notations, texture, timbre and computer uses. Emphasis on aural development and analysis. *Classification*: Elective. *Prerequisites*: Mus. 311 and Mus. 312, or equivalent.

MUS. 317. Music for Children (3) 3 Cr.
A variety of music experiences and activities for the elementary grades in a laboratory-workshop setting. Basic knowledge of music fundamentals and skills acquired through lessons, projects and readings. *Classification*: Elective.

MUS. 318. Sight-Singing and Ear-Training (3) 3 Cr.
Sight singing; musical dictation; scale patterns; interval, note and rest values; cadences and progressions; rhythms and meter. *Classification*: Required of Music Majors. Elective for others. *Prerequisite*: One year of recent practice of either singing, playing, or writing music.

MUS. 321. Arranging, Vocal, Instrumental, Popular, and Jazz (3) 3 Cr.
Class instruction and supervised training in arranging music for dance, stage, and popular song, with study of representative examples of the literature. *Classification*: Elective. *Prerequisite*: Mus. 125 Basic Music Participation.

MUS. 322. Conducting (3) 3 Cr.
Use of baton; reading and observation; attendance at selected concerts. *Classification*: Required of Music Majors. Elective for others. *Prerequisite*: Mus. 125 Basic Music Participation.

MUS. 324. Accompanying (3) 3 Cr.
Class instruction and supervised performance in accompanying choral groups and instrumental and vocal performance, with study of representative examples of literature. *Classification*: Elective. *Prerequisite*: Permission of Instructor.

MUS. 402. American and Afro-American Music (3) 3 Cr.
Supervised projects in the area of study, all students reporting to a common seminar. *Classification*: Elective. *Prerequisite*: One course from Mus. 206-209 sequence, plus one course from Mus. 301-306 sequence.

MUS. 404. Classroom Music Seminar (3) 3 Cr.
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. *Classification*: Elective. *Prerequisite*: Mus. 317, Music For Children.

MUS. 405. Criticism Seminar (3) 3 Cr.
Supervised projects in the area of study, all students reporting to a common seminar. *Classification*: Elective. *Prerequisites*: Mus. 212 Criticism, or basic qualification in any area of study not limited to the arts, with permission of instructor.

MUS. 150-450. Directed Study Seminar, (3 hours each semester) 3 Cr.
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. *Classification*: Elective. *Prerequisite*: Permission of the instructor, which must be granted each semester.

MUS. ED. 457. Student Teaching, Music (15) 6 Cr.
Music teaching under supervision in the elementary schools. *Prerequisite*: 36 hours in Music and permission of the instructor.

NUTRITION AND FOOD SCIENCE DEPARTMENT

***NFS 108. Introductory Food (1,4) 3 Cr.**
An introduction to the study of food with emphasis on the scientific principles that are involved in the identification and conservation of nutrients. Required of students in the Division according to students curriculum. *Prerequisite*: None.

***NFS 208. Human Nutrition (3,0) 3 Cr.**
Science of Foods and Nutrition in relation to man's health. *Classification*: Required of students in the Division according to the student's curriculum. *Prerequisite*: Chem. 101 or Biol. 100.

NFS 308. Advanced Food (2,2) 3 Cr.
Current aspects and techniques of food preparation, family meal management, and some cultural food patterns. *Classification*: Required of students in NFS and Home Economics majors and an elective by permission. *Prerequisite*: NFS 108.

NFS 317. Food Science (2,2) 3 Cr.
A study of (a) the chemical and physical properties of food (b) Colligative properties of solutions (c) Colloidal Systems and their relationship to food quality. *Prerequisite*: Chem. 221, NFS 108, 308.

NFS 408. Advanced Human Nutrition (3,0) 3 Cr.
Concepts of normal nutrition as they relate to intermediary metabolism of carbohydrates, proteins, fats, minerals and vitamins. Emphasis on the role of food nutrients at the specialized cellular level. *Prerequisite*: NFS 208, biochemistry or permission of the instructor. *Special Note*: May be elected by graduate students.

NFS 417. Maternal, Infant and Child Nutrition (3,0) 3 Cr.
Nutritional needs from the time of conception through adolescence. Survey of Nutritional Status, and application of principles of Nutrition applied to pregnant mothers, infants, and older children. *Prerequisite*: NFS 208.

NFS 426. Food Demonstration (5,0) 3 Cr.
Techniques of demonstration related to food preparation. *Classification*: Elective

*General-liberal

for students in the Division; others by permission. *Prerequisite*: NFS 308.

NFS 434. Nutrition in Abnormal Conditions and Diet Therapy (3,0) 3 Cr.
Modern concepts of clinical nutrition and abnormalities, treated by modifications of the diet. *Classification*: Required of Dietetics majors, elective by permission. *Prerequisite*: NFS 408.

NFS 435. Community Nutrition (3,0) 3 Cr.
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. *Prerequisite*: NFS 434.

Food Management

NFS 410. Quantity Food Production (2,5) 3 Cr.
Experience in application of food preparation principles to quantity production, menu planning, use and care of institutional equipment, standardized formulae and costs, service to the public. *Classification*: Required of Dietetics majors. Elective by permission. *Prerequisite*: NFS 308. Assigned participation hours to be arranged in a supervised food service.

NFS 412. Institutional Food Purchasing and Accounting (2,4) 4 Cr.
Standards for selection of food in institution services, use of basic accounting principles underlying financial statements. *Classification*: Required of Dietetics majors, elective by permission. *Prerequisite*: NFS 410.

NFS 415. Institutional Organization and Management (3,0) 3 Cr.
Organization, financial control and personnel management for institution food departments. *Classification*: Required of Dietetics majors. *Prerequisite*: NFS 412.

NFS 433. Food Management for Disadvantaged Families (2,2) 3 Cr.
Study of factors influencing food practices of the disadvantaged family and of

providing adequate food at the low cost. *Classification*: Elective for students in the Division. *Prerequisite*: NFS 108 and 208.

Family Health and Home Nursing

NFS 206. Family Health and Home Nursing (3,0) 3 Cr.

Facts and procedures essential in safeguarding the health of the individual and family techniques in home nursing, techniques in handling emergencies, community agencies concerned with family health. *Classification*: Required of Home Economics Education majors and All College Elective. May be used as a NFS elective for majors.

PHILOSOPHY DEPARTMENT

PHIL 101. Introduction to Philosophy (3) 3 Cr.

An introduction to the literature and problems of philosophy. *Classification*: Elective. *Prerequisite*: None.

PHIL 201. Problems of Philosophy (3) 3 Cr.
An analysis of selected problems in epistemology, metaphysics, ethics and of certain movements in contemporary philosophy. *Classification*: Elective. *Prerequisite*: None.

PHIL 202. Introduction to Logic (3) 3 Cr.
An introduction to symbolic logic and the traditional logic of categorical sentences. *Classification*: Elective. *Prerequisite*: None.

PHIL 203. Introduction to Value Inquiry (3) 3 Cr.

An examination of philosophical problems in the description, expression, and justification of values. These problems will be considered in the context of discussions of the good life, the good society, and the good work of art. Sample questions are: Does virtue lead to happiness? Under what conditions can punishment be justified? Can we dispute about matters of taste? *Classification*: Elective.

Field Experience and Special Projects

NFS 490. Field Experience (hours to be arranged)

A course to provide students the opportunity to have experiences related to their majors in public or private agencies, in business organizations, or in educational institutions. Registration by permission of the faculty. Obtain necessary forms in Room CH 114F. Field Experiences for students enrolled in new clinical dietetic program will be identified by the letters 490 A, B, C or D.

NFS 495. Project

(See Project under Academic Regulations). Obtain necessary forms in Room CH 114F.

PHIL 204. Philosophy of Religion (3) 3 Cr.

An analysis of problems pertaining to the meaning of God, proofs for God's existence, appeal to faith, the various functions of religious language and the like. *Classification*: Elective.

PHIL 205. Philosophic Classics I (3) 3 Cr.

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 Aristotle's *Metaphysics* and *Nicomachean Ethics*, and Plato's *Republic*, *Thaetetus*, and *Parmenides*. *Classification*: Elective.

PHIL 206. Philosophic Classics II (3) 3 Cr.
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*, Hume's *Enquiry Concerning the Human Understanding*, and Kant's *Prolegomena to any Future Metaphysics*. *Classification*: Elective.

PHIL 301. Ethics (3) 3 Cr.

An examination of the rational status of moral judgments. *Classification*: Elective.

PHIL 302. Aesthetics (3) 3 Cr.

An analysis of the basic concepts presupposed in any critical examination of the arts, including painting, literature, and music. *Classification*: Elective. *Prerequisite*: Phil. 203*.

PHIL 303. Social and Political Philosophy (3) 3 Cr.

An analysis of the major classical and contemporary social and political philosophies. *Classification*: Elective. *Prerequisite*: Two courses in philosophy or Junior standing.

PHIL 305. Analytic Philosophy I (3) 3 Cr.

Sense and Reference, Denoting, Analyticity, The Semantic Definition of Truth, Synonymy. *Classification*: Elective. *Prerequisite*: Philosophy 202.

PHIL 306. Analytic Philosophy II (3) 3 Cr.

Speech Acts, The Philosophical Relevance of Linguistic Theory, Intention and Speech Acts. *Classification*: Elective. *Prerequisite*: Phil. 305.

PHIL 307. Intermediate Logic (3) 3 Cr.

General theory and foundations of the logic of quantification. *Classification*: Elective.

PHIL 308. Philosophy of History (3) 3 Cr.

An analysis of problems pertaining to casual explanations in history, objectivity

*Prerequisite may be waived for those majors who have adequate substitutes.

PHYSICS DEPARTMENT

PHY 100. Current Topics in Physics (3,0) 3 Cr.

