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### College Catalog, 1969-1970

Buffalo State College

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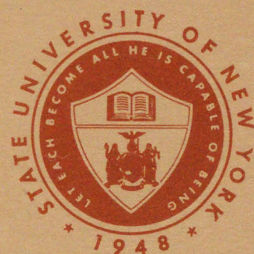
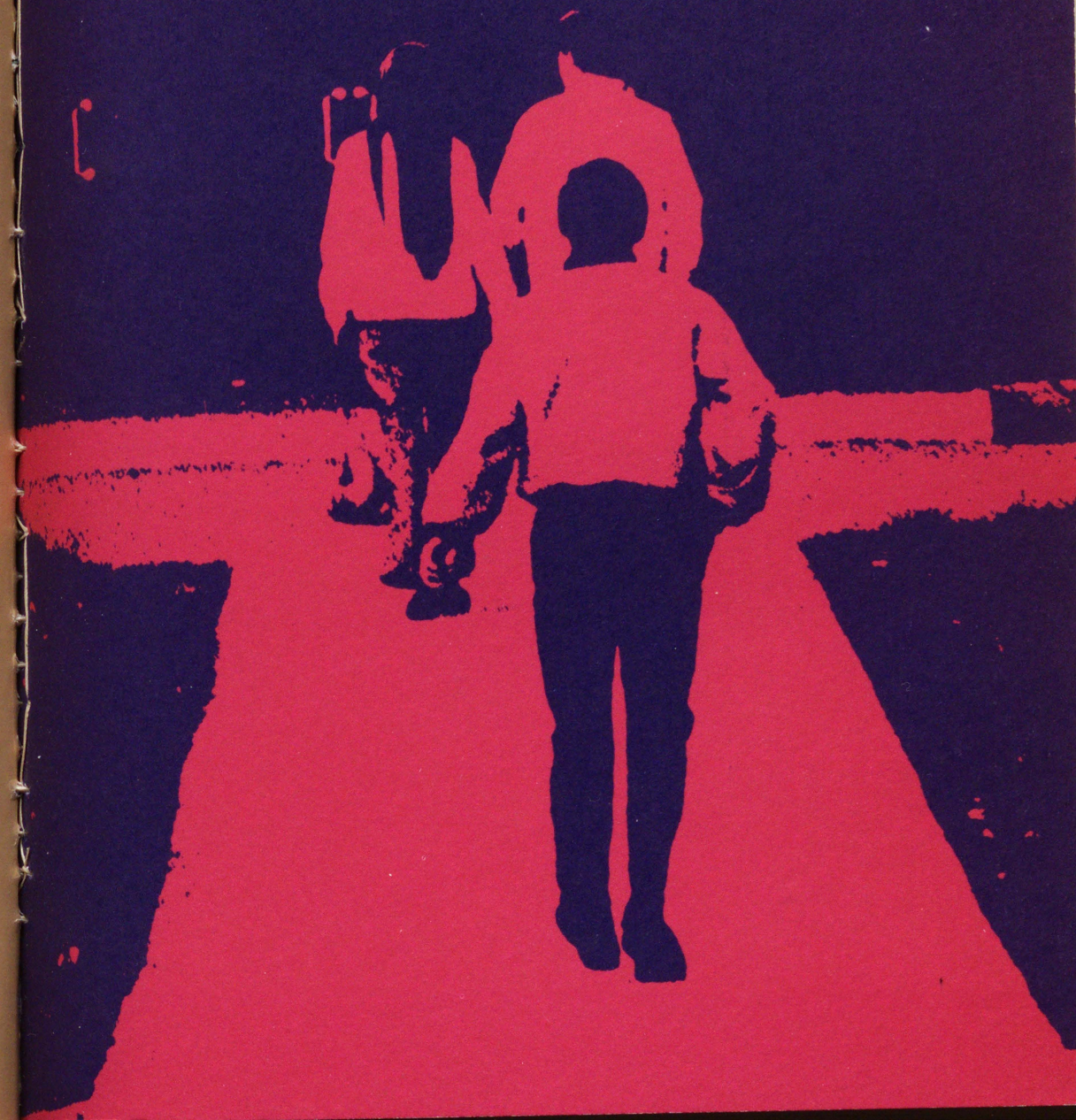
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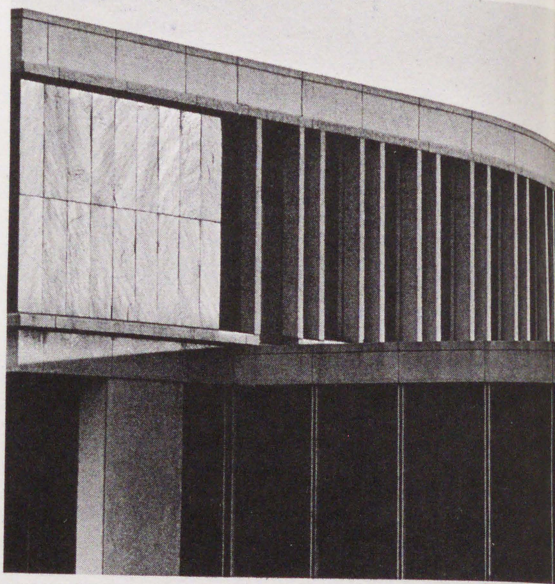
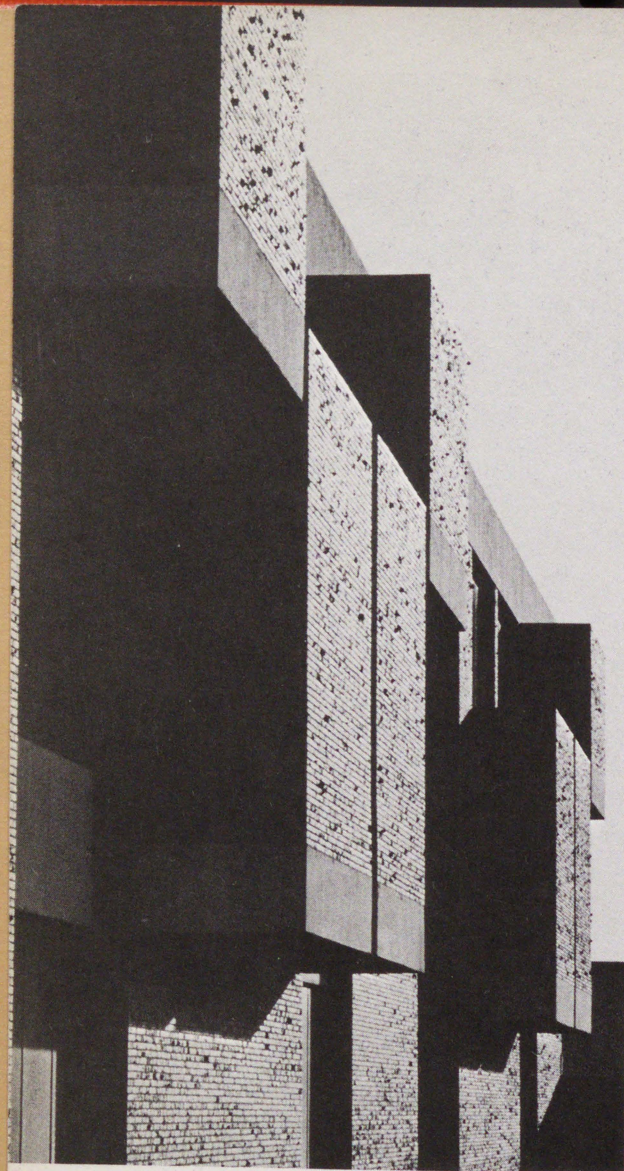
STATE UNIVERSITY OF NEW YORK

# College at Buffalo

1969-70 General Catalog







STATE UNIVERSITY  
OF  
NEW YORK

College at Buffalo

1969-70



## DIRECTORY

For information concerning:

Admissions	Admissions Office
Academic Affairs	Office of Vice President for Academic Affairs
Academic Records	Office of Registrar
Alumni Affairs	Alumni Office
Athletics	Physical Education Office
Continuing Education	Office of Continuing Education
Cultural Affairs	Office of Cultural Affairs
Departmental Affairs	Respective Department
Development	Office of Development
Facilities Program	Office of Planning and Development
General Information	Office of Assistant to the President
Graduate Studies	Graduate Office
Housing	Housing Office
International Education	Office of International Education
Scholarships, Loans	Office of Financial Aids
SEEK Program	Office of Director
Student Activities	Office of Vice President for Student Affairs
Student Employment	Office of Financial Aids
Summer Session	Summer Session Office
Transcripts and Records	Office of Registrar

General College Telephone (716) 862-4000

EDWARD H. BUTLER LIBRARY

STATE UNIVERSITY COLLEGE

BUFFALO, N. Y.

This Catalog is current as of April 1, 1969. 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.

## 1969 - 70 UNDERGRADUATE CALENDAR†

### Fall Semester—1969

September	1*	Monday, Labor Day
	3, 4	Wednesday, Thursday, Undergraduate Registration
	5*	Friday, Orientation—Activity Day
	6	Saturday, Graduate Registration
	8	Monday, Classes Begin
	12	Friday, Schedule Petition Changes
November	26-30*	Wednesday-Sunday, Thanksgiving Recess
December	1	Monday, Classes Resume
	22-January 4*	Monday-Sunday, Winter Recess
January	5-13	Monday-Tuesday, Final Examinations (incl. Sat., Jan. 10)
	14-16*	Wednesday-Friday, Inter-session

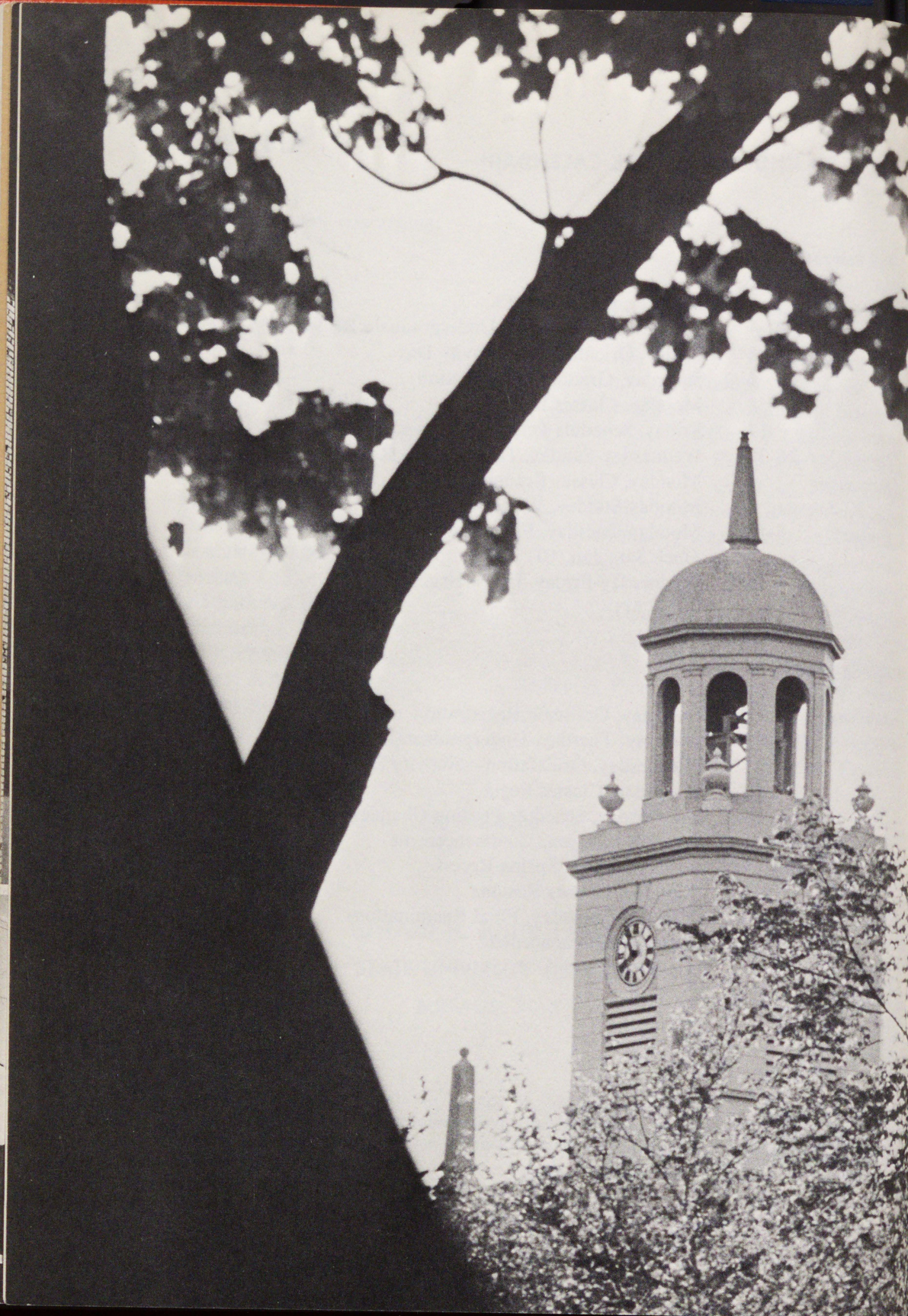
### Spring Semester—1970

January	17	Saturday, Graduate Registration
	19, 20	Monday, Tuesday, Undergraduate Registration
	21*	Wednesday, Orientation—Activity Day
	22	Thursday, Classes Begin
	28	Wednesday, Schedule Petition Changes
February	1	Sunday, Mid-year Commencement
Mar. 27-April	5*	Friday-Sunday, Spring Recess
April	6	Monday, Classes Resume
May	12-21	Tuesday-Thursday, Final Examinations
	24	Sunday, Commencement
June	1-	Summer Sessions
August	21	

\*College not in Session

†For Graduate Calendar, see Graduate Catalog





## THE COLLEGE

The State University of New York College at Buffalo, established and maintained by the State of New York, is under the jurisdiction and control of the State University Board of Trustees, the Chancellor of the State University, and the Local Council of the College.

### Objectives

*Students*—The College aspires to provide many and varied opportunities where students may:

- a. develop a sound philosophy of life,
- b. prepare for their respective professional careers, and
- c. acquire experiences in creative leadership for the modern society.

*Faculty and Staff*—The College aims to provide the opportunities where faculty and staff may realize their individual professional talents in teaching, research and administration in an atmosphere of academic freedom.

*Surrounding Community*—The College seeks to provide the many regular and special professional services vital to assure the effective functioning and healthy growth of the society, and the Buffalo urban community in particular.

### Curricula

The College's academic programs are offered under the supervision of four faculties:

#### A. The Faculty of Art

A four-year curriculum is offered leading to the degree of Bachelor of Science in Education preparing teachers and supervisors of Art for the elementary and the secondary schools of New York State.

#### B. The Faculty of Arts and Science

A four-year liberal arts curriculum leading to the Bachelor of Arts degree is available. Comprehensive majors are available in the Arts, Humanities, Social Science, Art, Biology, Chemistry, English, Foreign Languages, Geography, Geosciences, History, Mathematics, Music, Philosophy, Physics,



Political Science, Psychology, Sociology, Speech Arts and Theatre Arts. The program is further enriched by offering inter-divisional area majors in Latin American and American Studies.

C. The Faculty of Professional Studies

1. *Elementary Education*—A four-year curriculum leading to the degree of Bachelor of Science in Education for teaching in the elementary schools of New York State (nursery through grade six) with an opportunity to extend certification to teach in the junior high school (grade seven through nine) in the areas of English, General Science, Foreign Language, Mathematics and Social Studies.

2. *Exceptional Children Education*—A four-year curriculum leading to the degree of Bachelor of Science in Education and certification for teaching in the elementary grades and in one of the following fields: Mental Retardation, Physical Handicap, and Learning and Behavioral Disorders. A curriculum leading to certification in Communication Disorders is also offered.

3. *Secondary Education*—A four-year curriculum leading to the degree of Bachelor of Science in Education and provisional certification for teaching English, French, Spanish, Mathematics, Biology, Chemistry, Earth Science, Physics or Social Studies in the secondary schools of New York State (grades seven through twelve), with certification becoming permanent following completion of 30 semester hours of graduate study within five calendar years of the date of original certification.

D. The Faculty of Applied Science and Technology

1. *Home Economics*—A four-year curriculum leading to the Bachelor of Science in Education degree with a major in Home Economics Education for teachers of Home Economics in the elementary and secondary schools of New York State.

A four-year curriculum leading to the Bachelor of Science degree with a concentration in (1) Environmental and Consumer Studies for students interested in careers in environmental design and in business; (2) Human Development, Family and Community Relations for students interested in careers in community service with individual and groups; and (3) Nutrition and Health for students interested in careers in dietetics, food service administration, experimental foods, and nutrition education.

2. *Industrial Arts Education*—A four-year curriculum leading to the degree of Bachelor of Science in Education for teachers of Industrial Arts in elementary and secondary schools of New York State.

3. *Industrial Technology*—Primarily an upper division curriculum leading to the degree of Bachelor of Science for the student who wishes to prepare for middle management in industry. Students entering this program should have completed an Associate in Applied Science degree program at a two-year college.

4. *The Vocational Technical Education Division*—Prepares candidates to teach Vocational Trade Shop Subjects, Related Trade Subjects, Technical Subjects, or Related Technical Subjects in the public Vocational and Technical High Schools of New York State as well as Technical Institutes and Community Colleges. Graduates of the basic program are eligible for certification in accordance with the Regulations of the Commissioner of Education.

Graduate Program

Graduate programs leading to the degree of Master of Science in Education are offered in the areas of Art Education, etc. Master of Arts degree programs are offered in Chemistry, English, History and Mathematics. It is anticipated that programs in Biology and Philosophy will be added during the year. The majority of graduate courses are offered in the late afternoon, evening and Saturday morning hours. However, some graduate courses may be scheduled earlier in the day.

The Campus and Buildings

The College has an urban setting of 110 acres on Elmwood Avenue in the Delaware Park area of the second largest city in the Empire State. This location, at the hub of a varied complex of arterial expressways leading to all sections of Buffalo, nearby counties and other areas of the State, gives ready access to the cultural, historical and scientific facilities which surround the campus.

In addition to the campus site on Elmwood Avenue, the College also operates the Great Lakes Laboratory on a nine acre site at the foot of Porter Avenue. The Laboratory is less than seven minutes from the State College Campus via the Niagara Thruway. A renovated 2,200 square foot building contains facilities for chemical and biological analyses of water and sediments.

Five buildings were erected on the present campus when the College moved there in 1931. Rockwell Hall contains administrative offices and the main auditorium. Ketchum and Bacon Halls house faculty offices, seminar and class rooms.





The Old Gym contains a New York State Regional Special Education Instructional Materials Center. The Campus House is used for a home management course for home economics seniors.

New buildings are the Edward H. Butler Library, Student Union, New Science, New Gym, Campus School and Communication Center. Caudell Hall houses the Home Economics Division; Upton Hall contains the Art and Industrial Arts Divisions; Moot Hall houses dining facilities and Albright Hall houses the Music Department.

Chase, Cassety and Perry Halls contain faculty offices. Bishop and Neumann Halls, High Rise, North Wing, South Wing, Scajaquada Halls and Towers, furnish resident accommodations for men and women.

## ADMISSION TO UNDERGRADUATE STUDY

Admission to State University College at Buffalo is based on the academic and personal qualifications of the respective applicants and is made without regard to the race, color, creed, or national origin of individuals. Applicants for admission, either as freshmen or with advanced standing, should be able to meet the requirements below. Application materials can be obtained and arrangements for visiting can be made through the Admissions Office, State University College, 1300 Elmwood Avenue, Buffalo, New York 14222—(716) 862-5511.

### Freshman Admission Requirements

1. A diploma awarded by an approved high school upon the completion of a four-year course of study, or a State High School Equivalency Diploma.
2. High school preparation.
  - a. For admission to the General Freshman Year Program (for all students with the exception of Art Education and Industrial Arts Education). An adequate high school preparation in Social Sciences, English, Natural Science, and Mathematics is necessary in order to be prepared adequately to pursue a course of study in higher education.
  - b. For admission to the Art Education Program, a high school program which reflects a balance between general, special, or technical studies as nearly as possible like that in the college curriculum. Electives in high school art courses. Preference will be given to students who show a more academic background. Applicants for admission to the Division of Art Education must present a portfolio of art work as part of the interview.
  - c. For admission to the Industrial Arts Education Program, preference will be shown to applicants who present: two units of mathematics (including Elementary Algebra), and two units of science (Chemistry and Physics preferred).
  - d. For admission to the Vocational Technical Education curriculum, an admissions committee selects applicants according to trade and technical proficiency, personal qualifications, scores on aptitude tests, and the probable need for teachers in each vocational technical area. For information and application forms write directly to the Office of Vocational Education on campus.
3. Personal Interview. During the processing of an application a student may be asked to have a personal interview by the Office of Admissions.



4. Medical Examination Report. This report indicates satisfactory physical condition and good health. (See section on Health Services.)
5. Satisfactory high school grades.
6. Satisfactory scores from the New York State Regents Scholarship Examination or the State University Admissions Examination.
7. At least 16 years of age.
8. The High School's recommendation.

Final decision on an application is made on the basis of all of the above qualifications.

#### Application Procedure

1. Secure application forms and instructions from the College Admissions Office any time after the beginning of the senior year in high school.
2. Complete the application form and cards and mail them with a \$5.00 application fee (non-refundable) in the addressed envelope accompanying the application forms.
3. Fill out page one of High School Record form (green A-2 form) and submit it to the appropriate high school office for completion and forwarding to the College. Information called for on page four is particularly important in the admissions process.
4. New York State residents must take the New York State Regents Scholarship Examination or the State University Admissions Examination. An examination permit is returned to the applicants after application form and cards are filed. Non-residents of New York State must take the Scholastic Aptitude Test of the College Entrance Examination Board and have the results forwarded to the College.
5. Appear for the personal interview when requested. Applicants living in Allegany, Cattaraugus, Chautauqua, Erie, Genesee, Livingston, Monroe, Niagara, Ontario, Orleans, or Wyoming counties will be invited to the campus for interview when possible. Applicants from other areas of the state will be informed of an appointment when a College representative will be near their homes to complete admissions interviews. Anyone who wishes to call the Office of Admissions and request an on-campus interview is invited to do so. We would request that you give at least 14 days notice. Interviews may be scheduled on any day that the College is in session between 9 A.M. and 4 P.M.

6. With the application, high school record, admissions examination scores, and interview report, the College may make an admission decision conditional upon completing further requirements. Acceptance at this point requires the applicant to submit an acknowledgment of the acceptance. In addition, the following are required for final acceptance: a satisfactory medical report on a form sent with the acceptance notice, residence card, and a \$50 deposit refundable under the terms outlined in the "How to Apply for Admission" booklet. The \$50 deposit is applicable toward first semester tuition and fees. (For specific information see "How to Apply for Admission" booklet.)

Applicants accepted for admission should be present at the Freshman Orientation Program to be held during the summer prior to September Admission. If this requirement is not met, the applicants will not be admitted except by special permission. If an applicant is unable to attend this orientation, he should notify the Admissions Office. Those absent without permission relinquish their status to those on a waiting list.

Applicants are admitted in September, February, and July. Care should be taken to indicate the desired entrance date.

#### Advanced Standing Admission Requirements

1. Applicants for admission with advanced standing must apply to the Admissions Office on an Advanced Credit Application Form which may be secured from the Office.
2. Applicants must submit an official transcript\* of all college work taken elsewhere and evidence of honorable dismissal.
3. Applicants must meet all general requirements including personal interview, if required, and health report.
4. Applicants of freshman and sophomore rank are required to take the New York State Regents Scholarship Examination or the State University Admissions Examination. All applicants transferring from other State University units should have copies of their Admissions Examination scores sent to the Admissions Office from the unit previously attended.
5. Transfer Procedures
  - a. Apply to State University (A-1 Form). Admission packets may be obtained from the Admissions Office or by written request.
  - b. Submit High School Record to Admissions Office (A-2 Form).

\*An official transcript is one mailed directly from the college issuing it, to this College.



- c. Submit the Personal Inventory Form (A-5 Form) from college(s) previously attended.
  - d. Submit official transcript(s) and catalog(s) from college(s) previously attended.
  - e. Submit a list of courses now in progress at college attending.
  - f. Interview may be required if Admissions Office finds it is necessary.
6. Completion Dates for Application and Materials
- a. *February Admissions*—Applications and supporting materials must be on file not later than December 1.
  - b. *September Admissions*—Applications and supporting materials must be on file not later than April 1.
  - c. *Summer Admissions*—Applications and supporting materials must be on file not later than April 1.
7. No student will be admitted to the College until all of the above requirements are completed.
8. No student will be accepted who *is on probation* (either academic or social) at another institution. A student who has been dismissed from another institution will not be considered for admission until one academic year has elapsed.
9. Special provisions concerning Normal School graduates will be in effect according to State regulations.



10. Grades of D earned by transfer students should be evaluated in the receiving institution on the same basis as D grades earned by native students in that institution. However, transfer students may be advised to repeat courses without credit if it is clearly to their advantage to do so in order to make satisfactory progress in their degree program.

Transfer students should not be required to repeat any courses satisfactorily completed at the two-year institutions. The receiving unit should grant maximum credit consistent with the requirements of the program into which the student is transferring.

11. a. Credits in academic courses earned ten or more years previous to filing application for advanced credit will be evaluated very carefully prior to being accepted at this College.
  - b. Credits in education courses earned five or more years previous to filing application for advanced credit will be evaluated very carefully prior to being accepted at this College.
12. The Admissions Committee will evaluate advanced credit for transfer but will not evaluate the total program of the student in terms of hours to be completed for a degree. The hours required to complete the degree program will be at the advice of the Division Director.

#### Readmission Procedures

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. *Semester or Session You Wish to Be Readmitted*

	<i>Deadline Date</i>
Spring (2nd Semester)	November 15
Summer Session	April 1
Fall (1st Semester)	May 1
3. An applicant who has been on social or academic probation will not be considered for readmission until one year has elapsed.
4. The Admissions Office will check the proper offices or divisions for their professional judgment on whether or not readmission should be considered.
5. A decision is made by the Admissions Committee, and the applicant is notified.
6. The applicant will work out his program with the Division in which he/she is entering.



### Inter-Divisional Transfer Procedures

1. Student must obtain transfer request from the Admissions Office, fill out transfer request form, and return to the Admissions Office.
2. The student may be called in for a conference with the Director of the Division for which he/she is applying.
3. Application for inter-divisional transfer must be completed as shown below:  

<i>Semester or Session You Wish to Transfer</i>	<i>Deadline Date</i>
Spring (2nd Semester)	November 15
Summer Session	April 1
Fall (1st Semester)	May 1

No requests for transfer will be considered after the above deadline dates.
4. A student wishing transfer to another Division must meet the requirements of the Division to be entered.
5. A student on probation (academic or social) will not be permitted to transfer unless acceptable to the Division to which he is requesting transfer.



### STUDENT EXPENSES†

Below are listed tuition and fees for residents of New York State. Students from other states pay six hundred dollars tuition each year, payable three hundred dollars each semester.

#### Required College Fees

<i>Expense Items</i>	<i>First Semester</i>	<i>Second Semester</i>	<i>Total</i>
Tuition .....	\$200.00	\$200.00	\$400.00
College Fee .....	12.50	12.50	25.00
Student Association Collections .....	29.50	29.50	59.00
Insurance Premium <sup>(1)</sup> .....	15.50	15.50	31.00
<b>Total .....</b>	<b>\$257.50</b>	<b>\$257.50</b>	<b>\$515.00</b>
Freshman Orientation Fee (in Summer) .....	\$16.00		

#### Estimate of Yearly Expenses

<i>Expense Items</i>	<i>Residence Hall</i>	<i>Commuter</i>
Tuition and Fees .....	\$515.00	\$515.00
Books and Supplies* .....	160.00	160.00
Room .....	550.00	—
Board** .....	510.00	—
Personal Items*** .....	425.00	425.00
Travel .....	130-210.00	130-170.00
	<b>\$2290-2370.00</b>	<b>\$1230-1270.00</b>

\*Art, Home Economics and Industrial Arts students should increase this estimate by the following amounts: Art \$220, Home Economics \$150, Industrial Arts \$150.

\*\*Subject to change.

\*\*\*Personal items may vary widely depending upon the individual situation and may include such items as clothing, cleaning, laundry, personal grooming and recreation.

(1) Premium subject to change. This fee may be waived upon presentation of proof of insurance to the Bursar's office at registration annually.

†As of June 1969.





### Fees and Collections

A combined charge of \$59.00, 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.
4. The Class Dues are used for cultural, social and professional activities which are open to all members of the class. For the Senior Class this includes senior activities.

In addition to the above (not included in the \$59.00) are these fees:

1. The Orientation Fee is a charge of \$16.00 to be paid by Freshmen entering in September.
2. The Accident and Sickness Insurance Premium of \$31.00 provides coverage at all times during the college year, on or off the campus, including athletic and camp activities.

### 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 due for that term.

#### 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 CSA member within fourteen days of classes. No partial refunds will be made.

#### Board

Requests for refunds must be presented to the Food Service Department in writing no later than ten days before the end of the semester. If approved, the student will be entitled to a refund of 85% of the unused portion of the meal contract to the end of the semester. Meal tickets surrendered before the semester begins will be refunded in full. Contact the Food Service Department for complete refund policy and information.

#### 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.



## AUXILIARY SERVICES

### College Store

For the convenience of the College community, there is a College Store located in the basement of the Student Union. The Store sells textbooks, paperbacks, supplies, stationery, art supplies, greeting cards, college sportswear, and other sundry items. The Store is open Monday-Friday from 8:00 A.M. to 5:00 P.M.; Tuesday night to 8:00 P.M.; and Saturdays from 10:00 A.M. to 2:00 P.M. For those wishing credit, the Store honors Marine Midland Master Charge credit cards.

### Food Service Department

The Food Service Department provides cafeteria and snack bar service in the Student Union and Moot Hall. In addition to providing food vending services, the Food Service Department also provides catering services for banquets, parties, teas, dinners, and social events.

It is the policy of the College that students who live in a residence hall must purchase a meal contract. The Meal Contract Food Service operates in both Twin Rise and Scajaquada Dining Halls. The program consists of 19 meals per week which includes breakfast, lunch and dinner Monday through Friday and brunch and dinner on Saturday and Sunday.

### FSA Business Office

In addition to providing accounting services for the Food Service, the College Store, and the College Student Association, the Faculty-Student Association Business Office (Chase Hall Basement) will cash guaranteed payment checks (N. Y. State Payroll, Work Study, Money Orders, etc.) during the regular hours (9:30 a.m.-11:30 a.m. and 1:30 p.m.-3:30 p.m.) Monday thru Friday, when the amount is \$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 Faculty-Student Association 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.

### Traffic

The College has appropriated limited parking areas as well as a system of roadways providing entrance and egress for these areas to the public thoroughfares.

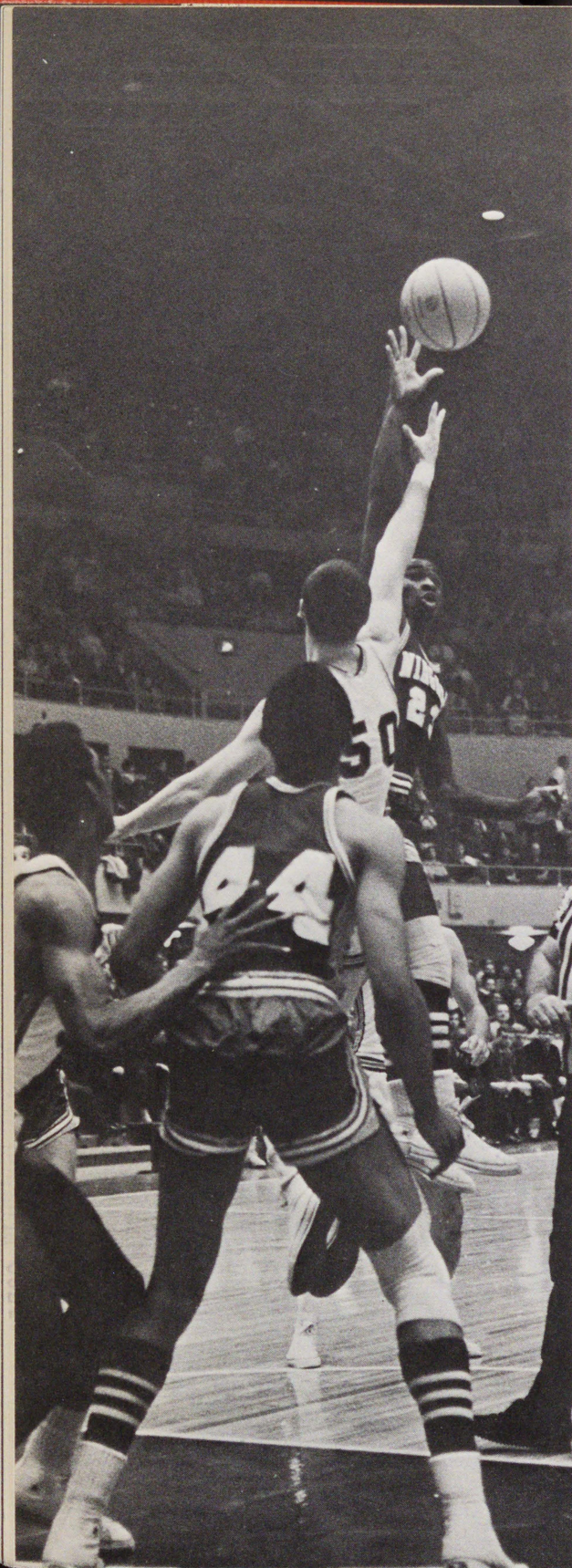
These facilities are provided for the convenience of the students, faculty and visitors of the College. For the orderly use of these facilities and to comply with the requirements of the Fire Department of the City of Buffalo, it is necessary to establish, publicize and enforce rules and traffic regulations. These rules have been established for protection of the members of the College community with the New York State Traffic Commission.

Association with the College by academic registration, employment, staff appointment, employment by contractor, or in any manner, is considered to be evidence of acceptance by the individual of all rules and regulations of the College, including those specifically regulating the use of motor vehicles on the campus. Traffic Rules and Regulations will be distributed at registration.

Students, faculty and staff must obtain a parking permit. To obtain a permit an individual must show proof of motor vehicle ownership, driver's license and a College personnel identification card. Possession of a set of motor vehicle permits entitles the holder to park only if there is, at the time, available space in the allotted areas. All students, faculty and staff driving on campus are responsible for knowing and understanding the traffic rules. Tickets for violations will be issued by campus Security and will be payable at the nearest Buffalo Police Precinct.







## STUDENT PERSONNEL PROGRAM

### Office of the Vice-President For Student Affairs

The Student Personnel Staff is responsible for all phases of the student life program on campus which includes:

1. Coordination of the group activity and leadership education program.
2. Provision for individual and group student counseling.
3. Administration of the student financial aids program.
4. Provision for an educationally-oriented health program.
5. Administration of the military affairs program.
6. Administration of all residence programs and facilities.
7. Administration of Placement Services.
8. Coordination of a new student summer orientation program.

The Student Personnel Council consisting of student and faculty representatives serves as an advisory and policy-recommending group to the Student Personnel Program.

### The New Summer Orientation Program

Freshman students are provided with an opportunity during the summer prior to their enrollment to become acquainted with the campus community, including faculty, professional staff, and students, as well as the academic and student activity programs. Orientation is an on-going process; thus, the program has been planned to provide an initial exposure to many phases of college life. Once enrolled, Freshmen will continue this process through individual contacts with faculty, professional staff, and other students.

### Student Residences

All freshman students who do not live at home within commuting distance, or who do not live with relatives, are required to live in residence halls on the campus if space is available.

*Residence Halls*—Living accommodations for approximately sixteen hundred women students and five hundred fifty men students are provided in ten residence



halls. Most rooms have facilities for two students. Rooms have 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. Students may provide their own bed linens or use the linen rental service which is available through the Housing Office. Applications should be addressed to the Director of Housing, State University College at Buffalo, 1300 Elmwood Avenue, Buffalo, New York 14222.

*Off-Campus Residences*—The majority of off-campus housing facilities consist of privately owned and operated residential homes, most within walking distance of the campus. They include both apartments and single rooms. The Housing Office makes available to students, faculty and staff all information concerning vacant apartments and rooms off campus. Any further questions on off-campus housing should be referred to: Assistant Director of Housing, State University College at Buffalo, Perry Hall, 1300 Elmwood Avenue, Buffalo, New York 14222.

#### **Student Health Center**

*Health Facilities on Campus*—The College maintains Student Health Facilities on campus for first-aid and general health services with a main office in South Wing. Registered professional nurses are available twenty-four hours a day. The College physician and part-time physicians are available in South Wing, Monday through Friday, for diagnosis and medical care of students.

*Preadmission Health Requirements*—All students must secure an examination by a physician, a chest x-ray, a urinalysis and a recent tetanus and smallpox vaccination (within three years) prior to admission.

*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. All students approved for student teaching are required to have a chest x-ray for the detection of tuberculosis immediately preceding a student teaching assignment. The prospective student teacher is responsible to obtain his x-ray either through county facilities or at his own expense by a radiologist of his own choosing.

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 under-

taking. 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.

The College reserves the right to refuse any student admission to class who fails to take the required physical examination, chest x-ray and/or immunizations.

*Health Media*—Health education material is made available for interested students. Timely lectures and films on current topics peculiar to the College community are given by Student Health Personnel.

*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.

#### **Counseling Services**

The Counseling Center, a division of the Office of the Vice-President for Student Affairs, provides counseling services for all students. Individual and group counseling is available to students with academic, personal, social, personality, or vocational problems. Many students are self-referred for a considerable variety of difficulties, such as slow reading, poor study habits, or disturbed concentration and personal, social or emotional problems, as well as aid in decisions concerning division commitment. Faculty refer absentees as well as those having other difficulties. The Housing Staff and Probation Appeals Boards regularly refer those having special problems. Probation students are invited for consultation as are those needing help in deciding upon an academic program. Special referrals are made to other services on and off campus for those needing such services. Counselors are committed to complete confidentiality, are trained as clinical therapists, and are up-to-date regarding the rules of this academic institution.

#### **College Placement Service**

The Office of Placement Services assists graduates in securing positions they are best prepared to fill and helps schools, governmental agencies, and business and industrial firms to find competent, qualified personnel. The office maintains a folder of personal data and references for each candidate, thus providing a continual source of confidential information for use by employing officials. For students the office maintains a library of career information which contains files of brochures





from school systems, various companies and other employing agencies, catalogs from graduate and professional schools, and reference materials about nearly every occupation or career field. Individual counseling is available to students who request assistance in making decisions about their educational and career objectives.

The forms necessary for registration and information concerning procedures to follow are available in May for all juniors expecting to graduate in February, June, or August of the following year. It is advisable for *all* prospective graduates to assemble credentials regardless of whether they intend to seek employment immediately or not, through the placement service or independently. Most employers and graduate and professional schools require references, and a candidate who does not have these is at a disadvantage, particularly in competition with other candidates who are supported by placement credentials.

Candidates are advised to maintain a close contact with the Office of Placement Services and to use THE RECORD as a constant source for information on placement and career opportunities.

