

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

## Digital Commons at Buffalo State

---

Academic Catalogs, 1871-2018

Buffalo State Archives: History of the Institution

---

1966

### College Catalog, 1966-1967

Buffalo State College

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



Part of the [History Commons](#)

---

#### Recommended Citation

"College Catalog, 1966-1967." Academic Catalogs, 1871-2018. Archives & Special Collections Department, E. H. Butler Library, SUNY Buffalo State.

<https://digitalcommons.buffalostate.edu/buffstatecatalogs/168>

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



3027-9

College at Buffalo 1966-67 General Catalog

143



STATE UNIVERSITY OF NEW YORK



College at Buffalo 1966-67 General Catalog

EDWARD H. BUTLER LIBRARY  
STATE UNIVERSITY COLLEGE  
BUFFALO, N. Y.



STATE UNIVERSITY OF NEW YORK

EDWARD H. BUTLER LIBRARY  
STATE UNIVERSITY COLLEGE  
BUFFALO, N. Y.



## CONTENTS

4	College Calendar
5	State University of New York
7	The College
11	Admissions
17	Student Expenses
19	Academic Regulations
27	Student Personnel Program
31	Student Activities
39	Student Financial Aid
53	Educational Services
61	Art Education Division
77	Arts and Sciences
139	Professional Studies
205	Applied Science and Technology
235	Significant Dates
236	Accreditation and Memberships
237	Board of Trustees
238	Local Council
239	Administration
243	Faculty
274	Faculty Emeritus
279	Index



## COLLEGE CALENDAR FOR 1966-67

### FALL SEMESTER — 1966

- September* 5\* Monday, Labor Day  
 10 Saturday, Graduate Registration, Orientation of New Students  
 12-20 Monday-Tuesday, Undergraduate Registration  
 21 Wednesday, Classes Begin  
*October* 12\* Wednesday, Columbus Day  
 24\* Monday, Western Zone  
 28\* Friday, FASUNY Meeting  
*November* 11\* Friday, Veterans' Day  
 23-25\* Wednesday-Friday, Thanksgiving Recess  
*December* 23\*-  
*Jan.* 2\* Holiday Recess  
*January* 3 Tuesday, Classes Resume  
 16-24 Monday-Tuesday, Semester Examinations

### SPRING SEMESTER — 1967

- January* 28 Saturday, Graduate Registration  
 30-Feb. 2 Monday-Thursday, Undergraduate Registration  
*February* 3 Friday, Classes Resume  
 12 Sunday, Midyear Commencement, Lincoln's Birthday  
 13\* Monday, Legal Holiday  
 22\* Wednesday, Washington's Birthday  
*March* 24-31\* Friday-Friday, Spring Recess  
*April* 3 Monday, Classes Resume  
*May* 29-June 7 Monday-Wednesday, Semester Examinations  
 30\* Tuesday, Memorial Day  
*June* 11 Sunday, Commencement

### SUMMER SESSION — 1967 Day and Evening Classes

- First Session* Monday, June 12-Friday, July 21  
*Middle Session* Monday, June 26-Friday, August 4  
*Last Session* Monday, July 24-Friday, September 1  
*Post Session* Monday, August 7-Friday, August 25

\*College not in session.

## STATE UNIVERSITY OF NEW YORK

The State University of New York was established by the State Legislature in 1948. It comprises 61 colleges and centers. At present 58 of these are conducting classes: four University Centers, two Medical Centers, ten Colleges of Arts and Science, eight Specialized Colleges, six two-year Agricultural and Technical Colleges and 28 locally-sponsored, two-year Community Colleges.

Two additional Colleges of Arts and Science, in Westchester and Nassau Counties, were established by the University's Trustees in the Spring of 1965. These colleges are in the earliest planning stages and by present plans are scheduled to accept their first classes in September of 1970. The Trustees also have approved establishment of a 29th community college, to be located in Herkimer County.

State University further comprises the Atmospheric Sciences Research Center, which has its field headquarters at Whiteface Mountain; 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, located at Oyster Bay; the Marine Sciences Research Center, administered as a part of State University at Stony Brook, and the Western New York Nuclear Research Center, Inc. at State University at Buffalo.

The University offers programs in agriculture; American folk culture; business administration; ceramics; dentistry; engineering; forestry; home economics; industrial and labor relations; law; liberal arts and sciences; library science; maritime service; medicine; nursing; pharmacy; professional museum work; public administration; social work; teacher education and veterinary medicine.

Its two-year programs also include nursing and liberal arts study and a wide variety of technical courses in such areas as agriculture, business, and the industrial and medical technologies.

Graduate study at the doctoral level is offered by the University at 13 of its campuses, including the University Centers and the Graduate School of Public Affairs. While graduate work can be pursued at 24 of the colleges, the programs at the majority of these colleges are now limited to the master's level. The University, however, is continuing to broaden and expand over-all opportunities for advanced degree study.



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 four-year 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 to improve and extend opportunities for youth to continue their education beyond high school.

The State University motto is: "Let Each Become All He Is Capable of Being."



## 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 President of the State University, and the Local Council of the College.

## OBJECTIVES

The College achieves its primary purpose, the development of people to their fullest potential, by observing the following objectives.

1. To give the student a broad cultural background in the principal fields of organized knowledge.
2. To give the student a mastery of his field and a supporting knowledge of related fields.
3. To help those students, in teacher preparation programs, to understand the important position of the teacher in the relationship between education and society.
4. To aid the student to develop his personal resources in preparation for leadership in today's world.
5. To help the student acquire a knowledge of human growth and development.
6. To help the student understand and master the professional knowledge and skills needed for success in his chosen field.
7. To encourage the student to develop a guiding philosophy of education and of life.

## CURRICULA

The curricula offered by the College are:

1. *Art Education* — A four-year curriculum leading to the degree of Bachelor of Science preparing teachers and supervisors of Art for the elementary and secondary schools of New York State.
2. *Elementary Education* — a four year curriculum leading to the degree of Bachelor of Science 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.

3. *Exceptional Children Education* — a four year curriculum leading to certification for teaching in the elementary grades and in one of the following fields: acoustical handicap (deaf, hard-of-hearing), emotionally handicapped, mental retardation and physically handicapped. A curriculum leading to certification in speech pathology and audiology is also offered.
4. *Home Economics*
  - a. A four year curriculum leading to the degree of Bachelor of Science with a major in Home Economics Education for teachers of Home Economics in the elementary and secondary schools of New York State.
  - b. A four year curriculum leading to the degree of Bachelor of Science with a major in Home Economics for the student interested in Home Economics and a broad cultural education. It permits the student to plan for a concentration in Clothing and Textiles; or Family Life or Foods and Nutrition. As soon as possible after choosing the curriculum the student should plan with the adviser for a selection of courses that will insure a concentration as well as a balanced program.
  - c. A four year curriculum leading to the degree of Bachelor of Science with a major in Dietetics for the Student who wishes to prepare for positions in the field of Dietetics.
5. *Industrial Arts Education* — a four year curriculum leading to the degree of Bachelor of Science for teachers of Industrial Arts in elementary and secondary schools of New York State.
6. *Secondary Education* — a four year curriculum leading to provision of 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 through the completion of 30 semester hours of graduate study within five calendar years of the date of original certification.
7. The Arts and Sciences Departments provide many required courses for various Teacher Education Divisions. In addition, a wide variety of elective

courses in the arts, humanities, social sciences, mathematics, and the sciences may be selected by students in all divisions.

8. *Liberal Arts Education* — a liberal arts curriculum leading to the Bachelor of Arts degree is available. Comprehensive majors are available in the Arts, Humanities, Social Sciences, Art, Biology, Chemistry, English, Foreign Languages, Geography, Geology, History, Mathematics, Music, Philosophy, and Physics. The program is further enriched by offering inter-divisional area majors in Latin American and American Studies.
9. *The Vocational and 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. Graduates of the basic program are eligible for certification in accordance with the Regulations of the Commissioner of Education.
10. *Graduate* — a program leading to the degree of Master of Sciences in the areas of Elementary Administration and Supervision, Art Education, Early Secondary and Secondary Education (English, Mathematics, Science and Social Studies), Elementary Education, Exceptional Children Education, Home Economics Education, Industrial Arts Education, or Vocational Technical Education.

## THE CAMPUS AND BUILDINGS

The College has a campus of over one hundred acres, located on Elmwood Avenue near Scajaquada Creek in the distinctive Delaware Park area of the City of Buffalo. This location gives ready access to the cultural, historical, research and scientific facilities of the second largest city in the Empire State.

Many leading cultural and artistic institutions are located near the College such as the Albright-Knox Art Gallery, Buffalo and Erie County Historical Society Building, Kleinhans Music Hall and the Museum of Science.

The College is easily reached by bus and car from all parts of the city, the suburbs, and from railroad, air and bus terminals.

In 1931, when the College moved to its present location at 1300 Elmwood Avenue, five buildings were erected: Rockwell Hall, named in honor of the first



President of the College, Harry W. Rockwell, contains the major administrative offices and the main auditorium. Jesse Ketchum Hall, named in honor of the man who deeded the land to provide for a State Normal School in the City of Buffalo, houses the English and Language Departments, and the Vocational Technical Education and Exceptional Children Education Divisions. Gertrude Mary Bacon Hall, named for a former principal of the School of Practice, houses the Campus School and the Child Study Center. A new Campus School Complex is under construction. The old Gymnasium now houses the College store and faculty offices. The original President's residence is now the Faculty House.

Since 1931 many structural additions have been added to the growing campus. The Edward H. Butler Library, named in honor of a past president of the former Board of Visitors, contains the College's extensive book and periodical collection. Expansion of the Library is underway. Caudell Hall, named in honor of Myrtle V. Caudell, former Director of the Home Economics Division, houses that Division. The College Union has offices for the Administration of Student Activities, provides a recreational setting for students, and currently is being expanded.

Irving P. Bishop Hall, named for a former member of the Normal School faculty; Susan Frances Chase Hall, named for a former faculty member; George Bradford Neumann Hall, named for a former Dean of Men; May Louise Perry Hall, named for a former faculty member; High Rise, North Wing, South Wing and the new dormitory complex near Scajaquada Parkway, furnish resident accommodations for men and women. Louise Margaret Cassety Hall, named for a former Director of the Kindergarten Department, contains faculty offices. The Health, Physical Education and Recreation Building, provides space for departmental instruction, spectator sports, and recreational facilities. Adelbert Moot Hall, named for a former member of the Board of Regents, provides the College community with dining, banquet and lounge areas.

Daniel Sherman Upton Hall, named in honor of the third principal of the Normal School, contains the Art Education and Industrial Arts Education Divisions. The Science Building houses the biological and physical sciences; a companion structure, under construction, will double the space for these areas. The Communications/Lecture Hall contains the most advanced technological equipment and facilities available for group teaching and can seat approximately 1,550 students at one time in rooms of different sizes. The Home Management House at 5 Granger Place, provides a residence where Seniors live for a five-week period to gain experiences in the social and economic management of the home. Albright Hall contains the Music Department.

## ADMISSION TO UNDERGRADUATE STUDY

Admission to State University College at Buffalo is based on the academic and personal qualifications of the respective applicants as they promise success in the College. 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 made through the Admissions Office, State University College, 1300 Elmwood Avenue, Buffalo, New York 14222.

### 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. Required:
    - (1) For admission to the *secondary education* (gr. 7-12) *mathematics and science curricula*: for mathematics, chemistry or physics specialization, mathematics three units, sciences three units; for general science, earth science or biology specialization, mathematics two units, science three units.
    - (2) For admission to a *French or Spanish program*: at least two years of high school study in the proposed major language.
  - b. Recommended:
    - (1) A high school program which reflects a balance between general, special or technical studies as nearly as possible like that in the college curriculum to which the applicant seeks admission. For all students "college entrance" electives in high school will offer the best preparation for the general studies area in the College curricula; beyond this, electives in special fields (art, home economics, industrial arts, music) are preferred to the degree that they appear in the applicant's proposed College course of study.
    - (2) Regents examination scores. These permit the College to judge the applicant's achievement with greater confidence and uniformity, minimizing the differences among high school programs.



- (3) For admission to the Home Economics Education curriculum, the student should have shown competence in high school sciences and mathematics, preferred in this order: chemistry, biology, or physics and mathematics.
  - (4) For admission to the *Industrial Arts Education* curriculum, preference will be shown to applicants who present two units of mathematics (including elementary algebra) and two units of science.
  - (5) 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.
3. Satisfactory high school grades.
  4. Satisfactory scores from the New York State Regents Scholarship Examination or the State University Admissions Examination.
  5. For applicants to the teacher education programs, personal qualities which indicate probable success in the teaching profession as shown by a personal interview with a college representative.
  6. A medical examination report indicating satisfactory physical condition and good health (See Section on Health Science page 28)
  7. At least 16 years of age.

Final decision on an application is made on the basis of all of the above qualifications plus the high school's recommendation for success in college.

#### 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 the High School Record 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. At



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 if 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. 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, although they are welcome to request appointments when they can visit the campus and complete the interview requirement at the same time.

Applicants for admission to the *Division of Art Education* must present a portfolio of art work as part of the interview.

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, a satisfactory medical report on a form sent with the acceptance notice, residence card, and a \$50.00 non-refundable deposit on the first semester Student Association collections.
7. Final acceptance is offered following the receipt from the applicant's high school verifying certification of graduation and satisfactory senior year marks. Acknowledgment of final acceptance is also required before registration is permitted.

Applicants accepted for admission should be present on the opening day of the college year and will not be admitted thereafter except by special permission. Those unable to attend this opening session should notify the Admissions Office. Those absent without permission relinquish their status to those on a waiting list.

Applicants desiring to enter the College at the beginning of the second semester should write directly to the Director of Admissions for complete information. Admissions at this time of the year depend upon circumstances and are not a regular occurrence.



## 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).
  - 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. Complete a personal interview to be determined by the Admissions Office after all transfer forms are completed.

*A Consideration for Acceptance Will Not Be Evaluated Until All of the Above Conditions Have Been Fulfilled.*
6. Completion Dates for Applications and Materials
 

*September Admissions*

  - a. Application must be on file by May 1.
  - b. All materials pertaining to transfer except the final transcript must be on file by May 15.

*Summer Admissions*

  - a. Applications must be on file by May 1.
  - b. All materials pertaining to transfer except the final transcript must be on file by May 15.
7. No student will be admitted to the College until his/her final transcript and all other transfer records are complete. If the final record is not on file the day prior to official registration, the student would stand rejected.

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

8. An applicant from an institution which is not a unit of the State University of New York must have an over-all Grade Point Average of 2.5. Students now attending another unit of the State University of New York will be considered according to State University policy.
9. 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.
10. Special provisions concerning Normal School graduates will be in effect according to State regulations.
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.
13. Readmission Procedures
  - a. The applicant applies by letter to the Admissions Office for readmission, stating the time he desires to re-enter, the reasons for re-entering, and Division re-entering.
  - b.
 

<i>Semester or Session You Wish to Be Readmitted</i>	<i>Deadline Date</i>
February (2nd Semester)	December 15
Summer Session	Preceding May 1
September (1st Semester)	Preceding May 1
  - c. An applicant who has been on social or academic probation will not be considered for readmission until one year has elapsed.
  - d. The Admissions Office will check the proper offices or divisions for their professional judgment on whether or not readmission should be considered.
  - e. A decision is made by the Admissions Committee, and the applicant is notified.
  - f. The applicant will work out his program with the Division in which he/she is entering.



#### 14. Inter-Divisional Transfer Procedures

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

*Semester or Session You*

*Wish to Transfer*

February (Spring Semester)

Summer Session

September (Fall Semester)

*Deadline Date*

December 15

May 1

May 1

No requests for transfer will be considered after the above deadline dates.

- A student wishing transfer to another Division must meet the requirements of the Division to be entered.
- 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 .....	29.00	29.00	58.00
Insurance Premium .....	12.00	12.00	24.00
Total .....	\$253.50	\$253.50	\$507.00
Orientation fee (entering students) .....	\$3.25	or \$3.25	\$3.25

### ESTIMATE OF YEARLY EXPENSES

<i>Expense Items</i>	<i>Residence Hall</i>	<i>Commuter</i>
Tuition and Fees .....	\$ 507	\$ 507
Books and Supplies* .....	100	100
Room <sup>1</sup> .....	375 (double)	—
	305 (triple)	—
Board (Breakfast and Dinner) .....	340	—
Lunches (Not on contract) .....	160	125
Personal Items .....	150-300**	150-300
Travel .....	100-150	100-150
	\$1725-1925	\$982-1182

\*Art, Home Economics and Industrial Arts students should increase this estimate by the following amounts: Art \$250; Home Economics \$150; Industrial Arts \$150.

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

1. All rooms have individual phones (Centrex System).



## FEES AND COLLECTIONS

A combined charge of \$58.00 half payable each semester, is collected annually from each student. This fund is apportioned as follows:

1. The College Fee is used to provide equipment and services in College Union Building.
2. The Activity Tax supports student publications, dramatic presentations, musical organizations, film showings, convocations, and social activities.
3. 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.
4. The College Camp Tax is used to develop, equip, and maintain the College Camp for student use.
5. The Health Service Tax helps to provide health services including first aid, consultations, and other essential health benefits.
6. 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 \$58.00) are these fees:

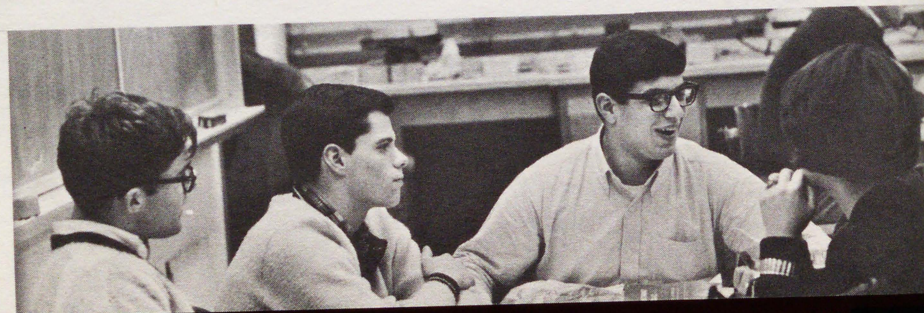
1. The Orientation Fee is a charge of \$3.25 to be paid by Freshmen and transfer students entering in September.
2. The Accident and Sickness Insurance Premium of \$24.00 provides coverage at all times during the college year, on or off the campus, including athletic and camp activities.

## REFUNDS

Refunds of tuition as due 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.

Refunds of fees as are due will be made on a pro-rated basis up to the middle of the semester after which there are no refunds.

The activity fee collected is completely refunded to a student if and only if the student ceases to be a CSA member within fourteen days of classes. In such cases, partial refunds will be made.



## 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

1. Attendance at classes and other College appointments is required. A student's schedule constitutes a series of obligated appointments.
2. Following an absence, the student must furnish a satisfactory explanation to his instructors. He should also recognize the educational loss to himself and supplement it by fulfilling all assignments that were missed.
3. Students absent for more than one week for personal illness must get a clearance statement from the Student Health Service Office before re-entering classes. This is not an excuse. Each instructor must initial this "clearance" as the student re-enters class. When signed by all the student's instructors the "clearance" must be returned to the Health Services Office.
4. Excessive or chronic tardiness will not be tolerated.
5. A student may be excluded from a course if the instructor considers absences and tardiness to be too frequent for acceptable achievement. Any recommendation to this effect must be forwarded to the student's Division Director who will upon review issue the necessary status change.

## AUDITING OF COURSES

Any student wishing to audit a course must first secure, in order, the approval of his 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 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 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.

*Status:* W—Official withdrawal; I—No points, work incomplete.

### 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 challenge a course more than once.

*Successful Challenge of a Course.* The passing of the examination administered as the result of a Challenge. A grade will be recorded for successful challenge for credit. A successful challenge for advanced standing will be recorded on a student's record.

*Advanced Credit.* Credit received as a result of scores on College Advanced Placement Examination or New York State Proficiency Examinations.

*Advanced Standing.* Exemption from a course without credit for that course and authorization to take in lieu of the exempted course a more advanced course.

### 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, and such approval may only be granted for requests involving medical reasons. Under no circumstances may a student be admitted after the close of the first week of classes.

Students with outstanding financial obligations will not be permitted to register.

Students subject to possible dismissal under the Dismissal or Probation regulation may not register without permission of the Vice President for Academic Affairs.

### SEMESTER HOUR LOAD

The normal semester hour load of a student is that indicated by the curriculum outline for each division for the specific semester. A student may register for additional or fewer hours than required by the curriculum only with the approval of the student's Division Director in advance of registration.

### UNIT OF CREDIT

The semester hour is the course unit of 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 advance credit work completed at other institutions 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 S and U and semester hour credits 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 deems it inadvisable.

### PROBATION

Students are expected to maintain a "C" average. Probationary status indicates an unsatisfactory record of academic performance. If it is not removed, it subjects the students to dismissal from college. Students with less than a "C" average (2.00) will be placed on probation. Students on probation may have a semester, and one full summer, to regain a cumulative average of "C". Failure to do this will subject them to dismissal. First semester freshmen grades will not apply toward probation. Students having academic difficulty are expected to approach their Division Director for assistance and guidance.

### SOCIAL PROBATION

A student violating accepted social practices of the campus will be placed on Social Probation and will receive special counseling services from the Office of Student Affairs. While on social probation he is ineligible to hold office in any





campus organization, to serve as chairman of any committee, to play on a College team, or to represent the College in any public or intercollegiate activity.

A student involved in a minor social conduct offense will be placed on a Warning Status. This action will not be entered on his permanent record nor prevent him from participating in college activities if he improves in behavior and attitude.

## 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.
6. Unacceptable social and emotional adjustment.
7. Failure to satisfactorily complete student teaching.

## WITHDRAWAL FROM COLLEGE AND HONORABLE DISMISSAL

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

Withdrawal should proceed as follows.

1. Consult the Division Director 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 and are entitled to honorable dismissal.

Refunds of fees as are due will be made on a pro-rated basis up to the middle of the semester after which there are no refunds.

## 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 during the first nine weeks of a semester and receive a "W" for that course provided he has first consulted with the instructor concerned and the director of the division in which he is a student. The division director shall process the drop after ascertaining that the student has discussed the matter with the instructor.

A student who drops a course after the first nine weeks will receive the grade of "E" for that course. An exception may be made for unusual circumstances beyond the control of the student. In such cases, the student may petition the Vice President for Academic Affairs for permission to drop a 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.

If a student does not process an official drop, and fails to continue with the course, his grade will be "E".

This policy became effective with the Fall Semester 1965-66.

## 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.

A list of all honor citations earned shall be published in the local newspaper.



## 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). A grade of S in total number of curricular required hours of student teaching must be earned before a student will be recommended for graduation.