A one-semester, non-mathematical consideration of some current developments in physics and their relevance to the problems of mankind. *Special Note*: Designed for the student who does not plan to major in science. May not be substituted for PHY. 101, 102, 111, 112.

PHY 101. General Physics (2,2) 3 Cr.

Mechanics, properties of matter, heat, wave motion, and sound; selection of laboratory experiences based on the student's curricular program.

Numbers in parentheses indicate class and laboratory hours per week respectively.

of history, historical evidence and the like. *Classification*: Elective. *Prerequisite*: Permission of the instructor.

PHIL 309. Philosophy of Science (3) 3 Cr.

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. *Classification*: Elective. *Prerequisite*: Permission of the Instructor.

PHIL 401. Problems of Value Inquiry (3) 3 Cr.

A topical examination of some traditional and contemporary general theories of value and their criticisms. Including naturalistic and non-naturalistic theories relating to such problems as the definition of value and value of the social sciences. *Classification*: Elective. *Prerequisites*: Phil. 301, 302, or 303.

PHIL 402. Seminar in Philosophy (3) 3 Cr.

Intensive analysis of selected topics in philosophy. *Classification*: Elective. *Prerequisite*: Phil. 202, 205 and 206.

PHIL 495. Project

(See Project under Academic Regulations.)

PHIL 499. Independent Study

(See Independent Study under Academic Regulations.)

PHY 102. General Physics (2,2) 3 Cr.

Light, electricity and magnetism, atomic physics; selection of laboratory experiences based on the student's curricular program. *Prerequisite*: Phy. 101, or the equivalent.

PHY 103. Understanding Sound (3,0) 3 Cr.

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 the student who does not plan to major

in science. May not be substituted for Phy. 101, 102, 111, 112.

PHY. 111. General Physics (3,2) 4 Cr.
Mechanics, heat, wave motion, and sound. A rigorous treatment for science majors.

PHY. 112. General Physics (3,2) 4 Cr.
Electricity, magnetism, light, and modern physics. *Prerequisite:* Phy. 111.

PHY. 201. Electronics (2,2) 3 Cr.
Series and parallel resonant circuits, power transfer and impedance matching; vacuum tubes, transistors, rectifiers, amplifiers; oscillators; modulation and demodulation; radio transmitters and receivers; design and construction of rectifier power supplies, amplifiers, and simple receivers. *Prerequisite:* Phy. 111-112, or the equivalent.

PHY. 205. Modern Atomic Physics (3,0) 3 Cr.
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. *Prerequisite:* Phy. 111-112, or the equivalent, and calculus.

PHY. 303. Heat and Thermodynamics (3,0) 3 Cr.
Transfer, emission, absorption, reflection of heat; thermodynamics; isothermal and adiabatic processes; heat engines. *Prerequisite:* Phy. 111-112, or the equivalent, and calculus.

PHY. 308. Optics (3,0) 3 Cr.
Fundamentals of geometrical and physical optics; the nature and propagation of light; experiences with such optical phenomena as interference, diffraction, polarization, and double refraction. *Prerequisite:* Phy. 111-112, or the equivalent, and calculus.

PHY. 406. Introduction to Quantum Physics (3,0) 3 Cr.
Introduction to the methods of quantum mechanics with selected examples from one-dimensional problems, from atomic systems, and from quantum statistics. *Prerequisite:* Phy. 205 and Phy. 414, or the equivalent.

PHY. 407. Introduction to Group Theory in Quantum Mechanics (3,0) 3 Cr.
Introduction to theory and application of Group Theory in the quantum mechanical study of molecular and crystalline systems. *Prerequisite:* Phy. 205, Phy. 415 and Chem. 112.

PHY. 408. Nuclear Physics (3,0) 3 Cr.
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. *Prerequisite:* Phy. 111-112 and Phy. 414, or the equivalent.

PHY. 410. Advanced Physics Laboratory (0,6) 3 Cr.
Selected classical experiments chosen from the areas of mechanics, heat, sound, light, electricity and magnetism, and modern physics. *Prerequisite:* Phy. 111-112, or the equivalent. May be repeated for a maximum of nine credit hours.

PHY. 411. Introduction to Solid State Physics (3,0) 3 Cr.
Theory of the structure of solids; thermal, magnetic and dielectric properties of matter in the solid state; theory of impurity semiconductors with applications to rectifiers and transistors. *Prerequisite:* Phy. 111-112 and Phy. 414, or the equivalent.

PHY. 412. Physics Seminar (1,0) 1 Cr.
Readings, reports and discussion of current problems and research in physics or the teaching of physics. *Prerequisite:* 15 sem. hrs. credit in physics and Math. 162, or the equivalent.

PHY. 414. Introduction to Theoretical Physics I (3,0) 3 Cr.
Various introductory topics in theoretical physics; use of simple formalisms of vector analysis, ordinary differential equations, and partial differential equations in numerous problems in circuit theory, classical mechanics, optics, quantum mechanics, acoustics, and electromagnetic theory. *Prerequisite:* Phy. 111-112 and Math 162, or the equivalent.

PHY. 415. Introduction to Theoretical Physics II (3,0) 3 Cr.
Various introductory topics in theoretical physics; use of simple formalisms of complex variables; multi-dimensional vector spaces, and extrema calculations in numerous problems in circuit theory, classical mechanics, optics, quantum mechanics, quantum field theory, and classical electromagnetism and electrodynamics. *Prerequisite:* Phy. 111-112 and Math. 162, or the equivalent.

PHY. 416. Classical Mechanics I (3,0) 3 Cr.
Vectorial particle mechanics in one and two dimensions; moving reference frames in two dimensions; mechanics of a rigid body in two dimensional planar motion. *Prerequisite:* Phy. 111-112, Math. 263, Phy. 414 or Math. 215, or the equivalent.

PHY. 417. Classical Mechanics II (3,0) 3 Cr.
Continuation of Phy 416; vectorial particle mechanics in three dimensions; introduction to mechanics in generalized coordinates, to the central force problem, to the mechanics of rigid bodies in three dimensional motion, to the mechanics of

continuous media, to the theory of small vibrations. *Prerequisite:* Phy. 416, or the equivalent.

PHY. 418. Electricity and Magnetism I (3,0) 3 Cr.
A study of the interactions of electric charges at rest and in motion; direct current and alternating current circuits; introduction to Maxwell's equations. *Prerequisite:* Phy. 111-112, Phy. 414, Math. 263, or the equivalent.

PHY. 419. Electricity and Magnetism II (3,0) 3 Cr.
A continuation of Phy. 418 including a study of electric and magnetic fields in matter, discussion of electromagnetic radiation, and some special topics. *Prerequisite:* Phy. 418, or the equivalent.

PHY. 495. Project
(See Project under Academic Regulations.)

PHY. 499. Independent Study
(See Independent Study under Academic Regulations.)

POLITICAL SCIENCE DEPARTMENT

POL. SC. 101. Introduction to Government and Politics (3) 3 Cr.
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; political relations among nations and the role of international organization in managing relations among nations. *Classification:* Elective.

POL. SC. 103. American Political Institutions and Problems (3) 3 Cr.
The Constitution and its principles; functions and roles of the federal executive, legislative and judicial branches; problems of individual liberty and governmental authority; problems of national

security, economic regulations and social welfare. *Classification:* Elective. Pol. Sc. 103 required of Secondary Social Studies majors.

POL. SC. 200. Urban Government (3) 3 Cr.
An introductory survey of governmental structure and functions in urban areas. In addition to the usual classroom presentations and discussions, students will observe urban government in action and will participate in simulated urban political activity involving group leadership, bargaining and coalition formation, and campaigning for "office." *Classification:* Elective.

POL. SC. 201. Principles and Problems of International Relations (3) 3 Cr.
Factors affecting national power; pressures in the making of national policy;

Number in parentheses indicates class hours per week.

international political systems; conduct of foreign relations; international law in war and peace; problems of international organizations. *Classification:* Elective.

POL. SC. 210. European Political Systems (3) 3 Cr.

Study of the structure and dynamics of politics in the major European countries with emphasis on the political behavior and the political process of decision-making. *Classification:* Elective.

POL. SC. 302. Governments of South and Southeast Asia (3) 3 Cr.

Transition from colonial to native control; attendant political, social and economic problems facing countries of the area; significance of the area in world-wide politics and military affairs; special attention to new countries' relationships to Communist China, Soviet Union, and the United States. *Classification:* Elective.

POL. SC. 304. Public Administration (3) 3 Cr.

Introduction to the study of public administration; analysis of the relations of the 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. *Classification:* Elective.

POL. SC. 305. State and Local Government and Politics (3) 3 Cr.

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. *Classification:* Elective.

POL. SC. 306. American Politics and Political Parties (3) 3 Cr.

Framework of American political system; major and minor parties; party organization; pressure politics, public opinion, propaganda, party finance. *Classification:* Elective.

POL. SC. 307. American Foreign Policy (3) 3 Cr.

Analysis of the basic institutions, process and ideas which shape American foreign policy; the interplay of foreign and domestic politics; the position of the United States in the world with special emphasis upon the post-World War II era in reference to East-West conflict and major area problems. *Classification:* Elective.

POL. SC. 309. Soviet Political System (3) 3 Cr.

A study of the political features of the Soviet regime; origins and establishment of the system; impact of Marxist-Leninist theory and Stalinist and post Stalinist revisionism; organization and role of Communist party in relation to other institutions; planned economy; leadership goals. *Classification:* Elective.

POL. SC. 310. Soviet Foreign Policy (3) 3 Cr.

Historical and analytical study of Soviet Foreign Policy, particularly since World War II. Analysis of ideological, social, and political determinants of Soviet Foreign Policy. Considerable attention placed on selected contemporary international problems and conflicts. *Classification:* Elective.