## STUDENT ACTIVITIES

The campus activities reflect the interests and needs of 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 student assessment, payable during registration. A partial list of activities that need these funds to operate is:

1. Homecoming Weekend
2. Winter Weekend
3. Holiday Week and Holly Hanging
4. Senior Week
5. SUB Movies
6. Convocations (guest artists and speakers)
7. College Camp facilities and equipment
8. Coffee House Circuit
9. Record (College newspaper)
10. Elms (yearbook)
11. Casting Hall drama productions
12. Inter-collegiate athletics
13. Intramurals
14. Leadership Conference
15. The Class Proms
16. Student Governing Groups

### Student Governing Groups

All students upon matriculation become members of the College Student Association. The Association has three distinct branches:

1. *House of Representatives*. It coordinates College-wide programs through its administration and delegation of responsibility to various commissions, boards and special committees.
2. *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.



3. *Judicial Council.* This branch determines the constitutionality of all legislation brought before them. Along with arbitrating disputes between C.S.A. Organizations or branches of government, they would give opinions on the interpretation of the C.S.A. constitution and constitutions of all C.S.A. approved organizations.

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

Commissions are administrative organizations of C.S.A. which coordinate, 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, will be seated by the chairman of each commission and approved by the House of Representatives.

Some student activities have been so long a part of College life that they have become "traditions": Frosh-Soph Dazing, Homecoming, Dean's Tea, Winter Weekend, Class Proms, Holiday Week, State Fair, Parents' Weekend, Moving-up Day and Senior Week. All these activities are under the coordinating group called Traditions Commission.

The four classes conduct business and carry out special activities under the guidance of the elected class officers.

The Boards are semi-dependent organizations which have as their primary purpose—service to C.S.A., and are totally or partially dependent on C.S.A. funds. Membership on the Boards is open to all interested students.

#### ATHLETIC BOARD

The College provides through the Department of Health, Physical Education and Recreation a balanced and extensive program of athletics for all students, including varsity, freshmen and intramural activities.

The intercollegiate athletic program includes teams in baseball, basketball, cross country, golf, soccer, tennis, track, swimming, crew and wrestling. Varsity teams have won several championships in their respective areas. The annual athletic schedule includes many of the leading colleges in the East. The College is affiliated with the SUNYAC, the National Collegiate Athletic Association and the National Association for Intercollegiate Athletics.

Through these intercollegiate sports activities students are able to earn a Freshman Sweater, Varsity Sweater, Varsity Jacket and the College Blanket. All College athletics are coordinated by the Student Athletic Board and supported by the Student Association Collections.

The Men's Athletic Association, financed out of student athletic tax, sponsors Intramural athletic activities for men. These activities include basketball, bowling, cross country, badminton, golf, softball, swimming, table tennis, paddle ball, 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, coordinated through the *Women's Recreation Association*, include intramural competition in badminton, basketball, bowling, fencing, softball, swimming, tennis and volleyball. An opportunity is also given for participation in camping, field hockey, horseback riding, golf, modern dance, and synchronized swimming.

#### CAMP BOARD

The College Camp, one of the major recreational features of the College, consists of four hundred and thirty-five acres of rural landscape, partly wooded, partly open, located in Cattaraugus County. Its hills and numerous ponds are ideal for skiing, skating, and other winter sports. Maple groves, wooded areas, open meadows, and streams make it a delightful year round recreation spot. Two expansive lodges equipped with large fireplaces, provide pleasant accommodations for over one hundred students for over-night or weekends. The Camp is open for use by students, alumni and community groups.

#### CASTING HALL BOARD

Casting Hall, the student dramatic organization, produces several plays each year. It offers, in addition to opportunities for acting, experiences in costuming, stage set design and construction. Casting Hall is also involved in such projects as Film production, Experimental Theatre, Dance Theatre, Reader's Theatre, Student One Act Festival and Choreography.

#### STUDENT UNION BOARD

The Student Union, "the living room of the campus," unites the College community through social, educational and cultural experiences. The Union provides many opportunities for democratic living, for student leadership, for creative self-expression, for social contact with the faculty, and for the development of a mature sense of social responsibility.

An on-going recreational program throughout the year is centered in the Union. These activities are essentially provided by student activity taxes without additional costs to tax paying students, and are planned and carried out by the Student Union Board. They are varied in nature to provide for a wide range of interest. Some of the most popular activities include: Union open houses, film showings, dances, coffee houses and seminars.



#### CONVOCATIONS BOARD

Convocations held throughout the year provide special programs which include distinguished political commentators, literary personages, musical programs, and other events that together make a rich phase of college life.

#### COMMUNICATIONS BOARD

The Communications Board controls the campus radio station WSCB and is looking toward possible expansion into television. The station places major emphasis on programming all varieties of music, current event discussion type shows, and live coverage of all College sporting events. WSCB and the Communications Board are completely controlled and manned by students from the College for the enjoyment of the entire College community.

#### FORENSIC CLUB

The Forensic Club is open to anyone interested in the areas of debate and impromptu speaking. Club members participate in several inter-collegiate tournaments as well as local programs.

#### MUSIC BOARD

This is a coordinating group designed to foster appreciation for music of all types through various performing groups including: Band, Orchestra, A Cappella Choir, Men's and Women's Glee Clubs, and Faculty and Student Recitals. Membership is determined by audition in order to determine music ability in the areas of tone, intonation, and technical facility. Each organization presents several concerts on campus as well as traveling to local schools and churches. The A Cappella Choir makes an annual performing tour.

#### ORIENTATION BOARD

A program for new students and their parents is organized by Orientation Board. It is designed to welcome and introduce them to the campus, through the aid of student counselors. The new student days program includes parents' reception, dances, tours, and luncheons. In order that upper classmen may identify and help Freshmen through those first weeks, each Freshman is presented with a colorful beanie.

#### PUBLICATIONS BOARD

College life is reflected and recorded by four 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 the social events of the year as well as daily occurrences.

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

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

#### C.S.A. Approved Organizations

##### RECREATIONAL

*Cheerleading Club* is open to any woman student. Tryouts are in the early fall. The Cheerleaders actively support the College athletic teams at home and away.

*Chess Club* is open to all college students who play chess. Competition is arranged among club members as well as with other schools in the area. The club also competes in regional as well as national tournaments.

*College Parachutists* is a club open to all students, 18 years or older, who meet the physical and medical requirements. Its purpose is to foster interest in parachuting.

*Karate Club* was formed for the purpose of providing instruction, molding an appreciation of this Oriental form of self-defense, forming a brotherhood of karate students. Membership is open to any student of this College who is interested in karate.

*Scuba Club* promotes scuba diving and water safety. The club is open to all students and faculty who are bonafide divers. Those students or faculty who would like to join the club, or first learn how to dive may do so through the diving instructions offered by the club.

*Ski Club* is open to all students at the College who are interested in skiing.

*Varsity S Club* provides a common meeting ground for men interested in furthering intercollegiate athletics. Membership is open to men who have earned a major varsity athletic award.

*Hockey Club* status has been given to hockey with the hope it will develop into an intercollegiate program in the near future.

##### PROFESSIONAL AND CULTURAL

*Biology Club* was formed to broaden and enlighten our understanding of biological sciences. Any student of State University College at Buffalo may join by payment of yearly dues of \$1.00 at any meeting.

*Council for Exceptional Children* is an affiliate of the national organization of the



same name. Membership is open to college students interested in teaching children who are mentally handicapped, emotionally disturbed, blind, or partially sighted, deaf or hard-of-hearing, orthopedically handicapped or speech defective. Regular meetings give the members opportunities to meet and talk with specialists in the field. Visits are made to special schools and residential institutions.

*Daniel Upton Chapter of the Student Education Association of New York* (SEANYs) explores the professional aspects of teaching, through monthly meetings featuring stimulating speakers, pertinent films and panel discussions. Local members who enroll in the New York State Teachers Association and the National Education Association, receive the monthly journals. All students who are interested in becoming teachers are welcome.

*El Club Espanol's* purpose is to expand knowledge of the hispanic civilization and culture. This organization is open to any student interested in learning more of Spanish customs, foods, and livelihood.

*The Home Economics Club*, affiliated with the American and New York State Home Economics Association, provides for the development of leadership and provides services to the College and the community.

*The Industrial Arts Club*, open to all students and faculty in the Industrial Arts Division of the College, exists to promote high standards of professionalism in Industrial Arts education.

*Interim Group* is an informal social fellowship, co-educational and school centered, aiming to integrate older students into campus life with academic and cultural immediacy.

*The International Circle's* objectives are to build a close relationship on a personal level between the foreign students and the American students in order to promote cultural and educational understanding.

*Latin American Club* was formed by a group of students interested in promoting and enriching a formal and informal association of students with a common interest in Latin America.

*Linus Pauling Chemistry Society*, open to all interested persons, is organized to promote and stimulate interest in Chemistry and the related sciences, as well as to encourage independent study.

*Le Cercle Francais*, open to all students with an interest in the French culture, offers an opportunity for students to come in contact with the French language, civilization and people.

*Mathematics Club*, open to all interested persons, is designed to promote a better understanding of mathematics in its relation to life, and to encourage independent study.

*Physics Club's* purpose shall be to aid the members in their study, practice, enjoy-

ment of physics; to sponsor and coordinate activities aimed at a greater dissemination of physical knowledge to the members of the club, the college community and the profession.

*Psychology Club's* purpose is to stimulate more interested students in this field. This club plans to hold student panel discussions, seminar speeches, paper reading sessions, as well as other activities. Presentations from outside speakers are also planned to help broaden the scope of knowledge of the club members. The club is open to Psychology majors as well as all interested students.

*Social Studies Club*, open to any registered undergraduate social studies major, is an educational, professional and social organization.

### Religious Groups

*Council of Religious Organizations*—A coordinating group of all religious organizations.

*The Christian Science College Organization* is comprised of Christian Science students who are eager to increase their understanding of this religion. Inspirational meetings are held weekly to help the members make practical the concepts which this religion teaches. Meetings are open to the student body.

*Hillel*, an organization open to students interested in the Jewish faith, offers religious, cultural and social activities. Programs, including guest speakers, discussions, holiday ceremonies, music and folk dances, develop deeper understanding and appreciation of the Jewish heritage.

*Inter-Varsity Christian Fellowship*, an international and inter-denominational organization active on college campuses the world over, emphasizes positive Christian living based on teachings from the Scriptures.

*The Lutheran Student Association* assists students in the study and appreciation of Lutheran doctrines and beliefs. It sponsors an active program of forum and fellowship meetings, study groups, retreat conferences, and service projects. The national L.S.A. participates in the United Student Christian Council and shares in the life of the World Student Christian Federation.

*The Newman Movement* promotes the spiritual, intellectual and social growth of Roman Catholic students. Besides providing formal worship opportunities for students, its activities include the Newman Institute of Studies (a four-year curriculum of studies in Theology and Philosophy), lectures, retreats, discussion groups, and social activities. It maintains the Newman Center, adjacent to the campus, which includes a chapel, classrooms, recreation rooms, student lounge and library. The Newman Movement is affiliated with the National Newman Movement.



*Student Christian Association* is an organization of all Protestant denominations for fellowship and community service. The organization is introduced to Freshmen by "The Krises," an occasional publication which is sent out to the members.

*Wesley Fellowship*—To lead students to Jesus Christ, to deepen Christian faith, to foster Christian education, to offer projects of service, to interpret Christian vocation and to deepen a sense of world Christian community.

#### Honorary Groups

*Epsilon Pi Tau* is the Tau Chapter of the international honorary-professional fraternity in Industrial Arts and Vocational Education. Members are selected from majors having an academic average in the upper quartile of the junior or senior class. Members must show achievement and potential in research, in social and professional proficiency, and in the development of technological adaptability.

*Kappa Delta Pi* is the Gamma Mu chapter of the national society. Members must be of junior standing with six hours of credit in education courses and be in the upper quartile of the College. Candidates for membership must reveal exceptional interest in education by a letter submitted to the organization and must also manifest desirable personal traits and leadership qualifications.

*Phi Upsilon Omicron* is the Mu chapter of the national fraternity. Home Economics majors from the upper classes having achieved high scholastic records and having demonstrated professional leadership are selected as members. It provides for personal and professional development of its members.

#### Social Groups

The thirteen fraternal organizations on campus, six open to men and seven open to women, select their members by invitation. The fraternities are Alpha Xi Omega, Delta Kappa, Gamma Chi, Psi Phi, Sigma Tau Rho, and Zeta Phi Omega. The sororities are Alpha Sigma Pi, Alpha Tau Sigma, Delta Sigma Upsilon, Pi Kappa Rho, Pi Omega Nu, Sigma Sigma, and Theta Sigma Theta.

*Inter-Sorority Council* and *Inter-Fraternity Council* unite the women's and men's groups, respectively, in many phases of the Greek program. *Inter-Greek Association* is delegated responsibility for major activities involving all "Greeks."

*Boosters of College Morale* is a social club open to any male student, graduate, or faculty member of the College. Its purpose is to promote better college morale and to give special support to campus activities.

*State Spartans* is a social group open to all men. The club's purpose is to foster the social, educational and spiritual development of its members.

*State Titans* is a men's organization that provides both social activities and service to the College community.

#### Political Group

*Peace and Freedom Political Organization* views SUCB as an urban College that should function democratically by and for the people within the College Community and the urban community around it. Members are concerned with developing critical and creative education that will serve to promote a more democratic social order whereby people have control over the situation that will affect their lives.

#### Resident Association

IRHA, Inter-Residence Halls Association, serves as the coordinating body of the residence halls. Every full-time undergraduate who lives in the residence halls is a member. The purpose of this organization is to represent students living in the residence halls, to facilitate communication among the individual hall governments, to act in behalf of the residents to recommend policy changes, to uphold policies common or singular to the various halls, and to make available funds to be used to benefit resident students. IRHA also conducts a court, which serves as a higher court in the residence hall judicial system. IRHA meetings are open to all students, and residents are encouraged to bring any valid criticisms, suggestions, and problems to the attention of the group.







## STUDENT FINANCIAL AID

The question of how to finance a college education is a perplexing and disturbing one for many college students. Recognizing this, the Office of the Vice-President for Student Affairs has provided a financial aids office that will give assistance to students in understanding and solving this problem.

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 Opportunities' 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 that is academically qualified will be able to attend and obtain a college education — financially speaking.

### How to Apply

In applying for most types of financial aid, a student should submit a Parents' Confidential Statement to the College Scholarship Service, Princeton, New Jersey. This form can usually be obtained from the high school counselor or by writing the Director of Financial Aids of the College.

In many instances it is also necessary to obtain additional forms from the Office of Financial Aids for Students for the types of aid sought and should be submitted in accordance with the deadlines set forth in this catalog.

For further information write to:

Director, Office of Financial Aid to Students  
State University College at Buffalo  
1300 Elmwood Avenue  
Buffalo, New York 14222

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

### New York State Aid

New York State offers various types of financial assistance to qualified college students who are State residents. It is very important that students seeking such aid obtain full information and promptly meet each application deadline.



*Regents College Scholarships*—New York State residents who plan to attend college and qualify in a competitive examination during final year of high school are eligible. Children of deceased or disabled veterans may qualify for 500 separate awards. A student that receives a Regents Scholarship will also receive a Scholar Incentive Award. With the combination of these awards a student can receive a minimum of \$350 per year up to a maximum of \$450 per year depending on need and the tuition paid.

*Scholar Incentive Program*—New York State residents who demonstrate a capacity to pursue a degree and plan to attend college or graduate school, and those who are presently in college or graduate school and maintain satisfactory academic performance are eligible. The award ranges from \$100 to \$400 yearly for undergraduates; \$200 to \$600 for graduates depending on need and tuition paid.

*State University Scholarship*—This scholarship is available for those whose parental income falls in the net-taxable income bracket of \$1800 or less. Application is made at time of registration in the financial aids service line.

Candidates should seek directions from their high school principal and/or guidance counselor, or write: The University of the State of New York, The State Education Department, Regents Examination and Scholarship Center, Albany, New York 12224.

#### Scholarships

Scholarships are generally offered to students showing outstanding qualities of leadership, academic capability and performance, and potential for teaching. Evidence of financial need is usually important in the selection of scholarship winners. The College offers scholarships to entering freshmen and upperclassmen, administers scholarships offered by outside organizations and provides an information service on outside scholarships.

#### COLLEGE SCHOLARSHIP AWARD

Established in 1957, the first awards were made in 1959 to students evidencing outstanding teaching potential and financial need. A fund of approximately \$10,000 is available annually for grants of \$100 to \$500 depending on financial need. Though a majority of these awards are made to upperclassmen, several awards are made to entering freshmen. *This Award is the only Scholarship Assistance made available by the College itself to entering Freshmen.* Letter of inquiry should be submitted to the Office of Financial Aids for Students.

#### OTHER SCHOLARSHIPS

Approximately twenty-five scholarships are awarded annually to upperclassmen. These awards range from \$25 to \$200 in value and usually are made to students

for outstanding performance in their major field who show evidence of financial need. These and other scholarships of interest follow:

*Alumni Scholarship*—Established in 1962, by the Alumni Board, three scholarships are awarded annually at Moving-Up Day. Applications are received by the Alumni Board before May 1.

*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.

*Camp Lee Mar Scholarship*—Awarded annually to a deserving Junior who is majoring in the area of Mental Retardation. Selection is made by an Exceptional Education Faculty Committee in conjunction with the Office of Financial Aids for Students.

*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.

*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.

*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.

*Blanche E. Kelsey Scholarship*—Established in 1964 by the New York State Federation of Home Bureaus. This scholarship is awarded annually to a Home Economics student by a committee composed of members of the Home Economics Faculty and representatives of the New York State Federation of Home Bureaus.



It consists of the income from an investment of \$3,000 given to the College by the New York State Federation of Home Bureaus. Application forms are available in the Office of the Director of Home Economics.

*Methodist Mothers' 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 fall semester for this scholarship.

*Nassau-Suffolk Home Economics Extension Service Scholarship*—Established in 1960 by the Home Economics Extension Service in Nassau-Suffolk Counties on Long Island. This scholarship for Home Economics students is awarded every three years. It is made possible through donations by members of the Home Economics Extension Service in Nassau and Suffolk Counties on Long Island. Application forms are available in the office of the Director of Home Economics.

*Ontario County Home Demonstration Scholarship*—Home Economics majors from Ontario County (first choice) will be granted a scholarship on the basis of financial need, scholarship and leadership. For further information contact the Home Economics Office.

*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.

*Grace A. Powell—Home Bureau Scholarship*—Established in 1953 by the New York State Federation of Home Bureaus. This scholarship is awarded annually to a Home Economics student by a committee composed of members of the Home Economics faculty and representatives of the New York State Federation of Home Bureaus. It consists of the income from an investment of \$5,000 given to the College by the New York State Federation of Home Bureaus. Application forms are available in the office of the Director of Home Economics.

*Alma Roudebush—Phi Upsilon Omicron Scholarship*—Created in 1966 by the Mu Alumnae Chapter of Phi Upsilon Omicron, this award is for Home Economics majors. For further information contact the Home Economics Division Office.

*Mildred L. Sipp—Phi Upsilon Omicron Scholarship*—Established in 1957 by the Mu Alumnae Chapter of Phi Upsilon Omicron. The scholarship is awarded annually to a senior student who is majoring in Home Economics. Applications will be received from Juniors in the Home Economics Division during the month of April. Application forms are available in the Office of the Director of Home Economics.

*Mary S. Switzer Scholarship*—Established in 1962 by the Buffalo and Erie County Extension Service. This scholarship is awarded annually to a Home Economics student by a committee composed of members of the Home Economics faculty and representatives of the Buffalo and Erie County Extension Service. It consists of the

income from an investment of \$5,000 given to the College by the members of the home demonstration units of the Buffalo and Erie County Extension Service. Application forms are available in the Office of the Director of Home Economics.

*War Orphans' Educational Assistance Act of 1956*—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 educational allowance of \$110 per month for four years of college is paid to full-time students who are between the ages of 18 and 23 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.

*Wheelock Scholarship*—Since 1931 a cash award is granted annually by the New York State Association of Secondary School Administrators to a male student in the Junior Class who shows promise of becoming an outstanding school teacher or administrator. The candidate is recommended by the Director of the Education Division.

*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.

#### 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.

#### Educational Opportunity Grants

Enacted late in 1965 this new program is designed to aid the student, for whom a college education is almost financially impossible to obtain. A grant of \$200 to \$1,000 (or one-half of his need, whichever is less) is given to a student in accordance to his total needs as seen in light of his family's resources. It is granted only to full-time undergraduate students who maintain good academic standing and who are citizens or permanent residents of the United States. Application deadline dates are the same as those of the National Defense Student Loan.



Loans

Loans are more generally available now than at any other time in the history of American higher education. In addition to evidence of financial need, students must be in good standing at the College and willing to take responsibility for the earliest possible repayment of the debt. In some cases, repayment may be delayed until the student has graduated from the College.

COLLEGE LOAN FUNDS

*Short-Term "Emergency" Loans*—The Financial Aids Office administers several small loan funds. Students may borrow as much as \$35.00 on short notice. All enrolled students are eligible for these interest-free loans. Loans must be repaid within three months.

*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.

LONG-TERM LOANS

The Financial Aids Office administers several long-term loans. Students may borrow as much as \$150. Only students who are enrolled at the College and are in good standing are eligible for these interest-free loans.

*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.

OTHER LOAN FUNDS

*National Defense Student Loan*—Full-time college students and students carrying at least one-half the normal academic workload in good 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 and \$5,000 for their college career. Repayment begins nine months after leaving college and may be spread over ten years. Three per cent interest begins after leaving college. There is no interest while the student is enrolled full-time. 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 that 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.

Applications are available and due at the dates noted below. Students applying after the due dates listed below should consider a bank loan under the New York Higher Education Assistance Corporation.

Semester	Application	Application
	Available	Due
Summer	January 3	February 28
Fall	January 3	February 28
Spring	October 1	November 15

Law Enforcement Education 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. Three 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 and fees 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 employees 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.

*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 in amounts as follows: Freshman—\$1,000, Sophomore—\$1,000, Junior—\$1,250, Senior—\$1,500, Graduate—\$1,500, and Graduate (part-time)—\$750. Repayment on loan granted after 7-1-67 begins 9 months after leaving college and may be spread over ten years. There is no interest while attending college and three percent after leaving college. 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 their 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*—Juniors, Seniors, and graduate students 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 Certificate Program Alumni Organization Loan Fund*—Established in 1964 by the Vocational Technical graduates of the teacher certificate 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.

#### LOAN INFORMATION

The Office of Financial Aids maintains contact with the following organizations which make loans to some students according to special criteria:

American Association of University Women

New York State Congress of Parents and Teachers, Inc.

High school guidance counselors have information about loans made by organizations in the student's home community.

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 taken care of. (A hold on records prevents further registration, issuance of a transcript or graduation.) In terms of life's responsibility, a student who allows himself to gain a bad credit rating in this manner should not expect further financial assistance until it is proven he can handle same.

#### Part-Time and Summer Employment

The Student Part-Time Employment Service assists students to meet some of their expenses through part-time work on the campus or in the community. Students seeking summer employment have an opportunity to study job opportunities at camps, resorts, in business, in industry, in government, and in non-profit agencies. The Service operates under the direction of the Director of Financial Aids.

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 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.

#### TYPES OF JOBS

Approximately twenty-five percent of the students at the College earn one-quarter or more of their collegiate expenses. Since the opportunities are varied, it is possible only to list the major types of employment. They are: Campus Food Service—waitress and dishwasher; College Offices—clerk, typist, stenographer; College Buildings—custodial and cleaning; College Library; Laboratory Assistants; Tutoring and Faculty Assistants.





Each job is a private arrangement between the student and the employer. On-campus wages vary from \$1.00 to \$3.00 per hour. Off-campus employment is available; however, travel time and transportation need to be taken into consideration in determining real income.

Most employer requests vary between twelve and fifteen hours of employment per week. Some openings occur which enable the student to work fewer or more hours per week.

The Work-Study Program under the Higher Education Act became available in January 1965 and has greatly increased student employment opportunities on campus. Inquiries concerning part-time 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

## Veterans and Military Affairs

*Disabled Veterans and War Orphans' Benefits*—All disabled veterans and children of deceased veterans who plan to use their educational benefits under Public Laws 815 and 634 must register at the beginning of each academic year at the Financial Aids Office.

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.

*Educational Assistance for Cold War Veterans*—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 month's benefits for each month served up to a maximum of 36 months at the following rate:

	No	One	Two	Each
School:	dependents	dependent	dependents	additional
Full-time .....	\$130	\$155	\$175	\$10
¾ time .....	95	115	135	7
½ time .....	60	75	85	5
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.			

For further information, contact your local Veterans Administration or the Director of Financial Aids.

*Platoon Leaders Class*—Qualified undergraduates may enroll in the Platoon Leaders Class, United States Marine Corps, which consists of two summer training periods of six weeks each. Upon successful completion of the Bachelor's degree and this course, a student will be commissioned a Second Lieutenant in the United States Marine Corps Reserve. There is no military training during the academic year. Those who are enrolled in this program may be deferred from the draft.

*Selective Service*—Every man is required to register with a Selective Service Local Board within five days after he becomes 18 years of age. If a man is away from home at the time he must register, he need not return home. He must, however, register at the nearest Local Board office.

The law requires every registrant to keep his Local Board informed of changes of address, and of other changes in his individual situation within 10 days after they occur. The Registrar's Office in Rockwell Hall will, only at the written request of the student, submit information regarding his grades or rank in class to his Local



Board. The Office will also assist students who have questions regarding selective service.

#### Awards

The College recognizes student excellence and achievement by conferring awards for outstanding scholarship, leadership, character and participation in various activity programs.

*Bishop Honor Award*—Given by Delta Sigma Upsilon to honor Dr. Elizabeth Bishop, a former member of the faculty. The award consists of a silver medal which is presented to a senior woman chosen by the sorority for outstanding scholarship, leadership and character.

*Delta Kappa Athletic Award*—First given in 1935 by Delta Kappa Fraternity. It is presented to a male senior student who is selected as the most outstanding individual in intramural and varsity sports by a Faculty Committee.

*Delta Kappa Award for Character, Leadership and Scholarship*—Established in 1935 by Delta Kappa Fraternity, this Gold Medal Award is presented to a male senior student who is chosen by a Faculty Committee for outstanding character, leadership and scholarship.

*Ruth Elliott Houston Honor Award*—Established in 1953 by the Women's Recreation Association in honor of the former chairman of the Department of Health, Physical Education and Recreation. It is granted to the senior woman student who is judged to be outstanding in leadership, scholarship and participation in women's health, physical education and recreation activities. The recipient is selected by the Department from nominations submitted by the Association.

*Hispania Medal*—First awarded at the College in 1952. It is presented to one or two students for scholastic achievement in Spanish. The selection is made by a faculty committee.

*Harry Ray Scholastic Award*—This award is given in honor of Harry Ray who wrote the words and music of the Alma Mater by Sigma Tau Rho Fraternity to the senior of that fraternity who has the highest cumulative average.

*Arnie Schorno Award*—Given in memory of Arnie Schorno, a former member of Sigma Tau Rho Fraternity, to the senior of this fraternity who has contributed the most to the College and to Sigma Tau Rho Fraternity.

*Sigma Upsilon English Award*—Established in 1932 by Alpha Delta Chapter of Sigma Upsilon, national honorary literary fraternity, and given to a graduating senior man who has been judged to be the outstanding student in English as selected by the Department of English.

*Walter B. Weber Honor Award*—Established in 1949 in honor of Walter B. Weber, a retired faculty member. It is presented to a senior in Industrial Arts Education who has demonstrated outstanding personal growth, leadership and scholarship. Nominations for this award are made by a committee appointed by Sigma Tau Rho Fraternity. The final selection is made by the Director of the Industrial Arts Education Division and the Sigma Tau Rho Committee.

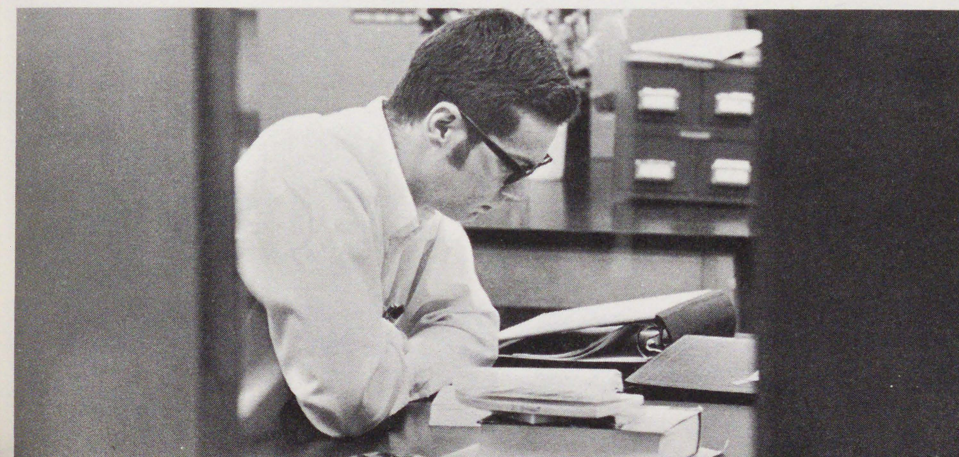
*Women's Recreation Association Awards*—These awards, first established in 1943 by Ruth Houston, Gertrude Roach and a committee of students, are given for participation in the activities under the W.R.A. program. The first award, a gold bracelet and a small charm, is given for the accumulation of 500 points. The second award, a lavalier, is given for the accumulation of 1,000 points. The third award, a large charm, is given for the accumulation of 1,500 points. The fourth award, a gold "S" key, is given for the accumulation of 2,000 points. A W.R.A. Blanket is awarded for the accumulation of 3,000 points. Three special awards, besides the Ruth E. Houston award, are presented to a freshman, sophomore, and junior who have accumulated the most points and have been in a variety of activities.

*Linus Pauling Award in Chemistry*—This annual award honors Dr. Linus Pauling, double Nobel Laureate in Peace and Chemistry. The Anonymous Award is given to the outstanding senior in Chemistry. Selection is made by the Department of Chemistry.

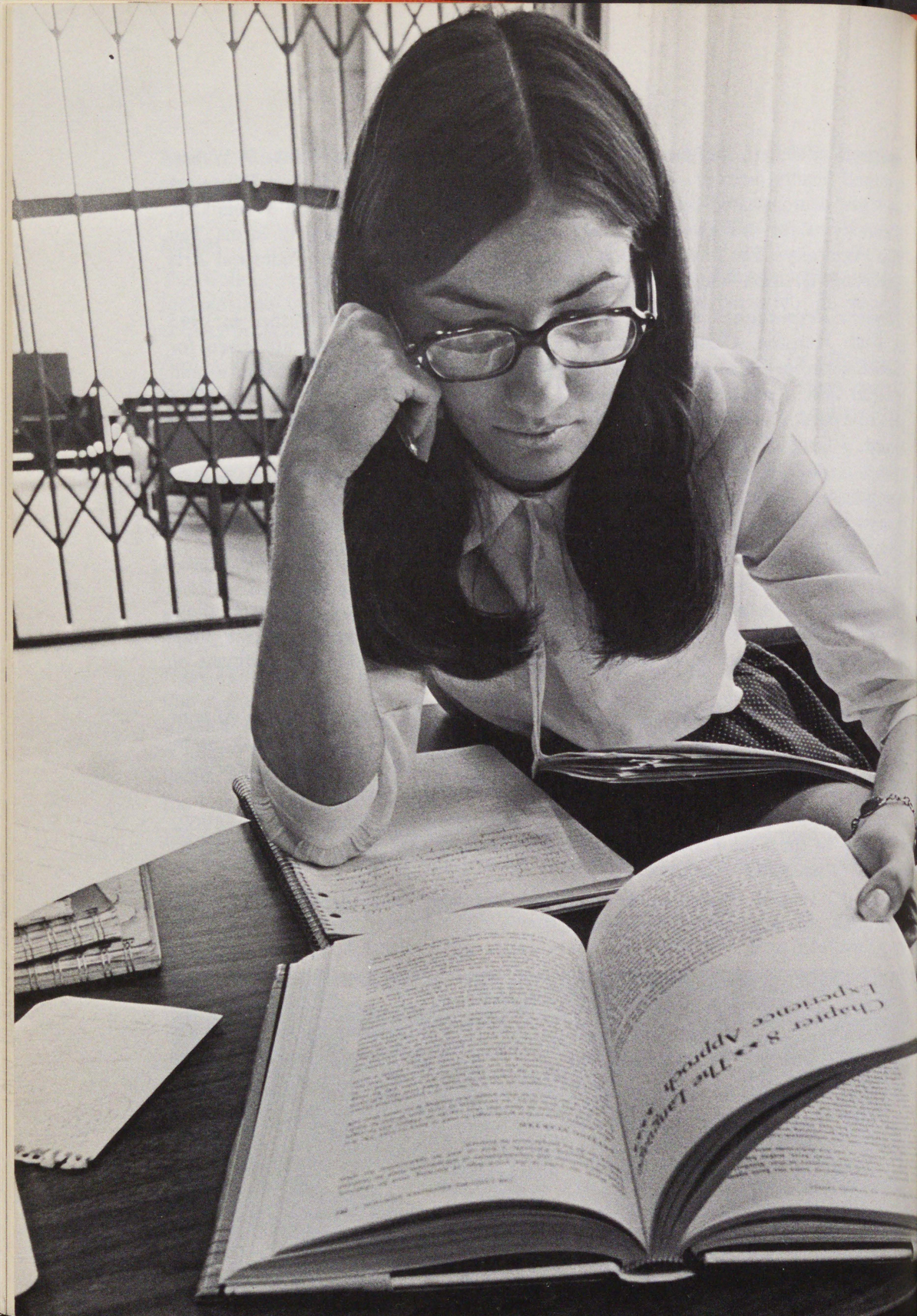
*Hube Coyer Award*—Established in 1953 by the Athletic Council and the Alumni Varsity Club in honor of Hube Coyer, a former Director of Athletics who established the Varsity Athletic Program and The Block "S" Dinner. Awarded for outstanding athletic achievement for four years at Buffalo State.

*Alumni Award—Athletic and Academic Achievement*—Established in 1962. Awarded to the Senior man who has best combined outstanding athletic achievement with academic excellence.

*President's Award*—Presented to senior athletes who have earned six or more Varsity awards during their College career.







## ACADEMIC REGULATIONS

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 contents as they apply to him.

### Attendance Regulations

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 or Division Director 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.

### 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.



#### 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 their Department Chairman or Division Director 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.

#### 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 1st for "incomplete" given at the end of the fall semester.
  - b. November 15th 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.

#### Registration

All students are required to register on the date announced by the College Registrar. Registration after these dates must have the approval of the Director of the Division or Department Chairman. No student may register or add a new course after Drop-Add Day. Students with outstanding financial obligations will not be permitted to register.

Students subject to possible dismissal under the Dismissal or Probation regulations may preregister. 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 are able to 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.

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 Registrar's Office, Rockwell Hall 311, where the student may obtain his class card and other information needed to complete his registration.

#### 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.



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.

#### **Contract**

Students who have reached the sophomore level and are academically in good standing may, with the permission of the instructor 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.

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.

#### **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.

#### **Independent Study**

##### *Purpose*

Every junior and senior student shall be permitted to engage in independent study. The student shall have demonstrated his competence and shown that he is

academically prepared to pursue this study in a direction or a depth not possible through enrollment in courses offered at the College.

#### *Student Qualifications*

- a. 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.

#### *Limitations*

- a. No independent study may be undertaken for fewer than 3 semester credit hours.
- b. A maximum of 6 semester hours of independent study may be undertaken in any one area of study other than that which is the student's major or area of concentration during the student's career at the College.
- c. A maximum of 12 semester hours of independent study may be undertaken in his major or area of concentration during the student's career at the college.
- d. A maximum of 30 hours of independent study in all areas may be undertaken by a student.
- e. A student will be limited to no more than 2 independent studies and a total of 6 semester hours of credit for independent study in any one semester.

#### **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.

#### **Quality Point System**

The following quality point system is used in determining averages:



For each hour of A—four quality points; B—three quality points; C—two quality points; D—one quality point; and E—no quality points. No other grades have quality point value. No point value for advanced credit work completed at other institutions is included in the computation of the academic standing at this College. The quality point average is determined by dividing the total number of quality points earned by the total number of semester hours attempted. When a course is repeated, both the new and the original grades and hours are included in computing the semester average and the cumulative average. The grades of P, S and U and semester hours credit earned in student teaching will not be included in determining a student's quality point average, since they have no quality point value.

#### Repeated Courses

When a required course has been failed, it must be made up the following semester unless it is not offered or the faculty adviser in consultation with the Division Director or Department Chairman deems it inadvisable.

#### Probation

Students are expected to maintain a "C" average. Probationary status indicates an unsatisfactory record of academic performance. Any student whose cumulative average falls below 2.00 is on probation. The student's status with regard to probation will be determined at the end of each College term. It will be the student's responsibility to know his probationary status. He will have until the end of the fall semester following the term in which he first goes on probation to regain a satisfactory cumulative average. Failure to do this will subject him to dismissal. All grades earned at the College, in all semesters, shall count in computing a student's grade-point average, and in determining probationary status. Students having academic difficulty are expected to approach their Division Director or Department Chairman for assistance and guidance.

#### Disciplinary Probation

A student, or a group of students, violating the recognized college rules and regulations, (See the STUDENT HANDBOOK), may be placed on Disciplinary Probation. This probation becomes active upon the recommendation of the Committee on Student Conduct to the Vice-President for Student Affairs.

Disciplinary Probation essentially means a change in the status of the student. Certain conditions may be included in this probationary status. They may include referral to the Counseling Center, ineligibility to participate in certain activities on campus, or restriction of privileges. In any event, it is a terminal status which will not be a part of the permanent records of the student.

#### Dismissal

A student may be dismissed from the 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 regulations.
4. Failure to cooperate in carrying out the policies and regulations of the College.
5. Conduct of an unacceptable nature—irresponsible, disorderly, dishonest and fraudulent conduct. (See Rules and Regulations, STUDENT HANDBOOK).
6. Unacceptable social and emotional adjustment.

The College maintains the right to reconsider the standing (status as registered student) of any student who is found guilty by civil authorities of a serious breach of civil or criminal law.

#### 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.

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.

#### Pass-Fail System

A full-time student may elect to take one course each semester on a Pass or Fail basis after the completion of his first fifteen hours of college work. He may, at the rate of one course per semester, register for a maximum of 21 semester hours of Pass or Fail work during his college career. One course may be taken on a Pass or Fail basis during one summer session each year.

A student must indicate at the time of registration whether his courses are to be taken on a Pass or Fail or regular basis. He may not elect to receive a letter



grade once he has decided to take the course on a Pass or Fail basis. None of these rules apply to grades earned in the Challenge program.

A student may drop a Pass or Fail course following the stated procedure outlined in Dropping a Course. In the case of a student who fails a Pass or Fail course, the failure will be counted into his cumulative grade-point average.

Once a student's major has been declared, he may take no further courses in the major area of work on a Pass or Fail basis.

Students transferring to the College from another college, Interdivisional or Interdepartmental transfers shall be bound by all these regulations for Pass or Fail.