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.

## APPLICATION FOR GRADUATION

Students expecting to qualify for a degree as of August or January must make application in the Registrar's Office by March 1 of the semester preceding completion of their requirements. Those expecting to qualify for a degree as of June must make similar application by November 1 of the preceding year.

In the next to last semester of each student's program a graduation check sheet is mailed to each student 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 record are not issued to students, either undergraduate or graduate, but will be forwarded upon request to educational authorities whom the students may designate. No charge is made for the first transcript. 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.

## SPECIAL REQUESTS

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

## 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. Supervision of all residence programs and facilities.
4. Administration of the military affairs program.
5. Provision of an educationally-oriented health program.
6. Administration of the financial aids program.
7. Administration of the Office of Admissions and Records.
8. Administration of Placement Services.

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

## STUDENT RESIDENCES

All 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 and twenty-five women students and four hundred men students are provided in ten residence halls. Most rooms have facilities for two students; a few are equipped for triple occupancy. Rooms have beds, built-in wardrobes, dressers, and study desks. Lounges, recreational facilities and laundry rooms with washers and dryers are provided.

Students provide their own pillows, blankets, bedspreads, window draperies, study lamps and irons. Students may provide their own bed linens or use a linen rental service which is available. Board in the College Dining Halls includes fourteen



meals per week (breakfast and dinner daily). Lunch and snacks are available in the cafeteria and snack bars. Applications should be addressed to the Director of Housing, State University College at Buffalo, 1300 Elmwood Avenue, Buffalo, New York 14222.

*Off-Campus Residences*—Off-campus residence for students in nearby private homes approved by the College supplement for facilities on campus if room is not available in Residence Halls. Some homes permit students to earn their maintenance. There are also a few housing facilities in which students provide food and services for themselves. Inquiries regarding off-campus residence and requests to live with relatives other than parents, should be addressed to the Director of Housing.

*Residence Registration*—A statement of residence is required at the time of Registration. No change in a student's residence can be made without prior approval of the Director of Housing. This regulation applies to both men and women students, including commuters and Buffalo residents.

## HEALTH SERVICES

*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 Men's Residence Hall. Registered professional nurses are available twenty-four hours a day. The College physician and part-time physicians are available in South Wing Hall, 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 undertaking. It is highly recommended that parents consent to have their sons and

daughters participate in these programs for the optimum health of the college community.

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.

*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.

*Charges for Health Program*—A Health Service Fee, part of the Student Association Collections, helps maintain the health services provided for all students.

*Insurance*—All students must enroll in the Group Health and Accident Insurance Policy selected by the Student Association or present evidence of membership in some other satisfactory health and hospital-insurance plan.

## COUNSELING SERVICES

The Office of the Vice-President for Student Affairs provides individual and group counseling services for all students. Special referrals are made to other services on and off the campus for those needing them.

*The Faculty Adviser Program*—Each student meets several times during the year with his Faculty Adviser in individual conference and group sessions. The Adviser, well-informed of the progress and problems of the student, helps him develop personally and professionally.

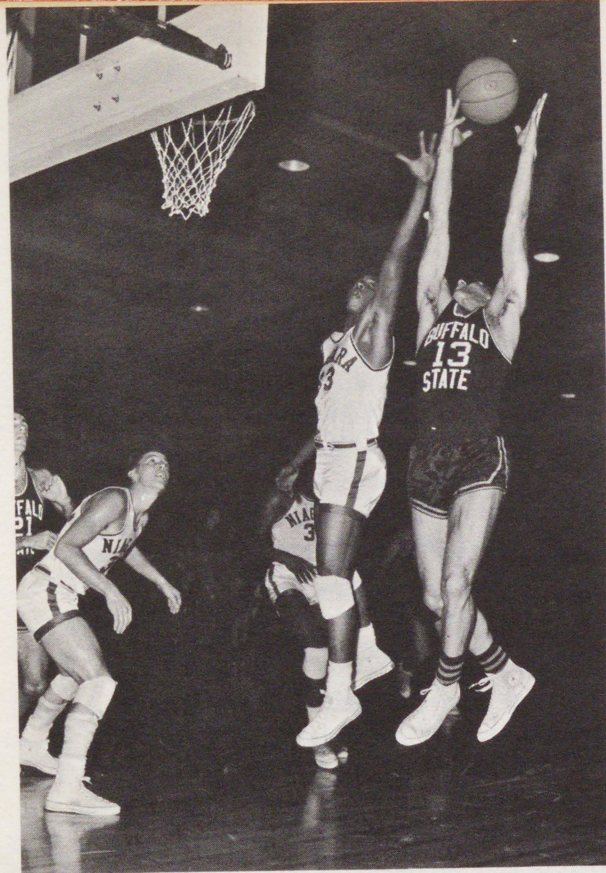
*Junior Counselors*—Selected Juniors serve as counselors to new students during their first year and help them adjust to college life.

*Freshman Orientation*—The first week of the fall semester, known as New Student Days, introduces the Freshman to college life, traditions, academic offerings, campus facilities, and student activities. As a concluding feature students are encouraged to attend college-sponsored week-end camps. An Orientation course is required during the first semester for every new student.

*OR. 100 Orientation*—Designed to assist entering students in their adjustment to the college environment through a study of the college society, the issues related to college life and the students' role and purposes. Required of all students for graduation. *One hour per week. No credit.*

*Individual and Group Counseling* is available to students with academic, personal, social, or personality 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. Faculty refer absentees as well as those having various other difficulties. The Housing Staff and Probation Appeals Board regularly refer those having special problems. Probation students are invited for consultation.





## 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.

## STUDENT GOVERNING GROUPS

All students upon matriculation become members of the College Student Association. The governing body, the House of Representatives, has members representing all areas of students' interest. It coordinates college-wide programs through its administration, commissions, boards, and special committees.

Students levy their own activity tax and through the House of Finance maintain experience in the distribution and control of these funds. The members of the House of Representatives include:

1. CSA President
2. CSA 1st Vice-President
3. CSA 2nd Vice-President
4. CSA Treasurer
5. CSA Vice-Treasurer
6. CSA Recording Secretary
7. CSA Corresponding Secretary
8. CSA Commissioners
9. The Chairman of the Traffic Department
10. Three Representatives from each class (one of which must be the class Vice-President)
11. Eight Representatives-at-Large
12. One Representative from each Board
13. One Representative from each Council
14. One Representative from each Residence Hall
15. One Representative from Inter-Residence Halls Association
16. The Vice-President for Student Affairs and one faculty member as advisers (ex-officio)



The judicial power of the CSA is invested in the Judicial Court, which is made up of 7 Justices, elected by the student body from a slate of candidates approved by both Houses of College Student Association.

The Judicial Council determines the constitutionality of all legislation brought before them by 10 or more members of the CSA, or the Student Affairs Office, along with arbitrating disputes arising between CSA organizations or branches of government and giving an opinion on the interpretation of the CSA Constitution and Constitutions of all CSA-approved organizations.

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

Commissions are administrative organizations of CSA, 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 House of Representatives.

Traffic Department is the administrative organization of the CSA which coordinates, organizes and administers the traffic situation of the CSA.

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

## COLLEGE UNION

The College 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 ongoing recreational program throughout the year is centered in the College Union. These activities are essentially provided by student activity taxes without additional cost to students, and are planned and carried out by the College Union Board. They are varied in nature to provide for a wide range of interest. Some of the most popular include:

Union Open Houses—informal occasions providing games, dancing, music, cards. Film Showings—a varied program of American and foreign films.

Dances—formal and informal, sponsored by various student organizations, as well as the College Union Board.

Coffee Hours—in conjunction with convocations, Reader's Hours, group meetings, distinguished guests, art show openings.

Seminars—various student groups participating on various topics.

Within the near future, the New Union will be completed. This makes available more facilities to the students.

## CAMPUS TRADITIONS

Some student activities have been so long a part of the College life that they have become traditions: Freshman Camps, Inter-class Sing, Frosh-Soph Dazing, Homecoming, Dean's Tea, College Holiday Week, State Fair, Leadership Conference, Parents' Weekend, Moving-Up-Day, Senior Week.

## PROFESSIONAL AND CULTURAL GROUPS

*The Art Club*, for any student interested in art, is both professional and social. The club is a member of the Eastern Arts Association and the Committee on Art Education.

*The Daniel Upton Chapter of the Student Education Association of New York State* studies professional aspects of teaching. Local chapter members enroll in the New York State Teachers Association and the National Education Association.

*The Home Economics Club*, affiliated with the American and New York State Home Economics Association, provides for the development of leadership and participates in services to the College and the community by such activities as a "get acquainted" party, articles for newspapers, and fashion shows.

*The 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, 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.

*The Debate Club* is open to all interested students and club members participate in several intercollegiate tournaments as well as local programs.

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

*The Mathematics Club*, open to all interested persons, is designed to promote a better understanding of mathematics in its relation to life, modern methods of teaching, the basic tools of mathematics and to encourage independent study.



*Casting Hall*, the student dramatic organization, produces several plays each year. It offers, in addition to opportunities for acting, experiences in costume and stage set design and construction.

A *Cappella Choir* membership is determined by an audition, which emphasizes intonation, tone quality and musical ability. Concert engagements include the Christmas concert, other special concerts and an annual choir tour.

The *Men's and Women's Glee Clubs* are open to all who can qualify by an audition held at the beginning of each semester. These groups participate in Christmas and Spring concerts, concerts at local schools and churches, and other concerts both on and off campus during the year.

*Band*, open to all students who can satisfactorily play an instrument, contributes to the life of the College through performances at athletic events and special concerts including the Concert-On-The-Green in May. College-owned instruments are available for student use.

*Orchestra membership* is open to all students who can satisfactorily play an orchestral instrument. College-owned instruments are available.

The *Foreign Language Club*, open to all students with an appreciation of the languages, the customs, and the cultures of the peoples of the world, affords an opportunity for expression in dramatics, music, discussions, conversation.

The *International Relations Club* encourages students to broaden their interest in current world events and promotes international understanding in future teachers.

The *Philosophical Society* encourages the serious discussion of issues and problems that face the student as he lives in today's world. Its membership includes both students and faculty.

Convocations held throughout the year provide special occasions when most of the students and faculty can come together for a common purpose. The programs include distinguished political commentators, literary personages, musical programs, and other events that together make a rich phase of college life. Convocations are planned by the Convocation Board of the College Student Association.

## RELIGIOUS GROUPS

*Canterbury Association*, an organization of Episcopalians and other students interested in the Episcopal Church, holds meetings and special events including speakers, fellowship breakfasts, services of Holy Communion.

The *Christian Science College Organization* is comprised of Christian Science students who are eager to increase their understanding of this religion. Inspira-

tional meetings are held weekly to help the members make practical the concepts 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.

*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 national fraternity which limits its membership to Industrial Arts majors having an academic average in the upper half of their class. Its objectives are to promote research, to provide desirable social experience, and to recognize excellence in the crafts.

*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

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

*The 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.

*The 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.

*The State Titans* is a freshman social and service organization with an upper class adviser. It provides social activities along with service to the College community.

## PUBLICATIONS

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 weekly newspaper, features current news of campus events and expresses student opinions on many issues, local, national, and international.

*The Elms*, the annual yearbook, contains a record of the Senior Class and College organizations.

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

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

## OUTDOOR AND CAMPING ACTIVITIES

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 summer recreation spot. An expansive lodge, equipped with large fireplaces, provides pleasant accommodations for fifty students for overnight or weekends. The Camp, owned by the students and administered by the College Camp Board, is open for the use of all student groups and alumni.

## ATHLETIC AND RECREATIONAL ACTIVITIES PROGRAM

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 and swimming. 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 Conference, the National Collegiate Athletic Association and the National Association for Intercollegiate Athletics.

## STUDENT ACTIVITIES

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 Athletic tax. Students are admitted to all College sports events without cost.

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, tennis and volleyball. Regularly scheduled contests in most of these activities are organized in the Fall and Spring Semesters.

Women's recreational activities, through the Women's Recreation Association, include intramural competition in archery, badminton, basketball, bowling, fencing, softball, swimming, tennis and volleyball. An opportunity is also given for participation in camping, field hockey, horseback-riding, golf, folk dance, modern dance, synchronized swimming, and table tennis.

*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 at many away games.





*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 major varsity athletic award.

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

## 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 and the Educational Opportunities' Grants of the Higher Education Act of 1965.

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 Coordinator of Financial Aids of this College.

In many instances it is also necessary to obtain additional forms from the Financial Aid Office 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:

Coordinator of Financial Aids  
 State University College at Buffalo  
 1300 Elmwood Avenue  
 Buffalo, New York 14222

Appointments to discuss problems or questions with the coordinator may be made in Room 212, Rockwell Hall.



## 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 Scholarship 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 Admissions Office at the time of application to the College.

## 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 Financial Aids Office.

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

*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 Coordinator of Financial Aids.

*Exceptional Education Scholarships*—Grants of financial assistance to students majoring in mental retardation, physical handicap, speech pathology and audiology 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.



*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. Applications 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 need with academic consideration and is made by the Club through the Financial Aids Office.

*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 Economic 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 died 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 Coordinator of Financial Aids or a representative of the 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 Secondary 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 Financial Aids Office. 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 \$800 (or one-half of his need, whichever is less) is given to a student in accordance to his total need 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.

Those students that maintain an average that places them in the upper 50 percent of their college class will receive an additional \$200 aid the following year.

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 usually 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 Mr. 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 have been enrolled at the College for one semester and who 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 expense in connection with their college careers.

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

*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 our 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, 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 ap-



plying after the due dates listed below should consider a bank loan under the New York Higher Education Assistance Corporation.

<i>Semester</i>	<i>Application Available</i>	<i>Application Due</i>
Fall	January 3	April 30
Spring	October 1	November 30
Summer	January 3	April 10

*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—\$750, Sophomore—\$1,000, Junior—\$1,250, Senior—\$1,500. Graduate—\$1,500, and Graduate (part-time)—\$750. Repayment begins sixty days after leaving college and may be spread over six years. There is no interest while attending college and three percent after leaving college. Applications may be secured from most banks or the Financial Aids Office. Usually the student must be 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. Application may be made at any time.

*Alumni Association Loan Fund*—Second semester Seniors in good standing are eligible for interest-free loans up to \$300, repayable within eighteen months 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 Coordinator 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.  
Rotary Club of Buffalo

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

## 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 and in business and industry. The Service operates under the direction of the Student Employment Counselor.

## PRELIMINARY CONSIDERATION

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 Coordinator of Financial Aids will assist students in making a sound appraisal of their financial problems and suggest various solutions.

## TYPES OF JOBS

Approximately twenty-five per cent 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 \$2.00 per hour, depending on the skill or physical labor required. 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. Some openings occur which provide more or less time.

The Work-Study Program under the Economic Opportunity Act became available in January, 1965 and has greatly increased student employment on campus. Inquiries concerning part-time employment should be addressed to:

Student Employment Office  
State University College—College Union  
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. In addition, those students who receive war orphans' benefits are required to submit monthly certifications of attendance to 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:

School:	No Dependents	One Dependent	Two or More Dependents
Full-Time	\$100	\$125	\$150
¾ Time	75	95	115
½ Time	50	65	75
Less Than ½ Time	Payments computed at the rate of the established charges for tuition and fees or \$100 per month for a full-time course, whichever is the lesser.		

For further information, contact your local Veterans Administration or the Coordinator 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

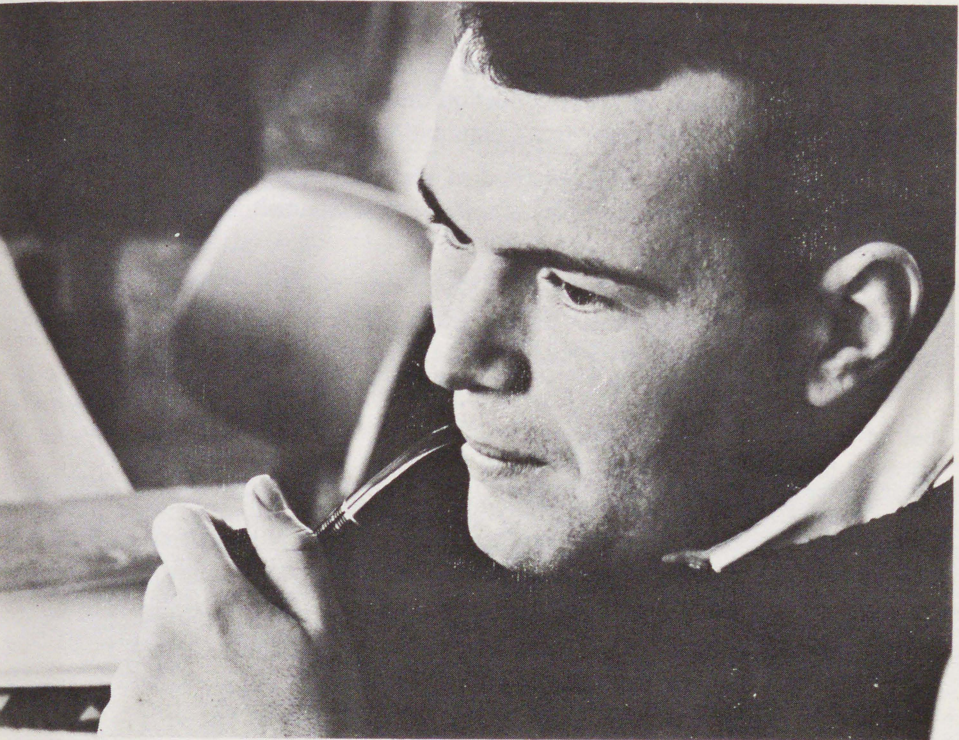
periods of six weeks each. Upon successful completion of the Bachelor's degree and this course, a student will be commissioned a Second Lieutenant in the United States Marine Corps Reserve. There is no military training during the academic year. Those who are enrolled in this program may be deferred 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 Registrar's Office, in Rockwell Hall, will 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, established in 1943 by Ruth Houston, Gertrude Roach and a committee of students are given for participation in extra-curricular sports. The first award, a three-inch block "S" in orange and black felt, is given for the accumulation of 500 points. The second award, a six-inch block "S" in orange and black chenille, is given for the accumulation of 1,500 points. The third award, a gold "S" key, is given for the accumulation of 2,000 points.

*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.

## COLLEGE PLACEMENT SERVICE

The Placement Office serves to help prospective graduates and graduates to secure the teaching positions they are best prepared to fill and to provide schools with competent, qualified teachers. The Office maintains a complete folder of personal data and references for each candidate, thus providing a continual source of confidential information for use by employing officials. Every candidate for the Bachelor's degree is required to register with the Placement Office. The forms necessary for registration and information concerning procedures to follow are available in May for all juniors expecting to graduate in January, June, or August of the following year.







## 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 plays and concerts, a June Reunion dinner and dance, and the Rockwell Memorial Fund. It administers the Buffalo State Alumni Foundation Fund, Inc. Significant contributions to the College, the staff, the students and the College community are being made through this Foundation Fund.

The Association presents two Certificates of Recognition annually for outstanding service or contribution to the recipient's chosen profession. A Distinguished Alumnus Award for service to the Alumni Association is awarded at the annual Reunion dinner.

An award is given at the Block "S" Dinner to the Senior athlete who has won at least one major varsity award and has maintained the highest academic average; and three scholarship grants are awarded at the Moving Up Day Program.

### CAMPUS SCHOOL

The Campus School has a faculty of thirty and a pupil enrollment of five hundred children. The children attend classes from three-year-old nursery school through eleventh grade. The school is used to provide laboratory experiences for college students in order they may observe, participate with, and teach children in a variety of situations. The Campus School participates in a program of experimentation and research. The facilities found in the school include a home economics laboratory, an art studio, an industrial arts shop, a science laboratory, gymnasium-auditorium, health clinic, library, general classrooms, and a Child Study Center.

The Campus School Library contains more than 10,000 children's books, filmstrips, recordings, pictures and other materials of value to the pupils and



teachers. A new Campus School will be ready for operation in September 1967. The school will enroll 1,200 children and will provide a program for three-year nursery school through the twelfth grade. In addition, it will house the Child Study Center and provide instruction to children who present exceptional problems of learning.

## THE CENTER FOR ECONOMIC EDUCATION

The Center for Economic Education at the College is primarily a means of improving economics taught in local elementary and secondary schools as well as assisting various organizations and the public in combating economic illiteracy. More specifically, the objectives of the Center are: to encourage schools to contribute to economic understanding; to encourage economic education in the preparation of teachers; to assist in the in-service training of educators in the area of economics; to aid organizations to promote the understanding of economic principles in our free and democratic society; to facilitate the use of materials, conferences, and radio and television so that the understanding of our free enterprise economy may be improved in all segments of the population; to encourage research and publications in economic education. The Center mobilizes College and community resources to support its wide variety of programs in the eight counties of Western New York as well as its research facilities which are available to educators, students, business, labor, etc. The Center cooperates with the New York State Education Department, The New York State Council on Economic Education and other state and national organizations involved in economic education. "Economic Viewpoint," a weekly radio series on WADV-FM (2:00-2:30 P.M., Sundays) is produced by the Center and hosted by the Director.

## CHILD STUDY CENTER

The Child Study Center is an agency which has research, service and training responsibilities. Physical facilities include a room where children can work, play, or be interviewed; an observation room equipped with a one-way vision screen 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

development. 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 Western New York.

## CONTINUING EDUCATION

Extending higher education opportunities to the public at large is the concern of the Continuing Education Division. Included in this concept are educational programs for those who *have not* achieved initial educational objectives as well as lifelong learning — programs for those who *have* achieved initial educational objectives. Adults in the community will have opportunities for seeking technical, vocational and professional objectives including programs leading to the bachelor's degree through late afternoon, evening and Saturday 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.

The Continuing Education Division 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, music concerts, festivals, dance recitals, and special events.

## GRADUATE PROGRAM

The Graduate Program offers late afternoon, evening and Saturday morning classes on the College campus during the academic year. Students interested in attending full-time should consult the Director of the Graduate Division. Graduate programs are available in the areas of Art Education, Early Secondary and Secondary Education, Elementary Education, Elementary Principalship and Supervision, Exceptional Children Education, Home Economics Education, Industrial Arts Education and Vocational Technical Education.

Requirements for the master's degree in the several curricula are described



in the Graduate Bulletin. Further information about graduate study may be obtained by writing to the Director of the Graduate Division.

## 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 Communications-Lecture Hall are of primary concern. Instructional equipment of all kinds, available at convenient locations throughout the College, provide for the audio-visual needs of the instructional program. Films, slides, tapes and specialized equipment are distributed from the Audio-Visual Center which co-ordinates their movement, maintains a film library (1,200 titles), and provides advisory services. Limited production facilities are available for development of slides, tapes, filmstrips, etc. Supplemental audio-visual materials are secured from museums, art galleries, industrial organizations and film libraries of other universities.