POL. SC. 312. Politics of Developing Countries (3) 3 Cr.

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 charisma, the army, and bureaucracy in political development; problems of nation-building and democracy in developing countries. *Classification:* Elective.

POL. SC. 313. (Hist. 313). Politics and History of the Middle East (3) 3 Cr.

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 countries. *Classification:* Elective.

POL. SC. 314. International Relations of the Middle East (3) 3 Cr.

Study of the patterns or 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. *Classification:* Elective.

POL. SC. 315. Governments and Politics of Sub-Sahara Africa (3) 3 Cr.

A study of the transition from Colonial rule to indigenous control and the attendant, political, social, and economic problems facing the African States. The significance of the area in world-wide context with special attention to the relationship of the new countries with the United States, the Soviet Union and Communist China. *Classification:* Elective.

POL. SC. 316. The Development of American Constitutional Law (3) 3 Cr.

Foundations of American constitutionalism; establishment of judicial review and its functions through time; development of Federal power in fields of commerce and taxation; federalism, separation of powers, and states rights through history; civil rights and liberties. *Classification:* Elective.

POL. SC. 318. Government and Politics of the Far East (3) 3 Cr.

An introductory survey of the governmental institutions and political processes of contemporary China, Korea and Japan. Major emphasis is placed on Japanese democratic reform since World War II and Chinese Communist Revolution, as well as the governmental structures, party systems and foreign policies of the countries concerned. *Classification:* Elective.

POL. SC. 393. Politics of Urban Education (3) 3 Cr.

Analysis of the history and present day dynamics of public educational decision-making. Special emphasis on the

role of education in urban conflict, the new patterns of employee relationships, and the socialization process and goals of American education. This course involves primary and original research using the concepts of modern social science. *Classification:* Elective.

POL. SC. 401. International Organization (3) 3 Cr.

Development and theories of international organizations and their role in promoting peace; economic and social cooperation among nations; analysis of the constitutional and political problems of the United Nations. *Classification:* Elective for juniors and seniors. *Prerequisite:* Three hours Political Science, preferably International Relations. *Special Note:* May be elected by graduate students.

POL. SC. 402. History of Political Theory I (3) 3 Cr.

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 Machiavelli. *Classification:* Elective for Juniors and Seniors. *Special Note:* May be elected by graduate students.

POL. SC. 403. History of Political Theory II (3) 3 Cr.

An exposition and critical analysis of the main problems of political theory by an examination of the writings of major political thinkers from Hobbes to Marx. *Classification:* Elective for Juniors and Seniors. *Special Note:* May be elected by graduate students.

POL. SC. 404. Contemporary Political Thought (3) 3 Cr.

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. *Classification:* Elective for Juniors and Seniors. *Special Note:* May be elected by graduate students.

POL. SC. SOC. 406. Political Behavior and Public Opinion (3) 3 Cr.

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. *Classification:* Elective for juniors and seniors. *Special Note:* May be elected by graduate students.

POL. SC. 408. Contemporary Issues in American Constitutional Law (3) 3 Cr.

Examination of post-World War II issues in constitutional law; Church-state relationships; national security and individual rights; race and the Constitution; Courts and reapportionment; and the administration of criminal justice. *Classification:* Elective for juniors and seniors. *Special Note:* May be elected by graduate students.

PSYCHOLOGY DEPARTMENT

Psychology 101 or Psychology 110 is a prerequisite for all other psychology courses. Psychology majors must take four courses from Group B, including two at the 300 or 400 level. Group B includes: Psychology 204, 208, 211, 221, 225, 255, 265, 270, 304, 311, 327, 332, 345, 381, 421, and 451.

PSYCH. 100. Introduction to Psychology (3) 0 Cr.

This course is geared to those students who feel that they need additional preparation before taking Psychology 101. All students will be required to spend at least one hour per week with a tutor reviewing course material in addition to the three hours per week in class. The tutorial experience is an integral part of the course since it will provide regular feedback that will enable the student to evaluate his progress on a continuing basis. Subject matter covered is identical to that covered in Psychology 101.

PSYCH. 101. Introduction to Psychology (3) 3 Cr.

The major objective of this course is to introduce students to the scientific study of behavior. Topics covered include research methodology, interaction of heredity, maturation and environmental factors, the biological determinants of behavior, perception, learning, motivation,

POL. SC. 470. Honors Seminar in Political Science (3) 3 Cr.

Selected topics such as New Left Politics, Revolution, etc. Permission of instructor.

POL. SC. 495. Project (See Project under Academic Regulations).

POL. SC. 497. Washington Semester (Daily) 15 Cr.

Political Process 6 Cr.

Congress 3 Cr.

Executive and Courts 3 Cr.

Project 3 Cr.

Participation in State University of New York Washington Semester program. Competitive selection.

POL. SC. 499. Independent Study (See Independent Study under Academic Regulations.)

intelligence and personality. *Classification:* Required of I.A. students; Psych. 101 or 110 required of psychology majors; elective.

PSYCH. 110. Introduction to Psychology for Majors (3) 3 Cr.

The purpose of this course is to provide an introduction to Psychology designed to meet the needs of those students intending to pursue further courses in the discipline. Subject matter is essentially the same as that covered in Psychology 101 but in somewhat greater depth. *Classification:* Psych. 101 or 110 is required of all psychology majors.

PSYCH. 203. General Psychology Seminar (3) 3 Cr.

This course examines intensively a number of topics which were more superficially covered in Psychology 101 (e.g., aggression, frustration, prejudice). Emphasis is placed on critical analysis of psychological information as well as

development of a background of knowledge in preparation for advanced courses. *Classification:* Required of psychology honors students; recommended for psychology majors; elective. *Prerequisite:* Grade of B or better in Psych. 101 or 110. No psychology courses beyond 101 or 110 may have been taken.

PSYCH. 204. The Psychology of Learning (3) 3 Cr.

Major emphasis in this course will be on the scientific investigation of the learning process rather than on the application of learning principles in education situations. Topics will include the physiological correlates of learning, memory and attention, empirical laws and principles and their derivation from research on humans and animals, and theoretical explanations of the learning process. *Classification:* Group B; elective. *Prerequisite:* Psych. 101 or Psych. 110.

PSYCH. 205. Independent Reading (1) 1 Cr.

Supervised reading on a specific problem in psychology, to be chosen by mutual agreement of the student and faculty member involved. *Classification:* Required of students in the departmental honors program; elective. *Prerequisite:* Psych. 101 or 110 and permission; Psych. 203 for honors students.

PSYCH. 206. Statistics in Psychological Research (3) 3 Cr.

Intensive study of the major descriptive and inferential statistics used in psychological research. Practice in the use of statistical tests of significance. Topics covered include graphic and tabular presentation of data, measures of central tendency and dispersion, probability theory, *t*-tests, analysis of variance, chi-square, correlational techniques, and experimental design. *Classification:* Required of psychology majors; elective. *Prerequisite:* Psych. 101 or Psych. 110.

PSYCH. 207. Independent Research (1) 1 Cr.

Supervised research of an experimental or observational nature on a specific psychological problem, to be chosen by mutual agreement of the student and faculty member involved. *Classification:*

Required of students in the departmental honors program; elective. *Prerequisite:* Psych. 101 or 110 and permission; Psych. 205 for honors students.

PSYCH. 208. Basic Concepts of Perception (3) 3 Cr.

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. *Classification:* Group B; elective. *Prerequisite:* Psych. 101 or Psych. 110.

PSYCH. 211. Personality: Theory and Research (3) 3 Cr.

This course will focus on the theoretical problems, methods and empirical findings related to the development of an adequate theory of personality development and functioning. Topics covered will include problems of theory construction, major theoretical approaches, and personality assessment. Empirical research will be discussed and evaluated. The focus throughout is on the normal individual. *Classification:* Group B; elective. *Prerequisite:* Psych. 101 or Psych. 110.

PSYCH. 221. Comparative Psychology (3) 3 Cr.

Analysis of instinctive and learned behavior in characteristic animals, correlating structure and function, with emphasis on fundamental principles of adaptation. *Classification:* Elective; Group B. *Prerequisite(s):* Psych. 101 or Psych. 110 or Biol. 116.

PSYCH. 225. Social Behavior (3) 3 Cr.

An examination of major aspects of the study of the individual as his behavior relates to social processes, with an emphasis on theoretical and empirical material. Topics covered will include social motivation, techniques of attitude scaling, theories of attitude formation and change, psycholinguistics, cultural and societal influences on the individual,

small group processes, conformity, leadership and competition. *Classification:* Group B; elective. *Prerequisite:* Psych. 101 or Psych. 110.

PSYCH. 255. Developmental Psychology (3) 3 Cr.

Examination of the principles of development from conception through maturity and old age. Focus will be on theories of development, issues, and empirical research. Topics will include; general issues in developmental psychology, major theories of development (including learning, psychoanalytic, and Piagetian theory), early determinants of behavior, motivational, physical, conceptual, and language development, changes across the life span. *Classification:* Group B; elective. *Prerequisite:* Psych. 101 or Psych. 110.

PSYCH. 265. Industrial Psychology (3) 3 Cr.

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 influencing productivity, leadership and organizational theory are also considered. *Classification:* Required of I.T. majors; Group B; elective. *Prerequisite:* Psych. 101 or Psych. 110.

PSYCH. 270. (E.S. 270). Environmental Psychology (3) 3 Cr.

This course will examine significant aspects of the role of the physical environment in man's psychological functioning. Topics covered will include: theoretical bases for the study of physical environment-behavior relations; research methods; individual human needs and environment including territoriality and environmental design; social facilitation; social institution-environment relations; environmental planning; approaches to implementing planned man-environment relationships via attitude and behavior change techniques. *Classification:* Group B; elective. *Prerequisite:* Psych. 101 or Psych. 110. Biol. 315 or Science 221 is also recommended.