#### **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 before the end of the first half of a course and receive a "W" for that course provided that he has consulted with the instructor concerned. A student who drops a course after the end of the first half of a course will receive the grade of "E" for that course. 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, the student may petition the appropriate Dean in whose division the course is being offered for permission to drop the course without penalty. After the Dean consults with the instructor involved he may or may not approve the dropping of the course. If he approves, a "W" will be entered on the record.

#### **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.

#### **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 less 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.

#### **Requirements for Graduation**

All students must complete the prescribed curriculum of the division in which they are registered with an average grade of "C" or higher (a cumulative quality point average of 2.00). Students who are within 12 hours of graduation at the end of the spring semester and who expect to complete graduation requirements by the end of the summer session may participate in June Commencement exercises if they complete the appropriate form in the Registrar's Office before the same deadline. The total hours for graduation in any curriculum shall be that number indicated by the particular program. A minimum of 32 semester hours, including the last 16 hours of the student's work must be completed in residence, unless an exception is made by the dean of the area in which the student's major falls.

#### **Application for Graduation**

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 graduate.

Prior to the start of the senior year of each student's program, a graduation check sheet is mailed listing all remaining requirements. Any candidate for graduation must review this summary and report any errors to his Division Director. All obligations to the College must be met before qualifying for graduation.

#### **Transcripts of Record**

Official transcripts of records are not issued to students, either undergraduate or graduate, but will be forwarded upon request to educational authorities whom the student may designate. No charge is made for the first transcript. After the first transcript, a charge of one dollar will be assessed. If the transcript is requested by mail, payment must be remitted in the form of a check or money order. This will serve as your receipt. No charge is made to men and women in the armed services.

Unofficial student semester grade reports will be mailed to each student regularly at his last known place of residence.

The Registrar's Office cannot ordinarily furnish transcripts of record during the week of registration of any semester or during the week that final grades are being posted at the close of any semester. Requests for transcripts should be made well in advance of the date on which the transcript is needed.

#### **Special Requests**

Requests for special privileges relating to academic matters are to be made to the student's Division Director or Department Chairman.





## EDUCATIONAL SERVICES

### Alumni Relations Program

The Alumni Association, a coordinating agency for alumni affairs, maintains a record file of all graduates in its office. It regularly supports a Scholarship Fund, Student Loan Fund, and publishes Bulletins periodically during the year to keep the alumni informed of Association activities and campus development.

In addition, it promotes an annual Homecoming Night, special performances of College and local plays and concerts, including trips to Toronto and Stratford, a June Reunion dinner and dance, and the Rockwell Memorial Fund and the Paul G. Bulger Lectureship Fund. The Buffalo State Alumni Foundation Fund, Inc. contributes significantly to the College and the community. A very active Retired Alumni Group helps to man the Burchfield center and carries on many independent social and cultural programs. There are affiliate chapters in Syracuse and Long Island.

The Association presents two Certificates of Recognition annually for outstanding service or contribution to the recipient's chosen profession. A Distinguished Alumnus Plaque for service to the Alumni Association is awarded at the annual Reunion Dinner. An award is given to the Senior athlete who has won at least one major varsity award and has maintained the highest academic average. Three scholarship grants are awarded at the Moving-Up-Day Program.

### Charles Burchfield Center

The Charles Burchfield Center, located in Rockwell Hall, is a gallery devoted to the exhibition of major works and memorabilia of Western New York's world famous watercolorist. The Center features continuous exhibitions of significant works by the artist, including paintings and sketches as well as his journals and writings, publications concerning him and extensive photographic records of his work. Special exhibits are planned each year, organized either around a particular period of the artist's work, specific Burchfield collections lent by private owners and institutions, or featuring the works of selected guest artists. Paintings and drawings from the permanent Center collection will be available for viewing and study at all times.

The Center's permanent collection is owned by the Buffalo State College Alumni Foundation, Inc., a non-profit, tax-exempt organization. It is hoped that the Foundation's collection will be increased by gifts and bequests so that several



of the major works of Charles E. Burchfield will be made accessible for viewing and study in the artist's home community. Possibilities for adding to the collection may be discussed with the Curator of the Center.

#### **Campus School**

A \$5,000,000 Campus School was opened at the College in September 1967. The school enables College students to observe and participate in teaching under the guidance of expert teachers and serves as a professional laboratory for experimental and innovative educational programs.

The Campus School complex is composed of five coordinated units and includes the following programs: nursery, kindergarten, elementary, high school and exceptional education. In addition, the Child Study Center is housed on the second floor in the central building of the school. Current enrollment is 850, while maximum enrollment is 1200. The student body is chosen by lottery and reflects the racial and socioeconomic makeup of Buffalo. The staff is composed of educational specialists, who, as College professors, are experienced teachers and experts in their particular phases of education. Supporting professional personnel in speech, health, guidance, reading, curriculum and research are assigned to the school.

A complete closed circuit television system has been engineered into the building to allow for reception and broadcasting in every room and throughout the other buildings on the College campus. Television specialists are included on the staff of the school.

The new school contains an elementary and a high school library. The combined libraries contain a collection in excess of 35,000 volumes. Study carrels have been placed in both libraries to enable students to do independent study. Twenty-five observation rooms with one-way vision glass are strategically placed throughout the entire school to allow observation of the classes by College students and professors.

#### **Child Study Center**

The Child Study Center has research, service and educational responsibilities. Physical facilities include rooms where children can work, play, or be interviewed; observation space equipped with one-way vision screens through which students and faculty can observe children's behavior; and offices used for conferences and testing.

The major objectives of the Center are to conduct research related to children, assist with children who are referred for psychological testing or adjustment problems, and to supplement and illustrate the content of course work in child develop-

ment. The Center maintains an extensive file of individual and group tests for faculty and student use, as well as mimeographed material about children and adolescents.

The Child Study Center Bulletin is edited and prepared in the Center. The Bulletin is distributed to faculty members and schools and agencies in various parts of the United States and abroad.

#### **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. Adults in the community will have opportunities for pursuing technical, vocational and professional goals. Programs for part-time study will be available through evening and Saturday morning courses. Part-time study may also be continued in the summer session. Further information and applications for non-matriculated students may be obtained from the Director of Continuing Education.

Students may also register for The University of the Air television programs through the Office of Continuing Education. Undergraduate credit courses in the History of Latin America and Astronomy have been offered in the past and will be included in future programming. Expanded offerings in the field of Humanities, American Literature and Beginning German are being planned for the future. Persons may also register on a non-credit basis for a nominal cost of two dollars. In the Buffalo area the programs are broadcast on Saturdays over Station WNED-TV Channel 17.

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, institutes, workshops, program planning, research and consultation services. To promote intellectual and aesthetic growth in the community, the College also sponsors lecture series, plays, art exhibits, concerts, festivals, dance recitals, and special events.

#### **Creative Studies**

The Creative Studies program is offered by the College in conjunction with the Creative Education Foundation offices on campus. It is concerned with an inter-



disciplinary, inter-institutional effort to conduct basic and applied research regarding the nature and nurture of creative behavior, to translate the findings into educational programs, and to field-test and disseminate the resultant materials. The purpose of the program and the Foundation is thus to increase the degree to which education cultivates creative potential in our society. It is concerned with the problem of helping people to interrelate the diverse knowledge they acquire so as to discover greater meaning and potential use for it.

As programs and materials growing out of the research are developed and substantiated, they are disseminated on a nationwide basis. Demonstrations are provided on the details of the educational programs which prove most successful. Demonstration classes, workshops, seminars and other formal instruction relating to the programs are offered, including two inter-departmental graduate courses during the summer session: Workshop in Nurturing Creative Behavior and Seminar in Creative Studies. In addition, a one-week Creative Problem-Solving Institute is offered each June.

The programs are designed for those concerned with nurturing creative thought and behavior in their classrooms or organizations. They are appropriate for all levels of educators, training and development personnel, administrators, managers and supervisors. Appropriate sub-sections and groupings are provided within program sections. Programs bring to the educator or manager the latest research findings and developments in the study of creative behavior, and help enable him to translate these findings into educational and managerial practice.

A speaker's bureau is provided. Bibliographies, reviews, and abstracts covering the nation's research and development activities on creativity (completed or in progress) are circulated via the *Journal of Creative Behavior* and other publications of the Creative Education Foundation. The comprehensive Creative Studies Library and Seminar Room in the Curriculum Laboratory of Butler Library contains book collections, microfilms of dissertations, articles, abstracts, clippings, programs, tapes and other curriculum materials.



### Great Lakes Laboratory

The Great Lakes Laboratory is located on a 9.8 acre site in the City of Buffalo at the foot of Porter Avenue with easy access to the College. Situated at the confluence of Lake Erie and the Niagara River, it offers innumerable advantages for research and teaching in the field of aquatics.

New York State's development has been dependent in a large part on its relationship with the Great Lakes. Those tremendous bodies of water are important waterways for domestic and international shipping; they are vast reservoirs of water for home and industrial uses; and they provide opportunities for recreation, including swimming, sailing, motor boating, and fishing.

The population explosion, the industrial expansion, and agricultural evolution are each having significant and extensive effects on the waters of the lakes. These factors have resulted in significant changes in the quality of the water. Likewise, the numbers and variety of aquatic organisms have changed dramatically.

To help understand these changes and their significance, the Great Lakes Laboratory provides opportunities to study the basic factors of production and metabolism, at all trophic levels, in standing and running waters. At the Laboratory, undergraduate and graduate students find trained staff and specialized equipment for advanced study in: Algology, Aquatic Entomology, Climatology, Geography, Limnology, Mycology, Parasitology, Physiology of Aquatic Plants, Pollution and Water Chemistry. In addition, there are opportunities for meaningful field and laboratory experiences as part of the regular class schedule in such basic courses as General Biology and Ecology.

The Laboratory's Library contains one of the most complete collections of current material on water pollution and Lakes Erie and Ontario.

Current research and training programs at the Great Lakes Laboratory include: an evaluation of low-flow augmentation, socio-economics study concerning shoreline utilization, effects of dredging on the chemistry and biology of Buffalo Harbor, the costs-benefits of Coho stocking in Lake Erie, and short courses for sewage and water treatment plant personnel.

### Instructional Resources

The responsibilities for equipment, materials, and services supporting instruction rests here. Television, radio, media-materials, integration, film, and tape library, audio laboratory and special facilities such as the Communication Center are of primary concern. Instructional equipment of all kinds is available. Films, slides, tapes and specialized equipment are distributed from the Communication Center. A film library (1800 titles) and media consultation services are available. Production facilities exist for development of slides, tapes, filmstrips, etc. and supplemental audio-visual materials are secured from off-campus.



### International Education

The Office of International Education works with all divisions and departments of the College in developing and coordinating a broad program to foster international understanding. The College works closely with the State University Center for International Studies and World Affairs at Albany, New York.

Increasing numbers of foreign students are studying at the College and this year approximately 60 students representing 30 countries are enrolled. These students participate actively in all phases of the academic and social life of the College, bringing a significant new educational and cultural dimension to the campus. The Foreign Student Adviser is available at all times in the Office of International Education to assist foreign students and to help foreign students meet the community and get to know the campus.

The College directs several study abroad programs during the academic year and during the summer. Each year the College directs a Semester in Siena program. Under this program, each semester 40 students, accompanied by two professors, take a wide range of courses in art, history, Italian, English literature, and sociology in Siena, Italy where they live with Italian families.

A similar program during the academic year provides opportunity for students who are majoring in Spanish or in Latin American Studies to live with families and to study at the University of Costa Rica. The College grants credit toward graduation for all studies undertaken in these programs, for which juniors and seniors are eligible.

The curriculum is being enriched and strengthened to include international area studies. Special attention is given to non-Western cultures. The study abroad program in Costa Rica is administered by the College in connection with a Latin American Area Studies Program which has been established to provide a concentration for both liberal arts and for teacher education students.

Throughout the year, training and internship programs are conducted for visiting international students and educators in active cooperation with a number of governmental and private sponsoring agencies. A flow of international visitors is received and special programs are worked out to suit their individual needs and interests. A wide range of community organizations also is associated with the College's international program. The College is actively represented in significant national organizations related to international education.

### Library Facilities

Over 225,000 books and periodical volumes are available on open shelves in the Edward H. Butler Library. Current subscriptions include over 2000 periodicals, and daily newspapers from some 20 American and foreign cities.

Now in the final stages of furnishing and equipping, the Library should be ready for total occupancy by autumn, 1969. The southeast quadrant, with an entrance door on the south side, now houses all library departments.

The Reference collection, all periodicals and indexes, and the card catalog are in the main hall on floor two. The Reserve Room is west of the main hall where a copying service (10 cents per copy) is available, as well as microfilm readers and other microforms. The office of the College Librarian is on the second floor.

All circulating books and the Laboratory of Curriculum Materials, which are non-circulating, are in the main hall, floor three. Rest rooms, water fountain, public telephones, and the Student Lounge are on the third floor.

As soon as the whole building is occupied, all library facilities and collections will move into new areas. The main entrance will be on the west side facing the Student Union and the Circulation Desk will be near the main entrance in the lower lobby. The Reserve Room will be to the right of the main entrance (south side of the foyer); the Reference Room will be on the first floor, in the northeast quadrant, and Periodicals will be housed north of the Circulation Desk which is off the lower lobby.

The Laboratory of Curriculum Materials will be on the second floor, in the southwest quadrant, with the Creative Studies Library and the Music Listening Room. The general book collection will be found in open stacks on the second and third floors, along with carrels, study areas, and typing rooms. Seminar rooms will be available on all three floors, and the Student Lounge will be on the second floor.

For additional information, see the Library Handbook, available at the Circulation and Reference Desks. Directory boards listing locations of facilities, library personnel, and book-subject classifications will be installed on all three floors near the main lobby staircase.

### Prospective Teacher Fellowship Program

Four fellowships for prospective teachers of educationally disadvantaged elementary children are available for the academic year. The program is designed to prepare classroom teachers who are: (1.) knowledgeable in their subject fields, (2.) technically skilled in educational practice, (3.) innovators in their schools, (4.) liaison persons between research findings and classroom practice, (5.) understanding of the problems of teaching urban disadvantaged youth, (6.) knowledgeable and understanding of the culture of the deprived.

Candidates must be graduates of local accredited teacher preparation institutions who have not yet had any teaching experience. They must hold provisional



teaching certificates in elementary education.

Federal funding makes possible a stipend which is awarded in the amount of \$2,000 per year plus \$400 for each dependent.

#### **SEEK Program**

SEEK (Search for Education, Elevation, and Knowledge) is an educational opportunity program financed by the State of New York and implemented through the State University. Its purpose is to provide a chance for New York State high school graduates (or holders of New York State Equivalency Diplomas) from poverty areas to be prepared, stimulated, tutored and financially helped to get into the mainstream of college education at one of the State University units in the Buffalo area—State University College, State University of New York at Buffalo, Erie County Community College or Niagara County Community College. Operating on both a full-time and part-time schedule (with the cooperation of the Continuing Education Department), courses are offered in a five-level pattern to individualize the academic program of each student based upon his achievements or deficiencies. Pre-Baccalaureate I and II are comprised of remedial courses, for which no credit is given, in basic subjects such as English, Social Science, Reading, Mathematics and Natural Science. In addition, these courses introduce methods of learning in College (i.e. lecture, seminar, note-taking).

The "SEEK Type" credit courses meet four hours a week to provide background and cover regular freshman course material at the same time. They generate three hours of credit, just as regular college courses that meet three hours a week. Intensive courses meet five hours a week, and generate six hours credit for the entire semester. They are designed to meet the unique needs of SEEK students by providing a challenge for the exceptional student. With these various levels of courses SEEK hopes to provide help where needed and incentive when possible for those above average ability in specific subject matter areas. Several courses designed specifically for relevancy to today's social problems and a more complete picture of the black man's contribution in America have been instituted (e.g., The Black Experience, The Art of Being Poor, Minorities, Afro-American Dance, etc.) and more are being planned.

To assist students in getting the most from the Program to fulfill the purpose of preparing them to matriculate, both Counseling and Tutorial Services are provided. SEEK Counseling attempts to help each student to become aware of himself as an individual. Tutorial Services offer help with academic problems when needed and enrichment when possible. Small groups and individual tutoring in conjunction with audiovisual aids and self-instruction media are all utilized.

The SEEK Program is designed for those without previous college experience. Inquiries in regard to the program should be made to the SEEK Admissions Office.

#### **Summer Session**

The College offers graduate and undergraduate instruction during the summer months. Undergraduate students may use the Summer Session to accelerate the date of graduation or for other educational purposes. Graduate work is intended for teachers who wish to complete permanent certification requirements or pursue a master's degree in education. Graduate students may also use this period of study for master's degree work in Arts and Science. Some of the distinguishing features of Summer Sessions are the special workshops and seminars scheduled for the post-session. The State Education Department also sponsors in-service education grants to teachers for some of these courses.

New graduate students at this College are requested to apply for admission to the Director of Graduate Studies. Undergraduate students in good standing at other colleges may attend the College's summer sessions as visiting students. Applications for this group may be obtained from the Director of Summer Session. Tuition and fees for undergraduate courses are \$14.60 a credit hour and for graduate courses \$21.10 a credit hour. Residence hall accommodations for men and women are available at \$13 per week for double occupancy and \$17 for a single room.

#### **Teacher Corps**

The Teacher Corps is a Federally funded, two-year post-graduate teacher preparation program for liberal arts graduates, leading to the Master of Science degree in Elementary or Secondary Education, and to Permanent Certification in New York State as an Elementary or Secondary teacher.

The program is designed to produce specially prepared, competent teachers of disadvantaged children in central city schools. The program has three major aspects: (1.) Academic work at the College, (2.) Internship experience in central city schools in Buffalo, (3.) Community study and service.

Corps members are paid a \$75 per week stipend plus \$15 per dependent during the entire period of the program which encompasses two summer sessions and two full academic years.

The Teacher Corps Program originated under the Higher Education Act of 1965 and is presently administered through the Education Professions Development Bureau in Washington, D. C. The program is authorized through fiscal year 1971.

Each two year cycle is funded separately. Such funding is dependent upon approval of a jointly prepared proposal submitted to Teacher Corps, Washington. New cycle programs usually begin with Preservice during July and August. Recruitment of liberal arts graduates is conducted during the preceding Spring semester.

Further information may be secured by writing to the Director.



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.
- 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 that 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.

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.

\*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 Science 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 Science. A majority vote (more than 50%) will constitute approval of the course as "General-Liberal."

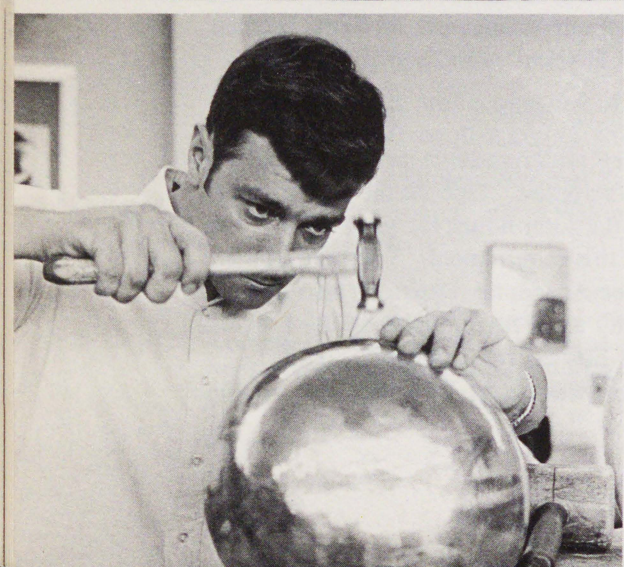
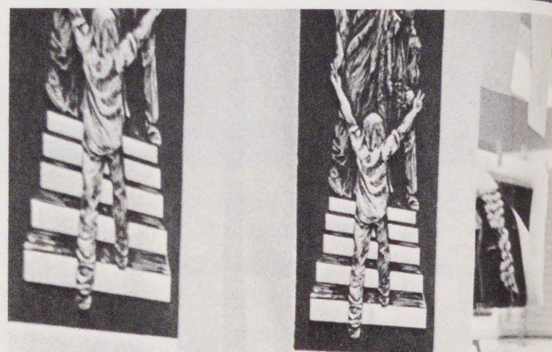
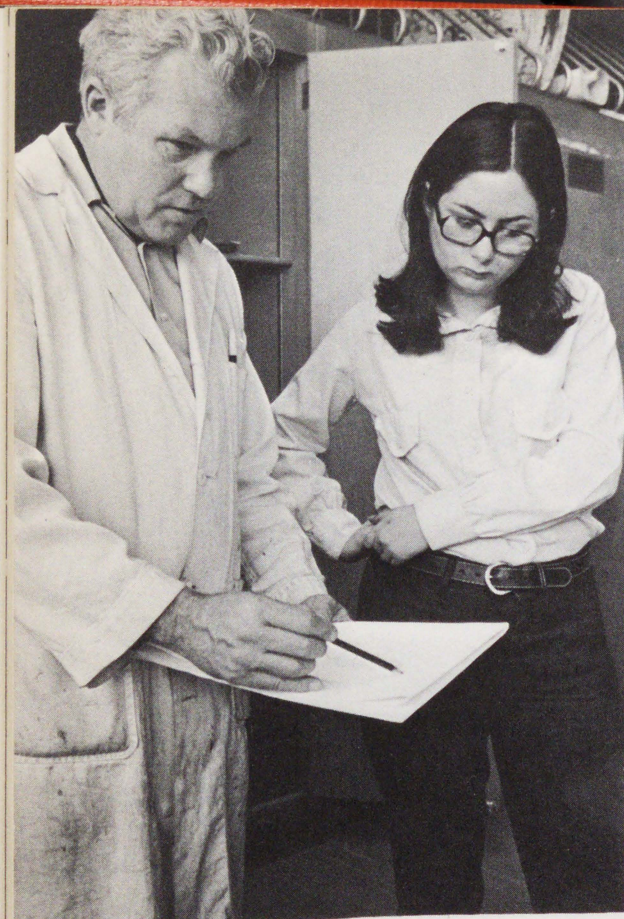


- 4. The major areas of General-Liberal Education and the departments or disciplines within each are:

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

- 5. Physical Education Requirement: Every undergraduate program shall require two years of physical education activities. 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 of all students. No additional activity courses may be elected for academic credit.
- 6. All students are expected to evidence a mastery of English.





## ART DIVISION

Degree programs in Art are: a Bachelor of Arts (B.A.); Bachelor of Science in Education (B.S.Ed.); and a Master of Science in Education (M.S.Ed.)

Bachelor of Fine Arts (B.F.A.), Master of Fine Arts (M.F.A.), and Bachelor of Science (B.S.) professional art degree programs in the Fine Arts and Design fields are being developed for the probable beginning in September 1970.

The Bachelor of Arts is a Liberal Arts program, details of which are described on page 68.

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 public schools make this one of the leading art education programs in the country.

The proposed Bachelor of Fine Arts program is designed as a comprehensive program for the preparation of the artist or designer, providing a balance between artistic development and academic studies within the Liberal Arts.

The Master of Fine Arts, generally recognized as the terminal degree for the artist and the artist-teacher, emphasizes depth within a specialization, study of related disciplines, and further Liberal Arts studies. It will be a two-year program for the intensive development of professional competence.

Proposed majors in the B.F.A.-M.F.A. programs would include:

Painting	Graphic Design
Sculpture	Crafts Design
Printmaking	General Design
Photography	Architectural Design
Industrial Design	Interior Design

The proposed B.S. in the above fields would include a greater liberal arts content than the B.F.A.

A new program, the Bachelor of Arts with a major in art, in addition to providing a basic liberal education, seeks to contribute to the development of understanding through the study of the Fine Arts, providing major course content in



painting, photography, printmaking, sculpture, and art history, with additional work in related areas.

The College has some of the finest art resources in the country. A building with excellent facilities includes twenty-five studios covering all major art and design areas, a theatre, an art gallery, seminar and audio-visual rooms. An addition of seven studios is on the planning board.

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 has several private galleries and art organizations that offer students additional opportunities to view work, meet artists, and exhibit. Theatre and music groups enrich learning possibilities in the Arts through live presentations, and overseas programs extend the College's resources to include those of Mexico, Europe and India.

The faculty of fifty-six, one of the largest in the country, has been carefully selected for competencies covering all curricular and professional areas. All are full-time staff members and have excellent records of achievement at state and national levels in professional art production or art education research.

**Semester in Siena Program**

Since September 1961 the State University College at Buffalo, in cooperation with the University of Siena and the Instituto Statale d'Arte, has conducted a semester of study in Siena, Italy. The program is for selected junior and senior students, as part of the regular four-year program. Students may live and study in this famous historic art center for a semester. Directed by a professor from this college, the classes are given by Italian professors and artists using both English and Italian languages. During the Siena Semester, the students live with Italian families and take trips to Rome, Florence, Paris and other cities of art interest. For further information, write to the Director, International Studies, State University College at Buffalo.

**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. A college graduate wishing to complete certification requirements only should first send transcripts to the Division of Certification, State Education Department, Albany, New York, for evaluation.

**Retention of Student Work**

The Art Division reserves the right to retain student art work for official purposes such as exhibits, catalogs, or teaching aids, for a period of one year. If during that time the student has graduated, the Art Division will pay for the return of the work to him.

**ART EDUCATION CURRICULUM**

	<i>Semester Hours</i>
<b>Total General-Liberal Requirements</b> .....	60
<b>(See Page 68)</b>	
<b>Cognate Electives</b>	
By advisement .....	6
<b>Studio Requirements</b>	
Art 108 Photography .....	3
Art 209 Visual Communication .....	3
Art 210 Environment Design .....	3
Art Electives .....	27
	<hr/> 36
<b>Professional Art Education</b>	
Art 301 Processes of Art Ed. at the Elementary Level .....	3
Art 302 Processes of Art Ed. at the Secondary Level .....	3
Art 303 Elementary Student Teaching and Seminar .....	6
Art 304 Secondary Student Teaching and Seminar .....	6
	<hr/> 18
<b>Physical Education</b> .....	4
<b>Total Hours</b> .....	<hr/> 124



## Art

**ART 100. Essentials of Visual Art (3,0) 3 Cr.**  
The nature of visual art; the creative process; aesthetic judgment; art's relation to contemporary culture; introductory creative expressive experiences. *Classification:* Elective except for Art Majors.

**ART 103. Object Drawing (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.

**ART 104. Figure Drawing (4,2) 3 Cr.**  
Drawing from the nude using various media with an emphasis upon proportion, anatomy and pictorial structure; involving lecture and studio experiences. *Prerequisite:* Art 103.

**ART 105. Introductory Design (4,2) 3 Cr.**  
Fundamentals of design, including logical and intuitive approaches, as applied to pure form and natural sources in two and three dimensions; color in design; the role of feeling, emotion, and intellectual control in developing individual solutions.

**ART 106. Exploratory Design (4,2) 3 Cr.**  
A continuation of the fundamentals of design in Art 105, with an emphasis on developing personal statements in various media. *Prerequisite:* Art 105.

**ART 107. Mechanical and Perspective Drawing (4,2) 3 Cr.**  
Basic principles in drafting, including orthographic and isometric projections, and perspective drawing; as an aid in visualizing and constructing products.

**ART 108. Fundamentals of Photography (4,2) 3 Cr.**  
Basic technique: camera use, film development, enlarging, print finishing and presentation. Emphasis upon developing awareness of form, value, texture, as well as subject to produce personal/expressive images; includes lecture and studio experiences. Camera required.

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

**ART 110. Design in Clay (4,2) 3 Cr.**  
An exploration of clay as a medium of expression. Beginning experiences in the preparation of clay bodies and ceramic glazes; basic methods of forming, glaze application and firing of pottery.

**ART 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.

**ART 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. *Prerequisite:* Art 111.

**ART 115. 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 esthetic 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 201. Introductory Painting (4,2) 3 Cr.**  
An introduction to the methods and techniques of painting, exploring color, form and compositional problems; includes lecture and studio experiences. *Prerequisites:* Art 104, 106.

**ART 202. Exploratory Painting (4,2) 3 Cr.**  
A continuation of the problems dealt with in Introductory Painting, working toward a greater awareness of a personal statement; includes a lecture and studio experiences. *Prerequisite:* Art 201.

**ART 203. Life Drawing (4,2) 3 Cr.**  
A continuation of Art 104 with an emphasis on surface anatomy and pictorial structure; includes lecture and studio experiences. *Prerequisite:* Art 104.

**ART 204. Introduction to Printmaking (4,2) 3 Cr.**

An introduction to printmaking and its basic techniques, involving demonstrations, lectures, and studio experiences in one or more areas such as lithography, intaglio, and relief. *Prerequisite:* Art 104, 106.

**ART 205. Design in Metal (4,2) 3 Cr.**  
Metalsmithing as a medium for sculptural expression and object design, utilizing the unique qualities of various metals and alloys. *Prerequisite:* Art 106.

**ART 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:* Art 106.

**ART 207. Design in Wood (4,2) 3 Cr.**  
Wood as a medium for sculptural expression and object design; technical and aesthetic problems. *Prerequisite:* Art 106, 107.

**ART 208. 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:* Art 104, 106.

**ART 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:* Art 105.

**ART 210. Environment Design (4,2) 3 Cr.**  
A study of the manmade environment including community and neighborhood planning; urban development of housing; commercial, industrial, governmental and educational institutions.

**ART 211. History of Art (3,0) 3 Cr.**  
The development of Western art from pre-historic times to the Renaissance, emphasizing the major styles, artists and monuments.

**ART 212. History of Art (3,0) 3 Cr.**  
The development of Western Art from the

Renaissance to the present. *Prerequisite:* Art 211.

**ART 215. Arts in Living (3,0) 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.

**ART 216. Creative Art Workshop (4,2) 3 Cr.**  
Individual exploration of expression and creativity with various media. *Prerequisite:* Art 100, 103, 105, or 111. *Classification:* Elective except for Art Majors.

**ART 217. Workshop in Crafts I (4,2) 3 Cr.**  
Creative experience in crafts, individual projects. *Classification:* Elective except for Art Majors.

**ART 218. Workshop in Crafts II (4,2) 3 Cr.**  
Individual projects to be undertaken beyond work covered in Art 217. *Classification:* Elective except for Art Majors.

**ART 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 class room activities to develop competence in communicating significant art education concepts, and developing appropriate experiences and programs. *Classification:* For Art Majors only. *Prerequisite:* Ed. 101, or Psych. 101, and one of the following: Ed. 102, Soc. Anth. 101 or Social Psych. 303.

**ART 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 Majors only. *Prerequisite:* Ed. 101, or Psych. 101, and one of the following: Ed. 102, Soc. Anth. 101 or Social Psych. 303.



**ART 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:* Art 301, 302.

**ART 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:* Art 301, 302.

**ART 401. Watercolor (4,2) 3 Cr.**

Watercolor medium as a form of pictorial representation and self-expression; investigation of stylistic possibilities, compositional problems; includes lecture and studio experiences. *Prerequisite:* Art 202.

**ART 402. Tempera Painting (4,2) 3 Cr.**

An introduction to aqueous materials such as casein, gouache, and egg tempera as a form of self-expression and representation; includes lecture and studio experiences. *Prerequisite:* Art 202.

**ART 403. Advanced Studio in Painting**  
3-6 Cr. by arrangement

Advanced painting, with media, style and content based on individual needs, concentration on individually selected area of development in painting; includes lecture and studio experiences. *Prerequisite:* Art 202.

**ART 404. Advanced Studio in Drawing**  
3-6 Cr. by arrangement

Advanced drawing with media and content based on individual needs. Concentration on individual by selected area of development in drawing; use of model; lecture and studio experiences included. *Prerequisite:* Art 203.

**ART 405. Figure Modeling (4,2) 3 Cr.**

Figure modeling as a basic sculptural dis-

cipline; portrayal and interpretation of the human form; includes lecture and studio experiences. *Prerequisite:* Art 208.

**ART 406. Advanced Studio in Sculpture**  
3-6 Cr. by arrangement

Concentration on individually selected areas of development in sculpture based on personal interest and needs; includes lecture and studio experiences. *Prerequisite:* Art 208.

**ART 407. Relief Processes in Printmaking**  
(4,2) 3 Cr.

An exploration of the relief process in the making of prints, including such possibilities as linoleum and wood blocks, wood engravings; emphasis upon personal expression and creative possibilities. *Prerequisite:* Art 204.

**ART 408. Intaglio Processes in Printmaking**  
(4,2) 3 Cr.

An exploration of the intaglio process in the making of prints, including such possibilities as etching, dry point, and engraving; emphasis upon personal expression and creative possibilities. *Prerequisite:* Art 204.

**ART 411. Advanced Studio in Printmaking**  
(4,2) 3 Cr.

Advanced printmaking, media determined by the student in consultation with the instructor; involving demonstrations, lectures and studio experiences. *Prerequisite:* Art 204 and 407 desirable.

**ART 412. Pottery (4,2) 3 Cr.**

A study of ceramic materials and processes with an emphasis on pottery making and glaze calculation; design and expression in ceramics; study of form and space, mass and volume in vessels; the effects of glaze, color, and texture, techniques of forming, glazing, and firing. *Prerequisite:* Art 110.

**ART 413. Ceramic Sculpture (4,2) 3 Cr.**

Exploration of clay as a plastic sculptural medium; basic methods of forming, glazing, and firing ceramic sculpture; relief, free-standing, and moving sculpture; architectural sculpture; mold making for reproduction design. *Prerequisite:* Art 110 and Art 208.

**ART 415. Advanced Studio in Ceramics**  
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:* Art 110; Art 413 desirable.

**ART 416. Advanced Studio in Wood Design**  
3-6 Cr. by arrangement

The design and creation of a major project in wood, approached as a designer-craftsman; utilizing a range of techniques, hand, power, and machine tools as needed; accompanied by parallel studies selected by the student from such areas as archetypes, human engineering, and furniture; designers and their influences; aesthetic implications of mechanical processes. *Prerequisite:* Art 207.

**ART 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:* Art 206.

**ART 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:* Art 206.

**ART 419. Textile Applique (4,2) 3 Cr.**

Advanced exploration in such applied textile techniques as creative stitchery and embroidery, appliqued forms, knotting and hooking, and combinations of these; for both utilitarian and expressive purposes; experience in the making of wall hangings, room dividers, special fabrics. *Prerequisite:* Art 206.

**ART 421. Metalsmithing (4,2) 3 Cr.**

Advanced experience in metalsmithing as a continuation of the forming techniques introduced in Art 205, with the addition of others, including the possibility of metal spinning; concentration in metalworking areas of special interest to the student; enameling on metals. *Prerequisite:* Art 205.

**ART 423. Jewelry Making (4,2) 3 Cr.**

Exploration of materials and processes in jewelry making, emphasizing creative design, stone setting, gem polishing, combinations with exotic woods. *Prerequisite:* Art 204, 217, or 218.

**ART 424. Cast Jewelry (4,2) 3 Cr.**

Design, materials and processes in casting jewelry in silver and gold. *Prerequisite:* Art 205; Art 423 desirable.

**ART 426. Advanced Studio in Jewelry**  
2-6 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:* Art 423; Art 424 and 425 desirable.

**ART 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:* Art 209.

**ART 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 presentations, and mechanicals; stress on individual solutions to problems encountered by the graphic designer. *Prerequisite:* Art 427.

**ART 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:* Art 427.

**ART 431. Creative Photography (4,2) 3 Cr.**

Advanced photographic techniques. Development of personal approaches to documentation. Experimental and expressive use of photographic equipment, materials and processes; lecture and studio experiences included. Camera required. *Prerequisite:* Art 108.



**ART 432. Advanced Studio in Photography**  
**3-6 Cr. by arrangement**

Advanced photographic problems with emphasis upon individual expression in the medium. Concentration on individually selected areas of special interest. Project analysis, development, execution and presentation; lecture and studio experiences included. *Prerequisite:* Art 431.

**ART 433. Product Design (4,2) 3 Cr.**

Design for individual and mass production of useful products, considering the qualities of the natural or man-made material utilized and the processes to be used in producing it, as well as functional and aesthetic problems; development of designs through sketches, scale drawings and prototypes. *Prerequisites:* Art 106 and 107.

**ART 435. Exhibition Techniques (4,2) 3 Cr.**

Problems in the organization of school and community art exhibitions; preliminary planning, arrangements for loans; transportation, insurance, protection arrangements; designing, handling, lighting, and related problems; school room and hall displays; developing display units; experience with college exhibits. *Prerequisites:* Art 106 and 107.

**ART 436. Interior Design (4,2) 3 Cr.**

Design problems related to the interiors of homes and public buildings; selection and arrangement of furniture and accessories; built-in and custom-made items; the making of sketches, floor plans, and models as needed; visits to shops and manufacturers; practical design solutions for existing situations. *Prerequisite:* Art 210.

**ART 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 requirement; research on specific local situations as well as universal professional problems. *Classification:* Elective for Art Major Upperclassmen.

**ART 441. Oriental Art (3,0) 3 Cr.**

A concentrated study of the major styles of architecture, sculpture, and painting of Islam, India, China, Japan, and Korea; lectures, discussions, extra class assignments. *Prerequisite:* Art 211, 212.

**ART 442. Scenography (4,2) 3 Cr.**

Design for the stage; philosophy, theory, practices in design for the dramatic arts; the relationship of scenery, costume, make-up, 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.

**ART 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:* Art 442, or special permission.

**ART 446. Design With Light (4,2) 3 Cr.**

Color light as a design medium in personal and group expression; theory, processes, and techniques in the use of light as an art form and as an aspect in design; two-dimensional expression in projection; three-dimensional expression in space; various uses of light from simple display to the theater. *Classification:* Elective for Art Major Upperclassmen; others by arrangement.

**ART 456. Latin American Art: Pre-Columbian**  
**(3,0) 3 Cr.**

A comprehensive study of the arts, artifacts, and architecture of the pre-Columbian civilizations from Mexico to Peru; including prehistoric Americas and significant medieval American cultures such as the Aztec, Mayan, Nazca, and Inca; lectures, discussions, extra class assignments.

**ART 457. Latin American Art: From Colonial**  
**Period (3,0) 3 Cr.**

Painting, architecture, and sculpture in Middle America and South America as they reflect Renaissance and Baroque arts of Spain and Portugal; as they reassert pre-Colonial concepts in monumental arts;

Naturalism and Romanticism in nineteenth century, impact of social concepts. European influences, Nativist painting.

**ART 469. Art of the Ancient Near East**  
**(3,0) 3 Cr.**

A concentrated study of the art and monuments of Mesopotamia and Persia from the Sumerian culture of ca. 3500 B.C. to the Persian Domination and conquest of Alexander the Great; relation to the art of Egypt and the Aegean area; lectures, discussion, extra class assignments. *Prerequisite:* Art 211, 212.

**ART 470. Art of the Classical World**  
**(3,0) 3 Cr.**

A concentrated study of the architecture, sculpture, and painting of Greece and Rome; from the Minoan and Mycenaean civilizations in the third millennium B.C. through the Age of Constantine and the fall of Rome in the fifth century A.D.; impact of the Classical World on Western art and thought; lectures, discussions, extra class assignments. *Prerequisite:* Art 211, 212.

**ART 471. Early Medieval Art (3,0) 3 Cr.**

A concentrated study of the art and architecture of Western Europe, in relation to the arts of the Classical World and Byzantine art, from the eighth through the eleventh century; emphasizing historical and religious meanings of the art, architecture, manuscript illuminations, and jeweled arts of the period; lectures, extra class assignments. *Prerequisite:* Art 211, 212.