## INTERNATIONAL EDUCATION

In keeping with its responsibilities to all mankind in an ever-shrinking world, the College has embarked on a vigorous and many-sided program of international education to foster the broad purposes of international understanding and goodwill. It is believed that such purposes are especially significant for the education of teachers.

Increasing numbers of foreign students are studying at the College and this year over 100 students representing some forty countries will be enrolled. In an atmosphere of mutual reciprocity, these students are encouraged to participate actively in the College's academic and social life and they have brought a significant enrichment to the campus. An International Center is provided where domestic and foreign students have special opportunities to meet and get to know each other in informal, friendly surroundings. A cordial invitation is extended to all students to visit the Center regularly.

Study abroad is encouraged and the Semester in Siena Program is well established. Each semester forty students, accompanied by two professors, take a wide range of courses in art, history, English literature, Italian, home economics and sociology in Siena, Italy where they live with Italian families. Expansion of overseas study programs, notably in Latin America, England, Denmark, Israel and India is being planned. A student Exchange Program is operated with the

University of Puerto Rico. Several Summer Study Abroad Programs are provided for graduate students each summer.

The curriculum is being enriched and strengthened to include international area studies and special attention is given to non-Western cultures. A Latin American Area Studies Program has been established providing for both a liberal arts major and an elementary education concentration. Each year a cooperative student-faculty project, known as Emphasis Week, is organized by the International Affairs Commission of the Student Congress and a particular country is highlighted in special studies and activities throughout the campus for a week.

A scheme for visiting professors has been established and expanding opportunities are provided for administration and faculty members to teach and visit overseas. Training and internship programs are operated for visiting international students and educators in active cooperation with a wide variety of both governmental and private sponsoring agencies. Under the sponsorship of the African American Institute and the U.S. Department of State AID, African Development Institutes are conducted during the summer. A steady flow of incidental visitors is also received and special programs are worked out to suit their needs and interests.

The College participates with the Peace Corps in many of its activities and continuous planning is taking place to increase the College's commitment in this highly important international enterprise. Twenty students to date have joined the Peace Corps as volunteers and the College has a scheme for Peace Corps volunteer returnees to continue their studies under special scholarships provided for this purpose.

A wide and diverse range of community organizations is at present associated with the College's international program and the College is actively represented in significant national organizations related to problems and issues of international education.

## LIBRARY FACILITIES

The collection of over 118,000 volumes and 1,300 current periodicals is accessible on open shelves in the Edward H. Butler Library. The current annual rate of addition is over 25,000 volumes. Recordings are available for music appreciation, speech classes, and recreational listening. The microfilm editions of *The New York Times* and *The Buffalo Evening News* and a microfilm collection of periodicals, out-of-print materials, and doctoral dissertations are available for reading with the necessary specialized equipment. A Vicomatic Copier, and a Microfilm Reader-Printer are used for reproducing important informational materials. Additional books and materials from the State Library at Albany and else-





where may be secured through inter-library loans for faculty and graduate use. The Library will also arrange for photocopying of materials to be used in the reserve room and for single copies of materials from the Library collections. Special exhibits featuring topics of general interest to the College community are prepared by the faculty and the librarians.

The Laboratory of Instructional Materials provides a variety of curricular materials of value to students in education, including story books, textbooks, slides, records, filmstrips, pictures, maps, and posters. There is also a notable collection of drawings and books by Lois Lenski and a small collection of books of historical interest.

Students are instructed in the use of the Library in the English 101-102 courses. Through special arrangements upperclass groups and graduate students are given advanced instruction in the use of the Library. Student teachers and participants are instructed in the use of the Laboratory of Instructional Materials.

## OFFICE OF FEDERALLY AIDED PROGRAMS

The Office of Federally Aided Programs, established in 1965, maintains and disseminates to the faculty information on program opportunities, policy, and administrative procedures concerning governmental, private and commercial sponsors of research, training, and related programs. The coordinator's responsibilities involve the analysis of all Federal legislation pertaining to education and its applicability to the College. This Office serves as a reference and consultation center for faculty members preparing applications for outside funded programs and acts as a liaison between The Research Foundation of State University of New York and the particular governmental or private agency concerned. The Coordinator helps to promote and coordinate College participation with other edu-

cational institutions and community programs toward cooperative projects designed to better serve the educational needs of Western New York. The University Faculty Grants In Aid and Fellowship Program as well as active outside sponsored programs conducted by members of the College faculty are administered and coordinated by this Office.

## OFFICE OF URBAN EDUCATION

The Office of Urban Education, under the direction of the Vice-President for Administration, has been established in order to provide the most effective liaison possible between the State University College at Buffalo and all public and private agencies engaged in the continued improvement of educational opportunity in the urban community.

It endeavors to develop ways and means by which both graduate and undergraduate students may secure more preparation and experience in working with the educational problems of urban areas. The research resources of the College are being applied to the study of these problems through the Office of Urban Education.

## SUMMER SESSION

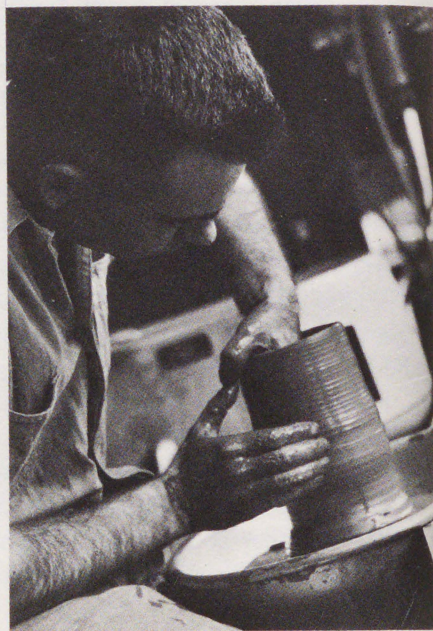
In 1966 over 3,500 students continued their education by attending classes in June, July or August. All of the College facilities, as described in this catalog, are available during the summer months. By attending one or more summer sessions any student may accelerate his date of graduation. Undergraduate students enrolling for twelve semester hours in Summer Sessions will receive, if otherwise eligible, a Scholar Incentive award on a refund basis. Inquiries in regard to the SIP should be directed to the Financial Aids Office.

Over 350 courses are available for graduate and undergraduate students. Several special workshops, seminars and studio courses are scheduled for two or three-week sessions. These courses are chosen to meet the needs of students completing degree requirements.

Tuition is \$13.50 a credit hour for undergraduate courses and \$20.00 a credit hour for graduate courses. In addition, all students pay a State University fee of \$.85 a credit hour and a Student Activity Fee of \$2.00.

Undergraduate students who are in good standing at other colleges may attend the Summer Session on the recommendation from their college. Applications and course announcements may be obtained from the Director of Summer Session.





## ART EDUCATION DIVISION

Graduates of the Art Education Division receive the degree of Bachelor of Science and are certified to teach art in the elementary, junior, and senior high schools of New York State. They may hold positions as teachers, supervisors, or consultants. A graduate curriculum leads to the degree of Master of Science.

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.

The art curriculum develops expressive and creative powers, knowledge of the place of art in our society, an ability to teach, and a knowledge of the use of art in many daily aspects of living. It includes a broad program of general studies. Electives in the junior and senior years provide opportunity for individual specialization in the art field. The program takes the student into the Buffalo metropolitan community to participate in the solution of various problems such as those to be found in housing, communications, industry, recreation, and education. It encourages attendance at educational conferences where the student meets outstanding members of his profession and authorities on Art Education. A semester of full-time student teaching takes him into two schools in different parts of the State to teach under master teachers.

The Art Division staff is internationally known for its leadership in art education, and the professional art achievements of individual staff members.

A new building, Upton Hall, contains specially designed equipment and new building features such as one-way view walls for observing selected groups in action, full-view windows from the halls into studios, and extensive display facilities to enrich learning through seeing as well as doing. Twenty-four studios provide for a wide variety of art activities including painting, photography, lithography, etching, sculpture, industrial design, theatre design, crafts, home planning and jewelry.



The nearby Albright-Knox Gallery with its permanent collection and exhibits from other cities and countries, affords first-hand opportunities to study original works of art. It houses one of the finest collections of contemporary art in this country. The Gallery's educational services and lecture series enable students to meet persons distinguished in art.

#### SEMESTER IN SIENA PROGRAM

Since September 1961, the State University College at Buffalo, in co-operation with the University of Siena and the Istituto 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 the 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.

#### 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.



### ART EDUCATION CURRICULUM

#### FIRST YEAR

<i>Course Titles</i>	<i>Class Hours</i>	<i>Credit Hours</i>
Art 101 Symposium .....	1	½
Art 102 Symposium .....	1	½
Art 103 Object Drawing .....	4	2
Art 104 Figure Drawing .....	4	2
Art 105 Introductory Design .....	4	2
Art 106 Exploratory Design .....	4	2
Art 107 Mechanical and Perspective Drawing .....	4	2
Art 108 Fundamentals of Photography .....	4	2
Art 109 Contemporary Art .....	2	2
Art 110 Design in Clay .....	4	2
Eng. 101 Effective Communication .....	3	3
Eng. 102 Effective Communication .....	3	3
Math. 103 Mathematics and Modern Life .....	3	3
S.S. 101 Man and His Institutions .....	3	3
Mus. 100 Listener's Orientation to Music .....	3	3
Phil. 104 Ways of Knowing .....	3	3
Or. 100 Orientation .....	1	0
<i>Total Hours for the Year</i> .....	<u>51</u>	<u>35</u>

#### SECOND YEAR

<i>Course Titles</i>	<i>Class Hours</i>	<i>Credit Hours</i>
Art 201 Introductory Painting .....	4	2
Art 202 Exploratory Painting .....	4	2
Art 203 Life Drawing .....	4	2
Art 204 Introduction to Printmaking .....	4	2
Art 205 Design in Metal .....	4	2
Art 206 Design in Fibers .....	4	2
Art 207 Design in Wood .....	4	2
Art 208 Introduction to Sculpture .....	4	2
Art 211 History of Art .....	2	2
Art 212 History of Art .....	2	2



Art 301	Child Art .....	}	4	3
OR				
Art 302	Adolescent Art .....	}	4	3
Ed. 101	Human Growth and Development .....			
Ed. 102	Human Growth and Development .....		4	3
P.Ed. 100	Physical Education .....		2	2
S.S. 102	Man and His Institutions .....		3	3
	<i>Total Hours for the Year</i> .....		53	34

### THIRD YEAR—First Semester

Course Titles		Class Hours	Credit Hours
Art 209	Lettering and Typography .....	}	4
OR			
Art 210	Home Design .....	}	4
Art 301	Child Art .....		
OR		}	4
Art 302	Adolescent Art .....		
Sci. 203*	Man and His Natural Environment .....	3	3
	Art Elective .....	4	2
	Non-Art Elective .....	3	3
	Free Elective or Art Elective .....	4	2
	<i>Total Hours</i> .....	22	15

### THIRD YEAR—Second Semester or FOURTH YEAR—First Semester

Course Titles		Class Hours	Credit Hours
Eng. 301	Ideas of Man and His World of Literature .....	3	3
Sci. 204*	Man and His Natural Environment .....	3	3
Art 209	Lettering and Typography .....	}	4
	OR		
	Free Elective .....	}	8
	Art Electives .....		
	Non-Art Electives .....	3	3
	<i>Total Hours</i> .....	21	15

\*Substitution of TWO courses from ONE of the following areas: Biology, Chemistry, Earth Science or Physics is possible with Divisional approval.

		OR		
Art 303	Elementary Teaching and Seminar .....	15	8	
Art 304	Secondary Teaching and Seminar .....	15	7	
	<i>Total Hours</i> .....	30	15	

### FOURTH YEAR—Second Semester

Course Titles		Class Hours	Credit Hours
Art 210	Home Design .....	}	4
	OR		
	Art Elective .....	}	3
Eng. 302	Ideas of Man and His World in Literature .....		
Hist. 301	Ideas and Social Change in Western Civilization ..	3	3
	Art Elective .....	4	2
	Non-Art Elective .....	3	3
	Free Elective .....	3	3
	<i>Total Hours</i> .....	20	16

### ART EDUCATION COURSES

#### ART 100. ESSENTIALS OF VISUAL ART

The nature of visual art; the creative process; aesthetic judgment; art's relation to contemporary culture; introductory creative-expressive experiences. *Classification:* Required of Elementary Education freshmen, Home Economics and Exceptional Education students, Liberal Arts Art majors, Art Concentrators; elective for others. *Credit:* Three semesters—three class hours.

#### ART 101. SYMPOSIUM

A coordinated series of programs, discussions, and presentations involving guest faculty members, visiting authorities, and students; presenting various points of view on the nature and function of the arts, education in the arts, and related areas of human experience. *Classification:* Required of Art Education freshmen. *Credit:* One-half semester hour—one class hour.

#### ART 102. SYMPOSIUM

A continuation of the series of programs, discussions, and presentations in Art 101. *Classification:* Required of Art Education freshmen. *Prerequisite:* Art 101. *Credit:* One-half semester hour—one class hour.

#### ART 103. OBJECT DRAWING

Fundamentals of freehand drawing, based primarily on the study and representation of objects and nature forms, with problems of analysis, response, visualization, composition, and technical standards; contour drawing; indications of surface texture, form, tone in various media. *Classification:* Required of Art Education freshmen, Liberal Arts Art majors, Art Concentrators. *Credit:* Two semester hours—four class hours.

#### ART 104. FIGURE DRAWING

Drawing from the draped and undraped figure, with an emphasis upon proportion.



structure, gesture, movement, and compositional possibilities; contour and modeled drawings; memory drawings; long and short poses; elements of anatomy; use of various media. *Classification:* Required of Art Education freshmen, Liberal Arts Art majors, Art Concentrators. *Prerequisite:* Art 103. *Credit:* Two semester hours—four class hours.

#### ART 105. INTRODUCTORY DESIGN

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. *Classification:* Required of Art Education freshmen, Liberal Arts Art majors, Art Concentrators. *Credit:* Two semester hours—four class hours.

#### ART 106. EXPLORATORY DESIGN

A continuation of the fundamentals of design in Art 105, with an emphasis on developing personal statements in various media. *Classification:* Required of Art Education freshmen, Liberal Arts Art majors, Art Concentrators. *Prerequisite:* Art 105. *Credit:* Two semester hours—four class hours.

#### ART 107. MECHANICAL AND PERSPECTIVE DRAWING

Basic principles in drafting, including orthographic and isometric projections, and perspective drawing; as an aid in visualizing and constructing original products and in interpreting creative interior and exterior designs for the home, school, and community. *Classification:* Required of Art Education freshmen. *Credit:* Two semester hours—four class hours.

#### ART 108. FUNDAMENTALS OF PHOTOGRAPHY

Fundamentals of the photographic processes; use of equipment, film development and printing with an emphasis on experimental possibilities, aesthetic considerations, and the use of the camera in developing sensitive awareness of subject, composition, form, texture, and value. *Classification:* Required of Art Education freshmen. *Credit:* Two semester hours—four class hours.

#### ART 109. CONTEMPORARY ART

Major trends, artists, and works of our time, with an emphasis on historical, artistic, judgmental, and cultural meanings as they reflect the twentieth century and past civilizations; including painting, sculpture, architecture, and other areas. *Classification:* Required of Art Education freshmen; elective for others. *Credit:* Two semester hours—two class hours.

#### ART 110. DESIGN IN CLAY

An exploration of clay as a medium for expression, sketching, figure modeling, and functional object design, with some elementary experience in the preparation of clay bodies and glazes; basic methods in forming, glazing, and firing of ceramic sculpture and pottery. *Classification:* Required of Art Education freshmen. *Credit:* Two semester hours—four class hours.

#### ART 111. ESSENTIALS OF DESIGN

The nature of visual art; the creative process; aesthetic judgment; art's relation to contemporary culture; foundation experience in the development of understanding and skills in design in various materials with emphasis on organization and presentation of design concepts, principally in two-dimensional media; exploration of elements of design as they relate to expressive creative, and functional applications. *Classification:* Required of Industrial Arts sophomores. *Credit:* Two semester hours—five class hours.

#### ART 112. ESSENTIALS OF INDUSTRIAL ARTS DESIGN

Exploration of design problems in various materials related to Industrial Arts and 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. *Classification:* Required of Industrial Arts sophomores. *Prerequisite:* Art 111. *Credit:* Two semester hours—five class hours.

#### ART 201. INTRODUCTORY PAINTING

An introduction to the methods and techniques of the painter, exploring color, line, form, texture, and compositional problems; using objects, nature, the figure, and abstract imagery as subject matter; employing various media such as watercolor, casein, gouache, tempera, and oil colors. *Classification:* Required of Art Education sophomores. *Credit:* Two semester hours—four class hours.

#### ART 202. EXPLORATORY PAINTING

A continuation of exploratory problems in painting, using a variety of methods, materials, and subjects; searching for personal symbolism and expression, increasing control of compositional matters, and a growing mastery of the media selected; related studies. *Classification:* Required of Art Education sophomores. *Prerequisite:* Art 201. *Credit:* Two semester hours—four class hours.

#### ART 203. LIFE DRAWING

A continuation of figure drawing, using the draped and undraped model, with a variety of media; figure portraits and group studies; increasing emphasis on anatomy and composition; insertion and articulation of bones, joints, and muscles; related study of anatomy. *Classification:* Required of Art Education sophomores. *Prerequisite:* Art 104. *Credit:* Two semester hours—four class hours.

#### ART 204. INTRODUCTION TO PRINTMAKING

An introduction to basic techniques of printmaking, involving discussions and dimensions of relief, intaglio, planographic, and serigraphic processes; with studio experience in one or more press-pulled graphic arts areas such as lithography, etching, and woodcutting. *Classification:* Required of Art Education sophomores. *Credit:* Two semester hours—four class hours.

#### ART 205. DESIGN IN METAL

Exploratory experiences in metalsmithing as a medium for sculptural expression and object design, utilizing the unique qualities of various metals and alloys; raising, forging, welding, soldering, riveting, casting, and other forming methods; surfacing treatments for metal. *Classification:* Required of Art Education sophomores. *Credit:* Two semester hours—four class hours.

#### ART 206. DESIGN IN FIBERS

An exploration of traditional and experimental techniques, using natural, synthetic, and created fibers in original textile design; weaving and related processes; selected experiences in creative stitchery, rug-hooking, resist dyeing, block printing, stencil printing, and other processes. *Classification:* Required of Art Education sophomores. *Credit:* Two semester hours—four class hours.

#### ART 207. DESIGN IN WOOD

Exploratory experiences in wood as a medium for sculptural expression and object design, stressing sensitivity to the unique qualities in various woods and the appropriate use of hand and simple power tools; finishing processes; discussions on technical and aesthetic problems. *Classification:* Required of Art Education sophomores. *Credit:* Two semester hours—four class hours.

#### ART 208. INTRODUCTION TO SCULPTURE

Sculpture as a means of individual expression; a general introduction to the theories and practices involved in the additive, subtractive, and constructive approaches to sculpture, with selected experiences using such materials as clay, plaster, wood, stone, and metal. *Classification:* Required of Art Education sophomores. *Credit:* Two semester hours—four class hours.

#### ART 209. LETTERING AND TYPOGRAPHY

A study of basic letter forms, with practice in the use of the brush, pen, and instrument, and related to problems of layout;



creative design in lettering; elements of typography and the design of printed publications, with an introductory experience in the use of type. *Classification:* Required of Art Education sophomores. *Credit:* Two semester hours—four class hours.

#### ART 210. HOME DESIGN

The home as a unique design for personal and family living; the design and furnishing of the home as a functional, aesthetically-satisfying unit, suited to its location, and appropriate for its special purpose; redesigning old homes and interiors; related consideration of school design. *Classification:* Required of Art Education sophomores. *Credit:* Two semester hours—four class hours.

#### ART 211. HISTORY OF ART

The development of art from prehistoric times to the Renaissance, emphasizing the major styles, artists, and monuments of western art; the relation of sculpture, architecture, painting, and other expressions to living. *Classification:* Required of Art Education sophomores; elective for other students. *Credit:* Two semester hours — two class hours.

#### ART 212. HISTORY OF ART

The development of Art from the Renaissance to 1900, emphasizing the major styles, artists, and monuments of western art; the relation of sculpture, architecture, painting, and other expressions to living. *Classification:* Required of Art Education sophomores; elective for others. *Prerequisite:* Art 211. *Credit:* Two semester hours—two class hours.

#### ART 213. PHOTOGRAPHY

Photography as a communications art; the making of documentary, pictorial, and creative compositions in black-and-white, in color, and in combination with other communication media; exploration of photographic processes and their use in self-expression and educational activities. *Classification:* Elective for all students except Art Education majors. *Credit:* Three semester hours—four class hours.

#### ART 214. DR. WING

Drawing as used in lecturing and teaching; development of visual aids, object and arrangement planning; selection of drawing content and treatment according to individual fields of interest. *Classification:* Elective for all students except Art Education majors. *Credit:* Three semester hours—four class hours.

#### ART 215. ARTS IN LIVING

A study of contemporary and historic art forms as they apply to everyday living. An analysis of the individual significance and interrelatedness of architecture, industrial design, the graphic arts, painting, sculpture, music and the theater arts. Participation in a variety of creative activities. *Classification:* Required of Science majors; elective for others. *Credit:* Four semester hours—four class hours.

#### ART 216. CREATIVE ART WORKSHOP

Individual exploration of various media. *Classification:* Required of Arts Concentrators; elective for other students except Art Education majors. *Prerequisite:* Art 100 or Art 111. *Credit:* Three semester hours—four class hours.

#### ART 217. WORKSHOP IN CRAFTS

Creative experience in a variety of crafts such as leather, metal, ceramics, and jewelry; individual projects. *Classification:* Elective for all students except Art Education majors. *Credit:* Three semester hours—four class hours.

#### ART 300. ESSENTIALS OF ART

Art in human development. Art experiences toward a variety of objectives; important differences between adult and child art; children's drawing, coloring, and creative construction activities, including the exploratory, symbolic, realistic; style, proportion and color related to degree of importance as well as relationship to natural appearance, relationship of creative art activities to the intellectual and emotional

growth of children. *Classification:* Required of Elementary Education juniors. Elective for all students except Art Education majors. *Prerequisite:* Art 100 or Art 111. *Credit:* Two semester hours — three class hours.

#### ART 301. CHILD ART

Children's intellectual, emotional, physical, perceptual, and creative growth; implications for developing art experiences and programs for children; observation and participation in organized activities with children. *Classification:* Required of Art Education juniors. *Credit:* Three semester hours — four class hours, including supervised participation.