PSYCH. 280. Psychological Effects of Cultural Deprivation (3) 3 Cr.

This course is a systematic approach to the study of the effects of severe cultural deprivation on the psychological characteristics of individuals. Emphasis is placed on the use of psychological assessment techniques in studying the relationships between culturally oppressive conditions and behavior. In addition to empirical factors, theoretical approaches to explaining the effects of cultural deprivation on behavior are considered. *Classification:* Elective. *Prerequisite:* Psych. 101 or Psych. 110.

PSYCH. 304. Theories of Learning (3) 3 Cr.

An examination of the major modern theories of learning including classical, congruous and operant conditioning, mathematical models, neurophysiological theories and information processing models. *Classification:* Group B; elective. *Prerequisite:* 9 hours of psychology including Psych. 204.

PSYCH. 311. Abnormal Psychology (3) 3 Cr.

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. *Classification:* Group B; elective. *Prerequisite:* Psych. 211.

PSYCH. 327. Cognitive Processes in Maturity and Old Age (3) 3 Cr.

An examination of developmental changes in maturity and old age. Particular attention will be devoted to the theoretical and methodological issues involved in studying age-related changes in memory, learning and problem solving efficiency. *Classification:* Group B; elective. *Prerequisite:* Psych. 204.

PSYCH. 332. Motivation: Determination and Functions (3) 3 Cr.

This course examines the concept of motivation in depth and considers the fundamental empirical and logical bases for its postulation and its use in psychological explanations of behavior from lower animals through human beings.

Rather than elaborating on the broad usage of the concept in various areas of behavior, attention is turned to the concept itself, and to the questions of what determines motives and how motivational processes interact with other basic psychological processes. *Classification:* Group B; elective. *Prerequisite:* 9 hours of psychology including Psych. 204.

PSYCH. 345. History and Systems of Psychology (3) 3 Cr.

A systematic study of the historical antecedents of contemporary psychology. *Classification:* Group B; elective. *Prerequisite:* 9 hours of Psychology or 6 hours of Psychology and Phil. 402.

PSYCH. 351. Experimental Psychology (2,2) 3 Cr.

This course is designed to provide the student with a basic understanding of experimental design, theory construction, research methods in psychology, presentation and analysis of data, research report writing, scaling and measurement techniques applied to psychological processes, and the application of experimental techniques to specific areas of Psychology (e.g. learning, perception, motivation). The student will conduct laboratory experiments in several areas of psychology. *Classification:* Required for psychology majors; elective. *Prerequisite:* 9 hours of psychology, including Psych. 206.

PSYCH. 352. Experimental Psychology (2,2) 3 Cr.

A continuation of Psychology 351. *Classification:* Required for psychology majors; elective. *Prerequisite:* Psych. 251.

PSYCH. 381. Psychological Tests and Measurements (3) 3 Cr.

Basic theoretical problems; reliability, validity, test construction, examination and interpretation of most commonly used intelligence, personality and other psychological tests. *Classification:* Group B; elective. *Prerequisites:* 9 hours of Psychology including Psych. 206.

PSYCH. 421. Physiological Psychology (2,2) 3 Cr.

An examination of theoretical propositions and empirical findings pertaining to

the neurophysiological correlates of behavior, with special emphasis on brain function. *Classification:* Group B; elective. *Prerequisite:* Psych. 101 or 110 and 12 additional hours of Psychology and/or Biology. *Special Note:* May be elected by graduate students.

PSYCH. 451. Advanced Experimental Psychology (2,2) 3 Cr.

This course, a continuation of Psychology 351-352, is designed to increase the students' competency in the application of research methods to the investigation of behavior. Methods of theory construction, complex experimental designs and statistical techniques will be emphasized. Each student will be required to select a problem for investigation, to design and conduct an experiment and to prepare a research report which meets the formal criteria for journal publication. *Classification:* Group B; required of honors students and recommended for graduate schools candidates; elective. *Prerequisite:* Psych. 352. *Special Note:* May be elected by graduate students.

PSYCH. 472. Seminar on Psychology (3) 3 Cr.

Detailed study of empirical laws and principles and theoretical explanations pertaining to selected problem areas in psychology. *Classification:* Required for Psychology majors; elective. *Prerequisite:* Psych. 352, or 15 hours in psychology and permission of instructor. *Special Note:* May be elected by graduate students.

PSYCH. 495. Project

(See project under Academic Regulations.)

PSYCH. 498. Honors Thesis (3) 3 Cr.

Continuation of work done in Psychology 451; writing and oral defense of a thesis. *Classification:* Required of students in departmental honors program. Grade of B or better is required for graduation with honors in Psychology. *Prerequisite:* Honors standing; Psych. 451.

PSYCH. 499. Independent Study

(See Independent Study under Academic Regulations.)

SAFETY STUDIES DEPARTMENT

This Department provides course work of a general as well as specialized nature for safe living in the myriad areas and activities of everyday life.

The general safety courses such as Fundamentals of Safety and Safety Education are designed with consideration given to the varied areas of living to provide the student with the understanding and appreciations fundamental to an accident-free existence. The basic safety knowledge provided by these courses can serve to fill the voids left in the typical program of education or may be employed as a foundation for more specialized safety course work.

The Driver Education course sequence satisfies the specialized educational requirements necessary for teachers to qualify as high school Driver Education instructors in New York State. All individuals desiring to acquire approval as high school Driver Education instructors must also be licensed to teach in the secondary school and be in possession of a good driving record.

The industrial course offerings are designed to investigate and analyze typical safety programs and philosophies currently used in various industries today. These courses provide additional breadth and depth to industrially oriented students while also promoting safer school shop and laboratory conditions for students in the education sequence.

***SSD 400. Fundamentals of Safety (3) 3 Cr.**
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. *Classification:* elective. *Special Note:* May be elected by graduate students.

SSD 416. Safety Education (3) 3 Cr.
Kinds and frequency of accidents; psychology in accident prevention; safety in home, school, shop, playground and community; water, traffic, industrial and fire safety; poisons and emergency treatment; artificial respiration. *Classification:* All college elective. *Special Note:* May be elected by graduate students.

SSD 417. Driver Education and Traffic Safety I (2,2) 3 Cr.

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

*General-liberal

prevention techniques; traffic engineering; negligence and liability; insurance interpretation; effects of alcohol; automobile preventative maintenance; devices and aids in teaching. *Classification:* Elective for juniors and seniors. *Prerequisite:* A good driving record; a New York State driver's license (a licensed operator for at least two years). *Special Note:* May be elected by graduate students.

SSD 418. Learning to Drive 0 Cr.
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.

SSD 426. Driver Education and Traffic Safety II (2,2) 2 Cr.

Second and final course for provisional

approval as a Driver Education instructor; classroom and in the car practice teaching; organization and administration of the high school driver education program; instructional techniques and methods; equipment, materials and facilities; public relations. *Classification:* Elective for juniors and seniors. *Prerequisite:* SSD 417, completed within the previous 2 years. *Special Note:* May be elected by graduate students.

SSD 430. Fundamentals of Industrial Accident Prevention (3) 3 Cr.

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

SOCIOLOGY DEPARTMENT

SOC. 101. Introduction to Sociology (3) 3 Cr.
An introduction to the science of human interaction; stress on major concepts which organize human interaction and explain human behavior; nature of culture and social structure and their effects on personality function. *Classification:* Required of all sociology majors. This course or its equivalent is a prerequisite for all other undergraduate courses in Sociology. *Special Note:* In the past this course has been identified as Soc.-Anth. 101-(Anth.-Soc. 101) Introduction to Sociology-Anthropology (Anthropology-Sociology); and S.S. 101-Man and His Institutions. Students who have passed either of these courses or an equivalent introductory sociology course elsewhere may not take this Sociology 101 for credit.

SOC. 202. Analyzing Social Problems (3) 3 Cr.

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. *Prerequisite:* Soc. 101.

Number in parentheses indicates class hours per week.

prevention; education and training of employees. *Classification:* Required of industrial technology majors. All college elective for juniors and seniors. *Special Note:* May be elected by graduate students.

SSD 431. Organization, Administration and Supervision of Industrial Accident Prevention Programs (3) 3 Cr.

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. *Classification:* All college elective for juniors and seniors. *Prerequisite:* SSD 430. *Special Note:* May be elected by graduate students.

SOC. 203. Sociology of the Family (3) 3 Cr.
Family as a social institution; its historical development, function, and structure; cross cultural comparisons; sub-cultural analysis of the contemporary American family system. *Prerequisite:* Soc. 101.

SOC. 204. Race Relations (Black-White) (3) 3 Cr.

The problem of Black-White relationships in American Society; forms, causes and effects of prejudice; nature of current racial conflict; examination of current proposals for new Black-White relationships. *Classification:* Required for Criminal Justice majors. *Prerequisite:* Soc. 101.

SOC. 301. Nationality Groups in American Culture (3) 3 Cr.

Problems and cultural contributions of largest immigrant ethnic groups; patterns of immigration; immigrant institutions; community life; problems of assimilation and of the "second generation." *Prerequisite:* Soc. 101.

SOC. 303. Social Psychology (3) 3 Cr.
Motivation and nature of attitudes; attitude change and stability; interpersonal perception and behavior; role prescrip-

tions and role conflict; prejudice; conflict resolution. *Prerequisite:* Soc. 101.

SOC. 304. Social Stratification (3) 3 Cr.
Functions of social stratification; kinds of stratification systems; differences in class interests, values and behaviors; social mobility. *Prerequisite:* Soc. 101.