**ART 472. Romanesque and Gothic Art**  
**(3,0) 3 Cr.**

A comprehensive study of architecture, sculpture, painting, and decorative arts of the Romanesque period through the Gothic era; Pilgrimage churches to the late Gothic cathedrals; eleventh century illuminated manuscripts and the Bayeux Tapestry to precursors of the van Eycks; sculpture from S. Sornin in Toulouse, portals of Vézelay and Autun through the work of Claus Sluter at Dijon. *Prerequisite:* Art 211, 212.

**ART 473. Italian Renaissance Art (3,0) 3 Cr.**

A comprehensive study of the arts of Florence, Venice, Northern Italy, Umbria

and Rome, in relation to man's discovery of himself and his world; consideration of the social and political milieu of the time, with emphasis on an understanding of the major monuments of architecture, sculpture, and painting. *Prerequisite:* Art 211, 212.

**ART 474. Northern Renaissance Art (3,0) 3 Cr.**

A study of artistic production, including illuminated manuscripts, in the Netherlands, France, Germany and England, from the latter part of the fourteenth century through the sixteenth century; including 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 Durer. *Prerequisite:* Art 211, 212.

**ART 475. Baroque Art (3,0) 3 Cr.**

A concentrated study of the architecture, sculpture and painting of the seventeenth and eighteenth centuries in Western Europe as reflections of the religious, political, and intellectual climate of the period; lectures, discussions, extra class assignments. *Prerequisite:* Art 211, 212.

**ART 476. Nineteenth Century Art (3,0) 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. *Prerequisite:* Art 211, 212.

**ART 477. Twentieth Century Art (3,0) 3 Cr.**

A comprehensive study of the major styles in twentieth century architecture, sculpture and painting, lectures, discussions, extra class assignments. *Prerequisite:* Art 211, 212.

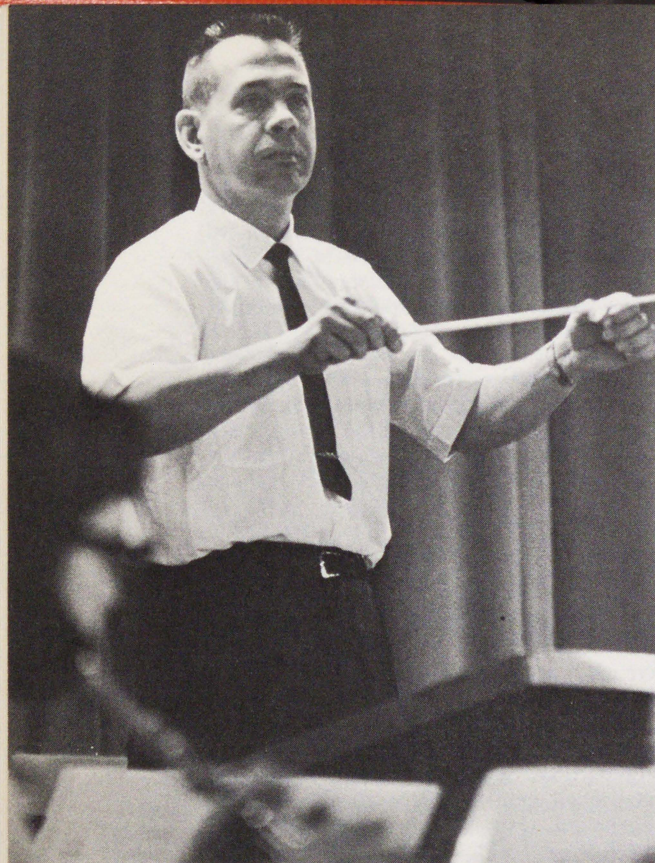
**ART 495. Project**

(See Project under Academic Regulations)

**ART 499. Independent Study**

(See Independent Study under Academic Regulations)





## ARTS AND SCIENCE

The Arts and Science faculty is organized into the departments of Biology, Chemistry, Economics, English, Foreign Language, General Science, Geography, Geoscience, Health, Physical Education and Recreation, History, Latin American Studies, Mathematics, Music, Philosophy, Physics, Political Science, Psychology, Sociology-Anthropology, and Speech and Theatre Arts. A Bachelor of Arts degree is offered with majors in the various departments, including Art, and is described in detail under the Liberal Arts Curriculum. In addition, there is a special program leading to the B.S. in Police Science and a B.S. program in Physics.

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.

The Departments of English, Foreign Language, Mathematics, Science, and Social Studies provide content courses for programs of study under the Bachelor of Science in Education degree for the certification of secondary school teachers. These programs are listed under the Secondary Education Division.

Elementary Education students will elect courses to complete their area of Liberal Arts concentration from offerings by the English, Foreign Language, Geography, Mathematics, Music, Science, and Social 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.

## 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.

### I. The Degree of Bachelor of Arts:

#### A. Entrance Requirement:

1. High School diploma or equivalent

#### B. Requirements for Graduation:

1. Total hours ..... 124
  - a. Breadth ..... 60
  - b. Major Program ..... 24-42
  - c. Electives ..... 18-36
  - d. Physical Education ..... 4
  - e. Competence in a Foreign Language

### II. Total General-Liberal Requirements ..... 60

(See Page 68)

### III. Major Programs

#### A. Types of major:

1. *Divisional*—The Arts, Humanities, Social Sciences.
2. *Departmental*—Art, Biology, Chemistry, English, Foreign Language, Geography, Geosciences, History, Mathematics, Music, Philosophy, Physics, Political Science, Psychology, Sociology, Speech and Theatre Arts.
3. *Inter-Divisional*—American Studies, Latin American Studies.

#### B. Requirements for Divisional Majors:

1. *The Arts*—30 hours with at least one course from each area of Art, Dance, Music, Speech and Theatre Arts, and a minimum of 6 hours in three of the areas.
2. *Humanities*—36 hours to include Philosophy (6 hours); English (9 hours); Foreign Language (6 hours); Seminar (3 hours); and Electives in Humanities (12 hours).
3. *Social Science*—39 hours:
  - a. Three courses (9 hours) from Economics, Political Science, Anthropology, Sociology, and Geography.
  - b. Three additional courses in one of the above areas. (An area of concentration) (9 hours).
  - c. Two upper Division Social Sciences outside area of concentration (6 hours).
  - d. History: Four courses of which at least one must be American, one non-American, and two courses in the area of other History (12 hours).
  - e. Seminar in Social Sciences (3 hours).

### C. Requirements for Departmental Majors:

#### 1. Art—40 hours

- a. Courses in theory, such as essentials of design, object and figure drawing, art history, contemporary art, visual communication, and philosophy of art (21 hours).
- b. Studio courses, at least two, in painting, sculpture, ceramics, photography (4 hours).
- c. Electives in Art (15 hours).

#### 2. Biology—36 hours

##### a. Required courses:

- |  |                   |
|--|-------------------|
| Biol. 111-112, General Biology (or equivalent) | Semester<br>Hours |
| Biol. 203, Genetics                            | 6-8               |
| (Prereq. Biol. 111-112 or equivalent)          | 4                 |
| Biol. 301, General Physiology                  | 4                 |
| (Prereq. Biol. 111-112, Chem. 111-112)         |                   |
| (Organic Chem. recommended)                    |                   |
| Biol. 401, Ecology                             | 4                 |
| (Prereq. Biol. 111-112, or equivalent)         |                   |

- b. Elective courses in biology under faculty advisement

18-20
18-16
36

#### 3. Chemistry—38 hours

##### Required Courses:

- |  |    |
|--|----|
| Chem. 111-112, General Chemistry                     | 8  |
| Chem. 201-202, Organic Chemistry                     | 8  |
| (Prereq. Chem. 111-112)                              |    |
| Chem. 301, Analytical Chemistry                      | 3  |
| (Prereq. Chem. 111-112)                              |    |
| Chem. 305-306, Physical Chemistry                    | 8  |
| (Prereq. Chem. 202, Chem. 301, Phys. 112, Math. 162) |    |
| Chem. 310, Literature of Chemistry                   | 1  |
| (Prereq. Chem. 111-112)                              |    |
| Chem. 400, Inorganic Chemistry                       | 3  |
| (Prereq. Chem. 202, Chem. 305)                       |    |
| Chem. 401, Biochemistry                              | 4  |
| (Prereq. Chem. 305)                                  |    |
| Chem. 403, Instrumental Analysis                     | 3  |
| (Prereq. Chem. 202, Chem. 301)                       |    |
|  | 38 |

#### 4. English—39 hours

##### a. Courses in general literature:

- |  |    |
|--|----|
| Survey of English Literature, English 107, 108 | 6  |
| World Writers, English 109, 110                | 6  |
| World Literature (several choices)             | 6  |
|  | 18 |
| b. Course in advanced writing                  | 3  |
| (several choices)                              |    |
| c. Course in Shakespeare                       | 3  |
|  | 83 |



	<i>Semester Hours</i>	
d. Course in Chaucer or Milton	3	
e. Course in Linguistics (choice of two)	3	
f. Course in contemporary literature (several choices)	3	
g. English electives	6	
	<hr/> 39	
5. Economics—33 hours		
a. Courses Required of all Majors:	21	
Econ. 201-202 Principles of Economics	6	
Econ. 306 Statistics for Economics	3	
Econ. 307 Intermediate Macroeconomics	3	
Econ. 308 Intermediate Macroeconomics	3	
Econ. 402 Senior Seminar	3	
Econ. 405 History of Economic Thought	3	
b. Electives in Economics	12	
	<hr/> 33	
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. 305 Spoken French	3	
Fr. 301-302 Conversation and Composition	6	
Fr. 307-308 History of Literature	6	
Fr. 306 Civilization course	3	
Language electives by advisement	18	
	<hr/> 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. Spanish		
(Normally students should have studied their major language for 2 years in high school.)		
Span. 305 Spoken Spanish	3	
Span. 301-302 Conversation and Composition	6	
Span. 307-308 History of Literature	6	
Span. 306 Civilization course	3	
Language electives by advisement	18	
	<hr/> 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—36 hours		
a. Required Geography courses:		
Geog. 101 Elements of Physical Geog.	3	
Geog. 102 Elements of Cultural Geog.	3	
Geog. 207 Conservation of Nat. Resources	3	
Geog. 305 World Economic Geography	3	
Geog. 308 Cartography	3	

	<i>Semester Hours</i>	
Geog. 303 World Climatology	3	
Geog. 406 Urban Geography	3	
Geog. 401 Development of Geog. Thought and Methodology (a seminar)	3	
Any regional course	3	
	<hr/> 27	
Students transferring into Geography who had taken Geog. 201 and/or 301 would be permitted to substitute those courses for the two elements courses listed above.		
b. Required Science course:		
Geos. 201 Geomorphology	3	
c. Required Social Studies courses:		
Anth. 201 General Anthropology	3	
Soc. 201 The American Community		
or		
Ec. 201 Principles and Problems of Economics Part I, Macro-Economics	3	
	<hr/> 36	
8. Geoscience—36 hours		
a. Required Courses:		
Geos. 101 Physical Geology	3	
Geos. 102 Historical Geology	3	
Geos. 201 Geomorphology	3	
Geos. 301 Stratigraphy	3	
Geos. 302 Paleontology	3	
Geos. 303 Mineralogy	3	
Geos. 401 Petrology	3	
Geos. 402 Structural Geology	3	
Geos. 405 Geology of North America	3	
Geos. 411 Advanced Oceanography	3	
b. Two Elective Courses from the following:	6	
Geos. 211 Elementary Oceanography		
Geos. 403 Glacial Geology		
Geos. 404 Field Geology (or equivalent)		
Geos. 406 Geology of New York State		
Geos. 451 Geochemistry		
Geos. 461 Geophysics		
	<hr/> 36	
9. History—33 hours		
a. One basic Social Studies course	3	
b. Two basic American History courses, one being 20th Century United States	6	
c. Two basic European History courses	6	
d. Two courses of non-American or non-European Hist.	6	
e. Two upper Division History courses in American, European or other History	6	
f. One course in area of other History (non-American or non-European) or Social Science Elective	3	
g. Seminar in History	3	
	<hr/> 33	
10. Mathematics—36 hours		
Completion of Math. 161, 162, 263, 151, 301 and 417. Fifteen hours of mathematics from the following with at least one course from each of the four groups.		



Group I.	
Math. 215	Differential Equations
Math. 413	Applied Analysis
Math. 417	Advanced Calculus I
Math. 418	Advanced Calculus II
Math. 461	Numerical Analysis
Group II.	
Math. 301	Introduction to Modern Algebra
Math. 303	Linear Algebra
Math. 351	Elementary Theory of Numbers
Math. 431	Mathematical Logic
Group III.	
Math. 222	Introduction to Modern Geometry
Math. 323	Modern Geometry
Math. 471	Topology
Group IV.	
Math. 381	Probability and Statistics I
Math. 382	Probability and Statistics II
Math. 415	Mathematical Methods in Applied Mathematics

#### 11. Music—42 hours

- a. Required Courses:
- |           |                                     |   |
|-----------|-------------------------------------|---|
| Music 301 | Introduction to Music Literature    | 3 |
| Music 303 | Music History, Classic and Romantic | 3 |
| Music 304 | Music History, Twentieth Century    | 3 |
| Music 311 | Theory I                            | 3 |
| Music 312 | Theory II                           | 3 |
| Music 315 | Theory III                          | 3 |
| Music 316 | Theory IV                           | 3 |
| Music 112 | Applied Music                       | 6 |
- b. Electives\*

#### 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. 205	History of Ancient and Medieval Philosophy	3
Phil. 206	History of Modern Philosophy	3
Phil. 202	Introduction to Logic	3
Phil. 302	Ethics	3
Phil. 310	Epistemology	3
Phil. 309	Metaphysics	3

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

Semester  
Hours

Plus 9 hours from the following:

Phil. 201	Problems of Philosophy
Phil. 203	Aesthetics
Phil. 204	Philosophy of Religion
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

Semester  
Hours

#### 13. Physics—35 hours

##### a. Required courses:

Phy. 111-112, General Physics (or equivalent)		
Phy. 101-102, Gen. Physics	6	}
and Phy. 105, Physics Problem Course	2	
Phy. 205, Modern Atomic Physics		3
(Prereq. Phy. 111-112, Calculus)		
Phy. 414, Introduction to Theoretical Physics I		3
(Prereq. Phy. 111-112, Math. 162)		
Phy. 416, Classical Mechanics I		3
(Prereq. Phy. 111-112, Math. 263, Phy. 414)		
Phy. 410, Advanced Physics Laboratory		6
(Prereq. Phy. 111-112)		
Phy. 418, Electricity and Magnetism I		3
(Prereq. Phy. 111-112, Phy. 414, Math. 263)		
Phy. 406, Introduction to Quantum Physics		3
(Prereq. Phy. 205, Phy. 414)		

##### b. Elective Courses in Physics selected under faculty advisement

29  
6  
35

#### 14. Political Science—33 hours

##### a. Required courses:

P.S. 207	American Political Institutions and Problems	3
P.S. 470	Seminar in Political Science	3



	<i>Semester Hours</i>
b. Distributional Requirements:	
One course in American Government and Politics	3
One course in Comparative Government	3
One course in International Relations	3
One course in Political Philosophy and Theory	3
c. Electives in Political Science	15
	33
15. <i>Psychology</i> —33 hours	
a. Required courses:	
Psych. 101 Introductory Psychology	3
Psych. 206 Statistics in Psychological Research	3
Psych. 351-352 Experimental Psychology	6
One Advanced Experimental Psychology Course	3
One Seminar in Psychology	3
	18
b. Three courses from the following, including one 300 or 400 level course	
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. 304 Theories of Learning	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. 421 Physiological Psychology	3
	9
c. Elective courses in Psychology selected under faculty advisement	6
	33
16. <i>Sociology</i> —30 hours	
a. Required Courses:	
Soc. 305 Methods in Social Research	3
Soc. 306* Social Statistics	3
Soc. 403** Contemporary Sociological Theory	
or	
Soc. 405** Foundations of Sociological Thought	3
Soc. 409 Seminar for Sociology	3
Total required courses	12
b. Electives within major program	18
Any courses designated: Sociology as well as Social Science 401—Political Behavior and Public Opinion, and Anth. 402—Cultural Anthropology may be elected.	
	30

\*Mathematics 381 and 382 may be substituted with the approval of the department chairman. If the mathematics substitute is selected, 3 hours of credit will be applied toward 30 hour sociology requirement and 3 hours of credit will be applied toward the free elective.

\*\*Both courses may be taken toward meeting the 30 hour requirement of the major but only one must be taken.

	<i>Semester Hours</i>
17. <i>Speech and Theatre Arts</i> —30 hours	
a. Speech Arts Emphasis	
Sp. and T.A. 105 Introduction to Speech Arts	3
Sp. and T.A. 106 Introduction to Theatre Arts	3
Sp. and T.A. 202 Public Speaking	3
Sp. and T.A. 320 Oral Interpretation	3
Sp. and T.A. 209 Public Discussion	3
Sp. and T.A. 309 Argumentation and Debate	3
Sp. and T.A. 322 Rhetorical Types and Principles	3
Seminar	3
Electives in Theatre Arts	3
Electives in Speech Arts	3
	30
b. Theatre Arts Emphasis	
Sp. and T.A. 105 Introduction to Speech Arts	3
Sp. and T.A. 106 Introduction to Theatre Arts	3
Sp. and T.A. 208 Technical Theatre	3
Sp. and T.A. 317 or 318 History of the Theatre	3
Sp. and T.A. 320 Oral Interpretation	3
Sp. and T.A. 326 Acting: Theory and Practice	3
Sp. and T.A. 450 Directing	3
Sp. and T.A. 496 Seminar in Speech and Theatre Arts	3
Elective in Speech or Theatre Arts	3
Elective in Speech Arts	3
	30
D. Interdivisional Majors—36 hours	
1. <i>American Studies</i>	
a. American History and Literature.	
1. American History: History 201, Social and Intellectual History of the United States to 1900, plus two elective courses in this area, at least one of which must be at the 300-400 course level.	
2. American Literature: English 109, Survey of American Literature, plus two selected from English 404 American Novel before 1900, English 414 Realism in American Literature and English 212 Romantic Movement in American Literature.	
b. Behavioral Sciences and Geography: Free choice of courses in this area, except that they must deal with the American experience.	
c. Arts: Free choice of courses in this area, basically the Fine Arts and Music, again pertaining to American Culture.	
d. Seminar in American Culture: Regarded as the culminating experience, this comes during the senior year. This course is not currently offered. Until the student enrollment justifies it, the members of the faculty interested in, and chiefly responsible for, the development of the American Studies program have agreed to perform this task of integration through individual tutorial study.	

Of the four areas mentioned above, American History, American Literature, Behavioral Sciences and Geography, and the Arts, the student must select two in which he will take a nine hour sequence and two from which he will take a six hour sequence in each. Example: History 9, Literature 9, Behavioral Science-Geography 6, and Arts 6. The only specific courses required are History 201 and English 109, plus the two semester Senior seminar.



	<i>Semester Hours</i>
2. <i>Latin American Studies</i>	
History 209 History of Latin America: Colonial Era	3
History 314 History of Latin America: National Era	3
Geography 203 or 302	3
Anthropology 304 Archeology of Latin America	3
Art 457 or Music 305	3
Spanish (310, 311) Survey of Latin American Literature	3
LAS 410 20th Century Latin American Problems	3
Plus 15 hours of electives chosen from at least three of the following disciplines in Latin American Studies:	
Anthropology (302, 303) 306	
Art (456, 457)	
Economics (407)	
Geography (203, 302)	
History 209, 411	
Industrial Arts ( <i>see</i> LAS 301)	
Latin American Studies (301, 302, 303)	
Literature (306, 307, 308, 309, 411, 412)	
Music 305, 403	
3. <i>Soviet and East Central European Studies</i>	
a. History major—33 semester hours	
United States history	6
History other than United States or Europe	6
Basic Social Science—Soviet or East Central European economics	3
Basic courses in European history—	
History 318 Russia to 1917	3
History 402 The Soviet Union	3
Upper-division history courses—	
History 412 East Central Europe	3
History 414 The Balkans	3
Additional Social Science, such as	
Geography 404 Geog. of the Soviet Union	3
History seminar—	
History 470 Seminar in European History	3
b. Electives to satisfy requirements for certificate 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.	
E. <i>Competence in a Foreign Language</i>	
Each student is expected to demonstrate competence in a foreign language equivalent to the successful completion of the first four semesters (college level) in that language. Each unit of a high school language is equivalent to one semester of a college language.	

	<i>Semester Hours</i>
IV. <b>The Degree of Bachelor of Science:</b>	
A. Entrance Requirement:	
1. High School diploma or equivalent	
B. Requirements for Graduation:	
1. Total hours	124
a. Breadth	60
b. Major Program	24-42
c. Electives	18-36
d. Physical Education	4
V. <b>Total General-Liberal Requirements</b> ..... (See Page 68)	60
VI. <b>Major Programs</b>	
A. Requirements for Departmental Major:	
1. Physics—40 hours	
a. 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
b. Elective Course in Physics selected under faculty advisement	38
	2
	40
B. Requirements for <i>Special Program — Police Science</i>	
1. Transfer credit (granted by completion of a Police Science major as a two-year curriculum)	18
2. Required courses	
Sociology 204—Race Relations	3
Political Science 316—Constitutional Law	3
Police Science 401—Seminar in Criminal Justice	3
	9
3. Elective chosen from the following:	12
Anthropology 402	
History 101, 421	
Political Science 304, 305, 408	
Psychology 205, 213, 311	
Sociology 201, 303, 304, 401, 408	
	39
	91



## BIOLOGY DEPARTMENT

**BIOL. 100. Principles of Biology (2,2) 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. 101. General Biology (Non-majors) (2,2) 3 Cr.**  
Principles of basic cellular and tissue physiology; fundamentals of taxonomy; survey of the plant and animal kingdoms.

**BIOL. 102. General Biology (Non-majors) (2,2) 3 Cr.**  
Principles of reproduction, heredity, evolution, ecology and conservation. *Special Note:* One all-day field trip may be required.

**BIOL. 111. General Biology (for Majors) (3,3) 4 Cr.**  
Biochemical and physiological aspects of life; anatomy and morphology of selected organisms; principles of systematics. Intended as a first course for biology majors.

**BIOL. 112. General Biology (for Majors) (3,3) 4 Cr.**  
Reproduction and development; an introduction to the principles of genetics, evolution, and ecology. *Prerequisite:* Biology 111.

**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. 202. Invertebrate Biology (2,2) 3 Cr.**  
Morphology, physiology, adaptation, reproduction, genetics and ecology of the invertebrates. A systematic approach. *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. 204. General Botany (2,2) 3 Cr.**  
Survey of plant taxa to show the relationship of morphology and anatomy to the functioning plant. *Prerequisite:* General Biology or Biology 100.

**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 111. *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 (2,3) 3 Cr.**  
Structure, organization and function in living systems at the molecular level. *Prerequisites:* Organic Chemistry and General Biology.

**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 homeo-

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



stasis will be developed. *Prerequisites:* Genetics and Ecology.

**BIOL. 406. Biometrics I (2,2) 3 Cr.**

Analysis of biological data, sampling and sampling distributions; probability, hypothesis testing, linear regression and correlation; introduction to analysis of variance. *Prerequisite:* College Algebra or its equivalent. *Special Note:* May be taken in place of calculus to fulfill math requirements for certification in Secondary Biology.

**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 (2,3) 3 Cr.**

Properties of nuclear and high energy radiation; detection and counting systems; mechanisms of radiobiological actions; radioisotopes as biological tools; biological effects, dose and tolerance; personal and area monitoring. *Prerequisites:* General Biology and General Chemistry. *Special Note:* Five 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. 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. 495. Project**

(See Project under Academic Regulations.)

**BIOL. 499. Independent Study**

(See Independent Study under Academic Regulations.)



## CHEMISTRY DEPARTMENT

**CHEM. 100. Chemistry (3,0) 3 Cr.**

A non-mathematical approach to the study of matter. Special topics in chemical science; chemically-oriented problems of modern society. *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 (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 (2,3) 3 Cr.**

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

**CHEM. 111. General Chemistry I (3,3) 4 Cr.**

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

**CHEM. 112. General 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. 111-112.

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.**  
Structures and functions of the substances of biochemical interest. Living Systems.  
*Prerequisite:* Chem. 221 or Chem. 201.

**CHEM. 301. Analytical Chemistry (1,6) 3 Cr.**  
Theory and laboratory applications of quantitative analyses, utilizing gravimetric, volumetric and physicochemical methods. *Prerequisite:* Chem. 111-112.

**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. 111-112.

**CHEM. 330. Organic Chemistry III (3,0) 3 Cr.**  
A study of advanced topics in theoretical and physical organic chemistry with emphasis on reaction types, mechanisms and structure. *Prerequisite:* Chem. 202 and Chem. 305.

**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. 202 and Chem. 305.

**CHEM. 401. Biochemistry (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. Instrumental Chemistry (1,6) 3 Cr.**  
Instrumental methods of chemical analysis through study of theory and operation of instruments including spectrophotometric, electroanalytical and chromatographic methods. *Prerequisite:* Chem. 202 and Chem. 301.

**CHEM. 404. Chemistry Seminar (1,0) 1 Cr.**  
Presentations by students, staff and guest speakers of topics of current chemical interest. *Prerequisite:* 20 semester hours in chemistry.

**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. *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. 495. Project**  
(See Project under Academic Regulations.)

**CHEM. 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.

tion in economic models; multi-collinearity and the use of *a priori* information in economic models. *Classification:* Required course for those planning to major in Economics. *Prerequisite:* College Algebra or equivalent.

**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



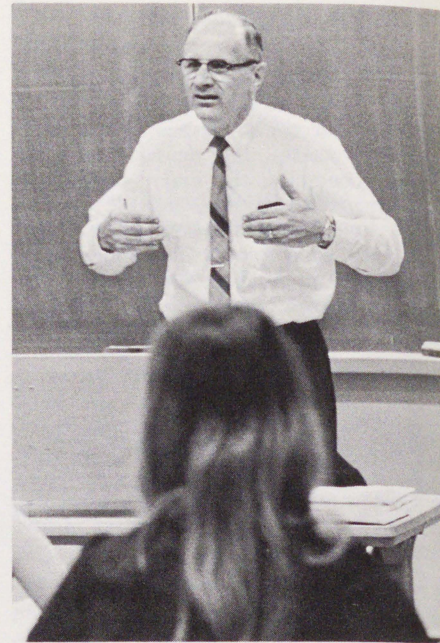
tion to fiscal policy and theory; significance of public debt; selected problems in inter-governmental fiscal relations. *Classification:* Elective for sophomores, juniors, and seniors. *Prerequisite:* Econ. 201 or 202, or consent of instructor.

**ECON. 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. 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. *Classi-*



*fication:* 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.

**ECON. 495. Project**  
(See Project under Academic Regulations).

**ECON. 499. Independent Study**  
(See Independent Study under Academic Regulations).

## ENGLISH DEPARTMENT

**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. Some experimental writing in newer media such as film or television. *Prerequisite:* English 100 or equivalent. *Special Note:* Students taking 103 may not receive credit for 101 or 102.

**ENG. 104. American Literature (3) 3 Cr.**  
American prose and poetry from the beginnings through the nineteenth century. *Special Note:* Students taking 104 may not receive credit for 109 or 110.

**ENG. 105. English Literature (3) 3 Cr.**  
English prose and poetry from the beginnings through the nineteenth century. *Special Note:* Students taking 105 may not receive credit for 107 or 108.

**ENG. 107. Literature of England I (3) 3 Cr.**  
English prose and poetry from the beginnings to 1700. *Special Note:* Students taking 107 may not receive credit for 105.

**ENG. 108. Literature of England II (3) 3 Cr.**  
English prose and poetry from 1700 through the Nineteenth Century. *Special Note:* Students taking 108 may not receive credit for 105.

**ENG. 109. American Writers I (3) 3 Cr.**  
A survey of American literature from the beginning to the Civil War. *Special Note:* Students taking 109 may not receive credit for 104.

**ENG. 110. American Writers II (3) 3 Cr.**  
A survey of American literature from the Civil War to the present. *Special Note:* Students taking 110 may not receive credit for 104.

**ENG. 201. Advanced Composition (3) 3 Cr.**  
Usage and the art of writing; practice with long and short papers; readings in contemporary prose. *Prerequisite:* Eng. 100-103.

**ENG. 203. Modern Drama (3) 3 Cr.**  
Chief modern dramatists of Continental Europe, England and America from Ibsen to the present time. *Prerequisite:* Eng. 104, 105, 107, 108, 109, 110, 301, or 302.

**ENG. 205. World Literature I (3) 3 Cr.**  
Literary masterpieces of Western civilization: translations from the Greek, Latin, French, German, Italian, and Russian. *Special Note:* Students taking 205 and 214 may not receive credit for 301 and 302.

**ENG. 208. General Folklore (3) 3 Cr.**  
Nature, forms, and meaning of folklore; functions in society.

**ENG. 210. Children's Literature (3) 3 Cr.**  
Types of children's literature; folklore, in-

Number in parentheses indicates the class hours per week.



formative material, fiction, biography, and poetry; principles of book selection; illustration, format; reading interests of children; story telling; bibliography.

**ENG. 211. Modern British and American Poetry (3) 3 Cr.**

Major poets and significant trends in poetry from 1912 to the present time. *Prerequisite:* Eng. 104, 105, 107, 108, 109, 110, 301 or 302.

**ENG. 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:* Eng. 104, 105, 107, 108, 109, 110, 301, or 302.

**ENG. 213. Secondary School Literature (3) 3 Cr.**

Literature appropriate to grades 7-12; fiction, biography, informative material, folklore; poetry, drama; criteria of book selection; bibliography.

**ENG. 214. World Literature II (3) 3 Cr.**

A continuation of Eng. 205. *Special Note:* Students taking 205 and 214 may not receive credit for 301 and 302.

**ENG. 217. Mass Communication 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. 220. Creative Writing (3) 3 Cr.**

Individual writing projects to suit interests and abilities of students. *Prerequisite:* Eng. 100-103.

**ENG. 301. Ideas of Man and His World in Literature (3) 3 Cr.**

Development of man's ideas as seen in writings of the past and present in English

and in translations from other languages. *Special Note:* Students taking 301 and 302 may not receive credit for 205 and 214.

**ENG. 302. Ideas of Man and His World in Literature (3) 3 Cr.**

A continuation of Eng. 301. *Special Note:* Students taking 301 and 302 may not receive credit for 205 and 214.

**ENG. 304. Survey of Drama (3) 3 Cr.**

Representative playwrights of Western European culture: Sophocles, Plautus, Jonson, Moliere, de Vega, Sheridan, Chekhov, Ibsen, Shaw, and O'Neill. *Prerequisite:* Eng. 104, 105, 107, 108, 109, 110, 205, 214, 301, or 302.

**ENG. 305. The Essay (3) 3 Cr.**

Readings in major and selected minor essayists. *Prerequisites:* Eng. 104, 105, 107, 108, 109, 110, 205, 214, 301, or 302.

**ENG. 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:* Eng. 105, 107, 108, 109, 110, 205, 214, 301, or 302.

**ENG. 308. The Short Story (3) 3 Cr.**

Development of the short story in England and America. *Prerequisite:* Eng. 104, 105, 107, 108, 109, 110, 205, 214, 301, or 302.

**ENG. 312. Contemporary Literature (3) 3 Cr.**

British and American literature of the twentieth century; poetry, fiction, drama. *Prerequisite:* Eng. 104, 105, 107, 108, 109, 110, 205, 214, 301, or 302.

**ENG. 313. Recent American and British Literature (3) 3 Cr.**

British and American literature since World War I. *Prerequisite:* Eng. 107, 108, 109, 110, 205, or 214.

**ENG. 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:* Eng. 107, 108, 109, 110, 205, or 214.

**ENG. 315. Shakespeare (3) 3 Cr.**

Representative comedies and tragedies. *Prerequisite:* Eng. 104, 105, 107, 108, 109, 110, 205, 214, 301, or 302.

**ENG. 316. Shakespeare I (3) 3 Cr.**

A similar study of another group of plays. *Prerequisite:* Eng. 104, 105, 107, 108, 109, 110, 205, 214, 301, or 302.

**ENG. 319. The Motion Picture (3) 3 Cr.**

An examination of the film as an art form.

**ENG. 325. Journalism (3) 3 Cr.**

News, feature, and editorial writing; copy reading; makeup; advertising; public relations. *Prerequisite:* Eng. 100-103.

**ENG. 330. Comparative Literature (3) 3 Cr.**

Principles, history, methods and purposes applied practically to various problems in European and American literature. *Prerequisite:* Eng. 104, 105, 107, 108, 109, 110, 205, 214, 301, or 302.

**ENG. 331. Literature of France in Translation (3) 3 Cr.**

Selected masterpieces of French literature in translation: novels, poetry, plays, and essays. *Prerequisite:* Eng. 104, 105, 107, 108, 109, 110, 205, 214, 301, or 302. *Special Note:* French majors must obtain the approval of both their department chairman and the course instructor.

**ENG. 332. Russian Literature in Translation (3) 3 Cr.**

Such writers as Gogol, Pushkin, Turgenev, Goncharov, Tolstoy, Dostoyevsky, Chehov, Gorky, Bunin, and Pasternak; relationships to western European Literature. *Prerequisite:* Eng. 104, 105, 107, 108, 109, 110, 205, 214, 301, 302, or 330.

**ENG. 333. Yiddish Literature in Translation (3) 3 Cr.**

Sholom Aleichem, I. L. Peretz, Sholom Asch, I. J. Singer, I. B. Singer, Morris Rosenfeld, and others; relationships to East European and American literature and culture. *Prerequisite:* Eng. 104, 105, 107, 108, 109, 110, 205, 214, 301, 302, or 330.

**ENG. 339. Afro-American Literature (3) 3 Cr.**

An examination of black American culture, with emphasis upon literature and folklore. *Prerequisite:* Eng. 109, 110, 205, or 214.

**ENG. 340. American Folklore (3) 3 Cr.**

Introduction to folklore with emphasis upon American folklore; collecting techniques; evaluations and interpretive procedures; literary uses of folklore. *Prerequisite:* Eng. 104, 105, 107, 108, 109, 110, 205, 214, 301, or 302.

**ENG. 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. *Prerequisite:* Eng. 107, 108, 109, 110, 205, or 214.

**ENG. 361. Studies in the Novel (3) 3 Cr.**

Analysis of a selected aspect of the novel: theme, motif, concept, movement in English, American, or world literature. *Prerequisite:* Eng. 107, 108, 109, 110, 205, or 214.

**ENG. 362. Studies in the Drama (3) 3 Cr.**

Analysis of a selected aspect of the drama: theme, motif, philosophic concept, or literary movement in English, American, or world drama. *Prerequisite:* Eng. 107, 108, 109, 110, 205, or 214.

**ENG. 400. Medieval English Literature (3) 3 Cr.**

The range of non-Chaucerian medieval prose and poetry in translation. *Prerequisite:* Eng. 107, 108, 109, 110, 205, or 214.

**ENG. 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:* Eng.



104, 105, 107, 108, 109, 110, 205, 214, 301, or 302; junior standing.

**ENG. 402. The Early English Novel (3) 3 Cr.**  
Origins of the English novel; major eighteenth century novelists such as Defoe, Richardson, Fielding, Sterne. *Prerequisite:* Eng. 104, 105, 107, 108, 109, 110, 205, 214, 301, or 302; junior standing.

**ENG. 403. World Novel (3) 3 Cr.**  
Major figures in the development of the novel during the past three centuries; Fielding, Balzac, Flaubert, Dostoevski, Tolstoi, the Brontes, Hardy, Hawthorne, and James. *Prerequisite:* Eng. 104, 105, 107, 108, 109, 110, 205, 214, 301, or 302; junior standing.

**ENG. 404. American Novel Before 1900 (3) 3 Cr.**  
Cooper, Hawthorne, Clemens, James, and Howells. *Prerequisite:* Eng. 104, 105, 107, 108, 109, 110, 205, 214, 301, or 302; junior standing.

**ENG. 405. Chaucer and His Age (3) 3 Cr.**  
Representative works of Chaucer; supplemental readings. *Prerequisite:* Eng. 104, 105, 107, 108, 109, 110, 205, 214, 301, or 302; junior standing.

**ENG. 406. The Later English Novel (3) 3 Cr.**  
Great English novels of the nineteenth century as art and as a manifestation of social interests. *Prerequisite:* Eng. 104, 105, 107, 108, 109, 110, 205, 214, 301, or 302; junior standing.

**ENG. 407. Modern Novel (3) 3 Cr.**  
Great English and American novels of the twentieth century; their artistic and social significance. *Prerequisite:* Eng. 104, 105, 107, 108, 109, 110, 205, 214, 301, 302, or 312; junior standing.

**ENG. 409. Milton (3) 3 Cr.**  
Prose and poetry of Milton, with emphasis on Paradise Lost; the background of Milton's writings. *Prerequisite:* Eng. 104, 105, 107, 108, 109, 110, 205, 214, 301, or 302; junior standing.

**ENG. 411. Seventeenth Century Poetry (3) 3 Cr.**  
Lyric and dramatic poetry; Shakespeare, Donne, Herrick, Jonson, Milton, and others. *Prerequisite:* Eng. 104, 105, 107, 108, 109, 110, 205, 214, 301, or 302; junior standing.

**ENG. 413. Seminar-Tour in 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:* Eng. 104, 105, 107, 108, 109, 110, 205, 212, 214, 301, 404, or 414.

**ENG. 414. Realism in American Literature (3) 3 Cr.**  
Realistic writers of the late nineteenth century: Howells, James, Clemens, S. Crane, Norris, and others. *Prerequisite:* Eng. 104, 105, 107, 108, 109, 110, 205, 214, 301, or 302; junior standing.

**ENG. 415. Philosophy in Literature (3) 3 Cr.**  
Major philosophical viewpoints in general literature; literary masterpieces with strong philosophic import. *Prerequisite:* Eng. 104, 105, 107, 108, 109, 110, 205, 214, 301, or 302; junior standing.

**ENG. 416. Study-Tour of Western Europe 8 Cr.**  
Six-weeks study-tour including Holland, Germany, Austria, Italy, Switzerland and France. *Prerequisite:* Eng. 104, 105, 107, 108, 109, 110, 205, 214, 301, 302, 304, 331, or 403; junior standing.

**ENG. 422. Victorian Poetry (3) 3 Cr.**  
Tennyson, Browning, Arnold and others; social, political, and intellectual background of the times. *Prerequisite:* Eng. 104, 105, 107, 108, 109, 110, 205, 214, 301, or 302; junior standing.

**ENG. 423. Victorian Prose (3) 3 Cr.**  
Major Victorian essayists with reference to the intellectual background of nineteenth century England: Carlyle, Newman, Macaulay, Mill, Ruskin, Arnold, Huxley, and Pater. *Prerequisite:* Eng. 104, 105, 107, 108, 109, 110, 205, 214, 301, or 302; junior standing.



**ENG. 424. Late Nineteenth Century English Literature (3) 3 Cr.**  
English literature from the Pre-Raphaelite Movement to the end of the nineteenth century. *Prerequisite:* Eng. 104, 105, 107, 108, 109, 110, 205, 214, 301, or 302; junior standing.