#### ART 302. ADOLESCENT ART

Adolescents' intellectual, emotional, physical, perceptual, and creative growth; implications for developing art experiences and programs for adolescents; observation and participation in organized activities with adolescents. *Classification:* Required of Art Education juniors. *Credit:* Three semester hours — four class hours, including supervised participation.

#### ART 303. ELEMENTARY TEACHING AND SEMINAR

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. *Classification:* Required of Art Education majors; juniors or seniors. *Credit:* Seven semester hours — full-time, one-half semester.

#### ART 304. SECONDARY TEACHING AND SEMINAR

Supervised student teaching at assigned levels from seventh grade through senior high school, in various types of school and communities; conferences devoted to planning and evaluating teaching experiences; seminar discussions on professional problems of the beginning teacher. *Classification:*

*tion:* Required of Art Education majors; juniors or seniors. *Credit:* Eight semester hours—full-time, one-half semester.

#### ART 315. INDUSTRIAL ARTS DESIGN

Critique, design and redesign; technical proficiency in aesthetic and functional aspect of design. *Classification:* Required of all Industrial Arts Education juniors. *Prerequisite:* Art 111-112. *Credit:* Two semester hours—five class hours.

#### ART 401. WATERCOLOR PAINTING

An introduction to the transparent watercolor medium as a form of pictorial representation and self-expression; exploration of the unique qualities of the medium and techniques employed; investigation of stylistic possibilities, compositional problems. *Classification:* Elective for Art Education upperclassmen. *Prerequisite:* Art 202. *Credit:* Two semester hours—four class hours.

#### ART 402. TEMPERA PAINTING

An introduction to opaque aqueous materials such as casein, gouache, and egg tempera as a form of self-expression and representation; exploration of the unique qualities of these media and techniques employed; investigation of stylistic possibilities, compositional problems. *Classification:* Elective for Art Education upperclassmen. *Prerequisite:* Art 202. *Credit:* Two semester hours — four class hours.

#### ART 403. ADVANCED STUDIO IN PAINTING

Advanced painting, with media, style, and content based on individual needs; personal preparation and exploration of paints, grounds; concentration on individually-selected area of development in painting. *Classification:* Elective for Art Education upperclassmen. *Prerequisites:* Art 202; Art 401 or Art 402 desirable. *Credit:* Two semester hours—four class hours. *Special Note:* May be repeated or taken simultaneously for a maximum of six semester hours with administrative approval.



#### ART 404. ADVANCED STUDIO IN DRAWING

Advanced drawing, with media and content based on individual needs; exploration of various media; concentration on individually-selected area of development in drawing; use of model. *Classification:* Elective for Art Education upperclassmen. *Prerequisite:* Art 203. *Credit:* Two semester hours — four class hours. *Special Note:* Requires approval of instructor, and scheduled studio hours. May be repeated or taken simultaneously for a maximum of six semester hours with administrative approval.

#### ART 405. FIGURE MODELING.

Figure and portrait modeling as a basic sculptural discipline and means of expression; interpretation and portrayal of human form; practice in making armatures and building up with clay and plaster. *Classification:* Elective for Art Education upperclassmen. *Prerequisite:* Art 208. *Credit:* Two semester hours—four class hours.

#### ART 406. ADVANCED STUDIO IN SCULPTURE

Advanced sculpture, using a wide variety of materials and techniques; concentration on individually-selected area of development in sculpture based on personal interests and needs. *Classification:* Elective for Art Education upperclassmen. *Prerequisite:* Art 208. *Credit:* Two semester hours—four class hours.

#### ART 407. RELIEF PROCESSES IN PRINTMAKING

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. *Classification:* Elective for Art Education upperclassmen. *Prerequisite:* Art 204. *Credit:* Two semester hours—four class hours.

#### ART 408. INTAGLIO PROCESSES IN PRINTMAKING

An exploration of the intaglio process in the making of prints, including such possi-

bilities as etching, dry point, and engraving; emphasis upon personal expression and creative possibilities. *Classification:* Elective for Art Education upperclassmen. *Prerequisite:* Art 204. *Credit:* Two semester hours—four class hours.

#### ART 409. PLANOGRAPHIC PROCESSES IN PRINTMAKING

An exploration of the planographic processes in the making of prints, including such possibilities as the use of stone and metal in lithography, various media; emphasis upon personal expression. *Classification:* Elective for Art Education upperclassmen. *Prerequisite:* Art 204. *Credit:* Two semester hours—four class hours.

#### ART 410. SERIGRAPHIC PROCESSES IN PRINTMAKING

An exploration of the serigraphic processes in the making of prints, including such possibilities as silk screen and substitutes, with stencils of paper, film lacquer, tusche-glue, and other materials. *Classification:* Elective for Art Education upperclassmen. *Prerequisite:* Art 204. *Credit:* Two semester hours—four class hours.

#### ART 411. ADVANCED STUDIO IN PRINT MAKING

Advanced printmaking, using a wide variety of materials and techniques according to the needs and interests of the student; including such possibilities as lithography, wood engraving, etching, and silk screen; experimental prints, color exploration, mixed media. *Classification:* Elective for Art Education upperclassmen. *Prerequisites:* Art 204; Art 407, Art 408, Art 409, Art 410 desirable. *Credit:* Two semester hours — four class hours. *Special Note:* Requires approval of the instructor, and scheduled studio hours. May be repeated or taken simultaneously for a maximum of six semester hours with administrative approval.

#### ART 412. POTTERY MAKING

A study of ceramic materials and processes with an emphasis on pottery making;

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. *Classification:* Elective for Art Education upperclassmen. *Prerequisite:* Art 110. *Credit:* Two semester hours—four class hours.

#### ART 413. CERAMIC SCULPTURE

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; cast making for reproduction; consideration of form and space, design. *Classification:* Elective for Art Education upperclassmen. *Prerequisite:* Art 110. *Credit:* Two semester hours — four class hours.

#### ART 414. CERAMIC MATERIALS

A study of ceramic raw materials, their origin and properties; selection and preparation of clay bodies; glaze calculation and preparation; development of original and experimental glazes, test firings and applications. *Classification:* Elective for Art Education upperclassmen. *Prerequisite:* Art 110. *Credit:* Two semester hours — four class hours.

#### ART 415. ADVANCED STUDIO IN CERAMICS

Advanced study of design and expression through the clay medium based on the needs and interests of the student; continued exploration in clay bodies and glazes; individual concentration on the potter's wheel, slip casting, ceramic sculpture, and firing practice. *Classification:* Elective for Art Education upperclassmen. *Prerequisites:* Art 110; Art 413 and Art 414 desirable. *Credit:* Two semester hours — four class hours. *Special Note:* Requires approval of instructor, and scheduled studio hours. May be repeated or taken simultaneously for a maximum of six semester hours with administrative approval.

#### ART 416. ADVANCED STUDIO IN WOOD DESIGN

The design and creation of a major proj-

ect 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. *Classification:* Elective for Art Education upperclassmen. *Prerequisite:* Art 207. *Credit:* Two semester hours — four class hours. *Special Note:* Requires approval of instructor, and scheduled studio hours. May be repeated or taken simultaneously for a maximum of six semester hours with administrative approval.

#### ART 417. WEAVING PROCESSES IN TEXTILES

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. *Classification:* Elective for Art Education upperclassmen. *Prerequisite:* Art 206. *Credit:* Two semester hours—four class hours.

#### ART 418. PRINTING PROCESSES IN TEXTILES

Advanced study and exploration of textile design for specific uses, with an emphasis on such printing techniques as silk screen and block printing on cloth; aesthetic and practical considerations in the design of printed textiles. *Classification:* Elective for Art Education upperclassmen. *Prerequisite:* Art 206. *Credit:* Two semester hours—four class hours.

#### ART 419. APPLIQUE PROCESSES IN TEXTILES

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. *Classification:* Elective for Art Education upperclassmen. *Prerequisite:* Art 206. *Credit:* Two semester hours—four class hours.



#### ART 420. ADVANCED STUDIO IN TEXTILE DESIGN

Exploration of various design techniques on an advanced level; concentration in individually-selected projects or areas of textile design; weaving, printing, applique, and other traditional and experimental techniques according to student interest and need. *Classification:* Elective for Art Education upperclassmen. *Prerequisite:* Art 206; Art 417; Art 418; Art 419 desirable. *Credit:* Two semester hours—four class hours. *Special Note:* Requires approval of instructor, and scheduled studio hours. May be repeated or taken simultaneously for a maximum of six semester hours with administrative approval.

#### ART 421. METALSMITHING

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 metal. *Classification:* Elective for Art Education upperclassmen. *Prerequisite:* Art 205. *Credit:* Two semester hours—four class hours.

#### ART 422. ADVANCED STUDIO IN METALSMITHING

Advanced experiences in metalworking techniques and design, based on the needs, interests, and background of the student; individual projects in such areas as raising, welding, casting, spinning, and so on; enameling and other surface enrichment. *Classification:* Elective for Art Education upperclassmen. *Prerequisite:* Art 205; Art 421 desirable. *Credit:* Two semester hours—four class hours. *Special Note:* Requires approval of instructor, and scheduled studio hours. May be repeated or taken simultaneously for a maximum of six semester hours with administrative approval.

#### ART 423. JEWELRY MAKING

Exploration of materials and processes in jewelry making, emphasizing creative de-

sign; stressing basic working techniques in the fabrication of jewelry from sheet and wire, sawing, shaping, hard soldering, and so on; introductory experiences in stone setting, gem polishing, combinations with exotic woods. *Classification:* Elective for Art Education upperclassmen. *Prerequisite:* Art 205. *Credit:* Two semester hours—four class hours.

#### ART 424. CAST JEWELRY

Exploration of materials and processes used in casting jewelry in silver and gold, including one-piece open-mold casting, and cuttlefish casting, as well as lost wax processes utilizing steam casting and centrifugal casting techniques; finishing procedures; design implications. *Classification:* Elective for Art Education upperclassmen. *Prerequisite:* Art 205; Art 423 desirable. *Credit:* Two semester hours—four class hours.

#### ART 425. GEM POLISHING

Lapidary techniques in sawing, grinding, sanding, and polishing semi-precious stones; drilling, tumbling; emphasis on cabochon and free-form shapes; hand as well as machine processes; acquaintance with various kinds of gem stones, degrees of hardness, and suitability for various uses. *Classification:* Elective for Art Education upperclassmen. *Prerequisite:* Art 423. *Credit:* Two semester hours—four class hours.

#### ART 426. ADVANCED STUDIO IN JEWELRY

Advanced exploration of materials and processes used in jewelry making, with increasing emphasis on design aspects; concentration on individually-selected projects and areas of special interest; possibilities for individual experimentation and the use of unusual techniques. *Classification:* Elective for Art Education upperclassmen. *Prerequisite:* Art 423; Art 424 and Art 425 desirable. *Credit:* Two semester hours—four class hours. *Special Note:* Requires approval of instructor, and scheduled studio hours. May be repeated or taken simultaneously for a maximum of six semester hours with administrative approval.

#### ART 427. ADVERTISING DESIGN

Principles of advertising design as communication, motivation, and visual persuasion; problems in advertising and publication design; illustration media and techniques; topographic design and reproduction processes; preparation of material for various methods of reproduction. *Classification:* Elective for Art Education upperclassmen. *Prerequisite:* Art 209. *Credit:* Two semester hours—four class hours.

#### ART 428. GRAPHIC DESIGN

Advanced problems in advertising, publication, display, 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. *Classification:* Elective for Art Education upperclassmen. *Prerequisite:* Art 427. *Credit:* Two semester hours—four class hours.

#### ART 429. ILLUSTRATION

Advanced problems in advertising, editorial, and technical illustration, in black and white and color, and carried out in various media; color separation; photo-retouching; photo-mechanical techniques; a study of various techniques used in illustration today; development of personal style. *Classification:* Elective for Art Education upperclassmen. *Prerequisite:* Art 427. *Credit:* Two semester hours—four class hours.

#### ART 430. WORKSHOP IN GRAPHIC ARTS PRODUCTION

A cooperative program of practical problems in the design and production of printed matter, including typographic design, paper selection, composition, camera and platemaking operations, letterpress and photolithographic processes. *Classification:* Elective for Art Education upperclassmen. *Credit:* Two semester hours—four class hours. *Special Note:* Open to a limited group of Industrial Arts and Art Education students by permission of the instructors.

#### ART 431. CREATIVE PHOTOGRAPHY

Photography as an art medium and as an educational tool; creative and expressive use of photographic equipment, material and process; technical camera and dark room processes and their application in pictorial composition and expression; the creative camera as a teaching asset. *Classification:* Elective for Art Education upperclassmen. *Prerequisite:* Art 108. *Credit:* Two semester hours—four class hours.

#### ART 432. ADVANCED STUDIO IN PHOTOGRAPHY

Advanced photographic techniques with a continuing emphasis on sensitive individual expression in the medium; the application of photographic processes to the needs of the student, future teacher and artist; concentration on individually-selected areas of special interest. *Classification:* Elective for Art Education upperclassmen. *Prerequisite:* Art 431. *Credit:* Two semester hours—four class hours. *Special Note:* Requires approval of instructor, and scheduled studio hours. May be repeated or taken simultaneously for a maximum of six semester hours with administrative approval.

#### ART 433. PRODUCT DESIGN

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. *Classification:* Elective for Art Education and Industrial Arts upperclassmen. *Prerequisite:* Art 107 or 315. *Credit:* Two semester hours—four class hours.

#### ART 434. ADVANCED STUDIO IN PRODUCT DESIGN

Advanced study of product design, custom design for specific uses and settings; experiments with recently-developed materials as well as established ones; individual projects in such areas as tools, housewares, appliances, and so on; emphasis on ingenuity in the design solution. *Classification:* Elective



for Art Education and Industrial Arts upperclassmen. *Prerequisite:* Art 433. *Credit:* Two semester hours — four class hours. *Special Note:* Requires approval of instructor, and scheduled studio hours. May be repeated or taken simultaneously for a maximum of six semester hours with administrative approval.

#### ART 435. EXHIBITION TECHNIQUES

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. *Classification:* Elective for Art Education upperclassmen. *Credit:* Two semester hours — four class hours.

#### ART 436. INTERIOR DESIGN

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. *Classification:* Elective for Art Education upperclassmen. *Prerequisite:* Art 210. *Credit:* Two semester hours — four class hours.

#### ART 437. COMMUNITY DESIGN

The design of the modern community related to problems of residential areas, the needs of business and industry, the location of public buildings and schools, recreation needs, transportation problems; the green-belt concept; redevelopment problems of the city; research and suggested solutions for existing problems. *Classification:* Elective for Art Education upperclassmen. *Credit:* Two semester hours — four class hours.

#### ART 438. CREATIVE LEATHERWORK

Design applied to the making of products in leather, approached from the viewpoint of the contemporary designer-craftsman; the adaptation of traditional techniques and

invention of new solutions in construction methods; leather in combination with other materials; research and experiment in the area. *Classification:* Elective for Art Education upperclassmen. *Credit:* Two semester hours—four class hours.

#### ART 439. RESEARCH IN ART EDUCATION

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 Education upperclassmen. *Credit:* Two semester hours—two class hours. *Special Note:* May be repeated or taken simultaneously for a maximum of six semester hours with administrative approval.

#### ART 440. ART PROGRAMS FOR ADULTS

Special psychological and creative problems of the adult; community programs in art and art education sponsored by the schools and other agencies; cultural and leisure-time needs of adults; government programs in the arts; developing local art programs, including the crafts. *Classification:* Elective for Art Education upperclassmen. *Credit:* Two semester hours — two class hours.

#### ART 441. ORIENTAL ART

The major styles, artists, and monuments of Islam, India, China, and Japan; oriental architecture, painting, sculpture, prints; textiles, pottery, costume, jewelry, gardens, with related reference to music, poetry, dancing, and the theater. *Classification:* Elective for all students. *Credit:* Three semester hours—three class hours.

#### ART 442. SCENOGRAPHY

Design for the stage; philosophy, theory, practices in design for the dramatic arts; the relationship of scenery, costume, makeup,

lighting and allied stage crafts; function of the designer; development of theater design problems from the design concept to working drawings and the making of models. *Classification:* Elective for Art Education upperclassmen. *Credit:* Two semester hours—four class hours.

#### ART 443. ADVANCED SCENOGRAPHY

Advanced theater design; how the different elements of the stage function in various scenes; 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. *Classification:* Elective for Art Education upperclassmen. *Prerequisite:* Art 442, or special permission. *Credit:* Two semester hours—four class hours. *Special Note:* May be repeated or taken simultaneously for a maximum of four semester hours with administrative approval.

#### ART 444. TECHNICAL PLAY PRODUCTION

Introduction to the various visual aspects of theater production; technical organization, stage design, stage mechanics, lighting, costumes, makeup; play production problems for proscenium, arena, and flexible staging; practical experience in technical production, including crew work. *Classification:* Elective for Art Education upperclassmen. *Credit:* Two semester hours—four class hours.

#### ART 445. ADVANCED TECHNICAL PRODUCTION

Advanced study and experience in technical play production introduced in Art 444; leadership and responsibility in one or several areas of technical production for plays in rehearsal and during performances; special projects and research in one or several areas of technical direction. *Classification:* Elective for Art Education upperclassmen. *Prerequisite:* Art 444, or special permission. *Credit:* Two semester hours—four class hours. *Special Note:* May be repeated or taken simultaneously for a maximum of

four semester hours with administrative approval.

#### ART 446. DESIGN WITH LIGHT.

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 Education upperclassmen. *Credit:* Two semester hours—four class hours.

#### ART 447. STAGE LIGHTING

Theory and practice in lighting the stage; the creation of special effects and illusions; the metaphor of color light; stage lighting equipment and electrical control; developing light plots for various kinds of productions; practical experience in plays under production, including required crew work. *Classification:* Elective for Art Education upperclassmen. *Prerequisite:* Art 446, or special permission. *Credit:* Two semester hours—four class hours.

#### ART 453. MASTERWORKS OF PAINTING AND SCULPTURE

An introduction to master-works of painting and sculpture for non-art majors; emphasizing outstanding examples of art selected from various periods, cultures, styles, and movements from early civilizations to the present; the artist as an interpreter and as a culture-maker; extra class assignments. *Classification:* Elective for all students except art majors, with prerequisite. *Credit:* Two or three semester hours—two or three class hours.

#### ART 454. MASTERWORKS OF ARCHITECTURE

An introduction to masterworks of architecture for non-art majors; emphasizing architecture as a living organism; selected from various periods, cultures, and styles, from early civilizations to the present; places of worship and interment, public buildings, private residences; extra class



assignments. *Classification:* Elective for all students except art majors, without prerequisite. *Credit:* Two or three semester hours—two or three class hours.

**ART 456. LATIN AMERICAN ART:  
PRE-COLUMBIAN**

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. *Classification:* Elective for all students, without prerequisite. *Credit:* Two or three semester hours—two or three class hours.

**ART 457. LATIN AMERICAN ART:  
FROM COLONIAL PERIOD**

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. *Classification:* Elective for all students, without prerequisite. *Credit:* Two or three semester hours—two or three class hours.

**ART 469. ANCIENT ART OF THE  
NEAR EAST**

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, discussions, extra class assignments. *Classification:* Elective for all students. *Credit:* Two or three semester hours—two or three class hours.

**ART 470. ART OF THE CLASSICAL  
WORLD**

A concentrated study of the architecture, sculpture, and painting of Greece and Rome; from the Minoan and Mycenaean civiliza-

tions 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. *Classification:* Elective for all students. *Credit:* Two or three semester hours—two or three class hours.

**ART 471. EARLY MEDIEVAL ART**

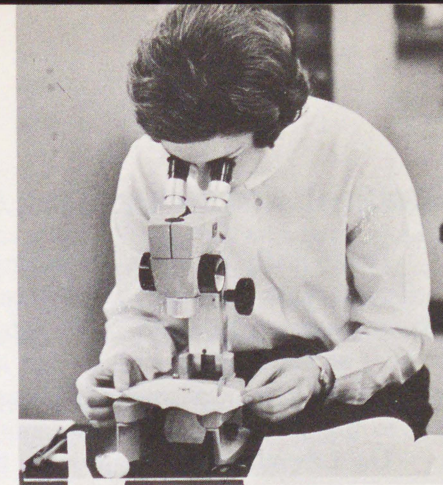
A concentrated study of the art and architecture of Western Europe, in relation to the arts of the Classical World and Byzantine art, from the eighth through the eleventh century; emphasizing historical and religious means of the art, architecture, manuscript illuminations, and jewelled arts of the period; lectures, extra class assignments. *Classification:* Elective for all students. *Credit:* Two or three semester hours—two or three class hours.

**ART 472. ROMANESQUE AND  
GOTHIC ART**

A comprehensive study of architecture, sculpture, painting, and decorative arts of the Romanesque period through the Gothic era; Pilgrimage churches to 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. *Classification:* Elective for all students. *Credit:* Two or three semester hours—two or three class hours.

**ART 495. INDEPENDENT PROJECT  
OR STUDY**

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. *Credit:* One to six semester hours. *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.



## ARTS AND SCIENCES

The Arts and Sciences are organized into three academic divisions: Arts and Humanities, Social Sciences, and Mathematics and Science. The Arts and Humanities include the Departments of English, Foreign Language, Health and Physical Education, Music, Philosophy, and Speech and Theater Arts. The Social Sciences include the Departments of History, Geography, Political Science-Economics, Psychology, and Sociology-Anthropology. The Mathematics and Science area includes the Departments of Biology, Chemistry, Geology, Mathematics, Physics and General Science.

A Bachelor of Arts degree is offered with majors in the various departments and is described in detail under the Liberal Arts Curriculum.

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 of 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.



## 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.

## LIBERAL ARTS CURRICULUM

### 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 .....24-40
  - c. Electives .....20-36
  - d. Physical Education .....4
  - e. Competence in a Foreign Language

### II. *Distribution of Breadth Requirements:*

#### A. A minimum of 14 hours in each of the following academic divisions:

THE ARTS	HUMANITIES	SOCIAL SCIENCE	MATH. & SCIENCE
Music	Eng. Lit.	History	Mathematics
Art	Philosophy	Economics	Biology
Drama &	Communication	Sociology	Chemistry
Speech Arts	Foreign Lang.	Political Sci.	Physics
Dance		Geography	Earth Science
Radio & TV		Anthropology	
		Psychology	

1. *The Arts*—Courses must be elected from at least three of the following areas: Area 1. Dance; Area 2. Music; Area 3. Speech and Drama; Area 4. Visual and Plastic Arts.
2. *Humanities*—Courses must include English 101-2, Effective Communication or its equivalent (6 hours); and electives in Literature (6 hours); and Philosophy (3 hours).
3. *Social Science*—Courses must include S.S. 101-2; Introduction to Social Sciences (6 hours); and electives in American History (3 hours); Non-American History (3 hours); and a Social Science (3 hours).
4. *Mathematics and Science*—Courses must include a minimum of one semester of mathematics and two semesters of science. Courses designated by the departments as sequential must be taken for two semesters. No course taken for breadth is to be counted also as part of the major.