SOC. 305. Methods in Social Research (3) 3 Cr.

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. *Classification:* Required for all sociology majors. *Prerequisites:* Soc. 101 and six additional hours in sociology.

SOC. 306. Social Statistics (3) 3 Cr.
Statistical methods and reasoning will be used to analyze and clarify sociological information. *Classification:* Required for sociology majors (Mathematical Statistics may be substituted with departmental approval.) *Prerequisites:* Soc. 101 and Soc. 305.

SOC. 307. Sociology of Education (3) 3 Cr.
A study of the structural and functional features of our educational system. Analysis of the effects of this system on society. *Prerequisite:* Soc. 101. *Classification:* Elective for juniors and seniors. *Special Note:* May be elected by graduate students.

SOC. 308. Group Structure and Process (3) 3 Cr.

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. *Prerequisite:* Soc. 101. *Special Note:* This course was formerly identified as Group Dynamics.

SOC. 309. Sociology of Crime (3) 3 Cr.
Nature and extent of crime; causes, conditions and theories regarding crime; administration of justice; treatment of

criminals; crime prevention. *Prerequisite:* Soc. 101. *Special Note:* This course was formerly identified as Soc. 408.

SOC. 310. Human Ecology (3) 3 Cr.
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. *Prerequisite:* Soc. 101.

SOC. 311. Social Movements (3) 3 Cr.
The analysis of various social movements. Relationships between individual discontent and social movements. Functional and dysfunctional aspects of different types of social movements. *Prerequisite:* Soc. 101.

SOC. 401. Juvenile Delinquency (3) 3 Cr.
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. *Prerequisite:* Soc. 101. *Special Note:* May be elected by graduate students.

SOC. 402. Sociology of the City (3) 3 Cr.
A study of the organization of urban life with emphasis on its development, ecology, institutions, impact on individuals; consideration of urban planning and housing. *Prerequisite:* Soc. 101. *Classification:* Requirement for Urban Studies majors. Elective for juniors and seniors. *Special Note:* May be elected by graduate students.

SOC. 403. Contemporary Sociological Theory (3) 3 Cr.

Significance of sociological theory; methods and assumptions of theory construction; structure of social systems. *Classification:* Optional (with Soc. 405); requirement for Sociology majors. *Prerequisite:* Soc. 101 and six additional hours in Sociology. Elective for juniors and seniors. *Special Note:* May be elected by graduate students who have the prerequisite for the course.

SOC. 404. Sociology of Religion (3) 3 Cr.
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. *Prerequisite:* Soc. 101. *Classification:* Elective for juniors and seniors. *Special Note:* May be elected by graduate students.

SOC. 405. Foundations of Sociological Thought (3) 3 Cr.

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. *Prerequisite:* Soc. 101 and six additional hours in Sociology. *Classification:* Optional (with Soc. 403); requirement for sociology majors. Elective for juniors and seniors. *Special Note:* May be elected by graduate students.

SOC.-P.S. 406. Political Behavior and Public Opinion (3) 3 Cr.

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. *Prerequisite:* Soc. 101. *Classification:* Elective for juniors and seniors. *Special Note 1:* May be elected by graduate students. *Special Note 2:* May be used for sociology or political science at the choice of the student.

SOC. 407. Sociology of Occupations (3) 3 Cr.
The social structure of American occupations. Occupational recruitment viewed as related to race, social class, and education. Careers and career lines. The changing structure. *Prerequisite:* Soc. 101. *Classification:* Elective for juniors and seniors. *Special Note:* May be elected by graduate students.

SOC. 409. Seminar in Sociology (3) 3 Cr.
Research in selected area(s) of Sociology. *Prerequisite:* Soc. 101 and Soc. 305. *Classification:* Required for Sociology majors with senior standing (2nd semester seniors will be given first preference).

SOC. 411. Sociology of Aging (Social Gerontology) (3) 3 Cr.

Consideration of the biological, psychological and social processes of aging and the problems connected with these processes in our society. *Prerequisite:* Soc. 101. *Classification:* Elective for juniors and seniors. *Special Note:* May be elected by graduate students.

SOC. 413. Sociology of Law (3) 3 Cr.

A study of the structure and function of law in the American culture, with particular reference to the legal profession and the situations in which the law arises and has an effect on the social system. *Prerequisite:* Soc. 101. *Classification:* Elective for juniors and seniors. *Special Note:* May be elected by graduate students.

SOC. 414. Sociology of Addiction (3) 3 Cr.

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. *Prerequisite:* Soc. 101. *Classification:* Elective for juniors and seniors. *Special Note:* May be elected by graduate students.

SOC. 415. Population Analysis and Problems (3) 3 Cr.

United States and world populations; quantity increase and decrease, distribution, migration, and composition of population; bearing on these factors upon economic, political, and social problems and upon social values, action, and structure. *Prerequisite:* Soc. 101. *Classification:* Elective for juniors and seniors. *Special Note:* May be elected by graduate students.

SOC. 416. The American Jewish Community (3) 3 Cr.

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. *Prerequisite:*

Soc. 101. *Classification:* Elective for juniors and seniors. *Special Note:* May be elected by graduate students.

SOC. 419. Sociology of Punishment and Corrections (3) 3 Cr.

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. *Prerequisite:* Soc. 101 and either Soc.

SPEECH AND THEATRE ARTS DEPARTMENT

SP. & T.A. 103. Introduction to Communications (3) 3 Cr.

An investigation of communication needs, patterns and technologies with special emphasis on the modern industrial-electronic state. Comparisons between pre-technological cultures will be studied. The role of critical audience will be stressed and the value forming quality of the spoken word emphasized. *Classification:* Elective. *Prerequisite:* None.

SP. & T.A. 105. Introduction to the Speech Arts (3) 3 Cr.

A study of the total speech process through the introduction to speech physiology and the applied skills of public speaking, discussion, and oral interpretation. *Classification:* Elective; not to be taken after advanced speech courses. *Prerequisite:* None.

SP. & T.A. 106. Introduction to Theatre Arts (3) 3 Cr.

An introduction into all areas of theatre involved in staging a theatrical production. Includes discussions of professional, educational and community theatre. Lectures plus labs. *Classification:* Elective. *Prerequisite:* None.

SP. & T.A. 200. Voice and Diction (3) 3 Cr.

A comprehensive study of the speech mechanism and voice production. *Classification:* Elective. *Prerequisite:* SP. & T.A. 105.

Number in parentheses indicates class hours per week.

309 or Soc. 401. *Classification:* Elective for juniors and seniors. *Special Note:* May be elected by graduate students who have prerequisites for the course.

SOC. 495. Project
(See Project under Academic Regulations.)

SOC. 499. Independent Study
(See Independent Study under Academic Regulations.)

SP. & T.A. 202. Public Speaking (3) 3 Cr.

Organization, delivery and evaluation of the public speech. *Classification:* Elective. *Prerequisite:* SP. & T.A. 105.

SP. & T.A. 207. Play Production (3) 3 Cr.

The analysis planning and execution of the various aspects of theatre. Practical experience working on Casting Hall Productions. *Classification:* Elective.

SP. & T.A. 208. Technical Theatre (3) 3 Cr.

The various aspects of technical production; practical experience in all aspects of technical theatre. *Classification:* Elective. *Prerequisite:* SP. & T.A. 207 or consent of department.

SP. & T.A. 209. Discussion (3) 3 Cr.

An inter-disciplinary approach to discussion. Special consideration given to the nature and analysis of the discussion processes. *Classification:* Elective. *Prerequisite:* SP. & T.A. 105.

SP. & T.A. 260. Basic Movement for Actors (2) 3 Cr.

Designed to give the student actor a knowledge and awareness of his body so that he can more fully incorporate the physical dimensions of acting into his character portrayals. The course is comprised of a pluralistic series of movement experiences, including the basic problems of posture and carriage, as well as the advanced problems of the physicalization of a character. *Prerequisite:* SP. & T.A. 106 or instructor's consent. *Classification:* Elective.

SP. & T.A. 309. Argumentation and Debate (3) 3 Cr.

The format and procedure of debate with practice in preparing and delivering cases. *Classification:* Elective. *Prerequisite:* SP. & T.A. 105.

SP. & T.A. 310. Advanced Technical Problems (3) 3 Cr.

Examination of special problems; theories and trends in technical theatre; independent projects in advanced technical theatre. *Classification:* Elective. *Prerequisite:* SP. & T.A. 208.

SP. & T.A. 311. Costume for the Theatre (3) 3 Cr.

Nature, function, and history of costume; practical problems of costuming. *Classification:* Elective. *Prerequisite:* SP. & T.A. 106 or consent of department.

SP. & T.A. 317. History of the Theatre: Ancient to Renaissance (3) 3 Cr.

An examination of the origins and development of the physical theatre; the consideration of dramatic literature in its theatrical context. *Classification:* Elective.

SP. & T.A. 318. History of the Theatre: Renaissance to Modern (3) 3 Cr.

The emergence of the modern theatre; the consideration of dramatic literature in its theatrical context. *Classification:* Elective.

SP. & T.A. 319. Playwriting (3) 3 Cr.

Development of critical capacities in reference to the student's own work and that of his classmates; productive work in playwriting. *Classification:* Elective. *Prerequisite:* SP. & T.A. 106 or consent of department.

SP. & T.A. 320. Oral Interpretation of Literature (3) 3 Cr.

Oral reading of prose, poetry, and drama selection and arrangement of material for formal and informal audiences. *Classification:* Elective.

SP. & T.A. 321. Oral Interpretation: Special Types (3) 3 Cr.

The selection and adaptation of literary forms for choral interpretation, the lec-

ture-recital, readers' theatre and chamber theatre. *Classification:* Elective. *Prerequisite:* SP. & T.A. 320.