**ENG. 426. Eighteenth Century English Literature (3) 3 Cr.**  
Poetry, essay, novel, and drama of the eighteenth century. *Prerequisite:* Eng. 104, 105, 107, 108, 109, 110, 205, 214, 301, or 302; junior standing.

**ENG. 427. Foundations of Language (3) 3 Cr.**  
Origin of language, language families and their relationships, alphabets and the history of writing, word formation, changes in the form and meaning of words, and the scientific study of language. *Prerequisite:* Junior standing, or equivalent.

**ENG. 428. Applied Social Dialectology (3) 3 Cr.**  
A survey of relevant structural linguistic theory and of techniques of applied linguistics. *Prerequisite:* Eng. 427.

**ENG. 429. Introduction to Semantics (3) 3 Cr.**  
Analysis of the relation between words and meaning; cognition and language; culture and connotation. Semantic theories of Mill, Wittgenstein, Russell, Tarski, Korzybski, Hayakawa, Frega, Carrol, Osgood, and others. The role of semantics in com-

munication, propaganda, and literature. *Prerequisite:* Junior standing.

**ENG. 441. Comparative Drama: Tragedy (3) 3 Cr.**  
Nature of tragic drama in theory and practice from Aeschylus to the present. *Prerequisite:* Eng. 104, 105, 107, 108, 109, 110, 205, 214, 301, 302, or 330; junior standing.

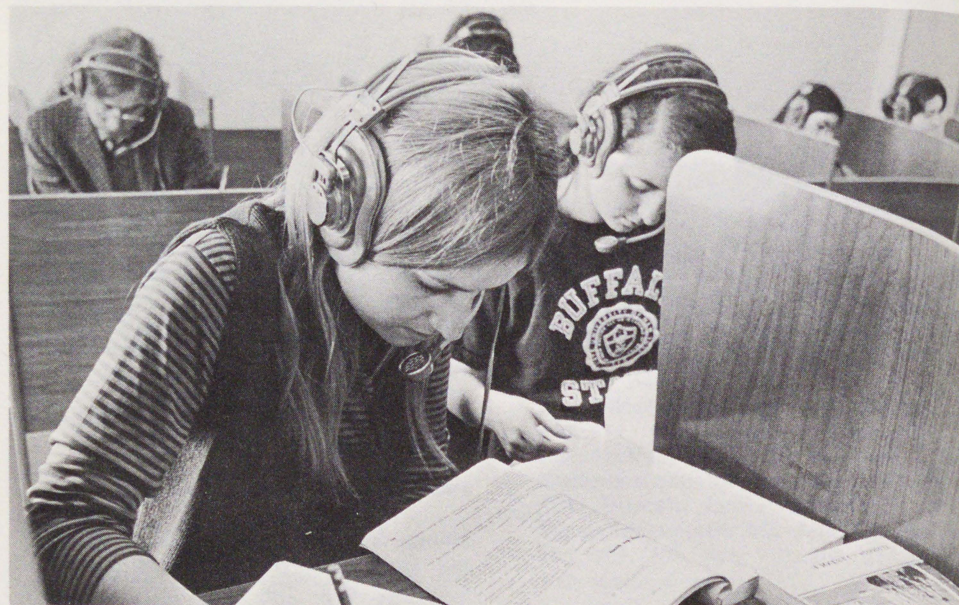
**ENG. 450. Colonial American Literature (3) 3 Cr.**  
A study of the themes and concerns of 17th and 18th century American writers, with emphasis on major figures: Anne Bradstreet, Edward Taylor, Cotton Mather, Jonathan Edwards, Benjamin Franklin, Charles Brockden Brown and Philip Freneau. *Prerequisite:* Eng. 107, 108, 109, 110, 205, or 214.

**ENG. 455. Children's Literature and Mass Media (3) 3 Cr.**  
Survey and analysis of the aesthetic experiences of children through other media than the book; study of the media, the quality of the experiences they transmit, and potentialities for improvement. *Prerequisite:* Eng. 210 or equivalent; junior standing.

**ENG. 495. Project**  
(See Project under Academic Regulations).

**ENG. 499. Independent Study**  
(See Independent Study under Academic Regulations).





## FOREIGN LANGUAGE DEPARTMENT

Students wishing to undertake study in a language without previous high school background in that language are advised to enroll in the 101 course. Placement in a foreign language in which students have previous preparation is determined by one of two methods. Automatic placement is based on the number of years of study of a particular language in high school, or testing may determine appropriate class levels. 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.

Since the language programs in the high schools vary greatly from one school to the next, students may request placement tests to determine courses for which they are qualified. Requests for placement tests should be directed to the secretary of the Foreign Language Department. Placement tests may be taken during the summer prior to College entrance. If a student has been automatically placed in a language course which seems inappropriate after several weeks' attendance, he may request a placement test then or, upon the instructor's recommendation, be re-assigned to another level. Credit is available for all courses in which students are placed on the basis of placement tests or instructors' recommendations, regardless of high school preparation.

### 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:* Re-

quired 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. 495. Project

(See Project under Academic Regulations).

### F.L. 499. Independent Study

(See Independent Study under Academic Regulations).

## FRENCH

### FR. 101. Elementary French (3,1) 3 Cr.

Fundamentals of French with emphasis on the spoken language. Laboratory attendance required.

### 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. 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 to the Enlightenment. *Prerequisite:* French 301, or permission of instructor.

### FR. 308. Survey of French Literature (3,0) 3 Cr.

The Romantic Period to the present. *Prerequisite:* French 301, or permission of 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.

Numbers in parentheses indicate class and minimum language laboratory hours per week respectively.



**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. 406. Literature of the Middle Ages (3,0) 3 Cr.**

The major trends in French literature of the Middle Ages. *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

**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.

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. 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. 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.

**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.

**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. 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 (3,1) 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.

**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. 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.

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. 310. Contemporary Italian Literature (3,0) 3 Cr.**  
Novel, short story and essay. *Prerequisite:* Italian 202.

**ITAL. 311. Contemporary Italian Literature (3,0) 3 Cr.**  
Drama and poetry. *Prerequisite:* Italian 202.

**ITAL. 404. Nineteenth Century Italian Literature (3,0) 3 Cr.**  
Readings and discussions of representative works in poetry and novel. *Prerequisite:* Italian 202.

**ITAL. 406. Dante's Divina Commedia (3,0) 3 Cr.**  
Study of selected cantos as an introduction to Dante's work and times. *Prerequisite:* Italian 202.

**ITAL. 407. Italian Renaissance Prose (3,0) 3 Cr.**  
Representative writers such as Boccaccio, Castiglione, Leonardo da Vinci, Machiavelli

## LATIN

**LAT. 101. Elementary Latin (3,0) 3 Cr.**  
Fundamentals of the Latin language. Essentials 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 languages. *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.

and others. *Prerequisite:* Successful completion of an upper-division course or permission.

**ITAL. 408. Italian Renaissance Poetry (3,0) 3 Cr.**  
Representative poets such as Petrarch, Lorenzo de' Medici, Michelangelo, Artioisto and Tasso. *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.

**ITAL. 496. Senior Seminar I (3,0) 3 Cr.**  
Topic to be chosen by professor. *Prerequisite:* Permission.

**ITAL. 497. Senior Seminar II (3,0) 3 Cr.**  
Topic to be chosen by professor. *Prerequisite:* Permission.

**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. Mediaeval 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.

## 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.

## PORTUGUESE

**PORT. 101. Elementary Portuguese (3,1) 3 Cr.**  
Fundamentals of Portuguese with emphasis upon speaking. Laboratory attendance required.

## 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.

**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.

**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.

**PORT. 102. Elementary Portuguese (3,1) 3 Cr.**  
Continuation of Portuguese 101. Laboratory attendance required. *Prerequisite:* Portuguese 101 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.



## 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. 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. 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 prelopiatas 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 Quijote* 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 the Swahili language, with particular emphasis on the spoken language. Reading and writing exercises of gradually increasing difficulty. For students with no knowledge of Swahili. *Classification:* Elective.

**SWAHILI 102. Elementary Swahili (3,1) 3 Cr.**  
Continued study of the fundamentals of the Swahili language with emphasis on the spoken language. Reading and writing exercises also continued for the development of progressively greater ability in the language. *Classification:* elective. *Prerequisite:* Swahili 101 or the equivalent.

## GENERAL SCIENCE DEPARTMENT

**SCI. 101. Principles of Physical Science I (2,2) 3 Cr.**  
Scientific method of inquiry exemplified by selected topics from physics and chemistry.

**SCI. 103. Principles of Physical Science II (2,2) 3 Cr.**  
Scientific method of inquiry exemplified by selected topics from astronomy, geology, and meteorology.

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

**SCI. 121. Physical Science for Nonscience Students I (4,0) 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 (4,0) 3 Cr.**  
A continuation of Sci. 121. *Prerequisites:* Sci. 121.



**SCI. 123. 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. 125. Man and the Natural World I (4,0) 3 Cr.**  
Evolution 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. 126. Man and the Natural World II (4,0) 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. 409. History of Science (2,2) 3 Cr.**  
The origin and development of science and its methods; its interaction with culture and society. Careers and personalities of great scientists as factors in scientific progress. *Prerequisites:* Junior standing as Elementary Education major with a science concentration, or as a major in Biology, Chemistry, Geoscience or Physics.

## GEOGRAPHY DEPARTMENT

**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

Number in parentheses indicates the class hours per week.

mentary 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. *Prerequisites:* 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. *Prerequisites:* Sci. 101 and Sci. 103, or instructor's approval. *Special Note:* May not be counted for major credit in Biology, Chemistry or Physics.

**SCI. 495. Project**  
(See Project under Academic Regulations).

**SCI. 499. Independent Study**  
(See Independent Study under Academic Regulations).

farming; effects of technology on land utilization; and problems arising from present occupancy of the land. *Classification:* Required of geography majors.

**GEOG. 201. General Geography I (3) 3 Cr.**  
Introduction to geography and the first half of world regional geography; nature of geography; geometrical position and map interpretation; the physical, cultural, economic, and political geographies of the Polar regions, Latin America, Africa and southwest Asia. *Classification:* Required of Elementary Education majors in the classes of '70 and '71.

**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. 207. 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. *Classification:* Required of geography majors.

**GEOG. 301. General Geography II (3) 3 Cr.**  
Second half of world regional geography; the physical, cultural, economic, and political geographies of Anglo-America, Europe,

south and east Asia and Australia. *Classification:* Required of Elementary Education majors in the classes of '70 and '71. *Prerequisite:* Geography 201.

**GEOG. 302. Geography of South America (3) 3 Cr.**  
Physical, cultural, historical, and regional geography of the South American continent; emphasis on man's use of land and his adjustment to the natural environment through time. *Classification:* Open to sophomores, juniors, and seniors.

**GEOG. 303. World Climatology (3) 3 Cr.**  
Discussion of world climatic regions. Fundamentals of climatic classification systems. Classification, distribution, and comparative analysis of world climatic regions. *Classification:* Required of geography majors. *Prerequisite:* Geography 101 or 201.

**GEOG. 305. 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. 306. Geography of Africa (3) 3 Cr.**  
Physical, economic, political and historical geography of the continent of Africa; social, political and economic problems related to the natural environment; natural resources; and agricultural and industrial development. *Classification:* Open to sophomores, juniors, and seniors.

**GEOG. 308. 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 201 or permission of the instructor.



**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. 402. 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. *Special Note:* May be elected by graduate students.

**GEOG. 403. 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 juniors and seniors.

**GEOG. 404. 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 juniors and seniors. *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.

\*All courses in the Geosciences include occasional field trips.  
Numbers in parentheses indicate class and laboratory hours per week respectively.

**GEOG. 406. 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. 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.

**GEOG. 415. Proseminar (3) 3 Cr.**

Investigation, examination, and discussion of topics of current interest in geography. Techniques and analysis of geographic research. *Classification:* Required of Geography majors. *Prerequisite:* Twelve (12) hours of Geography at least three (3) of which are related to the seminar topic and permission of the instructor. *Special Note:* May be elected by graduate students with permission of the instructor.

**GEOG. 495. Project**

(See project under Academic Regulations).

**GEOG. 499. Independent Study**

(See Independent Study under Academic Regulations).

**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. 105. Physical Geology (3,2) 4 Cr.**

Geologic processes in operation on and beneath the surface of the earth.

**GEOS. 121. Earth Science I (2,2) 3 Cr.**

An investigation of topics from meteorology and astronomy, selected for their relevance to concepts and processes fundamental to earth science.

**GEOS. 122. Earth Science II (2,2) 3 Cr.**

An investigation of topics from geology and oceanography, selected for their relevance to concepts and processes fundamental to earth science.

**GEOS. 131. Introductory Astronomy (2,2) 3 Cr.**

A non-mathematical survey of the astronomical 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.

**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 Geog. 101.

**GEOS. 211. Elementary Oceanography (2,2) 3 Cr.**

An introduction to the science of the sea. The importance of the oceans in our civilization.

**GEOS. 231. Descriptive Astronomy: 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. *Prerequisite:* One year of physics.

**GEOS. 232. Descriptive Astronomy: Universe (2,2) 3 Cr.**

Review of 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:* One year of physics.

**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.

**GEOS. 242. Climatology (2,2) 3 Cr.**

Climates of the earth, present and past: an application of meteorological principles to the actual earth. *Prerequisite:* Geos. 241.

**GEOS. 301. Stratigraphy (2,2) 3 Cr.**

Basic principles governing the interpretation, correlation, classification, and nomenclature of stratified rock units. *Prerequisite:* Geos. 201.

**GEOS. 302. Paleontology (2,2) 3 Cr.**

A general study of 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 105, 102.

**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 105, 102.

**GEOS. 404. Field Geology (1,4 or field trips) 3 Cr.**

Applications of geological principles and techniques in the interpretation of earth features in the field. *Prerequisite:* Geos. 101 or 105, 102.



**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. 201, 302.

**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, 303.

**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. 431. Planetarium Seminar (2,2) 3 Cr.**

Operation of the planetarium; history of the planetarium; audio-visual aids; the plane-

tarium sky; implementation in the school curricula; planetarium programming, teaching, and administration. *Prerequisite:* Geos. 231 and 232, or equivalent.

**GEOS. 451. Geochemistry (3,0) 3 Cr.**

A non-laboratory course in the elements of geochemistry. Geological phenomena and the important chemical principles underlying them presented with a minimum of mathematical interpretation. *Prerequisite:* Geos. 303, Chem. 111, 112 (or equivalent).

**GEOS. 461. Geophysics (2,2) 3 Cr.**

Study of geophysical procedures and the interpretation of data obtained. *Prerequisite:* Two years of geology and one year of physics.

**GEOS. 495. Project**

(See Project under Academic Regulations).

**GEOS. 499. Independent Study**

(See Independent Study under Academic Regulations).

## HEALTH, PHYSICAL EDUCATION AND RECREATION DEPARTMENT

The following activities may be taken to satisfy the College requirement in physical education: 4 semesters of physical activity courses. The content of each activity course includes instruction in fundamentals and basic rules. Written and skill examinations are given in each course. *These activities are strictly for the beginner. Activities may not be repeated. Prerequisite to any intermediate course is successful completion of a full semester beginning course in the same activity or permission of the instructor.*

### PHYSICAL EDUCATION

*Adapted Physical Education*

P.ED. 101—Adapted Physical Education, modified activities for physically handicapped students.

*Coed Physical Education*

P.ED. 102—Archery (Beginning)

P.ED. 103—Badminton

P.ED. 104—Bowling (Beginning)

P.ED. 105—Fencing

P.ED. 106—Folk Dance

P.ED. 107—Skiing

P.ED. 108—Social Dance

P.ED. 109—Volleyball

P.ED. 110—Modern Dance

P.ED. 111—Gymnastics

P.ED. 112—Intermediate Fencing

P.ED. 115—Life Saving

Student must hold swimmer card and meet American Red Cross course requirements.

*Women's Physical Education*

P.ED. 120—Archery (Beginning)

P.ED. 121—Badminton

P.ED. 122—Bowling (Beginning)

P.ED. 123—Fencing

P.ED. 124—Field Hockey

P.ED. 125—Folk Dance

P.ED. 126—Golf

P.ED. 127—Gymnastics

P.ED. 128—Modern Dance

P.ED. 129—Paddleball

P.ED. 130—Physical Fitness

P.ED. 131—Rhythmic Movement

P.ED. 132—Skiing

P.ED. 133—Swim—Non Swimmers

P.ED. 134—Swim—Beginner

P.ED. 135—Swim—Intermediate

P.ED. 136—Swim—Advanced

P.ED. 137—Swim—Life Saving

P.ED. 138—Tennis

P.ED. 139—Volleyball

P.ED. 140—Intermediate Badminton

P.ED. 141—Elementary Games

*Women's Physical Education: Combination*

P.ED. 150—Badminton—Golf

P.ED. 151—Badminton—Tennis

P.ED. 152—Golf—Paddleball

P.ED. 153—Field Hockey—Physical Fitness

P.ED. 154—Gymnastics—Paddleball

P.ED. 155—Gymnastics—Volleyball

P.ED. 156—Gymnastics—Physical Fitness

P.ED. 157—Paddleball—Physical Fitness

P.ED. 158—Paddleball—Tennis

P.ED. 159—Paddleball—Badminton

P.ED. 160—Swim (Beginning)—Physical Fitness

P.ED. 161—Swim (Beginning)—Paddleball

P.ED. 162—Swim (Beginning)—Archery

P.ED. 163—Swim (Beginning)—Volleyball

P.ED. 165—Intermediate Tennis—Badminton

P.ED. 167—Field Hockey—Volleyball

P.ED. 168—Swim (Beginning)—Badminton

*Men's Physical Education: Combination*

P.ED. 170—Badminton—Softball

P.ED. 171—Basketball—Touch Football

P.ED. 172—Bowling—Paddleball

P.ED. 173—Bowling—Soccer

P.ED. 174—Bowling—Softball

P.ED. 175—Handball—Paddleball

P.ED. 176—Physical Fitness—Wrestling

P.ED. 177—Swim—Non Swimmers

P.ED. 178—Swim—Beginning

P.ED. 179—Swim—Aquatics

P.ED. 180—Tennis—Squash

P.ED. 181—Volleyball—Speedball

P.ED. 182—Weight Training—Speedball

P.ED. 183—Weight Training—Track and Field

P.ED. 184—Badminton—Paddleball

P.ED. 187—Handball—Softball

P.ED. 188—Weight Training—Bowling

P.ED. 190—Tumbling—Handball

P.ED. 191—Paddleball—Golf

P.ED. 192—Swim (Beginning)—Bowling

P.ED. 193—Paddleball—Squash

P.ED. 194—Physical Fitness—Intermediate Swimming

P.ED. 196—Handball—Physical Fitness

P.ED. 197—Bowling—Tumbling

P.ED. 198—Tumbling—Physical Fitness

*Note:* Students who have taken one activity of a combination should register for a course involving other activities. Activities may not be repeated.

**P.ED. 195—Introduction to Physical Education and Related Fields (3) 3 Cr.**

History of and critical orientation to nature and scope of Physical Education.

**P.ED. 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.

**P.ED. 202. Techniques and Theories of Soccer (3) 3 Cr.**

Basic instruction in the fundamental techniques of coaching soccer. Emphasis on



coaching, philosophy, methods, organization, administration, individual and team skills and strategy with specific reference to soccer. Equipment purchase and care, training and conditioning procedures and treatment of common injuries. *Classification*: Elective for sophomore, junior, and senior men. *Prerequisite*: none.

**P.ED. 203. Techniques and Theories of Football (3) 3 Cr.**

Basic instruction in the fundamental techniques of coaching football. Emphasis on coaching philosophy, methods, organization, administration, individual and team skills and strategy with specific reference to football. Equipment purchase and care, training and conditioning procedures and treatment of common injuries. *Classification*: Elective for sophomore, junior, and senior men. *Prerequisite*: none.

**P.ED. 204. Techniques and Theories of Track and Field (3) 3 Cr.**

Basic instruction in the fundamental techniques of coaching track & field. Emphasis on coaching philosophy, methods, organization, administration, individual and team skills and strategy with specific reference to track & field. Equipment purchase and care, training and conditioning procedures and treatment of common injuries. *Classification*: Elective for sophomore, junior and senior men. *Prerequisite*: none.

**P.ED. 205. Theory in Women's Sports (3) 3 Cr.** Special methods for teaching techniques, skill and lead-up games in archery, badminton, basketball and volleyball. Special emphasis given to interpretation of rules, officiating, organization of tournaments. Play Day, Sport Days, and use of the various sports in a recreational program. *Classification*: Elective for sophomore, junior, and senior women. *Prerequisite*: Upperclassmen may take only two of the three techniques' courses offered.

**P.ED. 206. Theory in Women's Sports (3) 3 Cr.** Special methods for teaching techniques, skills and lead-up games in softball, speedball, swimming, and track and field. Special

emphasis given to interpretation of rules, officiating, organization of tournaments, Play Days, Sport Days, and use of these sports in a recreational program. *Classification*: Elective for sophomore, junior, and senior women. *Prerequisite*: Upperclassmen may take any two of the three techniques' courses offered.

**P.ED. 207. Techniques and Theories of Baseball (3) 3 Cr.**

Basic instruction in the fundamental techniques of coaching baseball. Emphasis on coaching philosophy, methods, organization, administration, individual and team skills and strategy with specific reference to baseball. Equipment purchase and care, training and conditioning procedures and treatment of common injuries. *Classification*: Elective for sophomore, junior and senior men. *Prerequisite*: none.

**P.ED. 208. Techniques and Theories of Swimming (3) 3 Cr.**

Basic instruction in the fundamental techniques of coaching swimming. Emphasis on coaching philosophy, methods, organization, administration, individual and team skills and strategy with specific reference to swimming. Equipment purchase and care, training and conditioning procedures and treatment of common injuries. *Classification*: Elective for sophomore, junior and senior men. *Prerequisite*: none.

**P.ED. 209. Techniques and Theories of Basketball (3) 3 Cr.**

Basic instruction in the fundamental techniques of coaching basketball. Emphasis on coaching philosophy, methods, organization, administration, individual and team skills and strategy with specific reference to basketball. Equipment purchase and care, training and conditioning procedures and treatment of common injuries. *Classification*: Elective for sophomore, junior and senior men. *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 the holder of 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.

**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.

**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.

**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.

**P.ED. 256. Physical Education Skills V 1 Cr.** Skill development, skill analysis and teaching progressions in aquatic activities.

**P.ED. 301. Principles of Physical Education (3) 2 Cr.**

Principles of physical education: physical education in the elementary and early sec-

ondary school; teaching motor skills; fundamental play, relays, lead-up games; rhythms, stunts and classroom games; selection of activities; safety in physical education. *Classification*: Elective. *Prerequisite*: P.Ed. 100.

**P.ED. 302. Dance Technique and Presentation (3) 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. *Prerequisite*: One semester of Modern Dance or equivalent. *Special Note*: It is recommended that students elect P.Ed. 201 and Art 444.

**P.ED. 303. Dance Composition (3) 3 Cr.**

Research in individual and group composition; experimentation with various approaches to dance composition; evaluation of original compositions. *Classification*: Elective. *Prerequisite*: One semester of Modern Dance or equivalent.

**P.ED. 310. Scientific Foundations of Physical Education (8) 6 Cr.**

Lecture and laboratory experiences emphasizing the interrelatedness of Kinesiology, and Physiology as bases for human movement, both for the typical and atypical individuals. *Prerequisite*: Proficiency in Human Anatomy and Physiology.

**P.ED. 320. Evaluation in Physical Education (2) 2 Cr.**

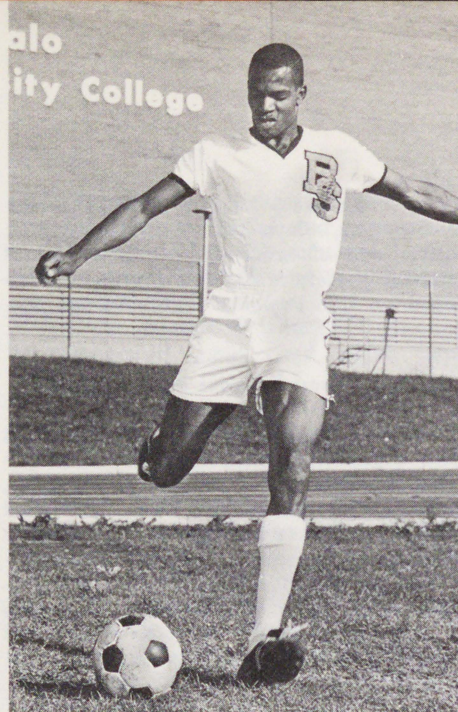
History and application of testing and measurement techniques in Physical Education; elementary statistics; test construction and validation.

**P.ED. 325. Physical Education for Children (4) 3 Cr.**

Lecture and laboratory experiences stressing development of the child through physical education activities.

Number in parentheses indicates class hours per week.





**P.ED. 410. Educational Foundations of Physical Education (8) 6 Cr.**  
Lecture and laboratory experiences emphasizing the interrelatedness of philosophy, principles, curriculum and teaching techniques in Physical Education.

**P.ED. 412. Practicum in Physical Education (24) 12 Cr.**  
Full time student teaching under supervision five days per week for two seven-week assignments in the cooperating schools ( $\frac{1}{2}$  time in the elementary level and  $\frac{1}{2}$  time in the secondary level); participation in the total school program; on-campus group and individual conferences. *Classification:* Required of Physical Education seniors. *Prerequisites:* Cumulative average of "C" or higher in all College courses; average of "C" or higher in the professional education sequence is a prerequisite for student teaching and also for graduation.

**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.

**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.

**P.ED. 495. Project**  
(See Project under Academic Regulations).

**P.ED. 499. Independent Study**  
(See Independent Study under Academic Regulations).

## HEALTH EDUCATION

**H.SC. 204. Personal and Community Health (2) 2 Cr.**  
Personal hygiene, alcohol and narcotics, mental health, control of communicable diseases, environmental sanitation and health services, healthful school living, and health instruction. *Classification:* General-liberal by advisement.

**H.SC. 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.

## 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; also consent of instructor.

## 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.

Number in parentheses indicates the class hours per week.

**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. *Classification:* Elective for freshmen and sophomores.

**HIST. 207. History of Iberia From the Reconquest to 1815 (3) 3 Cr.**  
Geography, demography, Roman, and Visigothic influences; beginning of the Reconquest; emergence of regionalism; era of the Catholic kings; age Iberian dominance; the Golden Age; 18th century Enlightenment; era of revolutions to the Congress of Vienna. *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. 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 gov-

ernment; 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. 308. History of Canada** (3) 3 Cr.

French and English colonization; confederation; national development; role in British Commonwealth; contemporary trends. *Classification:* Elective for juniors and seniors.

**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. 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:* 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. 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 system and other cultural developments. *Classification:* 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; pro-slavery 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 cultural 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 Second

dary Social Studies program or Liberal Arts History program.

**HIST. 410. American Labor History** (3) 3 Cr.  
Readings and bibliography on the role of nonagricultural 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. 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:* 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:* 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. American Negro 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. 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:* 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).



## MATHEMATICS DEPARTMENT

*General Electives.* Credit for these courses may not be earned by Mathematics Majors, Secondary Education Mathematics Majors, or Elementary Education Majors seeking extension of an elementary certificate to teach mathematics in grades 7-9.

**MATH. 101. College Algebra (3) 3 Cr.**  
Functions; graphs; variation; progressions; complex numbers; mathematical induction; theory of equations; logarithms; permutations; combinations; probability; determinants. May not be taken for credit if credit has been earned for Math. 12A or equivalent in secondary school.

**MATH. 103. Mathematics in Modern Life (3) 3 Cr.**  
Mathematics as a deductive science; sets and relations; classification of number; structure of a number system; mathematical operations and their relations; interpretation and use of statistical data. Credit may not be earned for both Math. 103 and Math. 121 or equivalents.

**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. 121. Fundamental Principles of Mathematics I (3) 3 Cr.**  
Nature of mathematics; set theory; integers; operations; systems of numeration; rational numbers, operations; number theory. Credit may not be earned for both Math. 103 and Math. 121 or equivalents.

**MATH. 122. Fundamental Principles of Mathematics II (3) 3 Cr.**  
Properties of real numbers; linear and quadratic equations and inequalities; systems of linear equations and inequalities; modular arithmetic; complex numbers; algebraic

structure; functions; statistics. *Prerequisite:* Math. 121.

**MATH. 123. Fundamental Principles of Mathematics III (3) 3 Cr.**  
Measurement; language of geometry; theorems and proofs; congruence; parallels and parallelograms; space figures; similarity and trigonometry; area and volumes; spherical geometry; coordinate geometry; postulational method. *Prerequisite:* Math. 122.

**MATH. 125. Analytic Geometry (3) 3 Cr.**  
Coordinate geometry of the straight line, circle, parabola, ellipse, and hyperbole; general equation of the second degree, translation and rotation of axes; general loci; rectangular and polar coordinates. *Prerequisite:* Permission of instructor. Credit may not be earned for both Math. 125 and Math. 161 or equivalents.

**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. *Prerequisite:* Permission of instructor. Credit may not be earned for both Math. 126 and Math. 161 or equivalents.

**COURSES FOR MATHEMATICS MAJORS AND ELECTIVES FOR ALL QUALIFIED STUDENTS.**  
Students who have completed successfully any course numbered *above* Math. 151 cannot thereafter receive credit for any mathematics course numbered *below* Math. 151.

**MATH. 151. Sets and Logic (3) 3 Cr.**  
Basic set theory, operations on sets, principle of duality, relations and functions, denumerable and non-denumerable sets;

cardinality; the statement calculus, rules of inference, types of proofs; the restricted predicate calculus, rules of inference. *Prerequisite for:* Math. 222, 301, 303, 323, 351, 381, 417, 431, 461, 471, 490 and 499.

**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; the antiderivative and differential equation with variables separable. 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; Euclidean geometry based on ruler and protractor axioms; introduction of non-Euclidean geometries. *Prerequisite:* Math. 151.

**MATH. 261. Introduction to Electronic Computers 3 Cr.**  
Basic concepts of machine and symbolic languages. One symbolic language will be covered in detail. *Prerequisite:* Math. 265. May not be used towards meeting any mathematics requirement in a mathematics program.

**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. 265. Introduction to Computer Programming 3 Cr.**  
Description of computers, concepts of languages and programming, with emphasis on the FORTRAN language. May not be used towards meeting any mathematics requirement in mathematics program.

**MATH. 301. Introduction to Modern Algebra (3) 3 Cr.**  
Fundamental concepts of sets, mappings, and operations. Topics included are semigroups, groups, rings, integral domains, fields, modular arithmetic, equivalence and order relations, construction and characterization of number systems. *Prerequisite:* Math. 151.

**MATH. 303. Linear Algebra (3) 3 Cr.**  
Vectors and vector spaces; linear dependence; basis and dimension; matrices and determinants; linear systems; linear transformations. *Prerequisite:* Math. 151.

**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:* Math. 151.

**MATH. 381. Probability (3) 3 Cr.**  
Probability spaces, discrete and continuous; distributions of discrete and continuous random variables; mathematical expectation; brief survey of point estimation, interval estimation, and testing hypotheses. *Prerequisite:* Math. 151, Math. 263.

Number in parentheses indicates the class hours per week.



**MATH. 382. Statistics (3) 3 Cr.**  
Sampling distributions; the central limit theorem; point and interval estimation; test of hypotheses. *Prerequisite:* Math. 381.

**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. 151 and 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; hypergeometric functions; Legendre functions and their applications. *Prerequisite:* Math. 151 and Math. 263. Credit may not be earned for both Physics 415 and Math. 415.

**MATH. 417. Advanced Calculus 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:* Math. 151, 263.

**MATH. 418. Advanced Calculus II (3) 3 Cr.**  
Solid analytic geometry and vectors; partial differentiation; change of variable, maxima and minima, implicit function; mul-

tipl integrals, moment and centroids; Jacobians and transformations; infinite series, main tests for convergence. *Prerequisite:* Math. 417.

**MATH. 431. Mathematical Logic (3) 3 Cr.**  
Validity, deducibility, and completeness in propositional and predicate logics; first order formal theories and informal theories in the context of set theory. *Prerequisite:* Math. 151 or Phil. 202.

**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. 151 and Math. 263.

**MATH. 471. Topology (3) 3 Cr.**  
Sets and functions; metric spaces; topological spaces; connectedness; compactness; separation. *Prerequisite:* Math. 151, 263, and at least one of the following: Math. 222, 301, 303, 351, 381, 417.

**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).



## MUSIC DEPARTMENT

The prerequisite for Mus. 211 and all 300-400 courses is Mus. 125 or Music Major status. Students who have already completed Music 100 have satisfied the prerequisite. The former Music 100 Listeners' Orientation Survey course is now divided among the elective courses of the Music 200 series which have prerequisites. Both Music 125 and the 200 series courses are suitable for fulfilling General-Liberal requirements in the Arts.

**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. 101 Basic Music Participation or previous performance with the instrument, with permission of instructor.

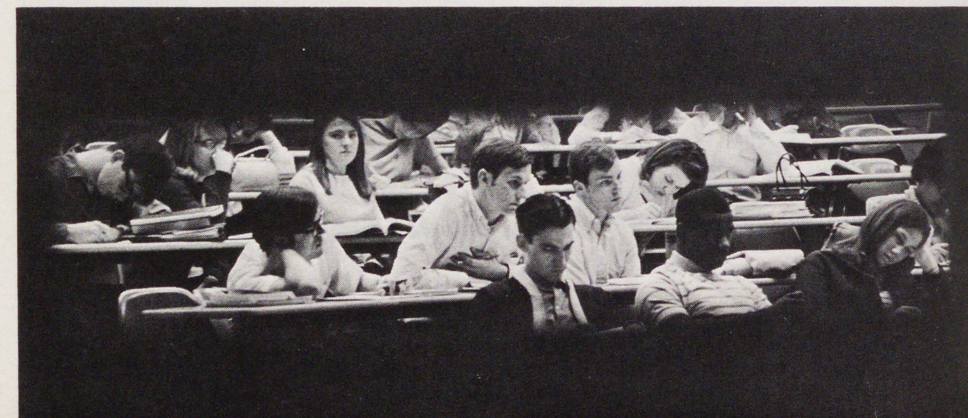
**MUS. 113. Orchestra\* (3) 1 Cr.**  
Regular rehearsals and scheduled performances with the Symphonic Orchestra group. *Classification:* Elective. *Prerequisite:* Audition: permission of instructor.

**MUS. 114. Band\* (3) 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\* (3) 1 Cr.**  
Regular rehearsals and scheduled performances with mixed unaccompanied group. *Classification:* Elective. *Prerequisite:* Audition: permission of instructor.

\*No more than 3 credit hours a semester may be earned in Mus. 111 through Mus. 121. Number in parentheses indicates the class hours per week.





**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. 119. Men's Glee Club\* (3) 1 Cr.**

Regular rehearsals and scheduled performances with Male Choral groups. *Classification:* Elective. *Prerequisite:* Audition: permission of instructor.

**MUS. 121. All-College Gospel Chorus\* (2) 1 Cr.**

Training and supervised performance in the singing of Negro Gospel Music. *Classification:* Elective.

**MUS. 125. Basic Music Participation (3) 3 Cr.**

Elementary course in basic musicianship with emphasis on group participation. *Classification:* Required for Music 211 and all Music courses in the 300 and 400 series. Required of Music Majors and Concentration in Music in Elementary Education. Elective for others. Students complying with 9-hour Arts requirement should not elect this course but select instead one of the courses in the Music 200 series. *Special Note:* Basic Music Participation may be waived by examination.

**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. 207. American Folk Music (3) 3 Cr.**

Lectures, reading and listening experience in the various idioms of American Folk Music. *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, Islam, Philippines (3) 3 Cr.**

Sources and development of the idioms, styles and sound media of the Far East. *Classification:* Elective.

**MUS. 210. Elements of Musicianship (3) 3 Cr.**

A terminal course in elementary musicianship, including some harmony and theory, such as might be helpful to a classroom teacher. *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.

At the upper level (Mus. 300-400 Series) the Music Department offers four major emphases, with choice of courses by elec-

tion and advisement. The emphases are: Theory-Composition; Music History; Classroom Music; and Applied Music. The prerequisite for all 300-400 courses is Mus. 125 or Music Major status.

**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:* Mus. 125 Basic Music Participation.

**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. 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. 125 Basic Music Participation.

**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. 125 Basic Music Participation.

**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:* Mus. 125 Basic Music Participation, or qualifying examination.

**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:* Mus. 125 Basic Music Participation, or qualifying examination.

**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—1600-1800 (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.**  
Music experiences and activities for the elementary grades. *Classification:* Elective. *Prerequisite:* Mus. 125 Basic Music Participation.

**MUS. 318. Sight-Singing and Ear-Training (3) 3 Cr.**  
Sight singing; musical dictation; scale patterns; interval, note and rest values; cadences and progressions; rhythm and meter. *Classification:* Elective. *Prerequisite:* Mus. 125 Basic Music Participation.

**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—Instrumental (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. 323. Conducting—Choral Groups (3) 3 Cr.**  
Choral conducting; use of the baton; breath and voice control, articulation, 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:* Mus. 125 Basic Music Participation.

**MUS. 401. Music History Seminar (3) 3 Cr.**  
Supervised projects in the area of study, all students reporting to a common seminar. *Classification:* Elective. *Prerequisites:* Two courses from Mus. 301-306 sequence.

**MUS. 402. American and Afro-American Music Seminar (3) 3 Cr.**  
Supervised projects in the area of study,

all students reporting to a common seminar. *Classification:* Elective. *Prerequisites:* One course from Mus. 206-209 sequence, plus one course from Mus. 301-306 sequence.

**MUS. 403. Latin American Music (3) 3 Cr.**  
Supervised projects in the area of study, all students reporting to a common seminar. *Classification:* Elective. *Prerequisites:* Mus. 305 and one course from Mus. 301-304 sequence.

**MUS. 404. Classroom Music Seminar (3) 3 Cr.**  
Supervised projects in the area of study, all students reporting to a common seminar. *Classification:* Elective. *Prerequisites:* Mus. 317 and either Mus. 322 or Mus. 323.

**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, Composition (3 hours each semester) 3 Cr.**

Supervised projects in the area of musical composition, all students reporting to a common seminar. A student who in the judgement 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. 155-455. Directed Study Seminar, Theory (3 hrs. each semester) 3 Cr.**

Supervised projects in the area of musical theory, all students reporting to a common seminar. A student who in the judgement 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 instructor, which must be granted each semester.



## PHILOSOPHY DEPARTMENT

**PHIL. 104. Introduction to Philosophy (3) 3 Cr.**  
The more important ways of answering the question, "How do you know?"; intuition; revealed truth, or mystic experience; consistency with common sense and ideas previously accepted; authority; and the scientific methods of inquiry. Methodological problems: the functions of concepts, or propositions, and of evidence for propositions. *Classification:* General Introduction.

**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:* Phil. 104 or by consent of department.

**PHIL. 202. Introduction to Logic (3) 3 Cr.**  
An introduction to symbolic logic and the traditional logic of categorical sentences. *Classification:* Elective. *Prerequisite:* Phil. 104 or by consent of department.