### III. *Major Programs*

#### A. Types of major:

1. *Divisional*—The Arts, Humanities, Social Sciences.
2. *Departmental*—Art, Biology, Chemistry, English, Foreign Language, Geography, Geology, History, Mathematics, Music, Philosophy, Physics.
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-Drama, 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

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

2. *Biology*—36 hours

A. Required courses:

Biol. 111-112, General Biology (or equivalent)	Credit Hours 6-8
Biol. 203, Genetics (Prereq. Biol. 111-112; Biometrics or Calculus)	4
Biol. 301, General Physiology (Prereq. Biol. 111-112, Chem. 111-112) (Organic Chem. recommended)	3
Biol. 401, Ecology (Prereq. Biol. 203, Biol. 301)	4
Biol. 405, Organic Evolution (Prereq. Biol. 401)	3

20-22

B. Elective courses in the biological sciences selected under faculty advisement

16-14

36



3. *Chemistry*—36-38 hours

Required Courses

	Credit Hours
Chem. 111-112, Gen. Chemistry (or equivalent)	6-8
Chem. 201-202, Organic Chemistry (or equivalent) (Prereq. Chem. 111-112)	8
Chem. 210, Literature of Chemistry (Prereq. Chem. 111-112)	1
Chem. 301, Analytical Chemistry (Prereq. Chem. 111-112 and Jr. Standing in Chem.)	3
Chem. 403, Instrumental Chemistry (Prereq. Chem. 301)	3
Chem. 405-406, Physical Chemistry (Prereq. 2 yrs. Chem., 1 yr. Phys., 1 yr. Cal.)	8
Chem. 400, Inorganic Chemistry (Prereq. Chem. 405)	3
Chem. 401, Biochemistry (Prereq. Chem. 405)	4

36-38

4. *English*—36 hours

- Courses in general literature: Survey of English Literature, (Eng. 107, 108) (6), American Literature (3), World Literature (6), Contemporary Literature (3) (18 hours)
- A course in speech (3 hours)
- A course in advanced writing (3 hours)
- A course in Chaucer, Shakespeare or Milton (3 hours)
- English electives (9 hours)

5. *Foreign Language*—36 hours

a. French—30 hours from the following:

	Credit Hours
Fr. 201 Intermediate French	3
Fr. 202 Intermediate French	3
Fr. 301 French Composition & Conversation	3
Fr. 302 French Composition & Conversation	3
Fr. 303 Classical French Drama	3
Fr. 304 Nineteenth Century French Drama	3
Fr. 306 French Civilization	3

81



Fr. 307	History of French Literature	3
Fr. 308	History of French Literature	3
Fr. 401	Contemporary French Literature	3
Fr. 403	Backgrounds of Modern French	3
Fr. 404	French Novel	3
Plus 6 semester hours in a related field, (e.g.) another language.		

b. Spanish—30 hours from the following:		Credit Hours
Span. 201	Intermediate Spanish	3
Span. 202	Intermediate Spanish	3
Span. 301	Spanish Composition & Conversation	3
Span. 302	Spanish Composition & Conversation	3
Span. 303	Modern Spanish Masterpieces	3
Span. 306	Hispanic Civilization	3
Span. 307	History of Spanish Literature	3
Span. 308	History of Spanish Literature	3
Span. 401	Cervantes	3
Span. 402	Spanish Classical Drama	3
Span. 403	Background of Modern Spanish	3
Span. 404	19th Century Literature	3
Span. 405	Survey of Latin American Literature	3
Plus 6 semester hours in a related field, (e.g.) another language.		

#### 6. Geography—36 hours

a. Required Geography courses:		Credit Hours
*1. Elements of Physical Geog.	Geog. 101	3
*2. Elements of Cultural Geog.	Geog. 102	3
3. Conservation of Nat. Resources	Geog. 207	3
4. World Economic Geography	Geog. 305	3
*5. Cartography	Geog. 3—	3
*6. World Climatology	Geog. 3—	3
*7. Urban Geography	Geog. 4—	3
*8. Development of Geog. Thought and Methodology (a seminar)	Geog. 4—	3
9. Any regional course		3

\*Courses new to the Department of Geography's list of offerings. 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:		
1. Physiography	E.S. 201	3
c. Required Social Studies courses:		
1. General Anthropology	Anth. 201	3
2. The American Community	Soc. 201	
or		or
Principles and Problems of Economics Part I, Macro-Econ	Ec. 201	3
		<hr/> 6

#### 7. Geology—30-33 hours

a. Required Courses:		Credit Hours
E.S. 112, Physical Geology (or equivalent)		3-4
E.S. 201, Geomorphology		3
(Prereq. E.S. 112)		
E.S. 204, Historical Geology		3
(Prereq. E.S. 112)		
E.S. 301, Stratigraphy & Sedimentation		3
(Prereq. E.S. 201, 204)		
E.S. 302, Paleontology		3
(Prereq. E.S. 204, 1 yr. Biology)		
E.S. 303, Mineralogy		3
(Prereq. E.S. 112, 1 yr. Chem. Calculus)		
E.S. 304, Petrology		3
(Prereq. E.S. 303)		
b. Earth Science Elective from following		3
		<hr/> 24-25
E.S. 401, Structural Geology		
(Prereq. one yr. Physics)		
E.S. 402, Geology of North America		
(Prereq. E.S. 301, 302)		
E.S. 403, Glacial Geology		
(Prereq. E.S. 112)		
E.S. 404, Oceanography		
E.S. 405, Marine Geology		
(Prereq. E.S. 112, 204)		
E.S. 406, Spage Geology		
(Prereq. E.S. 204, E.S. 111 (Astronomy, Meteorology)		
c. A second year of Bi., Chem., or Physics		6-8



8. *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

9. *Mathematics*—30 hours

Completion of Math. 107, 108, 109, and 202. Fifteen hours of mathematics from the following with at least one course from each of the four groups.

Group I. Analysis

- |           |                        |              |
|-----------|------------------------|--------------|
| Math. 304 | Differential Equations | Credit Hours |
| Math. 309 | Advanced Calculus I    | 3            |
| Math. 407 | Advanced Calculus II   | 3            |
| Math. 406 | Numerical Analysis     | 3            |

Group II. Modern Alegbra

- |           |                                |   |
|-----------|--------------------------------|---|
| Math. 301 | Introduction to Modern Algebra | 3 |
| Math. 302 | Linear Algebra                 | 3 |
| Math. 307 | Elementary Theory of Numbers   | 3 |
| Math. 4—  | Group Theory                   | 3 |

Group III. Geometry & Topology

- |           |                          |   |
|-----------|--------------------------|---|
| Math. 308 | Modern Geometry I        | 3 |
| Math. 401 | Modern Geometry II       | 3 |
| Math. 311 | Introduction to Topology | 3 |

Group IV. Mathematical Statistics

- |           |                               |   |
|-----------|-------------------------------|---|
| Math. 305 | Probability and Statistics I  | 3 |
| Math. 405 | Probability and Statistics II | 3 |

10. *Music*—34 hours

- |    |  |   |
|----|--|---|
| a. | Harmony I and II (including sight-singing and dictation) | 8 |
| b. | Counterpoint   | 3 |
| c. | Form and Analysis  | 3 |

- |    |                              |    |
|----|------------------------------|----|
| d. | Music History and Literature |    |
| 1. | Antiquity through classics   | 3  |
| 2. | Romantic to present          | 3  |
| e. | Conducting                   | 4  |
| f. | Applied Music                | 10 |

11. *Philosophy*—27 hours

A major in philosophy will be required to take courses in the field totalling at least 27 hours. The department requires its majors to take the following courses:

- |           |                          |              |
|-----------|--------------------------|--------------|
| Phil. 302 | Ethics                   | Credit Hours |
|           | or                       | 3            |
| Phil. 203 | Aesthetics               | 3            |
| Phil. 202 | Logic                    | 3            |
|           | or                       |              |
| Phil. 307 | Philosophy of Science    | 3            |
| Phil. 205 | History of Philosophy I  | 3            |
| Phil. 206 | History of Philosophy II | 3            |
|           |                          | <hr/> 12     |

Plus 15 hours from the following:

- |           |                                 |   |
|-----------|---------------------------------|---|
| Phil. 201 | Problems of Philosophy          | 3 |
| Phil. 204 | Philosophy of Religion          | 3 |
| Phil. 301 | American Philosophy             | 3 |
| Phil. 303 | Philosophy of History           | 3 |
| Phil. 304 | Social and Political Philosophy | 3 |
| Phil. 305 | Contemporary Philosophy I       | 3 |
| Phil. 306 | Contemporary Philosophy II      | 3 |
| Phil. 308 | Philosophy of Existentialism    | 3 |
| Phil. 309 | Metaphysics                     | 3 |
| Phil. 310 | Epistemology                    | 3 |
| Phil. 401 | Seminar in Philosophy           | 3 |
| Phil. 403 | 17th—18th Century Rationalists  | 3 |
| Phil. 404 | British Empiricism              | 3 |
| Phil. 405 | Plato and Aristotle             | 3 |
| Phil. 406 | Theory of Logic and Mathematics | 3 |
| Phil. 407 | Theory of Value                 | 3 |
| Phil. 495 | Independent Project or Study    | 3 |



12. *Physics*—36 hours

a. Required Courses:

Ph. 111-112, General Physics (or equivalent)	
Ph. 101-102, Gen. Physics	6
and Ph. 105, Physics Problem Course	2
Ph. 202, Intermediate Electricity	3
(Prereq. Ph. 111-112, Calculus)	
Ph. 401, Optics	3
(Prereq. Ph. 111-112, Calculus)	
Ph. 405, Modern Atomic Physics	3
(Prereq. Ph. 111-112, Calculus)	
Ph. 407, Intermediate Mechancis	3
(Prereq. Ph. 111-112, Calculus and Differential Equations)	
Ph. 410, Advanced Physics Laboratory	6
(Prereq. Ph. 111-112, Jr. Standing in Physics)	

b. Elective course in Physics selected under faculty advisement	10
	36

D. Interdivisional Majors—36 hours

1. *American Studies*

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.  
9 hours
2. American Literature: English 104, 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.  
9 hours

b. Behavioral Sciences and Geography: Free choice of courses in this area, except that they must deal with the American experience.  
6 hours

c. Arts: Free choice of courses in this area, basically the Fine Arts and Music, again pertaining to American Culture.  
6 hours

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.

2. *Latin American Studies*

Course	Credit Hours
History 313-Hist. of L.A.: Colonial Era	3
History 314-Hist. of L.A.: The National Era	3
Geography 203 or 302	3
Anthro. 302 or 303	3
Latin American Art or Music	3
L.A. Lit. (Spanish 405)	3
20th Century L.A. Problems	3
	21

Plus fifteen semester hours of electives chosen from a least three of the following disciplines:

History	Music	Literature
Geography	Ethnology	Science
Art	Archaeology	

Two years of high school Spanish or Portuguese is required. If a student cannot fulfill this requirement, he must take at least six semester hours of languages from the breadth requirements of the Liberal Arts Division.

IV. *Electives*—20-36 hours

Any College course, for which the student has prerequisites, may be considered an elective.

V. *Physical Education Requirement*:

1. Physical Education activities .....2 hours
2. Physical Education theory .....2 hours

VI. *Competence in a Foreign Language*

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.



## ARTS AND HUMANITIES

### ENGLISH DEPARTMENT

#### ENG. 101. EFFECTIVE COMMUNICATION

Materials and purposes of effective communication; symbolic nature of communication devices; mastery of the tools (spelling, enunciation, punctuation, vocal inflection, grammar, pronunciation, interpretation of visual and aural media); analysis of techniques used to evaluate mass media. *Classification:* Required of all freshmen. *Credit:* Three semester hours—three class hours.

#### ENG. 102. EFFECTIVE COMMUNICATION

Materials and purposes of effective communication; symbolic nature of communication devices; mastery of the tools (spelling, enunciation, punctuation, vocal inflection, grammar, pronunciation, interpretation of visual and aural media); analysis of techniques used to evaluate mass media. *Classification:* Required of all freshmen. *Prerequisite:* Eng. 101. *Credit:* Three semester hours—three class hours.

#### ENG. 103. ENGLISH LITERATURE

English prose and poetry from the beginnings through the nineteenth century. *Classification:* Required of Secondary Social Studies sophomores; elective for others. *Prerequisite:* Eng. 101-102. *Credit:* Three semester hours—three class hours.

#### ENG. 104. AMERICAN LITERATURE

American prose and poetry from the beginnings through the nineteenth century. *Classification:* Required of Secondary English sophomores and Secondary Social Studies students; elective for others. *Prerequisite:* Eng. 101-102. *Credit:* Three semester hours—three class hours.

#### ENG. 107. LITERATURE OF ENGLAND

English prose and poetry from the beginnings to 1700. *Classification:* Required of Secondary English freshmen; elective for others. *Prerequisite:* Eng. 101-102, except for Secondary English freshmen. *Credit:* Three semester hours—three class hours.

#### ENG. 108. LITERATURE OF ENGLAND

English prose and poetry from 1700 through the Nineteenth Century. *Classification:* Required of Secondary English freshmen; elective for others. *Prerequisite:* Eng. 101-102, except for Secondary English freshmen. *Credit:* Three semester hours—three class hours.

#### ENG. 200. VOICE AND DICTION

Presentation and practice of vocal skills; applied phonetics; fundamental speaking experiences. *Classification:* Elective. *Prerequisite:* Eng. 101-102. *Credit:* Three semester hours—three class hours.

#### ENG. 201. ADVANCED COMPOSITION

Usage and the art of writing; practice with long and short papers; readings in contemporary prose. *Classification:* Required of Secondary English juniors who may substitute Eng. 220 or 325; elective for others. *Prerequisite:* Eng. 101-102. *Credit:* Three semester hours—three class hours.

#### ENG. 202. PUBLIC SPEAKING

Organization, delivery, and evaluation of the public speech. *Classification:* Required of Secondary English sophomores; elective for others. *Prerequisite:* Eng. 101-102. *Credit:* Three semester hours—three class hours.

#### ENG. 203. MODERN DRAMA

Chief modern dramatists of Continental Europe, England and America from Ibsen to the present time. *Classification:* Elective. *Prerequisite:* Eng. 103, 104, 107, 108, 301, or 302. *Credit:* Three semester hours—three class hours.

#### ENG. 205. WORLD LITERATURE

Literary masterpieces of Western civilization: translations from the Greek, Latin, French, German, Italian, and Russian. *Classification:* Required of Secondary English sophomores; elective for others. *Prerequisite:* Eng. 101-102. *Credit:* Three semester hours—three class hours.

#### ENG. 206. TYPES OF BRITISH AND AMERICAN LITERATURE

Poems and plays; readings, analysis and criticism; history. *Classification:* Elective. *Prerequisite:* Eng. 101-102. *Credit:* Three semester hours—three class hours.

#### ENG. 207. PLAY PRODUCTION

Play selection and analysis, casting, rehearsals, student productions. *Classification:* Required of Secondary English students with minor in speech; elective for others. *Prerequisite:* Eng. 101-102. *Credit:* Three semester hours—three class hours.

#### ENG. 209. PUBLIC DISCUSSION

Group discussion, including debate; parliamentary procedure; panel presentations; interview techniques; oral reports. *Classification:* Elective. *Prerequisite:* Eng. 101-102. *Credit:* Three semester hours—three class hours.

#### ENG. 210. CHILDREN'S LITERATURE

Types of children's literature; folklore, informative material, fiction, biography, and poetry; principles of book selection; illustration, format; reading interests of children; story telling; bibliography. *Classification:* Required of Elementary Education sophomores. *Prerequisite:* Eng. 101-102. *Credit:* Three semester hours—three class hours.

#### ENG. 211. MODERN BRITISH AND AMERICAN POETRY

Major poets and significant trends in poetry from 1912 to the present time. *Classification:* Elective. *Prerequisite:* Eng. 103, 104, 107, 108, 205, 214, 301, or 302. *Credit:* Three semester hours—three class hours.

#### ENG. 212. ROMANTIC MOVEMENT IN AMERICAN LITERATURE

Nature of Romanticism; English and Continental European backgrounds; nineteenth century American writers including the Transcendentalists, Hawthorne, the Cambridge Poets Melville, and Whitman. *Classification:* Elective. *Prerequisite:* Eng. 104, 107, 108, 301, or 302. *Credit:* Three semester hours—three class hours.

#### ENG. 213. SECONDARY SCHOOL LITERATURE

Literature appropriate to grades 7-12; fiction, biography, informative material, folklore; poetry, drama; criteria of book selection; bibliography. *Classification:* Required of Secondary English sophomores. *Prerequisite:* Eng. 103, 104, 107, or 108. *Credit:* Three semester hours—three class hours.

#### ENG. 214. WORLD LITERATURE

A continuation of Eng. 205. *Classification:* Required of Secondary English sophomores; elective for others. *Prerequisite:* Eng. 101-102. *Credit:* Three semester hours—three class hours.

#### ENG. 216. RADIO AND TELEVISION IN EDUCATION

Broadcasting and its history; program evaluation; recordings; radio and television in the classroom; tours of broadcasting facilities; research paper. *Classification:* Elective. *Prerequisite:* Eng. 101-102. *Credit:* Three semester hours—three class hours.

#### ENG. 218. CREATIVE DRAMATICS

History, philosophy, methods, and materials of informal playmaking with children;



observation and participation. *Classification:* Elective. *Prerequisite:* Eng. 101-102. *Credit:* Three semester hours—three class hours.

ENG. 219. SPEECH ACTIVITIES IN THE ELEMENTARY SCHOOL

Speech as an integrative and developmental activity of elementary school children; conversation; story telling, word games, interviews, creative dramatics. *Classification:* Elective. *Prerequisite:* Eng. 101-102. *Credit:* Three semester hours — three class hours.

ENG. 220. CREATIVE WRITING

Individual writing projects to suit interests and abilities of students. *Classification:* Elective. *Prerequisite:* Eng. 101-102. *Credit:* Three semester hours—three class hours.

ENG. 301. IDEAS OF MAN AND HIS WORLD IN LITERATURE

Development of man's ideas as seen in writings of the past and present in English and in translations from other languages; literary treatment of love, evil, progress, heroism, God, man, nature, and society. *Classification:* Required according to divisional curricula. *Prerequisite:* Eng. 101-102. *Credit:* Three semester hours — three class hours.

ENG. 302. IDEAS OF MAN AND HIS WORLD IN LITERATURE

Development of man's ideas as seen in writings of the past and present in English and in translations from other languages; literary treatment of love, evil, progress, heroism, God, man, nature, and society. *Classification:* Required according to divisional curricula. *Prerequisite:* Eng. 101-102. *Credit:* Three semester hours — three class hours.

ENG. 304. SURVEY OF DRAMA

Representative playwrights of Western European culture: Sophocles, Plautus, Jonson, Moliere, de Vega, Sheridan, Chekhov,

Ibsen, Shaw, and O'Neill. *Classification:* Elective. *Prerequisite:* Eng. 103, 104, 107, 108, 205, 214, 301, or 302. *Credit:* Three semester hours—three class hours.

ENG. 305. SHORT WRITINGS IN THE FAMILIAR STYLE

Informal writing of Beerbohm, Leacock, Thurber, E. B. White, and others. *Classification:* Elective. *Prerequisite:* Eng. 103, 104, 107, 108, 205, 214, 301, or 302. *Credit:* Three semester hours—three class hours.

ENG. 306. SECONDARY SCHOOL SPEECH ACTIVITIES

Informative talks; individual and choral interpretation; group discussion; parliamentary procedure. *Classification:* Elective. *Prerequisite:* Eng. 101-102. *Credit:* Three semester hours—three class hours.

ENG. 307. ROMANTIC MOVEMENT IN ENGLISH LITERATURE

Romantic prose and poetry: Burns, Wordsworth, Coleridge, Scott, Byron, Shelley, Keats; critics of the period. *Classification:* Elective. *Prerequisite:* Eng. 103, 107, 108, 205, 301, or 302. *Credit:* Three semester hours—three class hours.

ENG. 308. SHORT STORY

Development of the short story; Hawthorne, Poe, Bierce, Steele, Glaspell, Lardner, O. Henry, Hemingway, and others. *Classification:* Elective. *Prerequisite:* Eng. 103, 104, 107, 108, 205, 214, 301, or 302. *Credit:* Three semester hours—three class hours.

ENG. 311. TYPES OF BRITISH AND AMERICAN LITERATURE

Essays, biographies, and fiction; readings, analysis and criticism; history. *Classification:* Elective. *Prerequisite:* Eng. 101-102. *Credit:* Three semester hours—three class hours.

ENG. 312. CONTEMPORARY LITERATURE

British and American literature of the twentieth century; poetry, fiction, drama.

*Classification:* Required of Secondary English students; elective for others. *Prerequisite:* Eng. 103, 104, 107, 108, 205, 214, 301, or 302. *Credit:* Three semester hours—three class hours.

ENG. 315. SHAKESPEARE

Representative comedies and tragedies. *Classification:* Required of Secondary English students; elective for others. *Prerequisite:* Eng. 103, 107, 108, 205, 214, 301, or 302. *Credit:* Three semester hours—three class hours.

ENG. 316. SHAKESPEARE

A similar study of another group of plays. *Classification:* Elective. *Prerequisite:* Eng. 103, 107, 108, 205, 214, 301, or 302. *Credit:* Three semester hours—three class hours.

ENG. 320. ORAL INTERPRETATION OF LITERATURE

Oral reading of prose, poetry, and drama; selection and arrangement of material for formal and informal audiences. *Classification:* Required of Secondary English students; elective for others. *Prerequisite:* Eng.

101-102. *Credit:* Three semester hours—three class hours.

ENG. 325. JOURNALISM

News, feature, and editorial writing; copy reading; makeup; advertising; public relations. *Classification:* Elective. *Prerequisite:* Eng. 101-102. *Credit:* Three semester hours—three class hours.

ENG. 326. ACTING: THEORY AND PRACTICE

Tutorial study of history, theory, and art of acting; readings on techniques of acting; participation in current College productions. *Classification:* Elective. *Prerequisite:* Previous participation in College productions. *Credit:* Three semester hours—class hours by arrangement.

ENG. 330. COMPARATIVE LITERATURE

Principles, history, methods, and purposes are applied practically to various problems in European and American literature. *Classification:* Elective. *Prerequisite:* 103, 104, 107, 108, 205, 214, 301 or 302. *Credit:* Three semester hours—three class hours.