SP. & T.A. 322. Rhetorical Theory (3) 3 Cr.

A study of the major theories of rhetoric including the ancients but emphasizing modern Rhetoricians. Applying and focusing these theories to present day speakers and writers, especially those of the technocracy and those of the counter culture. *Classification:* Elective. *Prerequisite:* SP. & T.A. 103 or 105 or 202.

SP. & T.A. 326. Acting: Theory and Practice (3) 3 Cr.

An examination of the actor's art, the relationship of theory to practice. *Classification:* Elective. *Prerequisite:* SP. & T.A. 106 or consent of department.

SP. & T.A. 406. Secondary School Speech Activities (3) 3 Cr.

Speech activities as they pertain to curricular and co-curricular speech programs. *Classification:* Elective. *Prerequisite:* SP. & T.A. 105 or consent of department.

SP. & T.A. 418. Creative Dramatics (3) 3 Cr.

History, philosophy, methods, and materials of informal playmaking with children; observation and participation. *Classification:* Elective.

SP. & T.A. 419. Speech Activities in the Elementary School (3) 3 Cr.

Speech as an integrative and developmental activity of elementary school children; conversation; story telling, oral reports, creative dramatics. *Classification:* Elective.

SP. & T.A. 420. Oral Interpretation of Children's Literature (3) 3 Cr.

Comparisons and contrasts between oral reading and storytelling; choral interpretation as a means of literature appreciation; and the criteria for selecting literature to be shared orally. *Classification:* Elective. *Prerequisites:* English 210, *Children's Literature*, or its equivalent.

SP. & T.A. 426. Advanced Acting (3) 3 Cr.

Styles, periods, and Methods of Acting. *Classification:* Elective. *Prerequisite:* SP. & T.A. 326 and consent of department.

SP. & T.A. 450. Directing (3) 3 Cr.
An examination of the responsibilities of the play director. *Classification:* All college elective. *Prerequisite:* SP. & T.A. 326, Acting.

SP. & T.A. 485. History and Criticism of American Public Address: I (3) 3 Cr.

A study of major American orators in the areas of political, religious and reform movements from the Orations of the native Americans (Indians) to the present. Changing emphasis with each semester focusing on two or more related movements in American History. Of special interest to students of rhetoric, American Studies, History, Political Science or

Philosophy. *Classification:* Elective. *Prerequisite:* STA 103 or 322.

SP. & T.A. 495. Project
(See Project under Academic Regulations.)

SP. & T.A. 496. Seminar in Speech and Theatre Arts (3) 3 Cr.

Examination of attitudes; sharpening of critical capacities; productive scholarly and creative works. *Classification:* Elective. *Prerequisites:* 24 hours completed in Speech and Theatre Arts.

SP. & T.A. 499. Independent Study
(See Independent Study under Academic Regulations.)

DIVISION OF VOCATIONAL TECHNICAL

V.T. 100. Applied Skill and Technical Information 30 Cr.

Satisfied by passing a performance and theoretical examination. (Letters verifying approved and appropriate experience and, in addition, satisfying other necessary requirements as set forth in the admission requirements for the Basic Vocational Technical Teacher Education Program.) These credits are acceptable after completion of the Basic Vocational Technical Certification requirements.

V.T. 200. Introduction to Vocational Technical Education (3) 3 Cr.

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 good programs; personal and professional characteristics of teachers and trends in vocational education.

V.T. 201. Occupational/Content Analysis (3) 3 Cr.

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.

Number in parentheses indicates class hours per week.

V.T. 202. Course Organization (3) 3 Cr.

To arrange the instructional material in a logical teaching-learning sequence appropriate to the students' ability. *Prerequisite:* V.T. 201.

V.T. 203. Educational Psychology (3) 3 Cr.

Fundamentals of psychology and the application to learning; nature and principles of learning, individual differences, factors influencing learning ability and problems of human behavior in an educational setting; physical, intellectual, emotional and social development of youth.

V.T. 204. Methods of Teaching Vocational Technical Subjects (3) 3 Cr.

Basic principles and methods of teaching vocational technical subjects. Prepares the craftsman, technician, or engineer to effectively impart his knowledge to the learner.

V.T. 206. Shop/Laboratory Organization and Management (3) 3 Cr.

Emphasizing the many organizational factors essential to success in the teaching profession. Includes the various planning, supervisory and managerial phases of the vocational technical teacher's position.

V.T. 207. Use of Instructional Media (3) 3 Cr.

Effective preparation and use of commercial, instructor and student prepared media. Familiarization with sources, criteria for selection and evaluation procedures.

V.T. 211. Evaluation of Instruction (3) 3 Cr.

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.

V.T. 212. Teaching Clinic (3) 3 Cr.

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. *Prerequisites:* V.T. 203, 204, 207.

V.T. 213. Practice Teaching and Observation (3) 3 Cr.

Supervised observations of vocational technical classes in specially selected, approved vocational schools. Conference and reports based upon teaching assignments will be required. *Prerequisite:* V.T. 212.

V.T. 215. Professional Development Seminar (3) 3 Cr.

Opportunity to synthesize the pedagogical courses and practice teaching experience, and to analyze the problems which confront the teacher. *Prerequisite:* V.T. 200, 212.

V.T. 401. Applied Design (3) 3 Cr.

Application and theory of design principles as related to vocational education, the methods and approach to the fundamentals of drawing, art and design, emphasizing function, material, and processes in relation to form.

V.T. 402. Applied Design (3) 3 Cr.

A continuation of V.T. 401.



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. succeeds 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 Named 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 State 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
- 1958 Approval of Secondary Teacher Education Curricula in Mathematics and Science
- 1959 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 English

- 1962 Approval of Secondary Teacher Education Curriculum in Social Studies
- 1963 Approval of Liberal Arts Degree Program
- 1963 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
- 1968 Master of Arts Degree with major in History was 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 was authorized.

ACCREDITATION AND MEMBERSHIP**State University College at Buffalo***accreditations*

Board of Regents, University of the State of New York
 Middle State Association of Colleges and Secondary Schools
 National Council for Accreditation of Teacher Education

affiliations

American Association of Colleges for Teacher Education
 American Association of College Registrars and Admissions Officers
 American Association of State Colleges and Universities
 American Association of University Women
 American Chemical Society
 American Council on Education
 American Library Association
 Association for General and Liberal Studies
 Association for Higher Education
 Association of College Unions
 Great Lakes Historical Society
 National Association of College and University Summer Session
 National Association of Elementary School Principals
 National Association of Secondary School Principals
 National Association of Student Personnel Administrators
 New York State Historical Association

STATE UNIVERSITY OF NEW YORK

"The State University of New York — with more than 320,000 students on 70 campuses from Suffolk on Long Island to Fredonia in the west — stands proudly as an institution unparalleled in its development, unique in its diversity and increasingly looked to as a model of what the public university of the future must become."

In this manner, Chancellor Ernest L. Boyer, at his inauguration in April, 1971, described the State University of New York — America's largest university system and, at the age of 23, its youngest.

Since its founding in 1948, the State University has grown from 29 State-supported but uncoordinated campuses into an organized system of higher education comprising 72 institutions which enrolled 226,000 full-time and 122,000 part-time students in academic 1971-72.

Specifically, the University encompasses four university centers (two of which, Buffalo and Stony Brook, include health science centers); two medical centers; 13 colleges of arts and science; a non-residential college; three specialized colleges; six agricultural and technical colleges; five statutory colleges; and 38 locally-sponsored community colleges. Together, they offer students a choice of more than 3,100 academic specializations, representing more than 1,500 different degree programs. Twelve of the campuses offer graduate study at the doctoral level, 22 at the master's level.

Advanced degree study encompasses a wide spectrum, including agriculture, business administration, criminal justice, dentistry, engineering, forestry, medicine, nursing, optometry, pharmacy and veterinary medicine.

Four-year programs emphasize the liberal arts and science and include such specializations as teacher education, business, forestry, physical education, maritime service, ceramics and the fine and performing arts.

The two-year colleges offer associate degree opportunities in arts and science and in technical areas such as agriculture, business, civil technology, data processing, police science, nursery education, nursing, medical laboratory technology and recreation supervision. The two-year colleges provide transfer programs within the University for students wishing to earn a baccalaureate degree.

Responding to the needs of New York State's economically and educationally disadvantaged citizens, the State University has also established six urban centers and six cooperative college centers. The former provide training for skilled and semi-skilled occupations as well as college foundation courses for youths and adults in inner-city areas. The latter combine the resources of public and private colleges within a region in a joint effort to prepare students for full-time college programs.



Diversity at the State University is further emphasized by its innovative approaches to education. Empire State College, the 72nd and newest institution, is a non-residential college whose students earn degrees without being attached to a specific campus or having to enroll in traditional courses. Its coordinating center at Saratoga Springs reaches out to students through regional learning centers which will be opened, eventually, at 20 locations throughout the State. Several senior campuses are experimenting with programs to shorten the traditional four-year period of baccalaureate study.

Ultimately responsible for the decisions which have led to the growth and diversity of the State University is its Board of Trustees. Appointed by the Governor, the Board determines the policies to be followed by all State-supported institutions of higher education, with the exception of the senior college of City University of New York. The Board's policies are administered by the Chancellor, the chief executive officer of the University.

While the 38 community colleges have their own local boards of trustees and the State pays only one-third of their operating costs and one-half of their capital costs, these two-year colleges operate under the University program.

It is a program which the Trustees and the Chancellor base on a fundamental principle and one which draws the vast and complex campus system into a single University: the improvement and extension of educational opportunities to citizens throughout the State.

The State University motto asserts that principle: "Let Each Become All He Is Capable of Being."