**PHIL. 203. 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. 104 or by consent of department.

**PHIL. 204. Philosophy of Religion (3) 3 Cr.**  
An analysis of certain ideas relevant to philosophy of religion. The course will focus on classroom discussion of religious ideas and on the philosophical problems raised by certain of these ideas. *Classification:* Elective. *Prerequisite:* Phil. 104 or by consent of department.

**PHIL. 205. History of Ancient and Medieval Philosophy (3) 3 Cr.**  
A survey of philosophy from the Pre-Socratics through the Medieval Period. The philosophies of such figures as Socrates, Plato, Aristotle, Augustine, Aquinas and William of Occam will be studied. *Classification:* Elective. *Prerequisite:* Phil. 104 or by consent of department.



**PHIL. 206. History of Modern Philosophy**  
(3) 3 Cr.

A survey of philosophy from the Renaissance period through Hegel. The philosophies of Hobbes, Descartes, Spinoza, Leibniz, Locke, Berkeley, Hume, Kant and Hegel will be studied. *Classification:* Elective. *Prerequisite:* Phil. 104 or by consent of department.

**PHIL. 301. American Philosophy** (3) 3 Cr.

An examination of the development of the major movements and issues in American Philosophy, from colonial times to the present. Including Royce, Peirce, James, Dewey, Santayana, and Whitehead. *Classification:* Elective. *Prerequisite:* Phil. 104 or by consent of department.

**PHIL. 302. Ethics** (3) 3 Cr.

An examination of principal ethical theories, including objectivism, subjectivism, and emotivism. The use of such terms as good and evil, right and wrong, moral and immoral, justice and injustice will be examined. Special attention will be given to the problems of the justification of ethical statements and of ethical disagreements. *Classification:* Elective. *Prerequisite:* Phil. 205-206.

**PHIL. 303. Philosophy of History** (3) 3 Cr.

An analysis of leading classical and contemporary philosophies of history. A study of selected philosophical problems connected with the various types of historical discourse. *Classification:* Elective. *Prerequisite:* Phil. 104 or by consent of department.

**PHIL. 304. Social and Political Philosophy**  
(3) 3 Cr.

An analysis of the major classical and contemporary social and political philosophies. A philosophical analysis of such concepts as "state," "liberty," "law," and "justice". *Classification:* Elective. *Prerequisite:* Phil. 104 or by consent of department.

**PHIL. 305. Contemporary Philosophy I**  
(3) 3 Cr.

An analysis of the major movements in 20th Century Philosophy (up to World

War II) including Existentialism, Linguistic Analysis, Logical Positivism, Pragmatism, and Marxism. *Classification:* Elective. *Prerequisite:* Phil. 205-206.

**PHIL. 306. Contemporary Philosophy II**  
(3) 3 Cr.

An analysis of the major movements in 20th Century Philosophy (from World War II to the present) including Existentialism, Linguistic Analysis, Logical Positivism, Pragmatism, and Marxism. *Classification:* Elective. *Prerequisite:* Phil. 205-206.

**PHIL. 307. Philosophy of Science** (3) 3 Cr.

An examination of science as a human enterprise, of its purposes and methods, of its persistent problems as well as its successes, and of its relations to other human enterprises such as the arts and the humanities. *Classification:* Elective. *Prerequisite:* Phil. 104 or by consent of department.

**PHIL. 308. Existentialism** (3) 3 Cr.

A consideration of the problem of meaning and value in life in a context of various literary and philosophical works of religious and non-religious existentialists. *Classification:* Elective. *Prerequisite:* Phil. 104 or by consent of department.

**PHIL. 309. Metaphysics** (3) 3 Cr.

An inquiry into the nature, function, and possibility of metaphysical thinking. A philosophical analysis of such topics as free will and determinism, fate, causation, the self and God, space and time, mind and body, "ultimate" reality. *Classification:* Departmental requirement. *Prerequisite:* Phil. 205-206.

**PHIL. 310. Epistemology (Theory of Knowledge)**  
(3) 3 Cr.

A critical analysis of the major traditional and contemporary theories of knowledge, including rationalism, empiricism, skepticism, idealism, intuitionism, etc. An examination of knowledge—claims about past and future events, about the material world, about oneself, and about other minds. *Classification:* Departmental requirement. *Prerequisite:* Phil. 205-206.

**PHIL. 311. 19th Century European Philosophy**  
(3) 3 Cr.

A detailed survey of the primary writing, historical backgrounds and inter-connections of the major 19th century European philosophers, beginning with Hegel and including such thinkers as Schopenhauer, Nietzsche, and Bradley. *Classification:* Elective. *Prerequisite:* Phil. 206.

**PHIL. 384. Controversy: Current Issues on the Intellectual Scene** (3) 3 Cr.

Discussions on major contemporary social and moral issues, with emphasis on objective appraisal and evaluation of alternative solutions to those problems. *Prerequisite:* A course in philosophy and upper division standing.

**PHIL. 401. Seminar in Philosophy** (3) 3 Cr.

Intensive analysis of selected topics in philosophy. *Classification:* Elective. *Prerequisite:* Consent of department.

**PHIL. 402. Philosophy of Psychology** (3) 3 Cr.

A philosophical analysis of conceptual problems in current psychology; Analytic Philosophy and Phenomenology will be utilized. *Classification:* Elective. *Prerequisite:* Phil. 104, or by consent of department.

**PHIL. 403. 17th-18th Century Rationalists**  
(3) 3 Cr.

An investigation of the 17th and 18th century rationalists; including Descartes, Spinoza, Leibnitz, and Hobbes. Emphasizing their metaphysical and epistemological theories. *Classification:* Elective. *Prerequisite:* Phil. 205-206.

**PHIL. 404. British Empiricism** (3) 3 Cr.

An investigation of the classical British Empiricists including Locke, Berkeley, Hume and Reid. Emphasizing their epistemological and linguistic theories. *Classification:* Elective. *Prerequisite:* Phil. 205-206.

**PHIL. 405. Plato and Aristotle** (3) 3 Cr.

A detailed study of the major writings of Plato and Aristotle, with special emphasis on textual interpretations and philo-

sophical criticism. Their principal doctrines on Logic, Epistemology, Metaphysics, Ethics, Psychology, Political Theory, and Theory of Value. *Classification:* Elective. *Prerequisite:* Either metaphysics or epistemology.

**PHIL. 406. Philosophy of Mathematics**  
(3) 3 Cr.

Formal developments and Philosophy of Mathematics after Frege. *Classification:* Elective. *Prerequisite:* Logic 202 or suitable substitute.

**PHIL. 407. Theory of Value** (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:* Ethics or Aesthetics.

**PHIL. 408. Philosophy of Logic** (3) 3 Cr.

The Philosophy of Logic after Frege and Mill: problems of meaning and reference, problems of intensionality, theory of descriptions, theories of truth and necessity. *Prerequisite:* Math. 412 or Phil. 406.

**PHIL. 410. Marxist Philosophy** (3) 3 Cr.

An examination of the foundations of Marxist Philosophy, including a study of early Utopian systems, the influence of German Idealism and the thoughts of Marxism's major spokesmen, including Trotsky, Plekhanov, Lenin, Mao-tse-Tung as well as Marx and Engels. *Classification:* Elective. *Prerequisite:* History of Western Civilization or a History of Philosophy or a course in Social and Political Philosophy or permission of the instructor.

**PHIL. 495. Project**

(See Project under Academic Regulations).

**PHIL. 499. Independent Study**

(See Independent Study under Academic Regulations).



## PHYSICS DEPARTMENT

### 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.

### 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. 105. Physics Problems (2,0) 2 Cr.

Solution of selected physics problems to raise the student's problem-solving competence to the level required in Phy. 111-112. *Prerequisite:* Phy. 101 and 102, or the equivalent.

### 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. 301. Electrical Measurements (0,6) 3 Cr.

Direct and low-frequency alternating current measurements by meter deflection methods and by null methods; amplifiers and oscillographs; measurements at radio and high frequencies; applications in thermometry, mechanics, acoustics, and nuclear physics. *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. 304. Sound (3,0) 3 Cr.

Analysis of sound; reflection and refraction; diffraction and interference; the ear and hearing; musical sound, quality, scales; supersonics. *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. 309. Laboratory in Optics (0,6) 3 Cr.

Principles and practices in making precision measurements using such instruments as the interferometer and spectrometer. *Prerequisite:* Phy. 308, or the equivalent, and calculus.

### PHY. 403. X-Rays (3,0) 3 Cr.

Production and measurement of X-rays; absorption and wave properties; Bragg's Law and crystal lattices; emission and absorption spectra; scattering. *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. 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. 409. Introductory Spectroscopy (2,2) 3 Cr.

Atomic spectra and the development of atomic theory; electron spin and the multiplet structure of line spectra; the periodic system of the elements; spectrographic instruments and their uses. *Prerequisite:* Phy. 111-112, or the equivalent, and calculus.

### 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 in impurity semiconductors with applications to rectifiers and transistors. *Prerequisite:* Phy. 111-112 and Phy. 414, 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, acous-

tics, 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.

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



PHY. 495. Project  
(See Project under Academic Regulations).

PHY. 499. Independent Study  
(See Independent Study under Academic Regulations).

## POLICE SCIENCE

PL. SCI. 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 Police Science program at the two-year college and at SUCB. Required of all Police Science majors. Elective (by consent of instructor) to Social Science majors.

## POLITICAL SCIENCE

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:* Pol. Sc. 103 required of Secondary Social Studies majors. Elective for sophomores, juniors and seniors.

POL. SC. 201. Principles and Problems of International Relations  
(3) 3 Cr.

Factors affecting national power; pressures in the making of national policy; international political system; conduct of foreign relations; international law in war and peace; problems of international organizations. *Classification:* Elective for sophomores, juniors and seniors.

POL. SC. 210. Comparative Government  
(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 for juniors and seniors.

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 the public policy; organization and management in public service; personnel and financial administration. *Classification:* Elective for juniors and seniors.

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 for sophomores, juniors and seniors.

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 for juniors and seniors.

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 for sophomores, juniors and seniors.

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; post Stalinist; post Stalinist revisionism; organization and role of Communist party in relation to other institutions; planned economy; leadership goals. *Classification:* Elective for sophomores, juniors and seniors.

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 for juniors and seniors.

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 for juniors, seniors and graduates.

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 the 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 for sophomores, juniors and seniors.

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 for sophomores, juniors and seniors.

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 the World War II and Chinese Communist Revolution, as well as the governmental structures, party systems and foreign policies of the countries concerned. *Classification:* Elective for juniors and seniors.

P.S. 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. 403. History of Political Theory  
(3) 3 Cr.

Chief modern contributors to the political ideologies of democracy, liberalism, con-

Number in parentheses indicates the class hours per week.



servatism, nationalism, Fascism and Nazism. *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.

## PSYCHOLOGY DEPARTMENT

**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, intelligence and personality. *Classification:* Required of all psychology majors and H.Ec. and I.A. students; elective.

**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 educational 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:* Psychology majors must take three courses from Group B (Psych. 204, 208, 211, 221, 304, 327, 332, 345, 421); elective. *Prerequisite:* Psychology 101.

**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.

**POL. SC. 495. Project (See Project under Academic Regulations).**

**POL. SC. 499. Independent Study (See Independent Study under Academic Regulations).**

**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 parametric and non-parametric techniques. 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:* Psychology 101.

**PSYCH. 208. Basic Concepts of Perception (3) 3 Cr.**

The major facts of perceptual functioning are examined in detail to acquaint the student with current data and theories regarding the various aspects from sensory processes to complex perceptual integrative processes. Emphasis is placed on basic concepts concerning topics such as physiological correlates of perception, empirical laws and principles, theoretical explanations of perceptual processes and their determinants. *Classification:* Psychology majors must take three courses from Group B (Psychology 204, 208, 211, 221, 304, 327, 332, 345, 421); elective. *Prerequisite:* Psychology 101.

**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:* Psychology majors must take three courses from Group B (Psychology 204, 208, 211, 221, 304, 327, 332, 345, 421); elective. *Prerequisite:* Psychology 101.

**PSYCH. 213. Adolescent Psychology (3) 3 Cr.**

This course is designed to examine several theories of development, including Piaget's theory, psychoanalytic theory, and the contributions of learning theory to the understanding of development. Emphasis will be placed on the issues, special problems, and approaches to the study of adolescence. Topics will include physical, emotional and personality changes in adolescence and special problems of adolescents, e.g. vocational choice, search for the self, reactions to social norms, etc. *Classification:* Elective, recommended for non-psychology majors. *Prerequisite:* Psychology 101.

**PSYCH. 221. Comparative Psychology (3) 3 Cr.**

Analysis of instinctive and learned behavior in characteristic animal types, correlating structure and function, with emphasis on fundamental principles of adaption. *Classification:* Elective, Psychology majors must take three courses from Group B (Psych. 204, 208, 211, 221, 304, 327, 332, 345, 421). *Prerequisites:* Psych. 101 or Biol. 111-112 or Biol. 101-102.

**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:* All college elective, recommended for psychology majors. *Prerequisite:* Psychology 101.

**PSYCH. 304. Theories of Learning (3) 3 Cr.**

An examination of the major modern theories of learning including classical, contiguous and operant conditioning, mathematical models, neurophysiological theories and information processing models. *Classification:* Psychology majors must take three courses from Group B (Psych. 204, 208, 211, 221, 304, 327, 332, 345, 421); elective. *Prerequisite:* Psych. 204.

**PSYCH. 311. Abnormal Psychology (3) 3 Cr.**

This course will examine the dimensions, theories, theoretical issues 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:* All college elective. *Prerequisite:* Psych. 101 and 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:* Psychology majors must take three courses from Group B (Psych. 204, 208, 211, 221, 304, 327, 332, 345, 421); 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 uses in psychological

Number in parentheses indicates the class hours per week.



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:* Psychology majors must take three courses from Group B (Psych. 204, 208, 211, 221, 304, 327, 332, 345, 421); elective. *Prerequisite:* 9 hours of psychology including Psychology 204.

**PSYCH. 345. History and Systems of Psychology (3) 3 Cr.**

A systematic study of the historical antecedents of contemporary psychology. *Classification:* Psychology majors must take three courses from Group B (Psych. 204, 208, 211, 221, 304, 327, 332, 345, 421); Elective. *Prerequisite:* Psychology 101 and six additional hours of Psychology.

**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 measurements 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. *Prerequisites:* 9 hours of psychology, including Psych. 206. *Special Note:* Juniors may take Psych. 351 simultaneously with Psych. 206 with permission of the instructor.

**PSYCH. 352. Experimental Psychology (2,2) 3 Cr.**

A continuation of Psychology 351. *Classification:* Required for psychology majors; elective. *Prerequisite:* Psychology 351.

**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. Individual participation in projects investigating specific topics in physiological psychology. *Classification:* Psychology majors must take three courses from Group B (Psych. 204, 208, 211, 221, 304, 327, 332, 345, 421); elective. *Prerequisite:* Psych. 101 and 12 additional hours of Psych. and/or Biology. Permission of instructor.

**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 publications. *Classification:* Required for psychology majors; elective. *Prerequisite:* Psychology 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:* Psychology 352. *Special Note:* May be elected by graduate students.

**PSYCH. 495. Project (See Project under Academic Regulations).**

**PSYCH. 499. Independent Study (See Independent Study under Academic Regulations).**

**SOCIOLOGY—ANTHROPOLOGY DEPARTMENT**

**SOC.-ANTH. 101. Introduction to Sociology-Anthropology (3) 3 Cr.**

Culture and human behavior; formation of personality; nature of social structure, interaction and the satisfaction of human needs; nature of values. *Classification:* Required of all sociology majors. Recommended as first course in sociology or anthropology. *Special Note 1:* May be used for sociology or anthropology credit at the choice of the student. *Special Note 2:* This course was formerly identified as S.S. 101—Man and His Institutions. Students who have passed S.S. 101 may not receive credit for Soc.-Anth. 101.

**SOC. 201. The American Community (3) 3 Cr.**

A number of basic approaches to the study of community will be emphasized. The cultural, ecological, demographic, interactionist and political basis for understanding processes of change and stability of communities in various times and places is included. Selected problems pertinent to urban and metropolitan communities will be analyzed. *Special Note:* Soc.-Anth. 101 is strongly recommended as a prior course.

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

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

**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 Police Science majors. *Special Note:* Soc.-Anth. 101 is strongly recommended as a prior course.

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

**SOC. 303. Social Psychology (3) 3 Cr.**

Motivation and nature of attitudes; attitude change and stability; interpersonal perception and behavior; role prescriptions and role conflict; prejudice; conflict resolution. *Special Note:* Soc.-Anth. 101 is strongly recommended as a prior course.

**SOC. 304. Social Stratification (3) 3 Cr.**

Functions of social stratification; kinds of stratification systems; differences in class interests, values and behaviors; social mobility. *Special Note:* Soc.-Anth. 101 is strongly recommended as a prior course.

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

**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.)

Number in parentheses indicates the class hours per week.



Elective for behavioral science juniors and seniors. *Special Note:* Soc.-Anth. 101 is strongly recommended as a prior course.

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

**SOC. 308. Group Dynamics (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. *Special Note:* Soc.-Anth. 101 is strongly recommended as a prior course.

**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. *Special Note 1:* May be elected by graduate students. *Special Note 2:* Soc.-Anth. 101 is strongly recommended as a prior course.

**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. Elective for juniors and seniors. *Prerequisite:* Nine hours in Sociology. *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. *Special Note 1:* May be elected by graduate students. *Special Note 2:* Soc.-Anth. 101 is strongly recommended as a prior course.

**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. *Classification:* Optional (with Soc. 403); requirement for sociology majors. Elective for sophomores, juniors, seniors, and 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. *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. *Special Note 3:* Soc.-Anth. 101 is strongly recommended as a prior course.

**SOC. 408. 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. *Special Note 1:* May be elected by graduate students. *Special Note 2:* Soc.-Anth. 101 is strongly recommended as a prior course.

**SOC. 409. Seminar in Sociology (3) 3 Cr.**  
Research in selected area(s) of sociology. *Classification:* Required for sociology majors. Elective for behavioral science seniors. *Prerequisite:* Soc.-Anth. 101 and nine additional hours in sociology.

**SOC. 410. Seminar in Alcoholism (3) 3 Cr.**  
Lectures by prominent scholars in the field of alcoholism concerning the uses and effects of alcohol in American society. Discussion groups with professional leaders concerning various aspects of alcohol usage. Audio-visual materials will be introduced and each student will organize and pursue such original research as may suit his interests. *Prerequisite:* Senior or graduate

standing. *Special Note 1:* May be elected by graduate students. *Special Note 2:* Soc.-Anth. 101 is strongly recommended as a prior course.

**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. *Special Note 1:* May be elected by graduate students. *Special Note 2:* Soc.-Anth. 101 is strongly recommended as a prior course.

## ANTHROPOLOGY

**ANTH.-SOC. 101. Introduction to Anthropology-Sociology (3) 3 Cr.**

Culture and human behavior; formation of personality; nature of social structure, interaction and the satisfaction of human needs; nature of values. *Classification:* Required of all sociology majors. Recommended as first course in sociology or anthropology. *Special Note 1:* May be used for sociology or anthropology credit at the choice of the student. *Special Note 2:* This course was formerly identified as S.S. 101 Man and His Institutions. Students who have passed S.S. 101 may not receive credit for Anth.-Soc. 101.

**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:* Anth.-Soc. 101 is strongly recommended as a prior course.

**ANTH. 202. Survey of 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. *Special Note:* Anth.-Soc. 101 is strongly recommended as a prior course.

**ANTH. 203. Physical Anthropology (3) 3 Cr.**  
Examination of physical evolution of primates and humans; physical variations in

**SOC. 412. Soviet Society (3) 3 Cr.**

Study of Soviet society and its institutions; race and ethnic relations; social stratification; crime and delinquency; future trends and social change. *Special Note 1:* May be elected by graduate students. *Special Note 2:* Soc.-Anth. 101 is strongly recommended as a prior course.

**SOC. 495. Project**  
(See Project under Academic Regulations).

**SOC. 499. Independent Study**  
(See Independent Study under Academic Regulations).

human populations; relationship between physical attributes and cultural patterns; genetic basis of human evolution and variation; ecological distribution of human physical varieties. *Special Note:* Anth.-Soc. 101 is strongly recommended as a prior course.

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

Overview of racial and linguistic classifications, prehistory; characterization of the aboriginal culture areas of North America, study of representative tribal groups; conditions of conflict and change since 1492. *Special Note:* Anth.-Soc. 101 is strongly recommended as a prior course.

**ANTH. 302. Folk Cultures 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.-Soc. 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 classifications. Aboriginal culture areas are defined and characterized; discussion of culture change and present-day conditions of



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

**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 developments in local areas; secondary emphasis on archeological method as a source of history. *Classification:* Recommended for Latin American Studies majors. *Special Note:* Anth.-Soc. 101 is strongly recommended as a prior course.

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

Comparisons of various cultures of Africa, with special emphasis on sub-Saharan Africa; migration theories; geographical contexts; linguistic and ethnological distinctions; social structures. *Special Note:* Anth.-Soc. 101 is strongly recommended as a prior course.

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

An intensive comparative approach to the content and processes of culture; problems in the interpretation of cultural materials; cross-disciplinary approaches; applied anthropology. *Special Note 1:* May be elected by graduate students. *Special Note 2:* Anth.-Soc. 101 is strongly recommended as a prior course.

**ANTH. 403. Language and Culture** (3) 3 Cr.

The relationship between language and cul-

ture: (a) in descriptive or structural studies — language as a product of culture and a shaper of culture; and (b) in historical studies — linguistic and cultural change, language as a tool for studying history; evolution of language and culture. *Special Note 1:* May be elected by graduate students. *Special Note 2:* Anth.-Soc. 101 is strongly recommended as a prior course.

**ANTH. 404. Peasant (Underdeveloped) Societies**  
(3) 3 Cr.

A study of the peasant societies of the world in a cross-cultural perspective. Selected samples from each continent will be studied. *Special Note 1:* May be elected by graduate students. *Special Note 2:* Anth.-Soc. 101 is strongly recommended as a prior course.

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

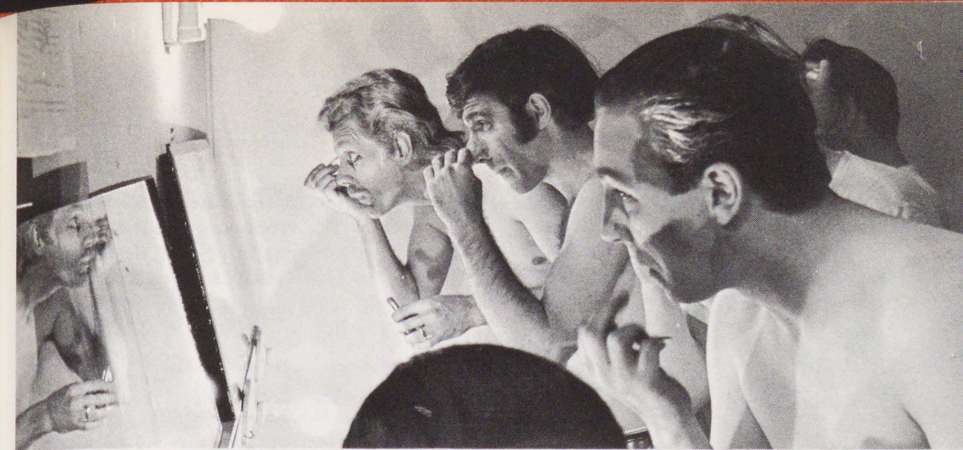
Study of the important contribution to the development of Anthropological theory from the preanthropological philosophers as Locke to the present. Included among the theorists studies will be Darwin, Tylor, Boas, Kroeber, Rivers, Malinowski, Levi-Strauss, and Sapir. *Special Note 1:* May be elected by graduate students. *Special Note 2:* Anth.-Soc. 101 is strongly recommended as a prior course.

**ANTH. 495. Project**

(See Project under Academic Regulations).

**ANTH. 499. Independent Study**

(See Independent Study under Academic Regulations).



## SPEECH AND THEATRE ARTS DEPARTMENT

**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. *Prerequisites:* SP. & T.A. 105 or 202.

**SP. & T.A. 106. Introduction to Theatre Arts**  
(3) 3 Cr.

A study of theatre and its relationship to society; analysis of dramatic structure, acting methods, technical procedures. *Classification:* Elective. *Prerequisite:* None.

**SP. & T.A. 200. Voice and Diction** (3) 3 Cr.

A comprehensive study of the speech mechanism with emphasis on phonetics. *Classification:* Elective. *Prerequisite:* SP. & T.A. 105.

**SP. & T.A. 202. Public Speaking** (3) 3 Cr.

Organization, delivery and evaluation of the public speech. *Classification:* Elective.

**SP. & T.A. 207. Play Production** (3) 3 Cr.

Play selection and analysis, casting, rehearsals, student productions. *Classification:* Elective.

**SP. & T.A. 208. Technical Theatre** (3) 3 Cr.

Establishes the relationship of the play to the various aspects of technical production; practical experience in all aspects of technical theatre. *Classification:* Elective. *Prerequisite:* SP. & T.A. 106, or consent of department.

**SP. & T.A. 209. Discussion** (3) 3 Cr.

An inter-disciplinary approach to discussion, with emphasis upon group dynamics. Spe-

cial consideration given to the nature and analysis of the discussion processes. *Classification:* Elective. *Prerequisites:* SP. & T.A. 105 or 202.

**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 or 202.

**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.

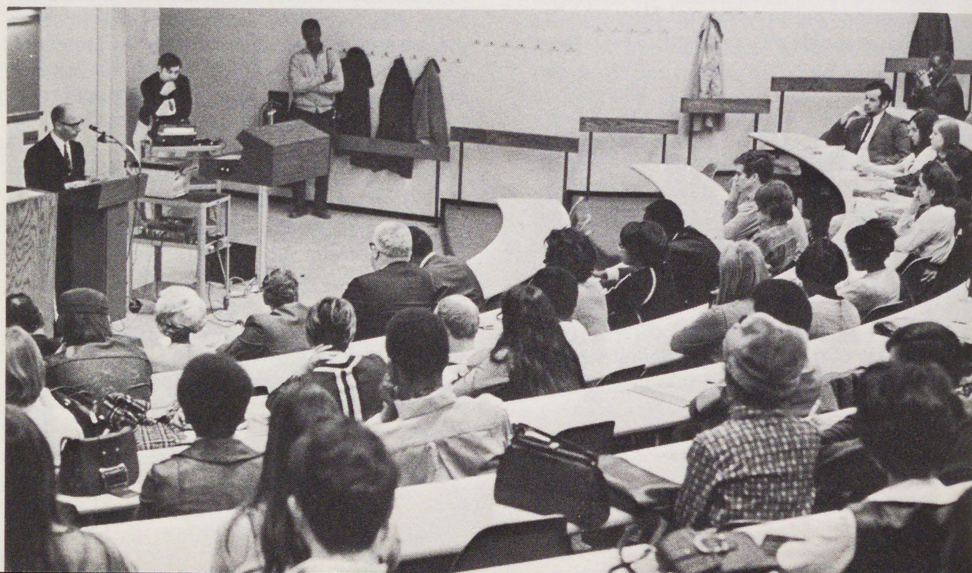
Costuming as an integral element of theatre art: nature, function, and history of costume; practical problems of costuming. *Classification:* Elective. *Prerequisite:* SP. & T.A. 106 or consent of department.

**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 examination of 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 lecture-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 chief theories of public address; reading and analysis of major ceremonial, political, religious, and legal speeches drawn from historical and contemporary sources. *Classification:* Elective. *Prerequisites:* SP. & T.A. 105 or 202 or consent of department.

**SP. & T.A. 326. Acting: Theory and Practice (3) 3 Cr.**  
An examination of the actor's art, its contribution to culture, 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 202.

**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. 105 or 320 or equivalents.

**SP. & T.A. 450. Directing (3) 3 Cr.**  
An examination of the responsibilities of the play director; development of the student's ability to achieve the goals of good play production. *Classification:* All college elective. *Prerequisite:* SP. & T.A. 326, Acting; SP. & T.A. 208, Technical Theatre.

**SP. & T.A. 485. History and Criticism of American Public Address (3) 3 Cr.**  
A study of major American orators in the areas of political, religious, and reform speaking from 1620 to 1968. *Classification:* Designed primarily for students in American Studies and Speech and Theatre Arts. *Prerequisites:* SP. & T.A. 105 or 202.

**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).

## LATIN AMERICAN STUDIES

**LAS. 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.

**LAS. 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 interests together with appropriate seminars on location. *Classification:* Required of participants in the Costa Rican Program.

**LAS. 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).







## PROFESSIONAL STUDIES

The Faculty of Professional Studies includes Elementary Education, Secondary Education and Exceptional Children Education and 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, Child Study Center and Student Teaching Program are under the direction of the Dean of Professional Studies and the activities and offerings in these areas are carefully integrated into the over-all program.

A Coordinating Committee for Professional Studies gives 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.

## 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 minimum of eighty clock hours in teaching the selected academic subject in the early secondary grades.



ELEMENTARY EDUCATION CURRICULUM

	Sem. Hours	Clock Hours
Total General-Liberal Requirements (See Page 68)	60	60
<b>Cognate Electives</b>		
By advisement according to area of academic concentration	24	24
<b>Professional Requirements</b>		
Ed. 101-102 Human Behavior and Development	6	8
Ed. 201 School and Society	3	3
Ed. 202 Teaching and Language Arts	3	3
Ed. 301 Teaching Social Studies, Science and Mathematics	6	9
Ed. 401 Practicum in Elementary School Teaching	12	30
Ed. 402 Seminar in Education	3	3
	33	57
Physical Education	4	4
Free Electives	3	3
Total Hours	124	148

EDUCATION

ED. 101. Human Behavior and Development  
(4) 3 Cr.

Basic concepts, contemporary theories, issues, and research on human learning, behavior, and development with emphasis on physical growth, motor development, and cognitive development of children, and adolescents; educational and social implications; directed observations. *Classification:* Required of Art sophomores, Elementary Education, and Exceptional Education freshmen majoring in Mental Retardation, Physical Handicap, Learning and Behavioral Disorders.

ED. 102. Human Behavior and Development  
(4) 3 Cr.

Contemporary theories, issues, and research on human learning, behavior, and develop-

ment with emphasis on social development, emotional development and personality of children and adolescents; educational and social implications; directed observations. *Classification:* Required of Art sophomores, Elementary Education, and Exceptional Education freshmen majoring in Mental Retardation, Physical Handicap, Learning and Behavioral Disorders. *Prerequisite:* Ed. 101.

ED. 103. Human Behavior and Development  
(4) 3 Cr.

Processes of development and learning in childhood and preadolescence; learning theory and application; motivation; preludes to adolescence; directed observations. *Classification:* Required of Secondary Eng., Math., S.S., Sci., and F.L. sophomores.

ED. 104. Human Behavior and Development  
(4) 3 Cr.

Processes of development and learning in adolescence; effects of physique, family, peer group, school, neighborhood; problems of adolescents; dropouts; deviates; evaluation; theory and application; directed observations. *Classification:* Required of Secondary Eng., Math., S.S., Sci., and F.L., sophomores. *Prerequisite:* Ed. 103.

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. 101, 102.

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 and Child Study Center; laboratory experience for developing specific professional competencies. *Classification:* Required of E.E. and Ex.Ed. sophomores in Mental Retardation, Physical Handicap, Learning and Behavioral Disorders. *Prerequisite:* Ed. 101, 102, 201.

ED. 203. Educational Psychology (4) 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 H.Ec. and I.A. sophomores. Elective for sophomores, juniors, and seniors. *Prerequisite:* Psych. 101, H.Ec. 109; or Ed. 101, 102; or Ed. 103, 104.

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; evaluating pupil progress; further experience in elementary school teaching; observation and classroom participation. *Classification:* Required of E.E. juniors. *Prerequisite:* Ed. 101, 102, 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. 101, 102, 201, 202; cumulative average of 2.00 or higher. *Special Note:* One-half semester.

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; introduction to classroom teaching; observation and participation in the secondary school; class discussion; conferences with instructors and classroom teachers. *Classification:* Required of juniors or seniors majoring in secondary school English. *Prerequisite:* Ed. 103, 104; cumulative average of 2.00 or higher; approval by English Department chairman.

ED. 307. Methods and Materials in Teaching  
Secondary School Mathematics  
(3) 3 Cr.

Objectives of secondary education; secondary curriculum; adaptation of programs to adolescent needs; interrelationships of elementary and secondary school programs; planning and presenting classroom learning experiences for students; introduction to classroom teaching; secondary school observations and participation. *Classification:* Required of juniors or seniors majoring in secondary school Mathematics. *Prerequisite:* Ed. 103, 104; cumulative average of

Number in parentheses indicates the class hours per week.



2.00 or higher; approval by Mathematics Department chairman.

**ED. 308. Methods and Materials in Teaching Secondary School Science (4) 3 Cr.**

Objectives of secondary education; adaptation of programs to adolescent needs; interrelationships of elementary and secondary school programs; introduction to classroom teaching in the field of secondary science; teacher-pupil relationships; problems involved in laboratory and demonstration experiences; planning and presenting classroom learning experiences for students, including laboratory experiences. *Classification:* Required of juniors or seniors majoring in secondary school Science. *Prerequisite:* Ed. 103, 104; cumulative average of 2.00 or higher; approval by the General Science Department chairman.

**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 or seniors majoring in secondary school Social Studies. *Prerequisite:* Ed. 103, 104; cumulative average of 2.00 or higher; approval by the Coordinator of Social Sciences Student Teaching.

**ED. 310. Methods and Materials in Teaching Foreign Languages in the Secondary School (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. 103, 104; cumulative average of 2.00 or higher; approval by Foreign Language Department chairman.

**ED. 400. Educational Statistics (3) 3 Cr.**

Terminology and notation of common statistical concepts; computation of elemen-

tary educational statistics; application of statistical methods to educational and psychological problems; interpretation of educational and psychological data. *Classification:* Elective for juniors and seniors. *Special Note:* May be elected by graduate students.

**ED. 401. Practicum in Teaching (30) 15 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 program. *Classification:* Required of E.E. juniors or seniors. *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 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).

**ED. 402. Seminar in Education (3) 3 Cr.**

Nature and function of a philosophy of education; scientific movement in education; research methods and techniques; crucial issues in education; problems of beginning teachers. *Classification:* Required of E.E. seniors. *Prerequisite:* Ed. 401.

**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 the first semester of the senior year.

**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 or 311; 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; passing grade in Eng. 101-102, or equivalent; if referred, satisfactory completion, or exemption from Ex.Ed. 100 (Student Speech Clinic).

**ED. 406. Practicum in Teaching English in the Secondary School (30) 12 Cr.**

Full-time teaching under supervision at least five days per week; group and individual conferences at college two days during each of two eight-week teaching 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 English. *Prerequisite:* Ed. 306; grade of "C" or higher in Ed. 306; 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 English Department chairman.

**ED. 407. Practicum in Teaching Mathematics in the Secondary School (30) 12 Cr.**

Teaching under supervision at least five

days per week for two eight-week assignments; 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 Mathematics. *Prerequisite:* Ed. 307; grade of "C" or higher in Ed. 307; 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); approved by Mathematics Department chairman.

**ED. 408. Practicum in Teaching Science in the Secondary School (30) 12 Cr.**

Teaching under supervision at least five days per week for two eight-week assignments; 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:* Ed. 308; grade of "C" or higher in 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 in 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.

**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 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 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.

**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:* Electives for juniors and seniors. *Special Note:* May be elected by graduate students.

**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. 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 educational 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. 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.

**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:* Elective for juniors and seniors. *Prerequisite:* Ed. 202 or equivalent. *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. 101, 102, 201 and 202. *Special Note:* May be elected by graduate students in the teaching of young children.

**ED. 418. Audio-Visual 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. *Classification:* Elective for sophomores, juniors and seniors. *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:* Ed. 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. *Classification:* Elective for juniors and seniors. *Prerequisite:* Ed. 202 and student teaching. *Special Note:* May be elected by graduate students.

**ED. 421. Workshops in the Teaching of Reading in the Elementary School (2) 2 Cr.**

Objectives of an effective reading program; reading in relation to language arts; principles of child development and learning and their relation to reading; the developmental reading program; development of reading skills; development of vocabulary; reading materials; evaluation of growth in and through reading. *Classification:* Elective for normal school graduates and for students working for certification. *Special Note:* Not to be taken for credit after completion of Ed. 414.

**ED. 423. Comparative Educational Systems of Western Europe 8 Cr.**

International living tour; approximately eight weeks spent in Western Europe; home-

stay 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 applied 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.

**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, consumer education, and leisure time activities. *Classification:* Electives for juniors and seniors. *Prerequisite:* Ed. 101, 102, 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. 101, 102, 201 and 202. *Special Note:* May be elected by graduate students.

**ED. 428. Sociodrama and Role Playing in Education 3 Cr.**

Theory and practice of sociodramatic principles and techniques in the educational setting. Laboratory experience. Elective.



**ED. 430. Leadership Experience—Outdoor  
Education Field Study 6 Cr.**

Practicum in trip planning and field study, organization and leadership including outdoor teaching methods and techniques, outdoor living skills, and evaluative procedures. Three of the six weeks devoted to this practicum will be a travel-study-camp field experience with teen-age children. *Classification:* Elective for seniors and graduate stu-



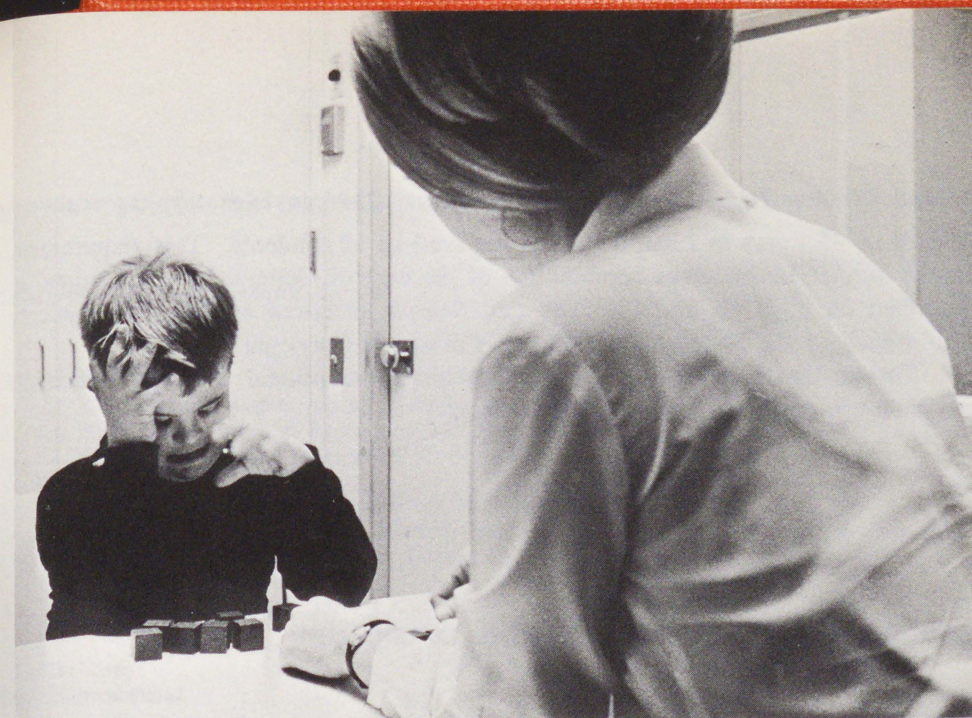
dents. *Prerequisite:* Previous camping and/or outdoor education experience. *Special Note:* Permission of instructor to be obtained before enrolling in course.