ENG. 340. AMERICAN FOLKLORE

Introduction to folklore with emphasis upon American folklore; collecting techniques; evaluations and interpretive procedures; literary uses of folklore. *Classification:* Elective. *Prerequisite:* Eng. 103, 104, 107, 108, 205, 214, 301, or 302. *Credit:* Three semester hours—three class hours.

ENG. 401. LITERATURE OF THE BIBLE

Selected writings of the Old and New Testaments studied as literature; Biblical poetry and prose; influence of Bible translations on the English language. *Classification:* Elective. *Prerequisite:* Eng. 103, 107, 108, 205, 214, 301, or 302. *Credit:* Three semester hours—three class hours. *Special Note:* May be elected by graduate students.

ENG. 403. WORLD NOVEL

Major figures in the development of the novel during the past three centuries: Fielding, Balzac, Flaubert, Dostoevski, Tolstoi, the Brontës, Hardy, Hawthorne, and James. *Classification:* Elective. *Prerequisite:* Eng. 103, 104, 107, 108, 205, 214, 301, or 302. *Credit:* Three semester hours—three class hours. *Special Note:* May be elected by graduate students.

ENG. 404. AMERICAN NOVEL BEFORE 1900.

Cooper, Hawthorne, Clemens, James, and Howells. *Classification:* Elective. *Prerequisite:* Eng. 104, 205, 214, 301, or 302. *Credit:* Three semester hours—three class hours. *Special Note:* May be elected by graduate students.

ENG. 405. CHAUCER AND HIS AGE

Representative works of Chaucer; supplemental readings in the early drama, romance, and popular ballad. *Classification:* Elective. *Prerequisite:* Eng. 103, 107, 108, 205, 214, 301, or 302. *Credit:* Three semester hours—three class hours. *Special Note:* May be elected by graduate students.

ENG. 406. ENGLISH NOVEL

Great English novels of the nineteenth century as art and as a manifestation of social interests. *Classification:* Elective. *Prerequisite:* Eng. 103, 107, 108, 205, 214, 301, or 302. *Credit:* Three semester hours—three class hours. *Special Note:* May be elected by graduate students.

ENG. 407. MODERN NOVEL

Great English and American novels of the twentieth century; their artistic and social significance. *Classification:* Elective. *Prerequisite:* Eng. 103, 104, 107, 108, 205, 214, 301, 302, or 312. *Credit:* Three semester hours—three class hours. *Special Note:* May be elected by graduate students.

ENG. 409. MILTON

Prose and poetry of Milton, with emphasis on *Paradise Lost*; the background of Milton's writings. *Classification:* Elective. *Prerequisite:* Eng. 103, 107, 108, 205, 214, 301, or 302. *Credit:* Three semester hours—three class hours. *Special Note:* May be elected by graduate students.

ENG. 411. SEVENTEENTH CENTURY POETRY

Lyric and dramatic poetry: Shakespeare, Donne, Herrick, Jonson, Milton, and others. *Classification:* Elective. *Prerequisite:* Eng. 103, 107, 108, 205, 214, 301, or 302. *Credit:* Three semester hours—three class hours. *Special Note:* May be elected by graduate students.

ENG. 413. SEMINAR—TOUR IN AMERICAN LITERATURE

Study of major American writers before 1900, including a tour of locales associated with their lives and work. Study, four weeks; tour, two weeks. *Classification:* Elective. *Prerequisite:* Eng. 104 or equivalent. *Credit:* Three semester hours. *Special Note:* May be elected by graduate students.

ENG. 414. REALISM IN AMERICAN LITERATURE

Realistic writers of the late nineteenth century: Howells, James, Clemens, S. Crane, Norris, and others. *Classification:* Elective. *Prerequisite:* Eng. 104, 205, 214, 301, or 302. *Credit:* Three semester hours—three class hours. *Special Note:* May be elected by graduate students.

ENG. 415. PHILOSOPHY IN LITERATURE

Major philosophical viewpoints in general literature; literary masterpieces with strong philosophic import. *Classification:* Elective. *Prerequisite:* Eng. 103, 104, 107, 108, 205, 214, 301, or 302. *Credit:* Three semester hours—three class hours. *Special Note:* May be elected by graduate students.

ENG. 416. STUDY-TOUR OF WESTERN EUROPE

Six-weeks study-tour including Holland, Germany, Austria, Italy, Switzerland, and France. *Classification:* Elective. *Prerequisite:* Eng. 205, 214, 301, 302, 304, or 403, or equivalent. *Credit:* Eight semester hours. *Special Note:* May be elected by graduate students.

ENG. 422. VICTORIAN POETRY

Tennyson, Browning, Arnold and others; social, political, and intellectual background of the times. *Classification:* Elective. *Prerequisite:* Eng. 103, 107, 108, 301, or 302. *Credit:* Three semester hours—three class hours. *Special Note:* May be elected by graduate students.

ENG. 423. VICTORIAN PROSE

Major Victorian essayists with reference to the intellectual background of nineteenth century England: Carlyle, Newman, Macaulay, Mill, Ruskin, Arnold, Huxley, and Pater. *Classification:* Elective. *Prerequisite:* Eng. 103, 107, 108, 301, or 302. *Credit:* Three semester hours—three class hours. *Special Note:* May be elected by graduate students.

ENG. 426. EIGHTEENTH CENTURY ENGLISH LITERATURE

Poetry, essay, novel, and drama of the eighteenth century. *Classification:* Elective. *Prerequisite:* Eng. 101-102, 201, or equivalent. *Credit:* Three semester hours—three class hours. *Special Note:* May be elected by graduate students.

ENG. 427. FOUNDATIONS OF LANGUAGE

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. *Classification:* Elective. *Prerequisite:* Eng. 101-102, 201, or equivalent. *Credit:* Three semester hours—three class hours. *Special Note:* May be elected by graduate students who may not then elect Eng. 600.

ENG. 430. LITERATURE OF IRELAND

Gaelic prose and poetry in translation; contributions to English literature; Yeats, Synge, and other writers since 1899. *Classification:* Elective. *Prerequisite:* Eng. 103, 104, 107, 108, 205, 214, 301, or 302. *Credit:* Three semester hours—three class hours.

ENG. 440. WRITING FOR THE PROFESSIONS

Technical and semi-technical exposition; articles, report writing, technical editing. *Classification:* Elective. *Prerequisite:* Eng. 101-102, 201, 220, or 325. *Credit:* Three semester hours—three class hours.

ENG. 495. INDEPENDENT PROJECT OR STUDY

An investigative or creative undertaking under the guidance of a faculty member. *Classification:* Elective for upperclassmen. *Credit:* One to six semester hours. *Special Note:* Requires the recommendation of a faculty member who agrees to supervise the project, and approval of the Director.



## FOREIGN LANGUAGE DEPARTMENT

### F.L. 100. ENGLISH AS A FOREIGN LANGUAGE

English taught as a second language designed to complement the international student's previous studies of English. Does not take the place of regular English courses but deals specifically with difficulties unique to the foreign born. Emphasis placed on understanding spoken English, correcting pronunciation, improving reading comprehension and developing skill in writing. *Classification:* Required of foreign students whose score is inadequate in a diagnostic test. Open only to foreign born. *Credit:* Three semester hours—three class hours, with a minimum of one hour per week in the language laboratory.

### F.L. 101. ENGLISH AS A FOREIGN LANGUAGE

English taught as a second language designed to complement the international student's previous studies of English. Does not take the place of regular English courses but deals specifically with difficulties unique to the foreign born. Emphasis placed on understanding spoken English, correcting pronunciation, improving reading comprehension and developing skill in writing. *Classification:* Required of foreign students whose score is inadequate in a diagnostic test. Open only to foreign born. *Prerequisite:* F.L. 100. *Credit:* Three semester hours —

## FRENCH

### FR. 101. ELEMENTARY FRENCH

Fundamentals of the French language, with particular emphasis on the spoken language. Reading and writing exercises of gradually increasing difficulty. For students with no previous knowledge of French. *Classification:* Elective. *Credit:* Three semester hours—three class hours, with a minimum of one hour per week in the language laboratory.

three class hours, with a minimum of one hour per week in the language laboratory.

### F.L. 300. FOREIGN LANGUAGE IN THE ELEMENTARY GRADES

The place of modern foreign language in the elementary school curriculum; how a child learns a foreign language; teaching aids and materials; observation of foreign language classes in the elementary school; preparation of sample lessons. *Classification:* Elective. *Prerequisite:* Ed. 101, 102; and twelve hours of a single foreign language. *Credit:* Two semester hours — two class hours.

### F.L. 495. INDEPENDENT PROJECT OR STUDY

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. *Credit:* One to six semester hours. *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.

### FR. 102. ELEMENTARY FRENCH

Continued study of the fundamentals of the French 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:* Fr. 101 or the equivalent. *Credit:* Three semester hours—three class hours, with a minimum of one hour per week in the language laboratory.

### FR. 201. INTERMEDIATE FRENCH

Review of the work of Fr. 101-102 and further development of speaking, reading, and writing ability, with continuing emphasis on the use and comprehension of the spoken language. *Classification:* Elective; required for Secondary French majors. *Prerequisite:* At least two years of high school French or completion of French 101-102. *Credit:* Three semester hours — three class hours, with a minimum of one hour per week in the language laboratory.

### FR. 202. INTERMEDIATE FRENCH

Further development and reinforcement of the four skills; comprehension, speaking, reading, and writing for greater mastery of the language and for enough control to facilitate the study and discussion of literature later. *Classification:* Elective; required for Secondary French majors. *Prerequisite:* Fr. 201 or the equivalent. *Credit:* Three semester hours—three class hours, with a minimum of one hour per week in the language laboratory.

### FR. 301. FRENCH COMPOSITION AND CONVERSATION

Intensive practice in speaking and writing French effectively. *Classification:* Elective; required for Secondary French majors. *Prerequisite:* Fr. 201-202 or the equivalent. *Credit:* Three semester hours—three class hours.

### FR. 302. FRENCH COMPOSITION AND CONVERSATION

Continued intensive practice in speaking and writing French effectively. *Classification:* Elective; required for Secondary French majors. *Prerequisite:* Fr. 301 or permission of instructor. *Credit:* Three semester hours—three class hours.

### FR. 303. CLASSICAL FRENCH DRAMA

Reading of the major plays of Corneille, Molière, and Racine and of other representative dramatists. *Classification:* Elective.

*Prerequisite:* Fr. 201-202. *Credit:* Three semester hours—three class hours.

### FR. 304. NINETEENTH CENTURY FRENCH DRAMA

Reading and discussion of plays which illustrate Romanticism, Realism, and Symbolism in nineteenth century French drama. *Classification:* Elective. *Prerequisite:* Fr. 201-202. *Credit:* Three semester hours—three class hours.

### FR. 306. FRENCH CIVILIZATION

Contributions of France to present-day civilization; historical development of French culture; chief aspects of contemporary French life. *Classification:* Elective; required for Secondary French majors. *Prerequisite:* Fr. 201-202. *Credit:* Three semester hours—three class hours.

### FR. 307. HISTORY OF FRENCH LITERATURE

Chronological and artistic development of French literature from its origin up to the eighteenth century. Reading and discussion of representative selections from the major authors. *Classification:* Elective; required for Secondary French majors. *Prerequisite:* Fr. 201-202. *Credit:* Three semester hours—three class hours.

### FR. 308. HISTORY OF FRENCH LITERATURE

Chronological and artistic development of French literature in the nineteenth and twentieth centuries. Reading and discussion of representative selections from the major authors. *Classification:* Elective; required for Secondary French majors. *Prerequisite:* Fr. 201-202. *Credit:* Three semester hours—three class hours.

### FR. 401. CONTEMPORARY FRENCH LITERATURE

Chief literary trends and major authors of the last half century. *Classification:* Elective. *Prerequisite:* Fr. 307-308. *Credit:* Three semester hours—three class hours.



FR. 403. BACKGROUNDS OF  
MODERN FRENCH

A study of the evolution of French with particular emphasis on the structure of modern French and French phonetics. *Classification:* Elective; required for Secondary French majors. *Prerequisite:* Fr. 301-302 and 307-308. *Credit:* Three semester hours—three class hours.

FR. 404. FRENCH NOVEL

Reading of representative French novels from the seventeenth through the nineteenth century. *Classification:* Elective. *Prerequisite:* Fr. 307-308. *Credit:* Three semester hours—three class hours.

GERMAN

GERM. 101. ELEMENTARY GERMAN

Fundamentals of the German language, with particular emphasis on the spoken language. Reading and writing exercises of gradually increasing difficulty. For students with no previous knowledge of German. *Classification:* Elective. *Credit:* Three semester hours—three class hours, with a minimum of one hour per week in the language laboratory.

GERM. 102. ELEMENTARY GERMAN

Continued study of the fundamentals of the German 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:* Germ. 101 or the equivalent. *Credit:* Three semester hours—three class hours, with a minimum of one hour per week in the language laboratory.

GERM. 201. INTERMEDIATE  
GERMAN

Review of the work of Germ. 101-102, and further development of speaking, reading, and writing ability, with continuing



emphasis on the use and comprehension of the spoken language. Reading of introductory selections from German literature. *Classification:* Elective. *Prerequisite:* At least two years of high school German or completion of Germ. 101-102. *Credit:* Three semester hours—three class hours, with a minimum of one hour per week in the language laboratory.

GERM. 202. INTERMEDIATE  
GERMAN

Further development and reinforcement of the four skills; comprehension, speaking, reading, and writing for greater mastery of the language and for enough control to facilitate the study and discussion of literature later. *Classification:* Elective. *Prerequisite:* Germ. 201 or the equivalent. *Credit:* Three semester hours—three class hours, with a minimum of one hour per week in the language laboratory.

GERM. 301. GERMAN COMPOSITION  
AND CONVERSATION

A systematic approach to the writing and speaking of German in order to facilitate comprehension and fluent self-expression. *Classification:* Elective. *Prerequisite:* Germ.

201-202 or the equivalent. *Credit:* Three semester hours—three class hours.

GERM. 302. GERMAN COMPOSITION  
AND CONVERSATION

Continuation of Germ. 301. *Classification:* Elective. *Prerequisite:* Germ. 301 or permission of instructor. *Credit:* Three semester hours—three class hours.

GERM. 306. GERMAN CIVILIZATION

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. *Credit:* Three semester hours—three class hours.

ITALIAN

ITAL. 101. ELEMENTARY ITALIAN

Fundamentals of the Italian language, with particular emphasis on the spoken language. Reading and written exercises of gradually increasing difficulty. For students with no previous knowledge of Italian. *Classification:* Elective. *Credit:* Three semester hours—three class hours, with a minimum of one hour per week in the language laboratory.

ITAL. 102. ELEMENTARY ITALIAN

Continued study of the fundamentals of the Italian 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:* Ital. 101 or the equivalent. *Credit:* Three semester hours—three class hours, with a minimum of one hour per week in the language laboratory.

GERM. 307. HISTORY OF GERMAN  
LITERATURE

Chronological study of German literature from the Middle Ages through the eighteenth century. Readings of representative selections from major authors. *Classification:* Elective. *Prerequisite:* Germ. 201-202. *Credit:* Three semester hours—three class hours.

GERM. 308. HISTORY OF GERMAN  
LITERATURE

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. *Credit:* Three semester hours—three class hours.

ITAL. 201. INTERMEDIATE ITALIAN

Review of the work of Ital. 101-102, and further development of speaking, reading, and writing ability, with continuing emphasis on the use and comprehension of the spoken language. *Classification:* Elective. *Prerequisite:* At least two years of high school Italian or completion of Ital. 101-102. *Credit:* Three semester hours—three class hours, with a minimum of one hour per week in the language laboratory.

ITAL. 202. INTERMEDIATE ITALIAN

Further development and reinforcement of the four skills; comprehension, speaking, reading, and writing for greater mastery of the language and for enough control to facilitate the study and discussion of literature later. *Classification:* Elective; required for Secondary Spanish majors. *Prerequisite:* Ital. 201 or the equivalent. *Credit:* Three semester hours—three class hours, with a minimum of one hour per week in the language laboratory.



## LATIN

### LAT. 101. ELEMENTARY LATIN

Fundamentals of the Latin language. Essentials of Latin grammar; reading of simple prose selections; the Latin element in the vocabulary of English and the modern languages. *Classification:* Elective. *Credit:* Three semester hours—three class hours.

### LAT. 102. ELEMENTARY LATIN

Fundamentals of the Latin language, Essentials of Latin grammar; reading of simple prose selections; the Latin element in the vocabulary of English and the modern languages. *Classification:* Elective. *Prerequisite:* Lat. 101. *Credit:* Three semester hours—three class hours.

### LAT. 201. LATIN PROSE AND POETRY

Reading from such prose writers as Aulus Gellius, Nepos, Sallust, or Livy and such poets as Virgil, Catullus, Ovid and Martial; grammar review and vocabulary study; principles of Latin meter. *Classification:* Elective. *Prerequisite:* At least two years

of high school Latin. *Credit:* Three semester hours—three class hours.

### LAT. 202. LATIN PROSE AND POETRY

Reading from such prose writers as Aulus Gellius, Nepos, Sallust, or Livy and such poets as Virgil, Catullus, Ovid and Martial; grammar review and vocabulary study; principles of Latin meter. *Classification:* Elective. *Prerequisite:* Lat. 201. *Credit:* Three semester hours—three class hours.

### LAT. 301. SILVER AGE PROSE

Reading of selections from representative authors of the post Augustan period. *Classification:* Elective. *Prerequisite:* Lat. 201 and 202. *Credit:* Three semester hours—three class hours.

### LAT. 305. LATIN DRAMA

Reading of representative comedies of Plautus and Terence. Studies in the technique of the Roman theater. *Classification:* Elective. *Prerequisite:* Lat. 201 and 202. *Credit:* Three semester hours—three class hours.

cises also continued for the development of progressively greater ability in the language. *Classification:* Elective. *Prerequisite:* Russ. 101 or the equivalent. *Credit:* Three semester hours—three class hours, with a minimum of one hour per week in the language laboratory.

### RUSS. 201. INTERMEDIATE RUSSIAN

Review of the work of Russ. 101-102 and further development of speaking, reading, and writing ability, with continuing emphasis on the use and comprehension of the spoken language. *Classification:* Elective. *Prerequisite:* At least two years of high

school Russian or completion of Russ. 101-102. *Credit:* Three semester hours—three class hours, with a minimum of one hour per week in the language laboratory.

### RUSS. 202. INTERMEDIATE RUSSIAN

Further development and reinforcement of the four skills; comprehension, speaking, reading, and writing for greater mastery of the language and for enough control to facilitate the study and discussion of literature later. *Classification:* Elective. *Prerequisite:* Russ. 201 or the equivalent. *Credit:* Three semester hours—three class hours, with a minimum of one hour per week in the language laboratory.

## SPANISH

### SPAN. 101. ELEMENTARY SPANISH

Fundamentals of the Spanish language, with particular emphasis on the spoken language. Reading and writing exercises of gradually increasing difficulty. For students with no previous knowledge of Spanish. *Classification:* Elective. *Credit:* Three semester hours—three class hours, with a minimum of one hour per week in the language laboratory.

### SPAN. 102. ELEMENTARY SPANISH

Continued study of the fundamentals of the Spanish 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:* Span. 101 or the equivalent. *Credit:* Three semester hours—three class hours, with a minimum of one hour per week in the language laboratory.

### SPAN. 201. INTERMEDIATE SPANISH

Review of the work of Span. 101-102 and further development of speaking, reading, and writing ability, with continuing emphasis on the use and comprehension of the spoken language. *Classification:* Elective;

required for Secondary Spanish majors. *Prerequisite:* At least two years of high school Spanish or completion of Span. 101-102. *Credit:* Three semester hours—three class hours, with a minimum of one hour per week in the language laboratory.

### SPAN. 202. INTERMEDIATE SPANISH

Further development and reinforcement of the four skills; comprehension, speaking, reading, and writing for greater mastery of the language and for enough control to facilitate the study and discussion of literature later. *Classification:* Elective; required for Secondary Spanish majors. *Prerequisite:* Span. 201 or the equivalent. *Credit:* Three semester hours—three class hours, with a minimum of one hour per week in the language laboratory.

### SPAN. 301. SPANISH COMPOSITION AND CONVERSATION

Exercises to facilitate comprehension and fluent self-expression, with particular emphasis on the spoken language and accuracy of written expression. *Classification:* Elective. *Prerequisite:* Span. 201-202. *Credit:* Three semester hours—three class hours.

### SPAN. 302. SPANISH COMPOSITION AND CONVERSATION

Continued intensive practice in speaking and writing Spanish effectively. *Classification:* Elective; required for Secondary Spanish majors. *Prerequisite:* Span. 301 or permission of instructor. *Credit:* Three semester hours—three class hours.

### SPAN. 303. MODERN SPANISH MASTERPIECES

Representative genres of recent Spanish literature; the novel, drama, literary criticism and modern poetry. *Classification:* Elective. *Prerequisite:* Span. 201-202. *Credit:* Three semester hours—three class hours.

### SPAN. 306. HISPANIC CIVILIZATION

A survey of Hispanic civilization from its beginnings in the Iberian Peninsula to its spread in the Spanish possessions in the



Western Hemisphere and elsewhere; emphasis on the artistic and intellectual currents in Spain and Latin America. *Classification*: Elective; required for Secondary Spanish majors. *Prerequisite*: Span. 201-202. *Credit*: Three semester hours—three class hours.

#### SPAN. 307. HISTORY OF SPANISH LITERATURE

Chronological and artistic study of Spanish literature from its beginning through the Golden Age. Reading and discussion in Spanish of representative selections from major authors. *Classification*: Elective; required for Secondary Spanish majors. *Prerequisite*: Span. 201-202. *Credit*: Three semester hours—three class hours.

#### SPAN. 308. HISTORY OF SPANISH LITERATURE

Chronological and artistic study of Spanish literature from the Golden Age to the present. Reading and discussion in Spanish of representative selections from major authors. *Classification*: Elective; required for Secondary Spanish majors. *Prerequisite*: Span. 201-202. *Credit*: Three semester hours—three class hours.



#### SPAN. 401. CERVANTES

Critical study of the "Quixote" with collateral reading from the minor works of Cervantes. *Classification*: Elective. *Prerequisite*: Span. 307-8. *Credit*: Three semester hours—three class hours.

#### SPAN. 402. SPANISH CLASSICAL DRAMA

Readings from the plays of Lope de Vega and Calderon and their contemporaries. *Classification*: Elective. *Prerequisite*: Span. 307-8. *Credit*: Three semester hours—three class hours.

#### SPAN. 403. BACKGROUNDS OF MODERN SPANISH

A study of the evolution of Spanish with particular emphasis on the structure of modern Spanish and Spanish phonetics. *Classification*: Elective. *Prerequisite*: Span. 301-302 and 307-308. *Credit*: Three semester hours — three class hours.