STATE UNIVERSITY OF NEW YORK

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THE COLLEGE

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Term Expires	
1981	
1973	
1980	
1979	
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1974	
1977	
1976	

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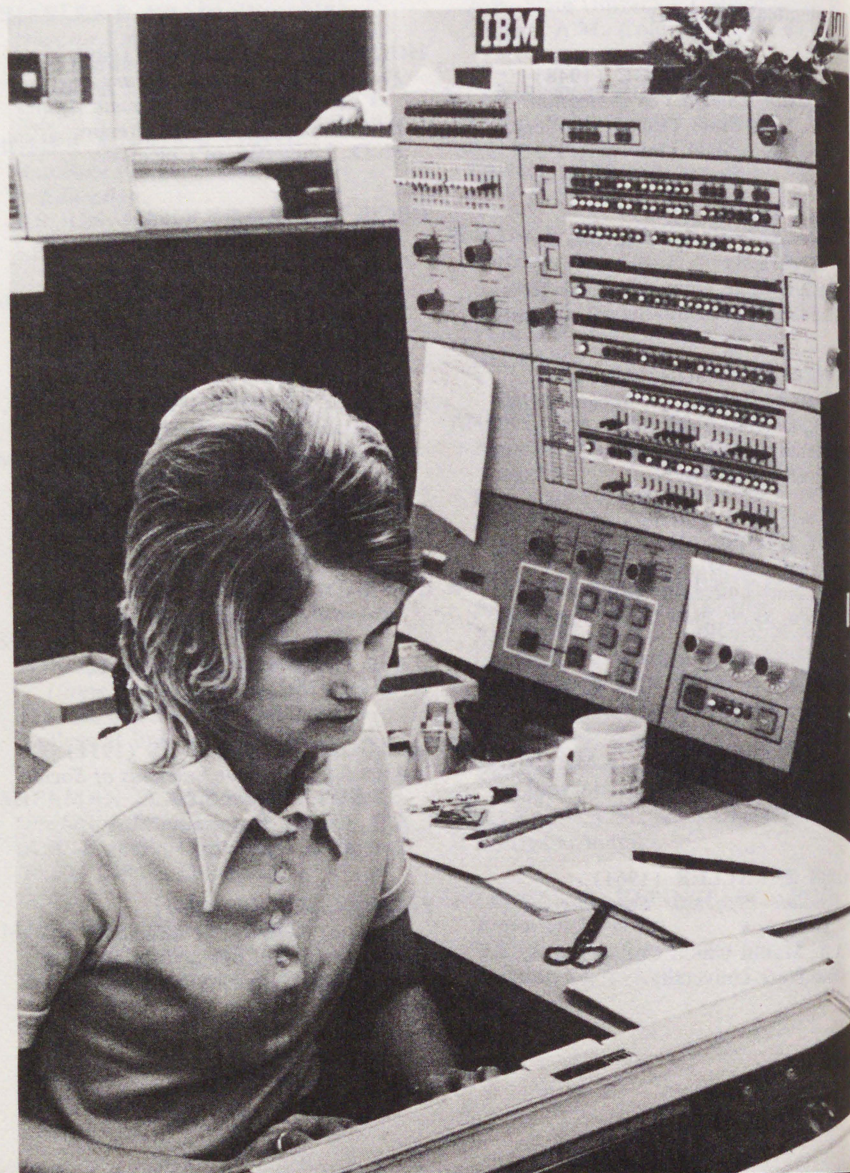
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STATE UNIVERSITY UNITS

University Centers

State University at Albany
 State University at Binghamton

State University at Buffalo
 State University at Stony Brook

Medical Centers

Downstate Medical Center at Brooklyn
 Upstate Medical Center at Syracuse

Colleges of Arts and Science

College at Brockport
 College at Buffalo
 College at Cortland
 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
 *Upper Division College

*The Upper Division College offers evening, Saturday and summer courses at a temporary location, 811 Court Street, Utica.

Specialized Colleges

College of Forestry at Syracuse University
 Maritime College at Fort Schuyler (Bronx)
 College of Optometry at New York City

Non-Residential College

Empire State College at Saratoga Springs

Agricultural and Technical Colleges (Two-Year)

Alfred
 Canton
 Cobleskill
 Delhi
 Farmingdale
 Morrisville

Statutory Colleges

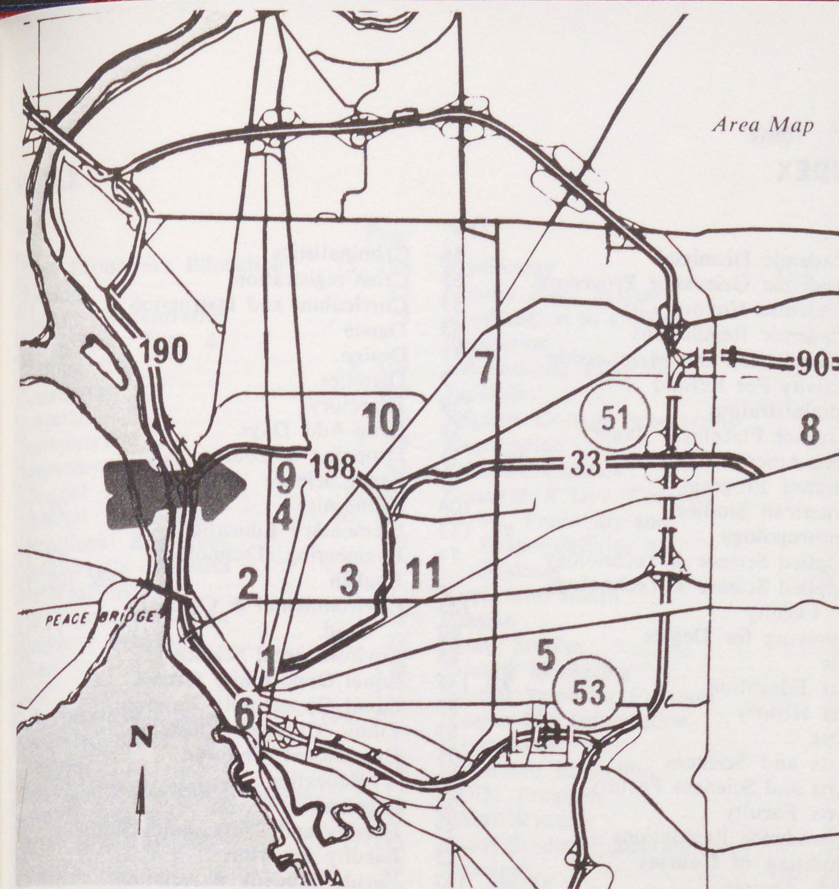
College of Ceramics at Alfred University
 College of Agriculture and Life Sciences at Cornell University
 College of Human Ecology at Cornell University
 School of Industrial and Labor Relations at Cornell University
 Veterinary College at Cornell University

Community Colleges

(Locally-sponsored, two-year colleges under the program of State University.)

Adirondack Community College at Glens Falls
 Auburn Community College at Auburn
 Borough of Manhattan Community College
 Bronx Community College
 Broome Community College at Binghamton
 Clinton Community College at Plattsburgh
 Columbia-Greene Community College at Athens

Community College of the Finger Lakes at Canandaigua
 Corning Community College at Corning
 Dutchess Community College at Poughkeepsie
 Erie Community College at Buffalo
 Fashion Institute of Technology at New York City
 Fulton-Montgomery Community College at Johnstown
 Genesee Community College at Batavia
 Herkimer County Community College at Ilion
 Hostos Community College at South Bronx
 Hudson Valley Community College at Troy
 Jamestown Community College at Jamestown
 Jefferson Community College at Watertown
 Kingsborough Community College
 LaGuardia Community College at Long Island City
 Mohawk Valley Community College at Utica
 Monroe Community College at Rochester
 Nassau Community College at Garden City
 New York City Community College
 Niagara County Community College at Niagara Falls
 North Country Community College at Saranac Lake
 Onondaga Community College at Syracuse
 Orange County Community College at Middletown
 Queensborough Community College
 Rockland Community College at Suffern
 Schenectady County Community College at Schenectady
 Staten Island Community College
 Suffolk County Community College at Selden
 Sullivan County Community College at South Fallsburg
 Tompkins-Cortland Community College at Groton
 Ulster County Community College at Stone Ridge
 Westchester Community College at Valhalla



Points of Interest

- | | |
|------------------------------|---|
| 1 Downtown Business District | 7 State University of New York at Buffalo |
| 2 Kleinhans Music Hall | 8 Greater Buffalo International Airport |
| 3 War Memorial Stadium | 9 Buffalo and Erie County Historical Society Building |
| 4 Albright-Knox Art Gallery | 10 Buffalo Zoo |
| 5 Central Terminal | 11 Buffalo Museum of Science |
| 6 Memorial Auditorium | |

State University College at Buffalo is located in the center of Buffalo at the hub of a varied complex of arterial expressways leading in and out of the city which gives ready access to the cultural, historical and scientific facilities surrounding the campus.

Entrances to the College are on Elmwood Avenue and Grant Street. These two entrances lead to a peripheral drive which services all the buildings on campus. When arriving at the Elmwood Avenue campus entrance from the east via the New York State Thruway (Interstate 90) use exit 51 (N. Y. 33 West) which connects with (N. Y. 198 West) and leave the Expressway at Elmwood Avenue South. The College will be to your immediate right.

If you are driving to the campus from the west utilizing the New York State Thruway (Interstate 90) use exit 53 which will be the Niagara Expressway (Interstate 190). From this one can emerge at the Scajaquada Creek Expressway (N. Y. 198 East) and leave it at Elmwood Avenue South. Guests with a Visitor's Parking Permit are allowed to park in any lot on campus.