**ED. 495. Project**

(See Project under Academic Regulations).

**ED. 499. Independent Study**

(See Independent Study under Academic Regulations).



**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 75 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 Science 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

	<i>Sem. Hours</i>	<i>Clock Hours</i>
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. 101-102	Human Behavior and Development	6	8
Ed. 201-202	School and Society—Teaching Language Arts	6	7
Ed. 305	Observation-Participation with Typical Children	3	9
Ed. 414	Teaching Reading	3	3
Ed. 404	Practicum in El. Ed.	6	30
		24	57

Electives in Arts and Science	12	12
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Physical Education	4	4
Total Hours	124	191

### MENTAL RETARDATION CURRICULUM

	<i>Sem. Hours</i>	<i>Clock Hours</i>
Total General-Liberal Requirements (See Page 68)	60	60

#### 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	9
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	30
I.A. 305	Creative Arts for M. R. Children		
OR			
Art. 217	Workshop in Crafts I	3	3
		24	58

#### Professional Field

Ed. 101-102	Human Behavior and Development	6	8
Ed. 201-202	School and Society—Teaching Language Arts	6	7
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	9
Ed. 404	Practicum in El. Ed.	6	30
		24	57

Electives in Arts and Science	12	12
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Physical Education	4	4
Total Hours	124	191

### PHYSICAL HANDICAP CURRICULUM

Total General-Liberal Requirements (See Page 68)	60	60
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#### Major Field

Ex. Ed. 101	Nature and Needs of Exceptional Children	3	4
Ex. Ed. 209	Psychology of Exceptional Children	3	4
Ex. Ed. 403	Mental Measurement	3	4
Ex. Ed. 404	Curriculum Practices for the Mentally Retarded	3	4
Ex. Ed. 417	Curriculum Practices for the Physically Handicapped	3	4
Ex. Ed. 311	Observation-Participation with the Physically Handicapped	3	9
Ex. Ed. 421	Practicum in Physically Handicapped	6	30
I. A. 305	Creative Arts for Mentally Retarded Children or	3	3
Art. 217	Workshop in Crafts I		
		27	62



		Sem. Hours	Clock Hours
<b>Professional Field</b>			
Ed. 101-102	Human Behavior and Development .....	6	8
Ed. 201-202	School and Society—Teaching Language Arts .....	6	7
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	9
Ed. 404	Practicum in El. Ed. ....	6	30
		24	57
<b>Electives in Arts and Science</b> .....			
		12	12
<b>Physical Education</b> .....			
		4	4
	<i>Total Hours</i> .....	127	195

#### COMMUNICATION DISORDERS CURRICULUM

<b>Total General-Liberal Requirements</b> .....	60	60
<b>(See Page 68)</b>		

#### Major Field

Ex. Ed. 101	Nature and Needs of Exceptional Children .....	3	4
Ex. Ed. 204	Science of Speech and Hearing .....	3	4
Ex. Ed. 205	Phonetics .....	3	4
Ex. Ed. 206	Bases of Speech .....	3	3
Ex. Ed. 414	Audiology I .....	3	5
Ex. Ed. 306	Speech Pathology I .....	3	5
Ex. Ed. 307	Speech Pathology II .....	3	4
Ex. Ed. 416	Stuttering .....	3	4
Ex. Ed. 415	Speech, Reading and Auditory Training .....	3	5
Ex. Ed. 411	Seminar in Speech and Hearing .....	3	3
Ex. Ed. 402	Clinical Procedures and Organization of Schools and Clinics .....	4	18
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. 101-102	Human Behavior and Development .....	6	8
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<b>Electives in Arts and Science</b> .....			
		12	12

<b>Physical Education</b> .....			
		4	4
	<i>Total Hours</i> .....	124	177

#### 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. Observation, one hour per week. *Classification:* Required of freshmen 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 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 sophomores 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

Number in parentheses indicates the class hours per week.



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. 306.

**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 juniors in Physical Handicap. *Prerequisite*: Ex. Ed. 417 and cumulative average of 2.00 or higher.

**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.

**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 general college achievement in the speech and hearing 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 of basic school subjects. *Classification*: Required for juniors and seniors majoring in the program — the teaching of the learning and behaviorally disordered. *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.

**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. 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.

**EX.ED. 416. Stuttering (5) 3 Cr.**

Therapeutic procedures for the treatment of stuttering. Tests used in diagnosis and evaluation of the problem. Parent counseling 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. 306.

**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.

**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; some phonetic and speech science; observation of children presenting various speech problems. *Classifications*: 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.

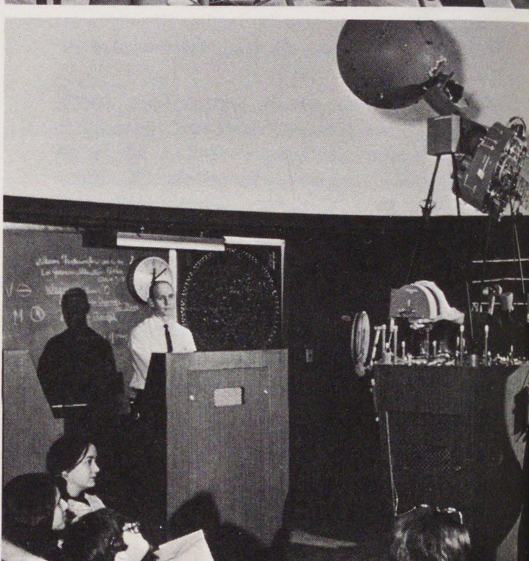
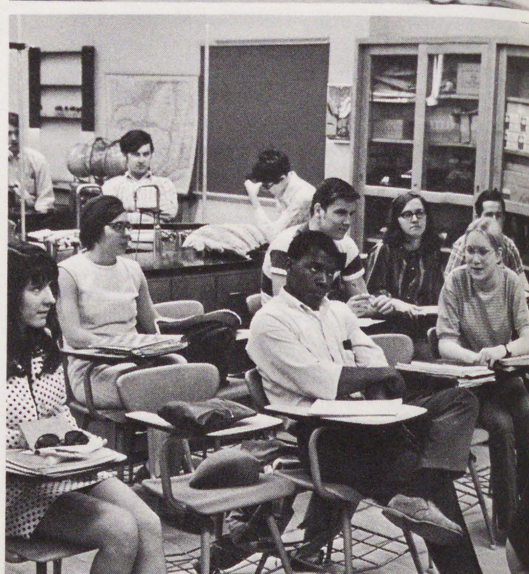
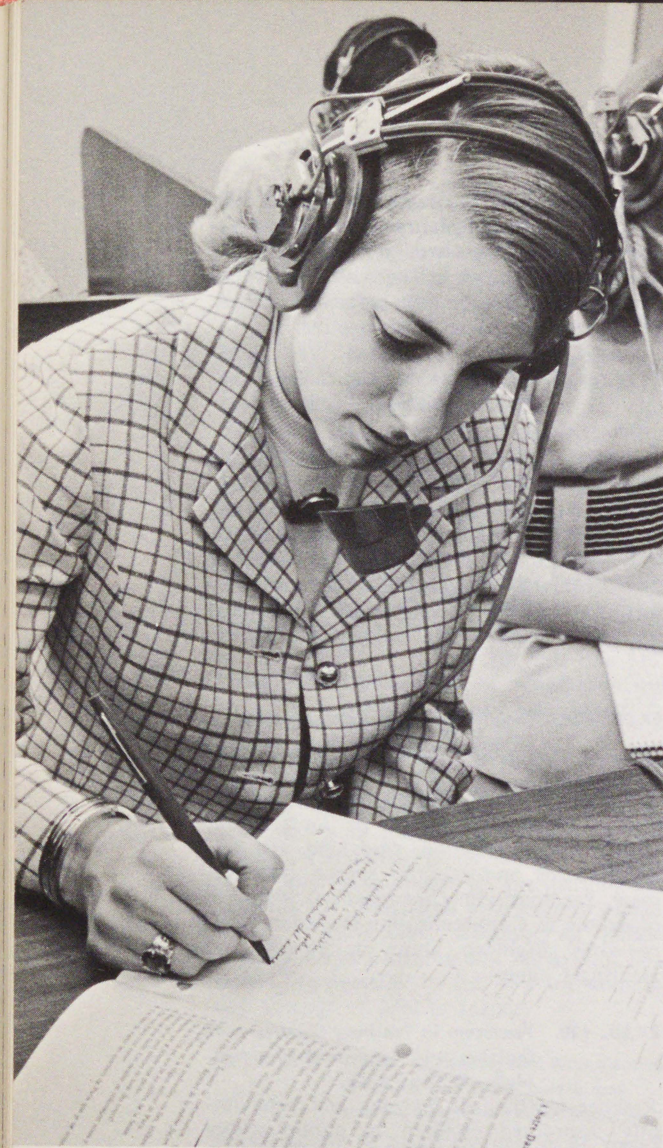
**EX.ED. 430. Practicum in Teaching Children with Learning and Behavioral Disorders (daily, ½ Sem.) 6 Cr.**

Practice teaching of learning and behaviorally disordered children in public school special classes or residential settings. *Classification*: Required of upper seniors in Learning and Behavioral Disorders. *Prerequisite*: Ex.Ed. 210, Ex.Ed. 313 and Ed. 305. Cumulative average of 2.00 or higher in general college achievement and in the professional sequence. 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).





## Secondary Education

Graduates of the nine 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, Science (Biology, Chemistry, Earth Science, or Physics), and Social Studies.

The program in secondary English prepares teachers of language and literature. Thirty-nine semester hours of English and six semester hours of Speech and Theatre Arts are required.

The program in secondary French or Spanish requires thirty semester hours in the major language. Additional elective offerings are available in German, Italian, and Russian. Students entering the program for teachers of Foreign Languages in the Secondary School should present at least two years of high school preparation in the language of their choice. Ordinarily, one year of high school language preparation will be accepted as equivalent to one semester of college study.

The program in secondary Mathematics prepares for teaching the mathematics of grades 7-12. It requires, as undergraduate study, twelve semester hours of Analytic Geometry and Calculus and three semester hours each of Sets and Logic, Modern Algebra or Linear Algebra and Modern Geometry. The student selects courses from upper division electives according to the secondary education Mathematics curriculum to fulfill remainder of thirty-six hours for the major.

The program in secondary Science prepares teachers of Biology, Chemistry, Earth Science, and Physics. Twenty-six to thirty-six semester hours of study in one of the sciences provides provisional certification to teach that specific science and General Science as well.

The program in secondary Social Studies requires a major of thirty-six semester hours.



# SECONDARY EDUCATION BIOLOGY CURRICULUM

	Sem. Hours	Clock Hours
Total General-Liberal Requirements (See Page 68)	60	60
<b>Major Field</b>		
Biol. 111-112 General Biology	6-8	14
Biol. 203 Genetics	4	6
Biol. 301 Physiology	4	6
Biol. 315 Ecology	4	5
Biol. Electives	10-12	10-12
	30	42
<b>Professional Requirements</b>		
Ed. 103-104 Human Behavior and Development	6	8
Ed. 308 Methods and Materials in Teaching Secondary School Science	3	4
Ed. 403 Historical and Philosophical Forces Influencing Secondary Education	3	3
Ed. 408 Practicum in Teaching Science in the Secondary School	12	30
	24	45
Free Electives	6-30	6
<b>Physical Education</b>	4	4
Total Hours	124	157

# SECONDARY EDUCATION CHEMISTRY CURRICULUM

Total General-Liberal Requirements (See Page 68)	60	60
<b>Major Field</b>		
Chem. 111-112 General Chemistry	8	12
Chem. 201-202 Organic Chemistry	8	12
Chem. 301 Analytical Chemistry	3	7
Chem. 305-306 Physical Chemistry	8	12
Chemistry Elective	3	3-7
	30	46-50
<b>Professional Requirements</b>		
Ed. 103-104 Human Behavior and Development	6	8
Ed. 308 Methods and Materials in Teaching Secondary School Science	3	4
Ed. 403 Historical and Philosophical Forces Influencing Secondary Education	3	3
Ed. 408 Practicum in Teaching Science in the Secondary School	12	30
	24	45

	Sem. Hours	Clock Hours
Free Electives	6	6
<b>Physical Education</b>	4	4
Total Hours	124	160-164

# SECONDARY EDUCATION EARTH SCIENCE CURRICULUM

Total General-Liberal Requirements (See Page 68)	60	60
<b>Major Field</b>		
Geos. 121 Earth Science I	3	4
Geos. 122 Earth Science II	3	4
Geos. 201 Geomorphology	3	4
Geos. 211 Elementary Oceanography	3	4
Geos. 231 Descriptive Astronomy: Solar System	3	4
Geos. 232 Descriptive Astronomy: Universe	3	4
Geos. 241 Meteorology	3	4
Geos. 242 Climatology	3	4
Geos. 302 Paleontology	3	4
Geos. 303 Mineralogy	3	4
plus 2 courses from the following:	6	8
Geos. 102 Historical Geology		
Geos. 301 Stratigraphy		
Geos. 401 Petrology		
Geos. 402 Structural Geology		
Geos. 405 Geology of North America		
Geos. 411 Advanced Oceanography		
	36	48
<b>Professional Requirements</b>		
Ed. 103-104 Human Behavior and Development	6	8
Ed. 308 Methods and Materials in Teaching Secondary School Science	3	4
Ed. 403 Historical and Philosophical Forces Influencing Secondary Education	3	3
Ed. 408 Practicum in Teaching Science in the Secondary School	12	30
	24	45
<b>Physical Education</b>	4	4
Total Hours	124	157



SECONDARY EDUCATION ENGLISH CURRICULUM

	Sem. Hours	Clock Hours
Total General-Liberal Requirements (See Page 68)	60	60
Major 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
Eng. 427 Foundations of Language	3	3
World Literature Electives	6	6
English Electives	6	6
	39	39
Professional Requirements		
Ed. 103-104 Human Behavior and Development	6	8
Ed. 306 Methods and Materials in Teaching English	3	4
Ed. 403 Historical and Philosophical Forces Influencing Secondary Education	3	3
Ed. 406 Practicum	12	30
	18	37
Free Electives	3-27	3-27
Physical Education	4	4
Total Hours	124	143

SECONDARY EDUCATION FRENCH AND SPANISH CURRICULA

Total General-Liberal Requirements (See Page 68)	60	60
Major 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
Professional Requirements		
Ed. 103-104 Human Behavior and Development	6	8
Ed. 310 Methods and Materials in Teaching Secondary School Foreign Language	3	4
Ed. 403 Historical and Philosophical Forces Influencing Secondary Education	3	3
Ed. 413** Practicum in Teaching Foreign Language in the Secondary School	12	30
	24	43

\*Required before student teaching.

\*\*Sp. or Fr. 305 required prior to student teaching.

	Sem. Hours	Clock Hours
Free Electives	6-30	6
Physical Education	4	4
Total Hours	124	143

SECONDARY EDUCATION MATHEMATICS CURRICULUM

Total General-Liberal Requirements (See Page 68)	60	60
Major Field		
Math. 151 Sets and Logic	3	3
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 Advanced Calculus I	3	3
Fifteen hours of mathematics selected according to the plan below	15	15
	36	36

Fifteen 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. 413 Applied Analysis	3	3
Math. 415 Mathematical Methods in Applied Mathematics	3	3
Math. 418 Advanced Calculus II	3	3
Math. 461 Numerical Analysis	3	3
GROUP 2		
Math. 303 Linear Algebra	3	3
Math. 351 Elementary Theory of Numbers	3	3
Math. 431 Mathematical Logic	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. 495 Project	3	3
Math. 499 Independent Study	3	3

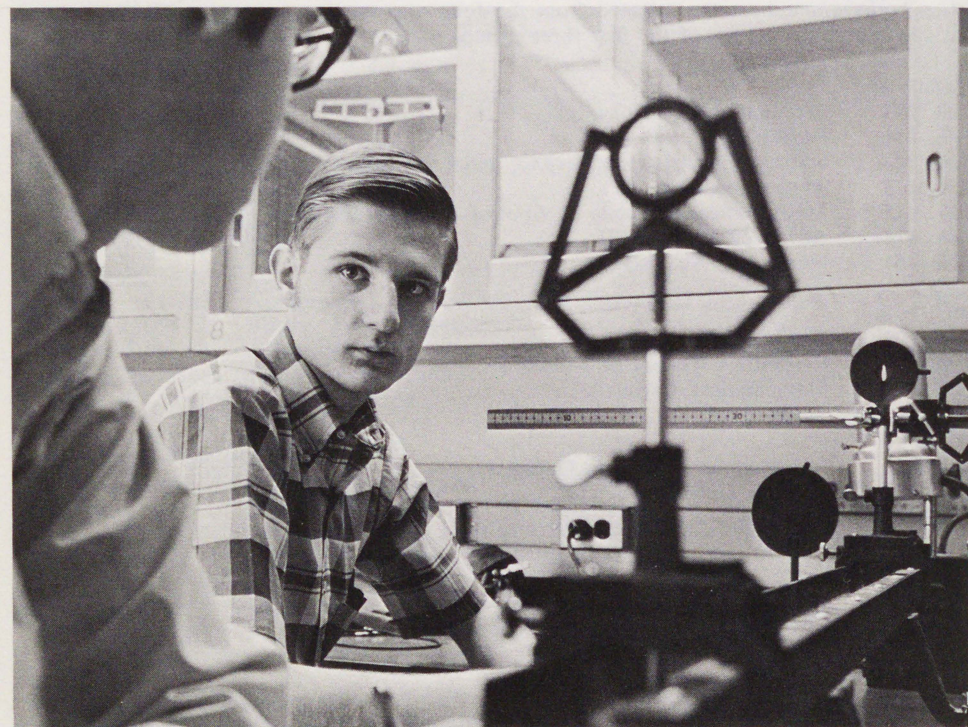
\*New courses will be added to these areas once they are approved by the College.



		<i>Sem. Hours</i>	<i>Clock Hours</i>
<b>Professional Requirements</b>			
Ed. 103-104	Human Behavior and Development .....	6	8
Ed. 307	Methods and Materials in Teaching Secondary School Mathematics .....	3	4
Ed. 403	Historical and Philosophical Forces Influencing Secondary Education .....	3	3
Ed. 407	Practicum in Teaching Mathematics in the Secondary School .....	12	30
		<u>24</u>	<u>45</u>
<b>Free Electives</b> .....		0-24	0-24
<b>Physical Education</b> .....		4	4
<i>Total Hours</i> .....		124	145

#### SECONDARY EDUCATION PHYSICS CURRICULUM

<b>Total General-Liberal Requirements</b> .....	60	60
(See Page 68)		



172

		<i>Sem. Hours</i>	<i>Clock Hours</i>
<b>Major Field</b>			
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
		<u>26</u>	<u>31</u>

<b>Professional Requirements</b>			
Ed. 103-104	Human Behavior and Development .....	6	8
Ed. 308	Methods and Materials in Teaching Secondary School Science .....	3	4
Ed. 403	Historical and Philosophical Forces Influencing Secondary Education .....	3	3
Ed. 408	Practicum in Teaching Science in the Secondary School .....	12	30
		<u>24</u>	<u>45</u>
<b>Free Electives</b> .....		10-34	10-34

<b>Physical Education</b> .....	4	4
<i>Total Hours</i> .....	124	150

#### SECONDARY EDUCATION SOCIAL STUDIES CURRICULUM

<b>Total General-Liberal Requirements</b> .....	60	60
(See Page 68)		

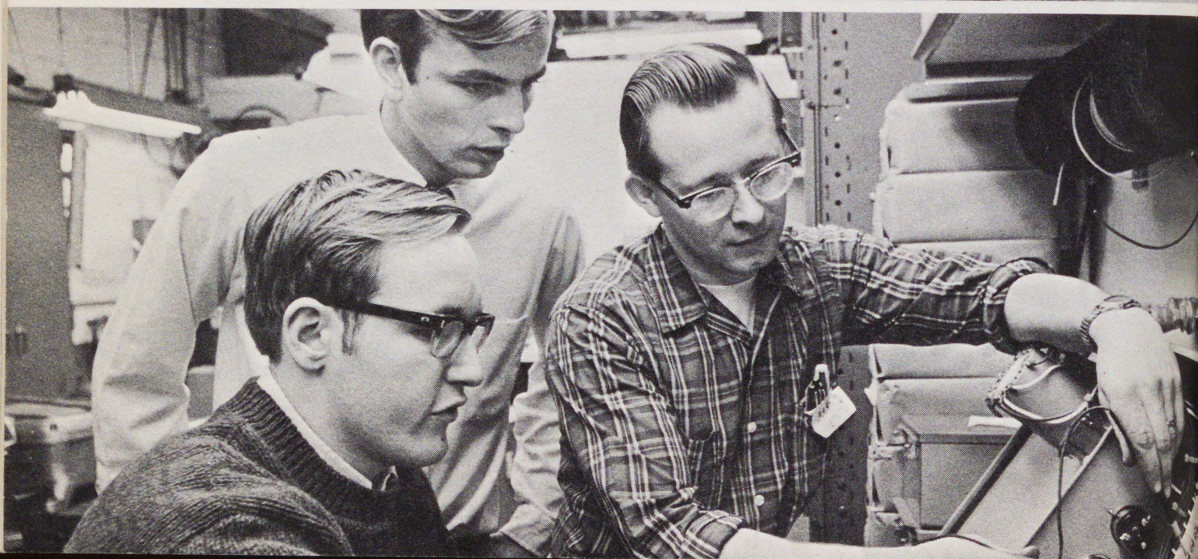
<b>Major Field</b>			
Hist. 206	Foundations of Western Civilization .....	3	3
Econ. 201 or 202	Principles of Economics .....	3	3
P.S. 103	American Political Institutions and Problems .....	3	3
Geog. 101	Elements of Physical Geography or		
Geog. 201	General Geography I .....	3	3
History or S.S. Electives (by advisement) .....		21	21
Hist. or S.S. Seminar .....		3	3
		<u>36</u>	<u>36</u>

<b>Professional Requirements</b>			
Ed. 103-104	Human Behavior and Development .....	6	8
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
		<u>24</u>	<u>45</u>
<b>Free Electives</b> .....		0-24	0-24

<b>Physical Education</b> .....	4	4
<i>Total Hours</i> .....	124	145

173





## APPLIED SCIENCE AND TECHNOLOGY

Applied Science and Technology includes the divisions of Home Economics, Industrial Arts Education, Vocational-Technical Education and Industrial Technology and offers courses in Safety and 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 is offered by the Divisions of Home Economics, Industrial Arts and Vocational-Technical Education and graduates are certified to teach in their area of specialization in the public schools of New York. In addition to the Education degree, the Home Economics Division offers a Bachelor of Science degree program with majors in Home Economics and Dietetics which are designed to meet the needs of business and social service agencies. The Bachelor of Science degree with a major in Industrial Technology prepares graduates for middle management positions in business and industry and is designed for transfers 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."

Elective courses which may be selected by students from all divisions are also offered in the Division of Applied Science and Technology.

## Home Economics

In the departments\* of this Division there are programs of study 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.

The Division welcomes transfer applicants, and it is relatively easy to fit the courses taken in a liberal arts and science program into the degree requirements of this Division as well as courses taken by students in professional programs such as food service administration, community service, and business administration.

\*This Division is in the process of departmentalizing. The word department has been used to indicate the areas of specialization within the Division.



ENVIRONMENTAL AND CONSUMER STUDIES

This department recognizes that every individual creates an environment by the clothing he wears, the home he occupies, and the way he furnishes his home. Students concentrating in this area enter the fields of design, advertising, retailing, and consumer education with department stores, manufacturers, communication media: newspapers, magazines, radio, TV; and governmental agencies engaged in research and control. The special contribution of these students to their fields is based on their understanding of the distribution chain from producer to consumer, their emphasis on the consumer's point of view, and their knowledge of the structural, functional and aesthetic qualities of products used in everyday life. The following curriculum leads to a Bachelor of Science degree.

Total General-Liberal Requirements\* .....  
(See Page 68)

Relevant courses from the extensive offerings in art history and studio art by the Art Division of the College may be selected by students interested in design and combined with courses in this Division.

\*State University College — Buffalo requires every student, regardless of the Division in which he is enrolled, to take at least 60 semester hours of credit in general-liberal courses. The courses which satisfy this requirement are described in general on page 68. The Department of the Division in which a student is enrolled may also specify certain courses as required; they can be applied against the College's requirements where reasonable.

The six hours of chemistry required by the Department for students interested in textiles and the 6 credit hours of physics recommended for students interested in housing and in equipment may be counted in the 9 credits required by the College in Mathematics and Science, or in electives taken by advisement.

The psychology and sociology suggested for students interested in clothing and textiles and the credit hours in economics suggested for students in this area may be counted toward the 9 hours of social sciences which are required or as electives taken by advisement.

Divisional courses

Courses in ECS .....	15
Courses selected from other departments of the Division excluding ECS .....	12
Additional courses in ECS or in any department of the Division .....	15
	42
Free electives .....	18
Physical education .....	4
Total Hours .....	124

Sem.  
Hours  
60

ECS. 107. **Introductory Clothing (5,0) 3 Cr.**  
Appreciation of the sociological, psychological, aesthetic and economic aspects of clothing; development of and understanding of basic construction skills. *Classification:* Required of students in the division according to the curriculum.

ECS. 207. **Introductory Textiles (4,0) 3 Cr.**  
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 the curriculum. *Prerequisite:* Chemistry concurrently.

ECS. 210. **Clothing (3,0) 3 Cr.**  
Problems of individual interest in textiles; clothing selection; buying; care; the apparel market and construction. *Classification:* Elective for non-majors.

ECS. 217. **Consumer Problems in Textiles and Clothing (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.

ECS. 307. **Clothing — Design and Construction (5,0) 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. 425. **Advanced Clothing (5,0) 3 Cr.**  
Application of principles of selection, design, advanced 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.

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

ECS. 427. **Draping and Flat Pattern Design (5,0) 3 Cr.**

Alteration of patterns to adapt them to individual needs; creating original garments using draping, drafting and flat pattern methods. *Classification:* Elective for students in the division; others by permission of the instructor. *Prerequisite:* ECS. 107 or ECS. 210. *Special Note:* May be elected by graduate students.

ECS. 437. **Advanced Textiles (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 credits 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. 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. 220. **Household Equipment (4,0) 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. 320. Problems in Home Equipment (4,0) 3 Cr.

Study of current developments in household equipment. Individual investigation of home equipment, arrangement of equipment for selected situations, evaluation of laboratory studies. *Classification:* Required of students in the Division according to the student's curriculum. Elective with approval of instructor. *Prerequisite:* ECS. 220.

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. Elective with the approval of the instructor.

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. 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.

Students who are interested in clothing design from the manufacturer's standpoint or who wants courses in depth in interior design are encouraged to apply to study for a semester or a year 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.

221. *Special Note:* May be elected by graduate students.

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 the student's curriculum. Elective with the approval of the instructor.

ECS. 315. Consumer Problems and Personal Finance (3,0) 3 Cr.

Study of consumer problems and personal finance in today's economy. Emphasis placed on the consumer in the planning and spending of personal and family income. *Classification:* Elective for students not majoring in the Division.

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 Home Economics Education seniors.

ECS. 438. Urban Needs and Community Services (4,0) 3 Cr.

A study of urban needs of the individual and family, the availability, characteristics, functions of services and agencies within the Community including field experience. *Classification:* Elective for students in the Division; others by permission of the instructor.

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. Some students obtain a master's degree while taking the 30 additional credits. The following curriculum leads to a Bachelor of Science in Education degree:

	Sem. Hours
Total General-Liberal Requirements (See Page 68)	60
The 6 credit hours of chemistry and the three credit hours of bacteriology or human physiology required in this program may be applied toward the 9 hours required in mathematics and science; the 3 credit hours of psychology required may be counted toward the 9 required hours in social sciences; or these courses may be counted as electives taken by advisement.	
Divisional Courses	
Required	
ECS. 107, 207, 220, 221, and 402	30
H.D.F.C.R. 109 and 209, D.F.N. 108, 206 and 208	12
Electives within the division	42
Professional Requirements	
Educational Psychology	3
H.E.E. 321	3
H.E.E. 423	12
	18
Physical Education	4
Total Hours	124

H.E.E. 321. Methods and Materials (3,2) 3 Cr. Aspects of curriculum in both general and home economics education; principles of learning, teaching, evaluating; techniques in selecting, organizing and using instructional materials; observation in selected situations. *Classification:* Required of Home Economics Education students. *Prerequisite:* Cumulative average of "C" and Ed. 203.

H.E.E. 423. Student Teaching (30 hours weekly) 12 Cr.

Student teaching experience in the New York State home economics program; teach-

ing experience in cooperating schools and/or selected community situations. *Classification:* Required of Home Economics Education students; others by permission. *Prerequisite or concurrent:* H.E.E. 321; cumulative average of "C."

H.E.E. 424. Adult Experiences in Home Economics (3,0) 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



Home Economics Education majors; others by permission.

**H.E.E. 429. Home Economics and International Education (3,0) 3 Cr.**

Exploratory course to increase understanding of Home Economics in world education. Investigation of Home Economics 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:* Elective for juniors and seniors in the Division; others by permis-

sion. *Special Note:* May be elected by graduate students.

**H.E.E. 450. Occupational Education in Home Economics (3,0) 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 Home Economics Education majors; others by permission. *Special Note:* May be elected by graduate students.

**HUMAN DEVELOPMENT, FAMILY AND COMMUNITY RELATIONS**

This department appeals to the student who wants to apply the concepts of psychology and sociology to the study of the development of the individual, of individuals as family members, and of individuals in their various community relationships using the term community in its broader sense. Specializing in this area prepares a student, or helps prepare him, for working with children—individually or in groups, for working with families in child care centers, in counseling centers, and in social welfare agencies; and for working with adults in personnel departments.

The Division is affiliated with the Merrill-Palmer Institute of Human Development and Family Life in Detroit, Michigan. Students apply to study at Merrill-Palmer and are selected by a faculty committee; the 19 semester hours of credit earned at Merrill-Palmer are applied toward their SUCB degree. The curriculum followed by students in this department leads to a Bachelor of Science degree.

<b>Total General-Liberal Requirements</b>	<i>Sem. Hours</i>
(See Page 68)	60
Courses required by the Department in basic psychology, anthropology, and sociology may be counted toward the 9 hours required in social sciences. Additional courses in these subjects may be taken as part of the 24 hours of electives taken by advisement.	
<b>Divisional courses</b>	
Courses in H.D.F.C.R. — required	15
Courses selected from other areas of the Division excluding H.D.F.C.R.	12
Additional courses in H.D.F.C.R. or in any department of the Division	15
	42
<b>Free electives</b>	18
<b>Physical Education</b>	4
<b>Total Hours</b>	124

**H.D.F.C.R. 109. Human Development and Family Relations — Conception Through Pre-Adolescence (4,0) 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 life cycle. *Classification:* Required of students in this Division according to curriculum and all college electives.

**H.D.F.C.R. 201. Preparation for Family Living (3,0) 3 Cr.**

The family throughout the life cycle; preparation for marriage and early marital adjustments, planning for family and family life; and family's role in a democratic society; the effect of a changing social and economic order on family disorganization and reorganization. *Classification:* All College Elective.

**H.D.F.C.R. 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. The study of related topics in human development and family relationships from the point of view of emerging theories and significant contributions from the fields of psychology, sociology, and mental and physical health. *Classification:* Elective for students in the Division according to curriculum.

**H.D.F.C.R. 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 students in the Division according to curriculum. *Prerequisite:* H.D.F.C.R. 109.

**H.D.F.C.R. 212. The Family in Society and Culture (3,0) 3 Cr.**

Study of the family against a background of historical and cross-cultural perspectives. Social variation in family organization, community relationships and family and child rearing practices. *Classification:* All College Elective.

**H.D.F.C.R. 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 for students in the Division. *Prerequisite:* H.D.F.C.R. 109.

**H.D.F.C.R. 219. 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:* All College Elective.

**H.D.F.C.R. 309. The Adult in Contemporary Society (3,0) 3 Cr.**

A consideration of the changing role, conflicts, adjustments, dilemmas, aspirations, potentials, responsibilities, rights, and freedoms of today's adults, indicated in research and theory. *Classification:* All College Elective.

**H.D.F.C.R. 319. Social Dynamics of the Contemporary Ghetto (3,0) 3 Cr.**

An analysis of the social psychological forces in the contemporary ghetto, and the subsequent effects upon the family and other human resources. *Classification:* All College Elective.

**H.D.F.C.R. 409. Essentials of Sex Education Programs (3,0) 3 Cr.**

A course which examines human sexuality and the responsibilities of adults in home, schools, and society in the preparation of children and youth for dating, mating, marriage and parenthood; including thoughtful approaches to deviations and abuses of the sexual function in the modern world. *Classification:* All College Elective. *Special Note:* May be elected by graduate students.

**H.D.F.C.R. 418. Parent Education (3,0) 3 Cr.**

Parent education both before child-bearing and during the growing years; including a survey of the parent education movement.



significant research, and some actual participation in current programs in parent and family life education. *Classification:* All College Elective. *Special Note:* May be elected by graduate students.

**H.D.F.C.R. 430. Issues of the Modern American Family (3,0) 3 Cr.**

Current educational, psychological and social issues and concerns of the contemporary American family examined and related to changing cultural values. *Classification:* All College Elective. *Special Note:* May be elected by graduate students.

**DIETETICS, FOOD AND NUTRITION**

For the science-oriented student who likes biology and chemistry it is possible to take inorganic, organic, biological, analytical and physical chemistry plus the application of chemistry to foods and to nutrition to prepare for graduate work in nutrition, for experimental work with a food processor or as a dietitian who is a member of the health team in a hospital.

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

**Total General-Liberal Requirements.....**  
**(See Page 68)**

The 20 credit hours required by this department in inorganic chemistry, intermediate chemistry, biological chemistry, bacteriology and human physiology may be applied toward the 9 required in mathematics and science and toward the 24 hours of electives. The 3 required credits in psychology may be counted toward the 9 hours required in social sciences.

**Divisional Courses**

Required  
D.F.N. 108, 208, 308, 408, 410, 412, 415, 434.....  
Elective within the Division .....

**Free electives .....**

The 3 required credit hours in educational psychology may be counted among these electives

**Physical Education.....**  
**Total Hours .....**

Sem.  
Hours  
60

24  
12  
36

24

4  
124

**H.D.F.C.R. 440. Psychopathology in Parent Child Relations (3,0) 3 Cr.**

A survey of disturbances in parent-child relationship including a representative survey of maladaptive reactions of family stress and review of relevant ameliorative techniques and community resources. Strong emphasis will be placed on theoretical and empirical findings. *Classification:* Required for students in the Division according to curriculum. *Special Note:* May be elected by undergraduate and graduate students with permission of instructor.

This department also appeals to the student who is interested in food service administration as a business management position for employment by college food services, public schools, commercial restaurants, and industrial organizations. The following curriculum leads to a Bachelor of Science degree.

**Total General-Liberal Requirements.....**  
**(See Page 68)**

The 6 hours in chemistry and the 3 credit hours in human physiology required by the department for the degree may be counted toward the 9 hours required by the college in mathematics and science or as electives taken by advisement.

**Divisional courses**

Courses in D.F.N. ....  
Courses selected from other departments of the Division excluding D.F.N. ....  
Additional courses in D.F.N. or in other departments of the Division .....

**Free electives .....**

**Physical education .....**  
**Total Hours .....**

**D.F.N. 108. Introductory Foods and Nutrition (5,0) 3 Cr.**

An introduction to food preparation with emphasis on theory, techniques, planning and service of meals. *Classification:* Required of students in the Division according to student's curriculum. Elective by permission.

**D.F.N. 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.

**D.F.N. 208. Human Nutrition (3,0) 3 Cr.**

Science of foods and nutrition in relation to health. *Classification:* Required of students in the Division according to the student's curriculum. Elective by permission.

**D.F.N. 211. Food and Nutrition (3,0) 3 Cr.**

Laboratory preparation and service of basic

foods and meals to meet individual and family needs; basic ingredients and procedures; personal nutrition. *Classification:* Elective for students not majoring in the Division.

**D.F.N. 308. Science Related to Food Preparation (5,0) 3 Cr.**

Scientific principles and techniques of food preparation. Some development of experimental and comparative foods. *Classification:* Required of students in the division according to the student's curriculum. *Prerequisite:* Six hours of chemistry. Elective by permission.

**D.F.N. 408. Advanced Nutrition (3,0) 3 Cr.**

The study of the physiological aspects of nutrition, and the determination of nutrient needs. Emphasis on use of the professional literature. *Classification:* Required of Dietetics majors. Elective by permission. *Prerequisite:* D.F.N. 208 or permission of the instructor. *Special Note:* May be elected by graduate students.

Sem.  
Hours  
60

15  
12  
15  
42

18

4  
124



**D.F.N. 410. Institutional Food Purchasing and Accounting (3,0) 3 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.

**D.F.N. 412. Quantity Food Production (2,0) 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:* D.F.N. 308. Assigned participation hours to be arranged in a supervised food service.

**D.F.N. 415. Institutional Organization and Management (3,0) 3 Cr.**

Organization, financial control and personnel management for institution food departments. *Classification:* Required of Dietetics majors. Elective by permission.

**D.F.N. 426. Food Demonstration (5,0) 3 Cr.** Techniques of demonstration related to

food preparation. *Classification:* Elective for students in the Division; others by permission. *Prerequisite:* D.F.N. 308.

**D.F.N. 428. Meal Management (5,0) 3 Cr.**

Principles of management, nutrition, and consumer economics applied to family food purchase, preparation, and service. *Classification:* Elective for students in the Division; others by permission. *Prerequisite:* D.F.N. 308. *Special Note:* May be elected by graduate students.

**D.F.N. 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 a low cost. *Classification:* Elective for students in the Division. *Prerequisite:* D.F.N. 108.

**D.F.N. 434. 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:* D.F.N. 408.

**FIELD SERVICE AND SPECIAL PROJECTS**

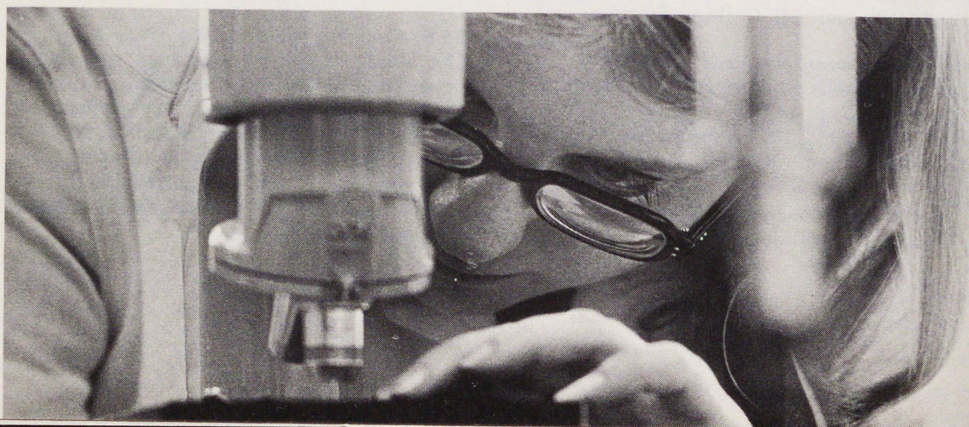
The following courses carry the appropriate department prefix: ECS., H.E.E., H.D.F.C.R., or D.F.N.