#### SPAN. 404. 19TH CENTURY LITERATURE

The principal movements in Spanish literature of the nineteenth century: Romanticism, Realism, Naturalism. Representative readings and class discussions in Spanish on the development of major genre within the context of the cultural background of the period. *Classification*: Elective. *Prerequisite*: Span. 201-2. *Credit*: Three semester hours — three class hours.

#### SPAN. 405. SURVEY OF LATIN AMERICAN LITERATURE

Highlights of principal literary movements in major Latin American nations. Assigned and collateral readings chosen to illustrate literary developments and to facilitate an insight into the parallel historical, social and cultural developments. Reading and discussion in Spanish. *Classification*: Elective. *Prerequisite*: Span. 201-2. *Credit*: Three semester hours—three class hours.

## HEALTH, PHYSICAL EDUCATION AND RECREATION DEPARTMENT

The following activities may be taken to satisfy the College requirement in physical education—2 credit hours; one credit each of two semesters.

Freshmen must take the swimming classification test scheduled during orientation week prior to registration.

The content of each activity course includes instruction in fundamentals and basic rules. Written and skill examinations are given in each course.

### PHYSICAL EDUCATION

- P.ED. 102—Archery (c)  
 103—Adapted Program (c)  
*Modified activities for physically handicapped students.*  
 104—Badminton (c)  
 105a—Basketball (m)  
 105b—Basketball (w)  
 106—Bowling (c)  
 107—Modern Dance (c)  
 108—Folk Dance (c)  
 109—Square Dance (c)  
 110—Social Dance (c)  
 111—Danish Rhythms (c)  
 112a—Fencing (m)  
 112b—Fencing (w)  
 113—Field Hockey (w)  
 114—Golf (c)  
 115a—Gymnastics (m)  
 115b—Gymnastics (w)  
 116—Handball (m)  
 117a—Paddleball (m)  
 117b—Paddleball (w)

- 118a—Physical Fitness (m)  
 118b—Physical Fitness (w)  
 119—Skiing (c)  
 120—Soccer (m)  
 121a—Softball (m)  
 121b—Softball (w)  
 122—Squash Racquets  
 123—Swimming—Beginning  
 124—Swimming—Intermediate  
 125—Swimming—Advanced  
 126—Tennis (c)  
 127—Touch Football (m)  
 128—Track and Field (m)  
 129a—Volleyball (m)  
 129b—Volleyball (w)  
 130—Weight Training (m)  
 131—Wrestling (m)

#### Legend:

- M—Men only  
 W—Women only  
 C—Coeducational



P.ED. 201. RHYTHMIC ANALYSIS  
AND DANCE

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. *Credit:* Three semester hours—three class hours.

P.ED. 202. TECHNIQUES AND  
THEORIES OF SPORTS

Basic instruction in the fundamental techniques of coaching football and swimming. Emphasis on coaching philosophy, methods, organization and administration, individual and team skills and strategy with specific reference to the above sports. Equipment purchase and care, training and conditioning procedures and treatment of common injuries. *Classification:* Elective for sophomore, junior and senior men. *Prerequisite:* Upperclassmen may take only two of the three techniques' courses offered. *Credit:* Three semester hours—three class hours.

P.ED. 203. TECHNIQUES AND  
THEORIES OF SPORTS

Basic instruction in the fundamental techniques of coaching soccer and baseball. Emphasis on coaching philosophy, methods, organization and administration, individual and team skills and strategy with specific reference to the above sports. Equipment purchase and care, training and conditioning procedures and treatment of common injuries. *Classification:* Elective for sophomore, junior and senior men. *Prerequisite:* Upperclassmen may take only two of the three techniques' courses offered. *Credit:* Three semester hours—three class hours.

P.ED. 204. TECHNIQUES AND  
THEORIES OF SPORTS

Basic instruction in the fundamental techniques of coaching basketball and track and field (including cross country). Emphasis on coaching philosophy, methods, organization and administration, individual and

team skills and strategy with specific reference to the above sports. Equipment purchase and care, training and conditioning procedures and treatment of common injuries. *Classification:* Elective for sophomore, junior and senior men. *Prerequisite:* Upperclassmen may take only two of the three techniques' courses offered. *Credit:* Three semester hours—three class hours.

P.ED. 205. THEORY IN WOMEN'S  
SPORTS

Special methods for teaching techniques, skills 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. *Credit:* Three semester hours—three class hours.

P.ED. 206. THEORY IN WOMEN'S  
SPORTS

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 only two of the three techniques' courses offered. *Credit:* Three semester hours—three class hours.

P.ED. 210. LIFE SAVING AND WATER  
SAFETY

A course in the knowledge and techniques of life saving and water safety: skills in self-rescue, rescuing others; skin diving; scuba diving; surfboard riding; water skiing; recognition and avoidance of hazardous water conditions and practices; and passing the American Red Cross Life Saving requirements. *Classification:* Elective for sophomore, junior and senior men and women.

Consent of instructor required. *Prerequisite:* P.ED. 100. *Credit:* Three semester hours—four class hours.

P.ED. 301. PRINCIPLES OF PHYSICAL  
EDUCATION

Principles of physical education: physical education in the elementary and early secondary school; teaching motor skills; fundamental play, relays, lead-up games; rhythms, stunts and classroom games; selection of activities; safety in physical education. *Classification:* Required of Elementary and Early Secondary Education and Exceptional Children Education juniors. *Prerequisite:* P.ED. 100. *Credit:* Two semester hours—three class hours.

P.ED. 302. DANCE TECHNIQUE AND  
SCENOGRAPHY

Designed for elementary dance production and experimentation. *Dance Technique:* fundamental principles of movement in relation to force, time and space; development of creative movement patterns; elementary dance composition. Theory and practice. *Scenography:* philosophy, theory and practice in scenography for the dance; function of the designer; practical and theoretical

HEALTH EDUCATION

H.ED. 204. PERSONAL AND  
COMMUNITY HEALTH

Personal hygiene, alcohol and narcotics, mental health, control of communicable diseases, environmental sanitation and health services, healthful school living, and health instruction. *Classification:* Required of Elementary Education and Exceptional Children Education juniors. *Credit:* Three semester hours—three class hours.

design problems for the dance. *Classification:* Elective. *Credit:* Three semester hours—three class hours. *Special Note:* It is recommended that students elect P.ED. 201 and Art 444.

P.ED. 303. DANCE COMPOSITION

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. *Credit:* Three semester hours—three class hours.

P.ED. 495. INDEPENDENT PROJECT  
OR STUDY

An individual undertaking by a student under 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. *Credit:* One to six semester hours. *Special Note:* Requires the recommendations of a faculty member related to the area of the project, who agrees to supervise the project, and approval of the Division Director.

RECREATION

REC. 204. ORGANIZATION AND  
LEADERSHIP IN RECREATION

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. *Credit:* Two semester hours—two class hours.



## MUSIC DEPARTMENT

### MUS. 100. THE LISTENER'S ORIENTATION TO MUSIC

An introductory course in Music. Discussion of music elements, their recognition and development in musical masterpieces. Directed listening activities. Attendance at prescribed concerts. *Classification:* Required of Art, Elementary Education, and Exceptional Education Divisions. *Credit:* Three semester hours—three class hours.

### MUS. 104. RUDIMENTS OF MUSIC

Fundamentals of music notation: clefs, key signatures, scales, intervals, meter, note values. *Classification:* Required of Music Majors. *Credit:* None. *Special Note:* May be waived by examination.

### MUS. 105. APPLIED MUSIC

Individual lessons in voice, piano, organ, strings, wind and percussion instruments. Lessons are adapted to the individual needs of the student. *Classification:* Required of Music Majors. *Credit:* One semester hour—one lesson per week.

### MUS. 106. SYMPHONY ORCHESTRA\*

Full symphonic instrumentation; standard and contemporary orchestral literature; opportunity for concerto playing; performances include convocations, Christmas and spring concerts and off-campus concerts; audition or special arrangement with conductor. *Classification:* Elective. *Credit:* One semester hour.

### MUS. 107. WOMEN'S GLEE CLUB\*

Membership selected at beginning of each semester; performances include convocations, Christmas and spring programs, community and campus programs. *Classification:* Elective. *Credit:* One semester hour.

\*One semester hour of credit maximum in any one semester for participation in musical organizations.

### MUS. 108. BAND\*

Full uniformed band; performances include convocations, spring concert, moving-up day, civic parades, and off-campus concerts; College-owned instruments available; audition or special arrangement with conductor. *Classification:* Elective. *Credit:* One semester hour.

### MUS. 109. HARMONY

Elementary written, aural, and keyboard harmony. Diatonic triads, non-harmonic tones, and the dominant seventh chord. *Classification:* Required of Music Majors; elective for others. *Prerequisite:* Mus. 104 or special permission. *Credit:* Three semester hours—three class hours.

### MUS. 110. HARMONY

Continuation of written, aural, and keyboard harmony. Secondary triads and altered chords. *Classification:* Required of Music Majors; elective for others. *Prerequisite:* Mus. 109. *Credit:* Three semester hours—three class hours.

### MUS. 112. A CAPPELLA CHOIR\*

Local concerts, Choir tour, Commencement Exercises. (Students selected through an examination emphasizing intonation, tone quality and musical ability.) *Classification:* Elective. *Credit:* One semester hour.

### MUS. 113. MEN'S GLEE CLUB\*

Participation in college and off-campus functions. (Members selected by audition.) *Classification:* Elective for all students. *Credit:* One semester hour.

### MUS. 115. SIGHT-SINGING AND EAR-TRAINING

Sight singing, melodic and rhythmic dictation; scale patterns and intervals, note and rest values; rhythm patterns. *Classification:* Required of Music Majors; elective for others. *Credit:* One semester hour—one class hour.

### MUS. 116. SIGHT-SINGING AND EAR-TRAINING

Sight singing, harmonic dictation; major and minor chords and their variations; cadences and progressions; metric structures. *Classification:* Required of Music Majors; elective for others. *Prerequisite:* Mus. 115. *Credit:* One semester hour—one class hour.

### MUS. 120. MUSIC IN LIVING

Functions and forms of music in our society; music as art and entertainment; music for work and worship; music in the home and school. *Classification:* Required of Home Economics Majors; elective for others by permission. *Credit:* Three semester hours—three class hours.

### MUS. 201. HARMONY

Advanced harmony. Written, aural and keyboard activities. *Classification:* Elective. *Prerequisite:* Mus. 109, 110. *Credit:* Three semester hours—three class hours.

### MUS. 202. BASIC MUSICIANSHIP

A working knowledge of theory rhythmic notation, terminology, scales, simple harmony, transposition. A working knowledge of activities: singing, playing piano and recorder, rhythmic for singing games and conducting. *Classification:* Required for Concentration in Music in Elementary Education; elective for others. *Prerequisite:* Mus. 100. *Credit:* Three semester hours—three class hours.

### MUS. 203. COUNTERPOINT

A general course in counterpoint ranging from strict counterpoint in the five species

16th Century style, to the 18th Century inventions and figures of Bach. *Classification:* Required of Music Majors; elective for others. *Prerequisite:* Mus. 110. *Credit:* Three semester hours—three class hours.

### MUS. 204. MUSIC FOR CHILDREN I

Music experiences for the nursery, kindergarten and primary grades; activities: singing, rhythms, listening, creating, playing and making instruments, song stories; broad use of all types of materials and equipment. *Classification:* Elective. *Credit:* Three semester hours—three class hours.

### MUS. 205. MUSIC FOR CHILDREN II

Music experiences for intermediate grades; activities: unison and part singing, folk dances, rhythms, listening, creating, playing instruments, music reading; enrichment of other areas of elementary school curriculum; broad use of all types of materials and equipment. *Classification:* Elective. *Credit:* Three semester hours—three class hours.

### MUS. 206. INTRODUCTION TO MUSIC LITERATURE

Introduction to music from antiquity to present; musical forms and styles; vocal and instrumental music. *Classification:* Required of Music Majors; elective for others. *Credit:* Three semester hours—three class hours. *Special Note:* To precede Mus. 407, 408, 409.

### MUS. 301. FORM AND ANALYSIS

A general course in the structural, harmonic and contrapuntal analysis of the various musical forms of all styles and periods. *Classification:* Required of Music Majors; elective for others. *Prerequisite:* Mus. 110, 203. *Credit:* Three semester hours—three class hours.

### MUS. 302. FOUNDATIONS OF MUSIC

Continued development of musicianship; introduction to music experiences in the elementary school; activities: singing,



rhythms, listening, creating, playing and making instruments, music reading; use of materials and equipment suitable for elementary school music. *Classification:* Required for Concentration in Music in Elementary Education; elective for others. *Prerequisite:* Mus. 100, 202. *Credit:* Three semester hours—three class hours.

#### MUS. 314. ELEMENTARY VOCAL METHODS

Vocal music program in the elementary school surveying basic music texts, recordings, rhythm and melodic instruments used to develop singing, rhythmic, creative, playing, listening, and music reading activities. *Classification:* Required of Music Education Majors; elective for others. *Credit:* Three semester hours—three class hours.

#### MUS. 315. JUNIOR-SENIOR HIGH VOCAL METHODS

Vocal music program in junior-senior high; particular concern for needs and characteristics of adolescents. *Classification:* Required of Music Education Majors; elective for others. *Prerequisite:* Mus. 314 or by advisement. *Credit:* Three semester hours—three class hours.

#### MUS. 316. VOCAL TECHNIQUES

Class voice procedures, elementary, junior-senior high choral groups, materials, rehearsal techniques. *Classification:* Required of Music Education Majors—vocal emphasis. *Prerequisite:* Mus. 314, 315. *Credit:* Two semester hours—two class hours.

#### MUS. 317. INSTRUMENTAL TECHNIQUES

Materials and literature for wind, string, and percussion instruments; organization and management of materials and equipment in the public school instrumental music programs, e.g., budget, library, etc. *Classification:* Required of Music Education Majors—instrumental emphasis. *Prerequisite:* Mus. 314, 315. *Credit:* Two semester hours—two class hours.

#### MUS. 400. AMERICAN FOLK MUSIC

Folk music developed in the U.S.: the colonial period, the frontier, the pioneer, the Indian, the cowboy, the Negro, the sailor, and the lumberman. Regional and popular music. Music of ethnic groups in the U.S. Art music as influenced by folk music. *Classification:* Elective. *Credit:* Three semester hours—three class hours. *Special Note:* May be elected by graduate students.

#### MUS. 401. ARRANGING—VOCAL

A study of voice ranges, vocal writing, accompaniments, and styles of choral arrangements. Practical experience in arranging music for the choral groups used in public schools. *Classification:* Elective for Music Education Majors. *Prerequisite:* Mus. 110, 203, 301. *Credit:* Three semester hours—three class hours.

#### MUS. 402. ARRANGING—INSTRUMENTAL

A study of tone qualities, ranges, and transpositions of standard band and orchestral instruments. Practical experience in arranging music for various large and small instrumental combinations. *Classification:* Elective for Music Education Majors. *Prerequisite:* Mus. 110, 203, 301. *Credit:* Three semester hours—three class hours.

#### MUS. 403. DRAMATIC MUSIC

Dramatic works of music for choral organizations: the cantata, oratorio and opera; history and development of these forms; attendance at churches and concert halls; representative works to be heard from records or actual performances; special readings and discussions of radio operatic presentations. *Classification:* Elective. *Credit:* Three semester hours—three class hours. *Special Note:* May be elected by graduate students.

#### MUS. 404. THE ART OF ENJOYING MUSIC

The symphony orchestra; the understanding and enjoyment of the masterpieces of

Classic, Romantic and Contemporary composers; attendance at selected concerts. *Classification:* Elective. *Credit:* Three semester hours—three class hours. *Special Note:* May be elected by graduate students.

#### MUS. 405. MUSIC LITERATURE FOR YOUNG LISTENERS

Music listening for elementary grades; responding to and understanding of music literature of periods and styles appropriate for elementary grades; varied approaches to discriminative, and perceptive listening as associated with the related arts; the role of the teacher in the listening experience. *Classification:* Elective. *Credit:* Three semester hours—three class hours. *Special Note:* May be elected by graduate students.

#### MUS. 407. MUSIC HISTORY (ANTIQUITY THROUGH BAROQUE)

Emphasis on Medieval, Renaissance, and Baroque styles. *Classification:* Required of Music Majors; elective for others. *Prerequisite:* Mus. 206. *Credit:* Three semester hours—three class hours. *Special Note:* May be elected by graduate students.

#### MUS. 408. MUSIC HISTORY (CLASSICAL THROUGH ROMANTIC)

The 19th Century opera, oratorio, solo song, chamber music, symphony and other forms. *Classification:* Required of Music Majors; elective for others. *Prerequisite:* Mus. 206. *Credit:* Three semester hours—three class hours. *Special Note:* May be elected by graduate students.

#### MUS. 409. MUSIC HISTORY (CONTEMPORARY)

Musical pioneers of 20th Century music; leading styles and compositional techniques. *Classification:* Required of Music Majors; elective for others. *Prerequisite:* Mus. 206. *Credit:* Three semester hours—three class hours. *Special Note:* May be elected by graduate students.

#### MUS. 410. AFRO-AMERICAN MUSIC

Spirituals, minstrelsy, ragtime, blues, jazz popular music, traditional music, Negro music in Latin America; relationship with African music practice. *Classification:* Elective. *Credit:* Three semester hours—three class hours. *Special Note:* May be elected by graduate students.

#### MUS. 411. CONDUCTING

Choral and orchestral conducting; use of the baton; reading and observation; attendance at selected concerts. *Classification:* Required of Music Majors; elective for others. *Credit:* Three semester hours—three class hours. *Special Note:* May be elected by graduate students.

#### MUS. 412. COMPOSITION

Creative work in small and large forms. Composition of entire movements for instrumental or choral groups. *Classification:* Elective for Music Education Majors. *Prerequisite:* Mus. 110, 203, 301, and 401 or 402. *Credit:* Three semester hours—three class hours. *Special Note:* May be elected by graduate students.

#### MUS. 413. VOICE CULTURE AND REPERTORY

Diction; breath control; tone coloring, voice problems; program making. *Classification:* Elective. *Credit:* Three semester hours—three class hours. *Special Note:* May be elected by graduate students.

#### MUS. 414. ADVANCED CHORAL CONDUCTING

A continuation and advanced study of the art of choral conducting: co-ordination of hand technique; breathing, voice control, articulation, balance, and interpretation of the score; i.e., dynamics, legato line, rhythm, etc. *Classification:* Required of Music Education Majors—vocal emphasis. *Prerequisite:* Mus. 411. *Credit:* Two semester hours—two class hours. *Special Note:* May be elected by graduate students.



**MUS. 415. ADVANCED INSTRUMENTAL CONDUCTING**

A continuation and advanced study of the art of instrumental conducting: the work emphasizes baton techniques, rehearsal and interpretative problems, and examination of scores. *Classification:* Required of Music Education Majors — instrumental emphasis. *Prerequisite:* Mus. 411. *Credit:* Two semester hours—two class hours. *Special Note:* May be elected by graduate students.

**MUS. 416. PRACTICUM IN TEACHING MUSIC**

Off-campus teaching in two situations in approved public schools with experiences in the vocal and instrumental fields and on the elementary and junior-senior high school levels. *Classification:* Required of Music Education Majors. *Prerequisite:* Required Professional Courses. *Credit:* Fourteen semester hours—daily for one semester.

**MUS. 417. PRINCIPLES OF MUSIC EDUCATION**

Nature and philosophy of music education; consideration of current issues and problems on all levels of teaching music. *Classification:* Required of Music Educa-

**NON-CREDIT ACTIVITIES**

The Music Department sponsors a wide variety of musical organizations for students: Madrigal Singers, Women's Quartet, Male Quartet, String Quartet, Wood-Wind Quintet, Brass Ensemble, Majorettes and Pep Band.



tion Majors. *Prerequisite:* Mus. 416. *Credit:* Two semester hours—two class hours.

**MUS. 418. LATIN AMERICAN MUSIC**

A survey of the ethnic and European heritage of Latin American music from early aboriginal sources to contemporary composition. Historical, anthropological and sociological considerations. *Classification:* Elective for Latin American Studies majors and for students electing this area for 24-hour concentration. *Prerequisite:* Music 100 or equivalent. *Credit:* Three semester hours—three class hours. *Special Note:* May be elected by graduate students.

**MUS. 495. INDEPENDENT PROJECT OR STUDY**

An individual undertaking by a student under 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. *Credit:* One to six semester hours. *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.

**PHILOSOPHY DEPARTMENT**

**PHIL. 104. WAYS OF KNOWING**

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; dogmatic authority; and the scientific methods of inquiry, education and expert authority. Methodological problems: the functions of concepts, or propositions, and of evidence for propositions. *Classification:* General Introduction to Philosophy. *Credit:* Three semester hours—three class hours.

**PHIL. 201. PROBLEMS OF PHILOSOPHY**

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. *Credit:* Three semester hours—three class hours.

**PHIL. 202. INTRODUCTION TO LOGIC**

An introduction to symbolic logic and the traditional logic of categorical sentences. *Classification:* Elective. *Prerequisite:* Phil. 104 or by consent of department. *Credit:* Three semester hours—three class hours.

**PHIL. 203. AESTHETICS**

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. *Credit:* Three semester hours—three class hours.

**PHIL. 204. PHILOSOPHY OF RELIGION**

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. *Credit:* Three semester hours—three class hours.

**PHIL. 205. HISTORY OF ANCIENT AND MEDIEVAL PHILOSOPHY**

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. *Credit:* Three semester hours—three class hours.

**PHIL. 206. HISTORY OF MODERN PHILOSOPHY**

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. *Credit:* Three semester hours—three class hours.

**PHIL. 301. AMERICAN PHILOSOPHY**

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. *Credit:* Three semester hours—three class hours.

**PHIL. 302. ETHICS**

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. 205-06. *Credit*: Three semester hours—three class hours.

#### PHIL. 303. PHILOSOPHY OF HISTORY

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. *Credit*: Three semester hours—three class hours.

#### PHIL. 304. SOCIAL AND POLITICAL PHILOSOPHY

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. *Credit*: Three semester hours—three class hours.

#### PHIL. 305. CONTEMPORARY PHILOSOPHY I

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. 205-06. *Credit*: Three semester hours—three class hours.

#### PHIL. 306. CONTEMPORARY PHILOSOPHY II

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. 205-06. *Credit*: Three semester hours—three class hours.

#### PHIL. 307. PHILOSOPHY OF SCIENCE

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. *Credit*: Three semester hours—three class hours.