INDEX

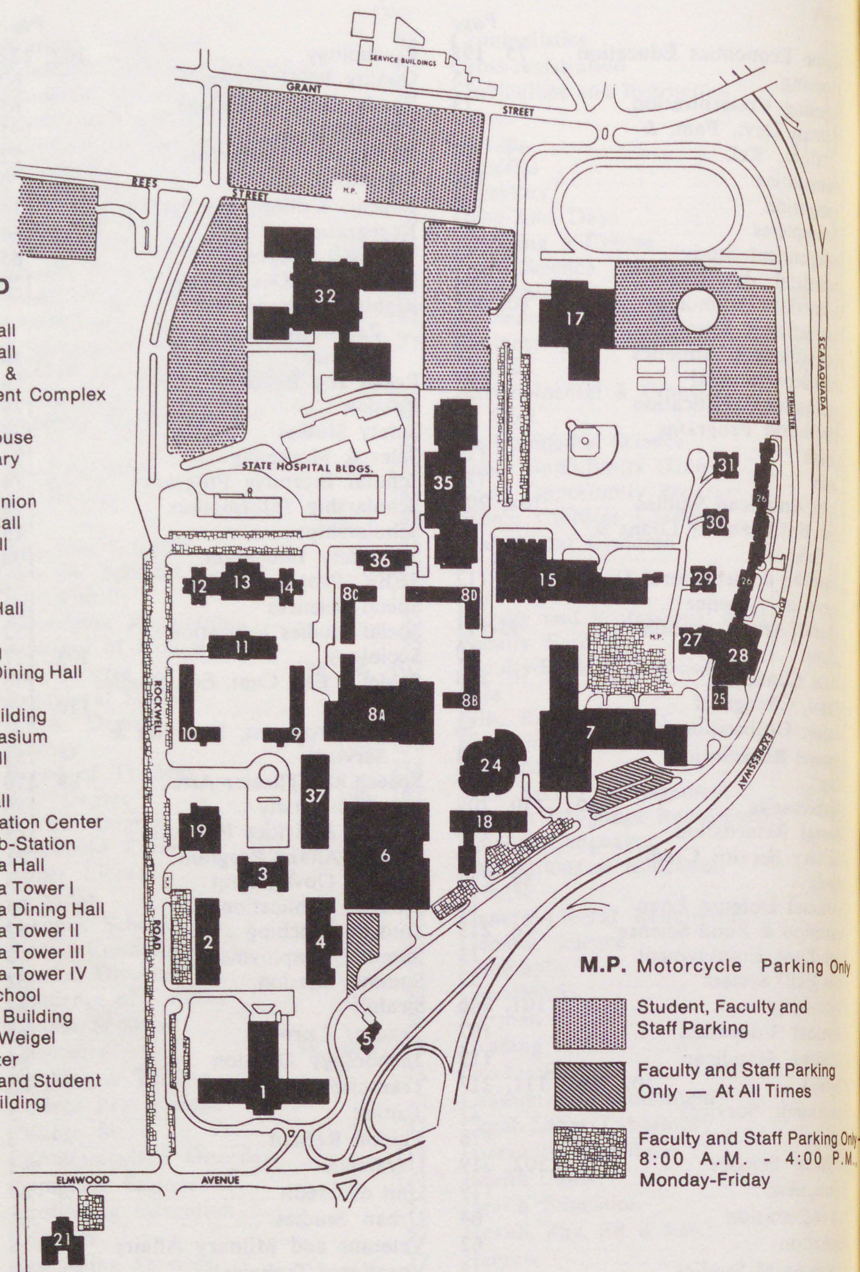
	Page		Page
Academic Dismissal	56	Criminalistics	107
Academic Grievance Procedure	65	Cross-registration	64
Academic Honors List	55	Curriculum and Instruction	150
Academic Regulations	55	Dance	191
Accreditation and Membership	235	Design	91, 142
Activity Fee Refund	7	Dietetics	77
Administration	239	Directory	2
Advance Placement Exam	58	Drop-Add Days	64
Afro-American Studies	107, 131	Dropping a Course	58
Alumni Program	51	Earth Science	109
American Studies	104	Economics	98, 145
Anthropology	97, 132	Elementary Education	113
Applied Science & Technology	71	Engineering Technology	82, 153
Applied Science & Technology Faculty	123	English	98, 109, 153
Applying for Degree	60	Environmental & Consum. Stud.	72, 160
Art	88	Environmental Science	163
Art Education	92, 135	Equal Opportunity Grants	10
Art History	89	Equal Opportunity Program	52
Arts	87	Ethnic Cultures Clusters	121
Arts and Sciences	95	Exceptional Children Education	116, 164
Arts and Sciences Faculty	125	Expenses	5
Arts Faculty	124	Faculty and Professional Staff	242
Attendance Regulations	55	Faculty Emeritus	283
Auditing of Courses	55	Faculty-Student Association	53
B.A. Degree	88, 96, 107	Fees	5
Behavioral Studies	147	Film Rental Library	53
B.F.A. Degree	90	Financial Aid	9
Biology	97, 108, 136	Fine Arts	168
Board of Trustees	238	Food Service Management	78, 215
B.S. Degree	91, 106, 107	Foreign Language Requirement	105
B.S.Ed. Degree	92, 108	Foreign Languages	99, 172
Burchfield Center	51	Foundations of Education	151
Butler Library	52	French	110, 173
Calendar	3	General-Liberal Requirements	68
Campus School	51	General Science	181
Career Counseling	21	Geography	99, 183
Caudell Division	71	Geosciences	100, 185
Challenge of Courses	55	German	175
Change of Status	56	Grading	59
Chemistry	98, 108, 139	Graduation	60
Clothing & Textiles	73	Graduation Requirements	61
College Fees Refund	7	Great Lakes Laboratory	52
College Store	53	Grievance Procedures	65
Communication Disorders	119	Health Center	25
Computer Science	141	Health Education	190
Continuing Education	52	Health, Phy. Ed. & Rec.	187
Contract	57	Hebrew	176
Counseling Services	22	History	100, 192
Creative Studies	52	History of the College	234
Criminal Justice	106, 142		

INDEX




	Page		Page
Home Economics Education	75, 198	Psychology	102, 222
Housing	25	Quality Point System	60
Housing Concentration	73	Readmission to College	63
Human Dev., Fam. & Com. Rel.	75, 199	Recreation	191
Humanities	104	Recreational Programs	22
Hungarian	176	Refunds	6
Incompletes	59	Regents College Scholarship	14
Independent Study	61	Registration	64
Industrial Arts	79, 201	Repeated Courses	65
Industrial Technology	80, 205	Research & Dev. Complex	120
Instructional Resources	52	Rights, Freedoms and Responsibilities of Students	26-50
Intercollegiate Athletics	22	Room and Board	6
Interdepartmental	207	Russian	179
International Education	52	Safety Studies	226
Intramural Programs	22	Sales & Marketing	74
Italian	176	Scholar Incentive Program	14
Latin	177	Scholarship Information	18
Latin American Studies	104, 207	Scholarships	15
Law Enforcement Loans & Grants	14	Secondary Education	108
Learning & Behavioral Disorders	117	SEEK Program	52
Leave of Absence	57	Social Sciences	105
Liberal Arts Curricula	95-111	Social Studies Education	152
Loans	10	Sociology	103, 227
Local Council	238	Soviet & East Cent. Eur. Studies	100
Major, Change of	56	Spanish	110, 179
Major, Declaration of	56	Special Programs, Facilities & Services	51
Manual Registration	64	Speech and Theater Arts	89, 230
Map	285	State University	236
Mathematics	101, 110, 208	Student Activities Program	23
Mental Retardation	118	Student Affairs Program	21
Military Service Credit	58	Student Government	23
Music	88, 211	Student Publications	24
National Defense Loan	10	Student Teaching	152
Nutrition & Food Science	76, 215	Summer Employment	13
Part-Time Employment	13	Summer Session	52
Pass-Fail System	59	Swahili	181
Philosophy	101, 216	Teacher Corps	115
Physical Education	187	Technology Division	80
Physical Handicap	119	Transcripts	66
Physics	102, 107, 111, 217	Tuition	5
Placement Services	21	Tuition Refund	6
Polish	178	Ukrainian	181
Political Science	102, 219	Unit of Credit	67
Portuguese	179	Urban Studies	105
Pre-registration	64	Veterans and Military Affairs	18
Probation	62	Vocational Technical	83, 232
Professional Studies	113	Waiver of Academic Regulations	67
Professional Studies Faculty	128	Withdrawal from College	64
Project	63		

MAP LEGEND

1. Rockwell Hall
2. Ketchum Hall
3. Research & Development Complex
4. Bacon Hall
5. Campus House
6. Butler Library
7. Upton Hall
- 8A. Student Union
- 8B. Cassety Hall
- 8C. Chase Hall
- 8D. Perry Hall
9. Bishop Hall
10. Neumann Hall
11. High Rise
12. South Wing
13. Twin Rise Dining Hall
14. North Wing
15. Science Building
17. New Gymnasium
18. Caudell Hall
19. Moot Hall
21. Albright Hall
24. Communication Center
25. Electric Sub-Station
26. Scajaquada Hall
27. Scajaquada Tower I
28. Scajaquada Dining Hall
29. Scajaquada Tower II
30. Scajaquada Tower III
31. Scajaquada Tower IV
32. Campus School
35. Classroom Building
36. Dr. Paul J. Weigel HealthCenter
37. Academic and Student Service Building



M.P. Motorcycle Parking Only

-  Student, Faculty and Staff Parking
-  Faculty and Staff Parking Only — At All Times
-  Faculty and Staff Parking Only — 8:00 A.M. - 4:00 P.M. Monday-Friday