**—490. Field Experience**  
(Hours to be arranged).

A course to provide students in any department of the Division the opportunity to have experience related to their areas of concentration in public or private agencies,

in business organizations, or in educational institutions. Registration by permission of the faculty.

**—495. Project**  
(See Project under Academic Regulations).



**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
<b>Total General-Liberal Requirements</b> ..... (See Page 68)	60	60
<b>Major Field</b>		
Each student will pursue the basic course in each of 8 areas:		
I.A. 102 Intro. to Wood Tech. ....	3	8
I.A. 103 Technical Drawing ....	3	6
I.A. 106 Introductory Metal Working ....	3	8
I.A. 203 Basic Electronics ....	3	8
I.A. 206 Intro. to the Ceramic Ind. ....	3	8
I.A. 208 Graphic Arts ....	3	8
I.A. 302 Power & Transportation ....	3	8
I.A. 303 Plastics Tech. ....	3	8
	24	62
Upon completion of basic courses the student shall elect Option A, B, or C:		
<b>Option A</b>		
I.A. 423 Ind. Arts for Elementary School ....	3	8
I.A. 421 Ind. Arts for Exceptional Students ....	3	8
I.A. Tech. Electives ....	6	16
I.A. 400 Technical Drawing and Production Planning ....	3	6
	15	38
<b>Option B</b>		
Choice of one technical semester; each includes industrial internship and production planning.		
I.A. 428 Technical Semester, Manufacturing, or ....	15	
I.A. 429 Technical Semester, Communications, or ....	15	
I.A. 430 Technical Semester, Power — Transportation ....	15	
<b>Option C</b>		
Select 12 S.H. of courses in one of the following areas:		
<i>Manufacturing:</i> (Industrial Ceramics, Metal Technology, Plastics Technology, Forest Products Technology)		
<i>Communications:</i> (Electronics, Technical Drawing, Graphic Arts)		
<i>Power-Transportation:</i> (Power Technology Transportation, Marine Technology) ....	12	32
<i>plus</i>		
I.A. 400 Technical Drawing and Production Planning ....	3	6
	15	38
<b>Professional Requirements</b>		
I.A. Ed. 111 Intro. to Ind. Arts Ed. ....	3	3
I.A. Ed. 414 Professional Semester ....	15	—
Educational Psy. ....	3	3
	21	—
<b>Physical Education</b> .....	4	4
<i>Total Hours</i> .....	124	—

# INDUSTRIAL ARTS EDUCATION

## I.A. 102. Introduction to Wood Technology (8) 3 Cr.

Basic operations and processes; elements of design; correct construction techniques; suitable wood finishing methods; understanding of industrial practices; student planning; care and maintenance of equipment; analysis of materials.

## I.A. 103. Graphic Communications (6) 3 Cr.

Spatial visualization and techniques; sketching and use of instruments; shape and size description; multiview projection, auxiliaries; rotations, and pictorial drawings.

## I.A. 106. Introductory Metal Working (8) 3 Cr.

Fundamentals of forging, foundry, sheet metal, oxyacetylene welding and brazing, wrought iron, heat treatment, and bench work. Machine tool operations include lathe work, band sawing, and drill press. Related lessons in metals technology.

## I.A. ED. 111. Introduction to Industrial Arts Education (3) 3 Cr.

Purposes of education; Industrial Arts in general education; teaching Industrial Arts; philosophy and objectives; characteristics needed for teaching.

## 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. *Classification:* A.C.E.

## I.A. 203. Basic Electronics (8) 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. *Prerequisite:* Six semester hours of math.

## I.A. 206. Introduction to the Ceramic Industries (8) 3 Cr.

Introduction to industries that usually employ incandescent heat treatment to inorganic — nonmetallic raw materials. Experi-

ences to achieve understandings of major industries: Minerals — rocks and stone, Lime, Gypsum, Cement and Concrete, Structural Clay Products, Whitewares, Glass, Glazes, Enamels, Refractories, Abrasives, Carbon. Newest Developments. *Prerequisite:* Three semester hours chemistry preferred.

I.A. 207. **Textiles (8) 3 Cr.**  
Fibers, processes, and products of the textile industry: weaving, dyeing; surface treatment; and finishing of fabrics.

## I.A. 208. Graphic Arts (8) 3 Cr.

Basic operations and processes of the graphic arts industry; layout and copy preparation, paper and papermaking, general photography, process photography, photo-offset platemaking, offset litho presswork, screen process printing, and duplicating methods.

I.A. 302. **Power and Transportation (8) 3 Cr.**  
Principles of operation, design, and function of power and transportation devices. Emphasis on types of stationary and mobile power plants, vehicles, and craft; their function in our industrial society. *Prerequisites:* Six semester hours of physics.

## I.A. 303. Plastics Technology (8) 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. *Prerequisite:* Three semester hours of chemistry.

## I.A. 304. Letterpress Technics (7) 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 Ex.Ed. majors.

**I.A. ED. 306. Principles and Practices of Industrial Arts (6) 3 Cr.**

Preparation for student teaching; study of characteristics of good teacher, method of teaching, organizing instructional material, lesson planning, actual teaching, visual aids, behavior and discipline problems, objective test construction and study of *Student Teacher Guide*. *Classification:* Required of I.A. juniors, not approved for I.A.Ed. 414 (Professional Semester). *Prerequisite:* I.A. 103.

**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. *Classification:* Elective for I.A. students. *Prerequisite:* I.A. 103.

**I.A. 308. Textiles (7) 3 Cr.**

Advanced work in textile design, fiber preparation, dyeing, weaving, and surface decoration; textile testing, both physical and chemical. *Prerequisite:* I.A. 207.

**I.A. 309. Advanced Unit Construction in Wood (7) 3 Cr.**

Planning and constructing furniture of period design; special study in use of woods, adhesives, and finishes; introduction to basic upholstery techniques. *Classification:* Elective for I.A. juniors and seniors. *Prerequisite:* I.A. 102.

**I.A. ED. 310. Student Teaching and Conference (daily, 9 wks.) 7 Cr.**

Full-time assignment in junior or senior high school with a master teacher, guidance of a College staff member; emphasis on acquiring ability and experience in organizing instructional materials, devising and administering classroom procedures, preparing lesson plans, and presenting lessons and demonstrations. *Classification:* Required of all Industrial Arts students. *Prerequisite:* Junior standing in I.A. curriculum, cumulative

average of 2.00 or higher. Cumulative average in I.A. courses of 2.00 or higher, I.A. 306, Eng. 100 and 101 or comparable.

**I.A. 314. Machine Tool Technology (7) 3 Cr.**

Introductory experiences on horizontal mill, vertical mill, shaper, surface grinder, tool and cutter grinder; more advanced lathe and band saw work. Introductory physical and mechanical metallurgy. *Classification:* Elective for I.A. students. *Prerequisite:* I.A. 106.

**I.A. 315. Manufacturing Processes of the Ceramic Industries (7) 3 Cr.**

Continued study of the major ceramic industries introduced in I.A. 206; emphasis on processes such as: crushing, grinding, polishing, pressing, drawing, extruding, screening, milling, blending, casting, annealing, firing, sand-blasting, and sawing. *Classification:* Elective for I.A. students and others with appropriate background. *Prerequisite:* I.A. 206, three semester hours chemistry.

**I.A. 316. Power Technology (7) 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. *Classification:* Elective for I.A. students. *Prerequisite:* I.A. 302.

**I.A. 318. Metal Forming Technology (7) 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. *Classification:* Elective for I.A. students. *Prerequisite:* I.A. 106.

**I.A. 320. Marine Technology (7) 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. *Classification:* Elective for I.A. students and A.C.E.

**I.A. 400. Technical Drawing and Production Planning (5) 3 Cr.**

Idea development, sketching, product design, working drawings, reproductions, manufacturing processes and operations, cost analy-

sis, sales and servicing, illustrations, and drafting room procedure. *Prerequisite:* I.A. 103, and Art 111 and Art 112, or comparable.

**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 (7) 3 Cr.**

The photomechanical processes as related to offset lithography, screen process printing and gravure printing. *Classification:* Elective for I.A. students. *Prerequisite:* I.A. 208.

**I.A. 403. Plastics Technology (7) 3 Cr.**

Materials testing, identification and application; analysis of newer and more sophisticated polymers; correlation between the packaging industry and the plastics industry; research techniques applicable to the field of thermoplastics. *Classification:* Elective for I.A. students. *Prerequisite:* I.A. 303 Plastics Technology or equivalent.

**I.A. 406. Production and Research in the Forest Products Industries (7) 3 Cr.**

Problems and techniques involved in mass production; maintenance of woodworking machinery; a study of tools, processes, and materials involved in veneering, laminating, bending and construction; planning and development of simple patterns; industrial finishes and finishing techniques. *Classification:* Elective for I.A. students. *Prerequisite:* I.A. 102 and I.A. 309.

**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. *Classification:* Elective for I.A. students. *Prerequisite:* I.A. 103.

**I.A. 408. Electronics Communication (7) 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. *Classification:* Elective for I.A. students. *Prerequisite:* I.A. 203.

**I.A. 409. Electronic Instrumentation (7) 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. *Classification:* Elective for I.A. students. *Prerequisite:* I.A. 203 and I.A. 408.

**I.A. 410. Materials and Products of the Ceramic Industry (7) 3 Cr.**

Fabrication of products from calculated compositions; application of forming processes; glaze, glass, and body calculations; cement and concrete compositions; property analysis and product design. *Classification:* Elective for I.A. students. *Prerequisite:* I.A. 206, three semester hours chemistry.

**I.A. ED. 411. Student Teaching and Conference (daily, 9 wks.) 8 Cr.**

Full-time assignment in junior or senior high school with a master teacher, guidance of College staff member; emphasis on student development to assume total responsibility for teaching, planning, keeping records on materials and equipment, evaluation of pupil progress, etc. *Classification:* Required of I.A. students. *Prerequisite:* Senior standing in I.A. curriculum, cumulative average of 2.00 or higher, cumulative average in I.A. courses of 2.00 or higher, I.A. 310.

**I.A. ED. 412. Laboratory of Industrial Arts Teaching (7) 3 Cr.**

Appraisal of the student teaching experience; the teacher and the profession; responsibilities as consultant, supervisor, core-resource person, and specialist; general shop organization and administration; specific planning and preparation for a particular teaching position; planning for and participating in professional meetings, conferences and workshops. *Classification:* Required of I.A. seniors. *Prerequisite:* I.A. 310 and I.A. 411.



**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 interdisciplinary scope; its relation to science; its place in education. *Classification:* A.C.E.

**I.A. 414. Professional Semester (daily, 18 weeks) 15 Cr.**

Public school classroom experiences for the student teacher to test and refine his philosophy of education, techniques of teaching, and skill in directing pupil growth; a study and implementation of methodology, teaching techniques, and evaluation; participation in school co-curricular and professional activities. *Classification:* Required of I.A. Seniors. *Prerequisites:* I.A. 111, Ed. Psy., Eng. 100 and 101 or comparable.

**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:* A.C.E. *Prerequisite:* I.A. 103.

**I.A. 418. Research and Experimentation in Metal Technology (7) 3 Cr.**  
Operation of pantograph milling machine and punch press; production techniques; testing physical and mechanical properties of metals. Teaching about new metal technologies in modern industry. *Classification:* Elective for I.A. students. *Prerequisite:* I.A. 106 and I.A. 314 or I.A. 318.

**I.A. 421. Industrial Arts for Students with Special Needs (7) 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. The Industrial Arts Consultant in the Elementary School (7) 3 Cr.**  
Elementary school philosophy; elementary industrial arts philosophy, correlating industrial arts activities with elementary school curriculum; experimental material application, child study, teaching techniques,

responsibilities of Industrial Arts consultant. *Classification:* Elective for students majoring in I.A.

**I.A. 427. Graphic Solutions (5) 3 Cr.**  
Graphical methods of presentation of data, analysis of data, and computation; charts, graphs, diagrams, functional scales, nomography, empirical equations, and graphic calculus. *Classification:* Elective for I.A. students. *Prerequisite:* I.A. 103, I.A. 417.

**I.A. 428. Technical Semester (Manufacturing) 15 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. seniors. *Prerequisite:* All basic laboratories.

**I.A. 429. Technical Semester (Communications) 15 Cr.**  
Split semester between on-campus technical courses and industrial experiences in the field of communications; emphasis on visual and electrically actuated communications systems and networks; conceptual approach and practical experience in the organization, planning, production and analysis of the industrial communication enterprise. *Classification:* Elective for I.A. seniors. *Prerequisite:* All basic laboratories.

**I.A. 430. Technical Semester (Power-Transportation) 15 Cr.**  
Split semester between on-campus technical courses and related experiences in the power-transportation fields; a study of power as a motivating factor in manufacturing, and transporting; conceptual approach to and practical experiences in the development, transmission, and application of power. *Classification:* Elective for I.A. seniors. *Prerequisite:* All basic laboratories.

**I.A. 495. Independent Project 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 demonstrated 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.

## 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.

Math. 265 and Math. 261 are two additional computer science courses.

**C.S. 211. Survey of Computer Languages 3 Cr.**  
FORTRAN programming, and 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:* Open only to students who have had Math. 209, Math. 207 during second semester 1967-68 or Math. 265.

**C.S. 214. Application of Discrete Structures to Computer Technology 3 Cr.**  
Set Algebra, Boolean Algebra and Algebraic Structures as applied to computer science and technology, forming the basis for concepts in computer design. *Prerequisite:* Math. 265.

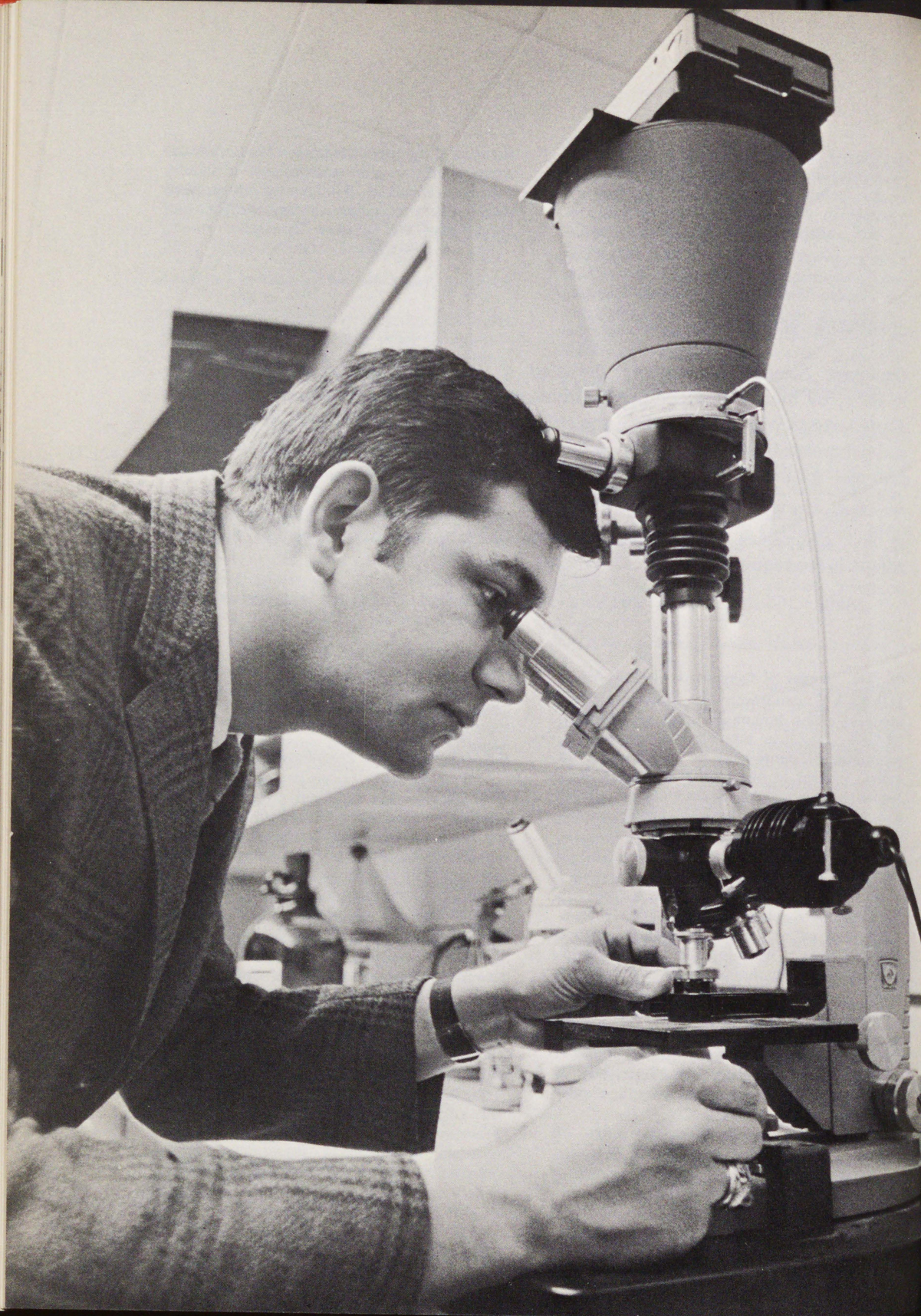
**C.S. 215. Computer Organization 3 Cr.**  
Elements of logical design of computers using Boolean Algebra. Characteristics of computer components such as storage, con-

trol, input and output devices will be studied, as well as the organization of computer systems. *Prerequisite:* C.T. 214.

**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:* Open only to students who have had Math. 209 or Math. 207 during second semester 1967-68 or Math. 265.

**C.S. 312. Advanced Methods in Computer Applications 3 Cr.**  
Methods for solving problems by computer including numerical quadrature, Gauss-Legendre formulas, ordinary differential equations, eigenvalues and eigenvectors. *Prerequisite:* C.T. 311.





### 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
<b>Total General-Liberal Requirements</b> .....	60
(See Page 68)	
<b>Major Field</b>	
<i>Technical Breadth</i>	
IT 100 Graphic Science .....	3
IT 101 Production Planning .....	3
IT 102 Electro-Mechanics .....	3
IT 200 Materials Science and Testing .....	3
IT 201 Materials Processing .....	3
IT 202 Production and Quality Control .....	3
IT 300 Graphic Communications .....	3
IT 301 Power-Energy-Mechanisms .....	3
IT 302 Manufacturing Technology .....	3
<i>Management</i>	
IT 400 Industrial Marketing and Sales .....	3
IT 401 Management Science .....	3
IT 402 Systems Analysis .....	3
IT 403 Human Engineering .....	3
S.ED. 430 Industrial Accident Prevention .....	3
	42
<b>Electives</b> .....	18
<b>Physical Education</b> .....	4
<i>Total Hours</i> .....	124

## INDUSTRIAL TECHNOLOGY

### 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.

Number in parentheses indicates the class hours per week.

### 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. 200. Materials Science and Testing (5) 3 Cr.

A study of the origin of composition of a representative gamet 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. *Prerequisites:* Chemistry 101 or equivalent.

### 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.

### 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. 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. *Prerequisites:* 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 engineer-

ing 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 and Sales (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:* Elective, required of I.T. majors. *Prerequisite:* Junior or senior standing.

### 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:* Elective, required of I.T. majors. *Prerequisite:* Junior or senior standing.

### I.T. 402. Systems Analysis (3) 3 Cr.

An investigation of the complete cycle of systems comprising a modern business-production enterprise; and analyzation and classification of functions by related tasks; evaluation of systems through cost analysis, mobility of personnel, flexibility of market, and conceptualization of output; systems design. *Classification:* Elective, required of I.T. majors. *Prerequisite:* Junior or senior standing.

### I.T. 403. Human 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:* Elective, required of I.T. majors. *Prerequisite:* Industrial Psychology, I.T. 402, junior or senior standing.



VOCATIONAL TECHNICAL EDUCATION DIVISION

The expanded interest in vocational technical education throughout the nation as evidenced by the passage of the 1968 Vocational Education Amendments Act has created an unprecedented demand for teachers in this area. The Vocational Technical Division offers qualified candidates an opportunity to prepare for teaching opportunities in the public vocational and technical high schools, technical institutes and community colleges.

The Division offers programs leading to:

- 1. Basic Teacher 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 program are eligible for certification 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:

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

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.

A new experimental program, Work Study Internship, is now being offered to a limited number of people interested in a teaching career in the Agricultural and Technical Institutes or Community Colleges. This curriculum requires an Associate Degree for admission and leads to the Bachelor of Science Degree.

Master of Science in Education

Candidates interested in qualifying 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. Industrial 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 (See Page 68)	60
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 Practice Teaching	3
V.T. 213 Practice Teaching and Observation	2
V.T. 215 Professional Development Seminar	3
	17
Cognate Electives	
V.T. 200 Introduction to Voc. Tech. Education	3
V.T. 206 Shop/Laboratory Design	3
V.T. 207 Use of Instructional Materials	3
V.T. 211 Tests and Measurement	3
	12
Physical Education	4
Total Hours	123*

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



## 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 only after the Basic Vocational Teacher Education Program has been completed and requirements for permanent certification have been met. And/or the completion of a series of courses in the Work Study Internship Program have been satisfied.

### V.T. 101, 102, 103, 104, 105, 106, 107, 108, 109. Work Study Internship Program 30 Cr.

This program of courses (V.T. 101-109) will satisfy the V.T. 100 Applied Skill and Technical Information allowing 30 semester hours in the existing Bachelor of Science Degree Program. It is a planned program of work and study under the coordination, supervision and guidance of the Vocational Technical faculty, in cooperation with industry and community college personnel.

### 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. The purpose of preparing a list of teachable content of a trade, for the selection of skills, operations, tools, equipment and materials, mathematics, science, drawing, terminology, safety and hygiene, and trade judgment.

Number in parentheses indicates the class hours per week.

### V.T. 202. Course Organization (3) 3 Cr.

To arrange the teachable material in a logical learning sequence for the purpose of teaching others.

### 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 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 Materials (3) 3 Cr.

Various media for planned meaningful class and student activities. Copyrighted, instructor, student and commercially prepared materials considered including Audio-Visual, newer Educational Developments, and General Sources. Criteria and Evaluation will be explored and developed for teacher usage.

### V.T. 211. Tests and Measurement (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. Practice Teaching (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.

### V.T. 213. Practice Teaching and Observation (3) 2 Cr.

Supervised observations of vocational technical classes in specially selected, approved vocational schools. Conference and reports based upon teaching assignments will be required. *Prerequisite:* Ed. Psychology.

### V.T. 215. Professional Development Seminar (3) 3 Cr.

To develop the abilities and competencies of teachers and analyze and discuss the problems and activities which confront teachers.

### V.T. 401. Design and Art (3) 3 Cr.

Application and theory of design principles, the methods and approach to the fundamentals of drawing, art and design, emphasizing function, material, and processes in relation to form.

### V.T. 402. Design and Art (3) 3 Cr.

A continuation of V.T. 401.





### Safety and Driver Education

The Safety Education area of professional preparation in education has available courses designed to provide general as well as specialized instruction for the teaching of safe living in the myriad areas and activities of every day life.

The Safety Education course equips teachers and prospective teachers with basic safety knowledge to make it possible for New York State Education Laws number 806, 807 and 808, as well as the regulations set forth by the Commissioner of Education to be complied with in respect to the preparation of teachers so the mandatory teaching of safety education for a prescribed number of periods in the elementary and secondary schools of the State may be accomplished more effectively.

The Driver Education sequence of credit courses lead to satisfying the specialized educational preparation requirements for the purpose of gaining approval as an instructor of Driver Education for employment in the secondary schools of New York State. All individuals desiring to acquire approval as a high school Driver Education instructor must also be licensed to teach in the secondary schools and be in possession of a good driving record.

The Industrial Safety 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.

#### **S.ED. 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.

#### **S.ED. 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 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.

#### **S.ED. 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.

#### **S.ED. 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:* S.ED. 417, completed within the previous 2 years. *Special Note:* May be elected by graduate students.

#### **S.ED. 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 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.

#### **S.ED. 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:* S.ED. 430. *Special Note:* May be elected by graduate students.



## 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 Name changed to New York State College for Teachers; Principal changed to President; accredited by American Association of Teachers Colleges
- 1930 Art Education Department established
- 1931 Moved to present campus
- 1939 Accredited by American Association of University Women
- 1944 Exceptional Children Education Division established
- 1945 Master of Science in Education Degree authorized
- 1948 State University of New York established; College accredited by Middle States Association of Colleges and Secondary Schools
- 1951 President Harry W. Rockwell retired; Dean Ralph Horn became Acting President; Harvey M. Rice appointed President
- 1958 President Harvey M. Rice resigned; Dean Ralph Horn became Acting President
- 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
- 1969 Master of Arts Degree with major in Chemistry 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 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, established by the State Legislature in 1948, comprises 70 colleges and centers. At present, 63 conduct classes: four University Centers, two Medical Centers, 11 Colleges of Arts and Science, two Specialized Colleges, six two-year Agricultural and Technical Colleges, five Statutory Colleges, and 33 locally-sponsored, two-year Community Colleges.

Three Colleges of Arts and Science are in varying stages of development. Two four-year campuses, in Westchester County at Purchase and in Nassau County at Old Westbury are under construction. Old Westbury admitted a limited number of students in September, 1968, in temporary quarters at Oyster Bay, Long Island. The third campus will be upper-divisional (junior-senior years) in concept and located in the Utica-Rome-Herkimer area. Master's level programs will be offered at all three campuses.

The University's Trustees also have approved the establishment of five additional Community Colleges. In varying stages of development, they are sponsored by Clinton, Columbia-Greene, and Schenectady Counties and two by New York City's Board of Higher Education.

The University further comprises the Ranger School, a division of the College of Forestry, which offers a 43-week technical forestry program at Wanakena; the Center for International Studies and World Affairs at Albany; and four Urban Centers administered by Community Colleges.

University-wide research programs include the Atmospheric Sciences Research Center with campus headquarters at Albany, the Institute for Theoretical Physics and the Marine Sciences Research Center at Stony Brook, and the Water Resources and Polymer Research Centers at the College of Forestry. Two research facilities headquartered at State University of New York at Buffalo are the Western New York Nuclear Research Center and the Center for Immunology.

Graduate study of the doctoral level is offered by State University at 12 of its campuses, and graduate work at the master's level at 22. The University is continuing to broaden and expand over-all opportunities for advance degree study.

Graduate study areas embrace a wide spectrum including agriculture, business administration, criminal justice, dentistry, education, engineering, forestry, law, liberal arts and science, library science, medicine, nursing, pharmacy, social work, and veterinary medicine.

Four-year programs strongly emphasize the liberal arts and science and also include specializations in teacher education, business, radio and television, forestry, maritime service, ceramics, pre-law, and the fine and performing arts.

Two-year programs include nursing and liberal arts transfer programs and a wide variety of technical curriculums such as agriculture, business, and the industrial and medical technologies.

The University's Urban Centers provide training for skilled and semi-skilled occupations and college foundation courses for youths in the inner city areas.

Governed by a Board of Trustees appointed by the Governor, State University of New York comprises all State-supported institutions of higher education, with the exception of the senior colleges of City University of New York. Each college and center of State University is locally administered. Although separated geographically, all are united in the purpose of improving and extending numerous opportunities to the youth of New York State.

The State University motto is: "Let Each Become All He Is Capable of Being."

# STATE UNIVERSITY OF NEW YORK

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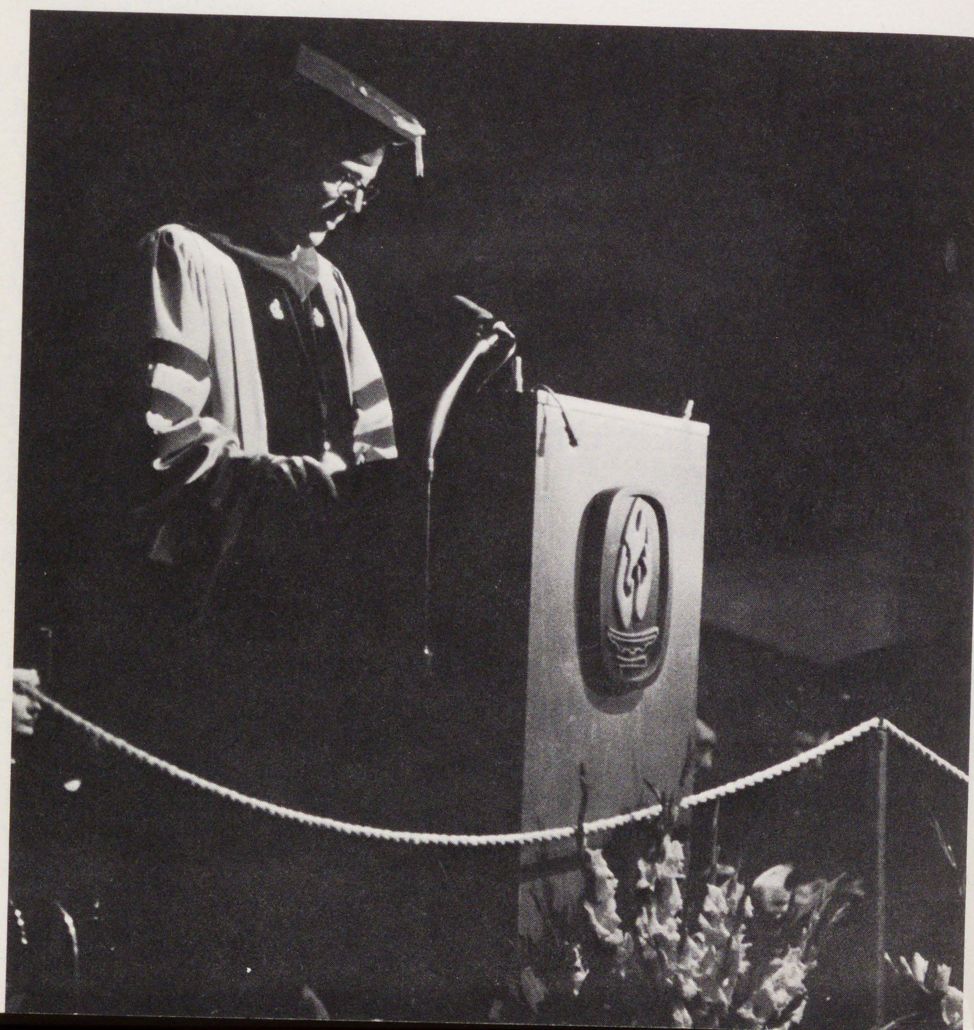


## THE COLLEGE

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*Term Expires*  
 1972  
 1973  
 1971  
 1967  
 1970  
 1969  
 1974  
 1968  
 1976



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*Chm., Mental Retardation Dept.* ..... NORMAN J. NIESEN, Ed.D.



Chm., Communication Disorders Dept.	ROLLAND J. VanHATTUM, Ph.D.
Chm., Learning and Behavioral Disorders Dept.	BERNARD B. YORMAK, Ph.D.
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Coordinator, Student Teaching	NORMAN G. WALKER, M.S.Ed.
Dir., Campus School	RICHARD J. McCOWAN, Ph.D.
Principal, Elementary Division	F. PATRICK McCABE, M.S.Ed.
Principal, Secondary Division	DAVID A. DOYLE, M.S.Ed.
Principal, Exceptional Education Division	MANON B. SMITH, M.Ed.
Dir., Teacher Corps	LEONARD J. POLESZAK, Ed.D.
Dir., Art Division	
Chm., Fine Arts Dept.	ROLAND WISE, M.A.
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Admissions Counselor	DOROTHY E. EELLS, M.A.
Admissions Counselor	MARY E. STATT, M.Ed.
Asst. Admissions Counselor	ROBERT D. BAILEY, B.A.
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Vice-President, Student Affairs	CHARLES P. LaMORTE, Ed.D.
Assoc. Vice-President	THOMAS J. QUATROCHE, M.S.
Asst. Vice-President	ANGELA R. PALMIERI, M.A.
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Dir., Student Activities	
Assoc. Dir.	DANIEL R. HUNTER, JR., Ed.M.
Asst. Dir.	ANTOINETTE M. BORUCKI, B.A.
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Dir., Financial Aids	WILLIAM A. TROY, Ed.M.
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Dir., Student Health Center	
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# The Faculty\*

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*Director of Housing*  
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- JOHN R. AIKEN (1964)  
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- WALTER AINSWORTH (1960)  
*Assistant Professor of Biology*  
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- JOHN L. ALLEN (1964)  
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- JON P. AMATO (1965)  
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- JOAN AMROZOWICZ (1966)  
*Assistant Professor of Education*  
B.S. Ed., M.S. Ed., State University  
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- DUANE J. ANDERSEN (1958)  
*Associate Professor of Ceramics*  
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- BRUCE K. ANDREW (1965)  
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- BERNARD D. ANSEL (1964)  
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- LAURENCE W. ARONSTEIN (1968)  
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*Associate Professor of Music*  
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*Professor of Chemistry*  
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*Associate Professor of Art Education*  
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*Acting Vice-President of Academic  
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- RUDOLPH J. CHERKAUER (1948)  
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## STATE UNIVERSITY OF NEW YORK

### 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

### COLLEGE 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

\*(Three additional Colleges of Arts and Science are in varying stages of development. Two four-year campuses, in Westchester County at Purchase and in Nassau County at Old Westbury are under construction. Old Westbury admitted its first students in limited numbers at temporary quarters in Oyster Bay in September, 1968. The third campus will be upper-division (junior-senior years) in concept and located in the Utica-Rome-Herkimer area. Master's level programs will be offered at all three campuses.)

### SPECIALIZED COLLEGES

College of Forestry at Syracuse University  
 Maritime College at Fort Schuyler (Bronx)

### AGRICULTURAL AND TECHNICAL COLLEGES (Two-year)

Alfred	Cobleskill	Farmingdale
Canton	Delhi	Morrisville

### STATUTORY COLLEGES

College of Ceramics at Alfred University  
 College of Agriculture at Cornell University  
 College of Home Economics 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 Technical Community College at Binghamton  
 Community College of the Finger Lakes at Canandaigua  
 Corning Community College at Corning  
 Dutchess Community College at Poughkeepsie  
 Erie County Technical Institute 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  
 Hudson Valley Community College at Troy  
 Jamestown Community College at Jamestown  
 Jefferson Community College at Watertown  
 Kingsborough Community College  
 Mohawk Valley Community College at Utica  
 Monroe Community College at Rochester  
 Nassau Community College at Garden City  
 New York City Community College of Applied Arts and Sciences  
 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  
 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  
 (Five additional community colleges have been approved by the Board of Trustees and are in varying stages of development. They are sponsored by Clinton, Columbia-Greene and Schenectady Counties and two by the New York City Board of Higher Education.)



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 BUFFALO, N. Y.

INDEX

	Page		Page
Academic Honors .....	56	Directory .....	2
Academic Regulations .....	49	Dismissal .....	55
Accreditation and Membership .....	203	Dropping a Course .....	56
Administration .....	207	Economics .....	97
Admission .....	9	Education Courses .....	152
Advanced Placement Exams .....	50	Educational Opportunity Grants .....	39
Advanced Standing Admission .....	11	Educational Services .....	59
Alumni .....	59	Elementary Education .....	151
Anthropology .....	145	Employment .....	43
Application Procedure .....	10	English .....	99
Applied Science and Technology .....	174	Environmental and Consumer Studies .....	176
Art Courses .....	74	Exceptional Children Education .....	159
Art Division .....	71	Expenses .....	15
Art Education Curriculum .....	73	Faculty .....	210
Arts and Sciences .....	81	Faculty Emeritus .....	243
Athletic Board .....	26	Faculty Student Association Business Office .....	18
Attendance .....	49	Fees .....	16
Auditing .....	49	Financial Aids .....	35
Awards .....	46	Food Service Department .....	18
Biology .....	92	Foreign Languages .....	104
Burchfield Center .....	59	Forensic Group .....	28
Calendar .....	3	French .....	105
Camp Board .....	27	General-Liberal Requirements .....	68
Campus and Buildings .....	7	General Science .....	111
Campus School .....	60	Geography .....	112
Casting Hall Board .....	27	Geosciences .....	114
Challenge of Courses .....	51	German .....	106
Chemistry .....	95	Grading System .....	50
Child Study Center .....	60	Graduate Program .....	7
The College .....	5	Graduation Application .....	57
College Store .....	18	Graduation Requirements .....	57
Communications Board .....	28	Great Lakes Laboratory .....	63
Communicative Disorders .....	161	Health Center .....	22
Computer Science .....	191	Health, Physical Education and Recreation .....	116
Continuing Education .....	61	History .....	121
Contract .....	52	History of the College .....	202
Convocations Board .....	28	Home Economics .....	175
Counseling Services .....	23	Home Economics Education .....	179
Creative Studies .....	61	Honorary Groups .....	32
Cross-Registration .....	51		
Curricula .....	5		
Dietetics, Food and Nutrition .....	182		



## INDEX

	Page		Page
Honors Citation .....	56	Re-admission Procedures .....	13
Human Development Family and Community Relations .....	180	Recreational Organizations .....	29
Incompletes .....	50	Refunds .....	17
Independent Study .....	52	Registration .....	51
Industrial Arts Education .....	185	Religious Groups .....	31
Industrial Technology .....	193	Repeated Courses .....	54
Instructional Resources .....	63	Resident Association .....	33
Inter-Division Transfer .....	14	Russian .....	110
International Education .....	64	Safety and Driver Education .....	200
Italian .....	107	Scholarships .....	36
Latin .....	108	Secondary Education .....	167
Latin American Studies .....	149	Biology .....	168
Learning and Behavioral Disorders .....	160	Chemistry .....	168
Liberal Arts Curriculum .....	81	Earth Science .....	169
Library .....	64	English .....	170
Loans .....	40	French .....	170
Mathematics .....	126	Mathematics .....	171
Mental Retardation .....	161	Physics .....	172
Music .....	129	Social Studies .....	173
Music Board .....	28	Spanish .....	170
Objectives .....	5	SEEK Program .....	66
Orientation Board .....	28	Siena Program .....	72
Orientation Program .....	21	Social Groups .....	32
Pass-Fail .....	55	Sociology .....	143
Philosophy .....	133	Spanish .....	110
Physical Handicap .....	161	Speech and Theatre Arts .....	147
Physics .....	136	State University of New York .....	204
Placement .....	23	Student Activities .....	25
Police Science .....	138	Student Governing Groups .....	25
Polish .....	109	Student Personnel Program .....	21
Political Groups .....	33	Student Residences .....	21
Political Science .....	138	Student Union Board .....	27
Portuguese .....	109	Summer Session .....	67
Probation .....	54	Swahili .....	111
Professional and Cultural Groups .....	29	Teacher Corps .....	67
Professional Studies .....	151	Traffic .....	18
Project .....	52	Transcripts .....	57
Prospective Teacher Program .....	65	Unit of Credit .....	53
Psychology .....	140	Veterans and Military Affairs .....	45
Publications Board .....	28	Vocational Technical Education .....	196
Quality Point System .....	53	Withdrawal .....	55