#### PHIL. 308. PHILOSOPHY OF EXISTENTIALISM

A critical analysis of certain ideas relevant to existential phenomenology; including the writings of Heidegger, Jaspers, Marcel, Merleau-Ponty, and Sartre. *Classification*: Elective. *Prerequisite*: Phil. 104 or by consent of department. *Credit*: Three semester hours—three class hours.

#### PHIL. 309. METAPHYSICS

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. 205-06. *Credit*: Three semester hours—three class hours.

#### PHIL. 310. EPISTEMOLOGY (THEORY OF KNOWLEDGE)

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. 205-06. *Credit*: Three semester hours—three class hours.

#### PHIL. 401. SEMINAR IN PHILOSOPHY

Intensive analysis of selected topics in philosophy. *Classification*: Elective. *Prerequisite*: Consent of department. *Credit*: Three semester hours—three class hours.

#### PHIL. 402. PHILOSOPHY IN PSYCHOLOGY

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. *Credit*: Three semester hours—three class hours.

#### PHIL. 403. 17TH-18TH CENTURY RATIONALISTS

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. *Credit*: Three semester hours—Three class hours.

#### PHIL. 404. BRITISH EMPIRICISM

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. *Credit*: Three semester hours—three class hours.

#### PHIL. 405. PLATO AND ARISTOTLE

A detailed study of the major writings of Plato and Aristotle, with special emphasis on textual interpretation and philosophical criticism. Their principal doctrines on Logic, Epistemology, Metaphysics, Ethics, Psychology, Political Theory, and Theory of Value. *Classification*: Elective. *Prerequisite*: Either metaphysics or epistemology. *Credit*: Three semester hours—three class hours.

#### PHIL. 406. THEORY OF LOGIC AND MATHEMATICS

The Theory of Deductive Systems: Formal developments and the Philosophy of Logic after Frege. *Classification*: Elective. *Prerequisite*: Logic 202 or suitable substitute. *Credit*: Three semester hours—three class hours.

#### PHIL. 407. THEORY OF VALUE

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. *Credit*: Three semester hours—three class hours.

#### PHIL. 495. INDEPENDENT PROJECT OR STUDY

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. *Credit*: One to six semester hours. *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.

### INTERDEPARTMENTAL

#### I.D. 410. TWENTIETH CENTURY LATIN AMERICAN PROBLEMS

Interdisciplinary seminar on contemporary Latin American problems: Latin American Values, the Nativist Complex, Social Change and the Revolution of Rising Expectations. *Classification*: Required for Liberal Arts Majors in Latin American Studies. Elective for seniors in all Divisions. *Prerequisites*: Nine hours in Latin American Studies. *Credit*: Three Semester Hours. *Special Note*: (Elementary Education concentrators may elect I.D. 410 or SCI. 4—(Public Health of Latin American). May be taken for graduate credit.



## MATHEMATICS AND SCIENCE

### MATHEMATICS DEPARTMENT

#### MATH. 102. GENERAL MATHEMATICS

Number; processes; formulas; equations; graphs; functions, exponents; radicals, precision and accuracy in measurement; applications and problems. *Classification:* Required of all Industrial Arts students. *Credit:* Three semester hours—three class hours.

#### MATH. 103. MATHEMATICS IN MODERN LIFE

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. *Classification:* Elective for Art and Home Economic students, secondary majors in English, French, Spanish, Social Studies, and non-mathematics major in Liberal Arts. *Credit:* Three semester hours—three class hours.

#### MATH. 104. APPLIED MATHEMATICS

Problems related to the technical work of industrial arts; interpretation and derivation of formulas; linear and quadratic equations; primary trigonometric functions; graphs; analysis and solution of problems; interpretation and use of statistical data. *Classification:* Required of all Industrial Arts students. *Prerequisite:* Math. 102. *Credit:* Three semester hours—three class hours.

#### MATH. 105. PLANE TRIGONOMETRY

Functions of the general angle; solution of triangles; application of logarithms; identities; inverse functions; graphs of the functions; trigonometric equations; DeMoivre's theorem; miscellaneous problems. *Classification:* Elective. *Credit:* Three semester hour—three class hours.

#### MATH. 106. COLLEGE ALGEBRA

Functions; graphs, variation; progressions; complex numbers; mathematical induction;

theory of equations; logarithms; permutations; combinations; probability; determinants. *Classification:* Elective. *Credit:* Three semester hours—three class hours.

#### MATH. 107. ANALYTIC GEOMETRY AND CALCULUS

Real numbers; analytic geometry of linear and quadratic forms, functions; limits; continuity; differentiation of algebraic functions; applications of the derivative; the definite integral; fundamental theorem of calculus. *Classification:* Required of Secondary Mathematics majors. Elective for others with permission of instructor. *Credit:* Four semester hours—four class hours.

#### MATH. 108. ANALYTIC GEOMETRY AND CALCULUS

The definite integral; differentiation of transcendental functions; techniques of integration; applications of integration; parametric equations. *Classification:* Required of Secondary Mathematics majors. Elective for others with permission of instructor. *Prerequisite:* Math 107. *Credit:* Four semester hours—four class hours.

#### MATH. 109. SETS AND LOGIC

Basic set theory, operations on sets, cardinality, denumerable and non-denumerable sets; relations and functions; the statement calculus, rules of inference, types of proofs; the restricted predicate calculus, quantification, principle of duality, inference schemes. *Classification:* Required as a prerequisite for Math. 301, 302, 305, 308, 309 and 311. *Credit:* Three semester hours—three class hours.

#### MATH. 153. ANALYTIC GEOMETRY

Coordinate geometry of the straight line, circle, parabola, ellipse, and hyperbole; general equation of the second degree, transla-

tion and rotation of axes; general loci; rectangular and polar coordinates. *Classification:* Elective for other than mathematics majors. *Prerequisite:* Permission of instructor. *Credit:* Three semester hours—three class hours.

#### MATH. 202. ANALYTIC GEOMETRY AND CALCULUS

Further study of continuous and differentiable functions; infinite series; elements of solid analytic geometry; vectors; partial differentiation; multiple integration. *Classification:* Required of Secondary Mathematics majors. Elective for others with permission of instructor. *Prerequisite:* Math. 108. *Credit:* Four semester hours—four class hours.

#### MATH. 203. FUNDAMENTAL PRINCIPLES OF MATHEMATICS

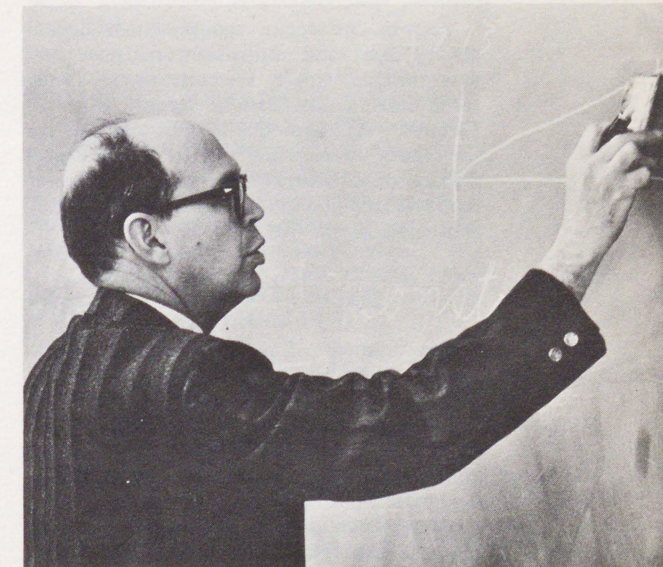
Nature of mathematics; set theory; integers; operations; systems of numeration; rational numbers, operations; number theory. *Classification:* Required of all Elementary Education students and Exceptional Education students. *Credit:* Three semester hours—three class hours.

#### MATH. 204. FUNDAMENTAL PRINCIPLES OF MATHEMATICS

Properties of real numbers; linear and quadratic equations and inequalities; systems of linear equations and inequalities; modular arithmetic; complex numbers; algebraic structures; functions; statistics. *Classification:* Required of all Elementary Education students and Exceptional Education students in M.R. and P.H. *Prerequisite:* Math. 203. *Credit:* Three semester hours—three class hours.

#### MATH. 207. INTRODUCTION TO ELECTRONIC COMPUTERS

History and description of computers; fundamentals of computer programming; computer mathematics. *Classification:* Elective. *Prerequisite:* Permission of Instructor. *Credit:* Three semester hours—three class hours.



#### MATH. 209. INTRODUCTION TO COMPUTER PROGRAMMING

Techniques of programming various languages, specifically the FORTRAN Language. *Classification:* Elective. *Prerequisite:* Math. 207 or permission of instructor. *Credit:* Three semester hours—three class hours.

#### MATH. 301. INTRODUCTION TO MODERN ALGEBRA

Fundamental concepts of sets, mappings, and operations. Topics included are semi-groups, groups, rings, integral domains, fields, modular arithmetic, equivalence and order relations, construction and characterization of number systems. *Classification:* Required of all Secondary Mathematics majors and elective for others. *Prerequisite:* Math. 109 and permission of instructor. *Credit:* Three semester hours—three class hours. *Special Note:* May substitute Math. 302.



#### MATH. 302. LINEAR ALGEBRA

Vectors and vector spaces; linear dependence; basis and dimension; matrices and determinants; linear systems; linear transformations. *Classification:* Required of all Secondary Mathematics majors and elective for others. *Prerequisite:* Math. 109 and permission of instructor. *Credit:* Three semester hours—three class hours. *Special Note:* May substitute Math. 301.

#### MATH. 303. MATHEMATICS IN THE ELEMENTARY GRADES

Development of number and the fundamental processes of elementary mathematics; principles, relationships; generalizations; structure; rationale of the processes with emphasis on historical development of and concepts underlying modern algorithms of arithmetic; measurement; professional literature; readings; project. *Classification:* Elective. *Credit:* Three semester hours—three class hours.

#### MATH. 304. DIFFERENTIAL EQUATIONS

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. *Classification:* Elective. *Prerequisite:* Math. 202. *Credit:* Three semester hours—three class hours.

#### MATH. 305. PROBABILITY AND STATISTICS

Probability spaces, discrete and continuous; distributions of discrete and continuous random variables; mathematical expectation; brief survey of point estimation, interval estimation, and testing hypotheses. *Classification:* Elective. *Prerequisite:* Math. 109 and 202. *Credit:* Three semester hours—three class hours.

#### MATH. 307. ELEMENTARY THEORY OF NUMBERS

Divisibility; Euclid's algorithm; prime numbers; prime factorization theorem; Eu-

ler's phi-function; Diophantine analysis; congruences; theorems of Fermat, Euler, and Wilson. *Classification:* Elective. *Prerequisite:* Math. 109 or Permission of Instructor. *Credit:* Three semester hours—three class hours.

#### MATH. 308. MODERN GEOMETRY

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. *Classification:* Required of Secondary Mathematics majors and elective for others. *Prerequisite:* Math. 109 and permission of instructor. *Credit:* Three semester hours—three class hours.

#### MATH. 309. ADVANCED CALCULUS

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. *Classification:* Elective. *Prerequisite:* Math. 109 and 202. *Credit:* Three semester hours—three class hours.

#### MATH. 310. FUNDAMENTAL PRINCIPLES OF MATHEMATICS

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. *Classification:* Required of Elementary Education students. *Prerequisite:* Math. 204. *Credit:* Three semester hours—three class hours.

#### MATH. 311. INTRODUCTION TO TOPOLOGY

Sets and functions; metric spaces; topological spaces; connectedness; compactness; separation. *Classification:* Elective. *Prerequisite:* Math. 107, 108, 109, 202 and at least one of the following: Math. 301, 302,

305, 307, 308, 309. *Credit:* Three semester hours—three class hours.

#### MATH. 401. MODERN GEOMETRY

Groups and transformations; projective geometry; affine geometry; Euclidean geometry. *Classification:* Elective. *Prerequisite:* Math. 308. *Credit:* Three semester hours—three class hours.

#### MATH. 405. PROBABILITY AND STATISTICS

Sampling distributions; the central limit theorem; point and interval estimation; test of hypotheses. *Classification:* Elective. *Prerequisite:* Math. 305. *Credit:* Three semester hours—three class hours.

#### MATH. 406. NUMERICAL ANALYSIS

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. *Classification:* Elective. *Prerequisite:*

### BIOLOGY

#### BIOL. 101. GENERAL BIOLOGY

Principles of basic cellular and tissue physiology; fundamentals of taxonomy; survey of the plant and animal kingdoms. *Classification:* Required of students in Elementary Education and Exceptional Education; elective for others. *Credit:* Three semester hours; two 1-hour lectures and one 2-hour laboratory.

#### BIOL. 102. GENERAL BIOLOGY

Principles of reproduction, heredity, evolution, ecology and conservation. *Classification:* Required of students in Elementary Education and Exceptional Education; elective for others. *Prerequisite:* Biol. 101. *Credit:* Three semester hours; two 1-hour

Math. 202. *Credit:* Three semester hours—three class hours.

#### MATH. 407. ADVANCED CALCULUS

Solid analytic geometry and vectors; partial differentiation; change of variable, maxima and minima, implicit function; multiple integrals, moment and centroids; Jacobians and transformations; infinite series, main tests for convergence. *Classification:* Elective. *Prerequisite:* Math. 309. *Credit:* Three semester hours—three class hours.

#### MATH. 495. INDEPENDENT PROJECT OR STUDY

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. *Credit:* One to six semester hours. *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.

lectures and 2-hour laboratory, one all-day field trip may be required.

#### BIOL. 111. GENERAL BIOLOGY

Biochemical and physiological aspects of life; anatomy and morphology of selected organisms; and principles of systematics. *Classification:* Required of Secondary Science Majors and Biology Liberal Arts Majors. *Credit:* Four semester hours; three 1-hour lectures and one 3-hour laboratory, one all-day field trip may be required.

#### BIOL. 112. GENERAL BIOLOGY

Reproduction and development; and an introduction to the principles of genetics, evolution and ecology. *Classification:* Required of Secondary Science Majors and



Biology Liberal Arts Majors. *Prerequisite:* Biol. 111. *Credit:* Four semester hours; three 1-hour lectures and one 3-hour laboratory, one all-day field trip may be required.

#### BIOL. 151. INTRODUCTION TO BIOLOGICAL PRINCIPLES

Lectures and occasional laboratory studies designed to familiarize students with major principles and modern concepts in biological science. *Classification:* Elective for undergraduate elementary education students in the Extension Program only. *Prerequisite:* None. *Credit:* Two semester hours—two hours per week.

#### BIOL. 152. INTRODUCTION TO BIOLOGICAL PRINCIPLES

Lectures and occasional laboratory studies designed to familiarize students with major principles and modern concepts in biological science. *Classification:* Elective for undergraduate elementary education students in the Extension Program only. *Prerequisite:* Biology 151 or permission of the instructor. *Credit:* Two semester hours—two hours per week.

#### BIOL. 201. MICROBIOLOGY

Microorganisms and the techniques of observing their morphology, growth characteristics, and distribution; the relationship of microorganisms to man and his activities. *Classification:* Required of Biology Majors; others by permission of the instructor. *Prerequisite:* Biol. 111-112, or the equivalent. *Credit:* Four semester hours; two 1-hour lectures and two 2-hour laboratories.

#### BIOL. 203. GENETICS

Principles of heredity; inheritance of specific plant, animal, and human traits; biochemical aspect of the gene; relationship to evolution. *Classification:* Required of Biology Majors; other by permission of the instructor. *Prerequisite:* Biol. 111-112, or the equivalent. *Credit:* Four semester hours; three 1-hour lectures and one 2-hour laboratory.

#### BIOL. 206. ENTOMOLOGY.

A study of the morphology, physiology, ecology and life history of insects. Major emphasis is placed on interrelationships of insects and man. *Classification:* Elective. *Prerequisite:* Biol. 101 and 102 or equivalent. *Credit:* Three semester hours; two 1-hour lectures and one 2-hour laboratory.

#### BIOL. 210. BACTERIOLOGY

Morphology and physiology of bacteria. General application to household science, sanitary science, hygiene and infectious diseases. *Classification:* Required of Home Economics Sophomores; all College elective except Biology Majors. *Prerequisite:* Biol. 101 and 102, or Chem. 101 and 102 or 104. *Credit:* Three semester hours; two 1-hour lectures and one 2-hour laboratory.

#### BIOL. 211. HUMAN PHYSIOLOGY

Basic physiology of cells, tissues, and organ systems. *Classification:* Required of Home Economics Sophomores; all College elective except Biology Majors. *Prerequisite:* Biol. 101 and 102; or Chem. 101 and 102 or 104. *Credit:* Three semester hours; two 1-hour lectures and one 2-hour laboratory.

#### BIOL. 301. GENERAL PHYSIOLOGY

Life phenomena of plants and animals. Physiological processes at the cellular level. *Classification:* Required of Biology Majors. *Prerequisite:* Biol. 111-112, or equivalent, and Chem. 112. Organic Chemistry recommended. *Credit:* Three semester hours; two 1-hour lectures and one 3-hour laboratory.

#### BIOL. 302. INVERTEBRATE ZOOLOGY

Morphology, physiology, adaptation, reproduction, genetics and ecology of the invertebrates. A systematic approach. *Classification:* Elective. *Prerequisite:* Biology 101-102 or equivalent. *Credit:* Three semester hours; two 1-hour lectures and one 2-hour laboratory.

#### BIOL. 304. GENERAL BOTANY

Survey of plant taxa to show the relationship of morphology and anatomy to the functioning plant. *Classification:* Elective. *Prerequisite:* Biology 101-102 or equivalent. *Credit:* Three semester hours, two 1-hour lectures and one 2-hour laboratory. One 2-day field session may be required.

#### BIOL. 310. MICROTECHNIQUE

The preparation of biological materials for study on the cell level. Special emphasis is placed on techniques of fixation, staining, mounting and photomicrography, using black and white, and color film. *Classification:* Elective. *Prerequisite:* Biol. 111, 112; others by permission of the instructor. *Credit:* Four semester hours; two 1-hour lectures, two 2-hour laboratories.

#### BIOL. 400. COMPARATIVE VERTEBRATE MORPHOLOGY

Description and evolution of the Chordates. Development, structure, and evolution of the organ systems; laboratory dissections of the dogfish shark, mud puppy, and cat. *Classification:* Elective for Biology Majors. *Prerequisite:* Two semesters of general biology or one semester of general zoology, or the equivalent. *Credit:* Four semester hours; three 1-hour lectures, one 3-hour laboratory. *Special Note:* May be taken for graduate credit.

#### BIOL. 401. ECOLOGY

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. *Classification:* Required of Biology Majors. *Prerequisite:* Biol. 111-112, or the equivalent. *Credit:* Four semester hours; three 1-hour lectures and one 3-hour laboratory; one 4-day field session and two half-day field trips may be required. *Special Note:* May be taken for graduate credit.

#### BIOL. 402. HUMAN BIOLOGY

Basic study of the human in early embryology; structure of the cells, tissues, organs; function of the human organism. *Classification:* Elective. *Prerequisite:* Biol. 111-112, or the equivalent, Biol. 301, Chem. 111-112. *Credit:* Three semester hours; two 1-hour lectures and one 2-hour laboratory. *Special Note:* May be taken for graduate credit.

#### BIOL. 403. ECONOMIC BIOLOGY AND CONSERVATION

Organisms of economic importance to man; basic concepts of modern agriculture; plant and animal diseases, including their life cycles and control; principles of biological conservation including forests, soil, water and wildlife. *Classification:* Elective for Biology Majors; others by permission of the instructor. *Prerequisite:* Biol. 111-112, or the equivalent. *Credit:* Three semester hours; two 1-hour lectures and one 2-hour laboratory; a number of field trips may be required. *Special Note:* May be taken for graduate credit.

#### BIOL. 404. PLANT MORPHOLOGY

A study of the comparative structure, reproductive cycles, and phyletic implications in the vascular and nonvascular plants; emphasis on the organization, developmental anatomy, and morphogenesis of vascular plants. *Classification:* Elective. *Prerequisite:* Biol. 111-112, or the equivalent. *Credit:* Three semester hours; two 1-hour lectures and one 2-hour laboratory. *Special Note:* May be taken for graduate credit.

#### BIOL. 405. ORGANIC EVOLUTION

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 in evolutionary theory, such as introgressive hybridization, polyploidy, structural hybridity, apomixis, and genetic homeostasis, will be developed. *Classifica-*



tion: Required of Biology Majors. *Prerequisite*: Biol. 111-112, or the equivalent; Biol. 203 and Biol. 401 desirable. *Credit*: Three semester hours; three 1-hour lectures. *Special Note*: Must be taken at the graduate level if not previously taken.

#### BIOL. 406. BIOMETRICS

Collection and presentation of biological data, sampling of attributes, chi-square, sampling from a normal distribution, measurement of central tendency, tests of null hypotheses, comparison of paired groups, linear regression, and correlation. *Classification*: Elective for Biology Majors. *Prerequisite*: Math. 106, or the equivalent depending upon high school preparation. *Credit*: Three semester hours; two 1-hour lectures and one 2-hour laboratory. *Special Note*: See recommended mathematics sequences at beginning of BIOLOGY section. May be taken for graduate credit.

#### BIOL. 408. SPECIAL PROBLEMS IN BIOLOGY

Individual research in a specific biological problem selected by the student. *Classification*: Elective for Biology Majors. *Prerequisite*: Senior status or 18 hours in Biology and permission of the instructor. *Credit*: One semester hour. *Special Note*: May be elected for a maximum of three semester hours of credit.

#### BIOL. 409. FIELD BIOLOGY

Field identification, growth characteristics, reproduction, movement, habitats and nutrition of organisms; distribution and man's effect on distribution. *Classification*: Elective. *Prerequisite*: Biol. 101-102, or the equivalent. *Credit*: Three semester hours; two 1-hour lectures and one 2-hour laboratory, field trips required. *Special Note*: May be elected at the graduate level by non-biology majors.

#### BIOL. 411. PARASITOLOGY

Principles of parasitology; morphology, physiology, ecology, life cycles, identification and pathological effects of representative parasites; control and treatment; signi-

ficance of parasitism in relation to human health. *Classification*: Elective. *Prerequisite*: Biology 111-112 or equivalent. *Credit*: Three semester hours; two 1-hour lectures and one 2-hour laboratory. *Special Note*: May be taken for graduate credit.

#### BIOL. 413. ORNITHOLOGY

Birds, their structure, functions, origins, and development; their identification and peculiar habits. *Classification*: Elective. *Prerequisite*: Biol. 101-102, or the equivalent. *Credit*: Three semester hours; two 1-hour lectures and one 2-hour laboratory. Field work required. *Special Note*: May be taken for graduate credit.

#### BIOL. 415. RADIATION BIOLOGY

Properties of nuclear and high energy radiation; detection and counting systems; mechanisms of radiobiological actions; radioisotopes as biological tools; biological effects, dose and tolerance; personnel and area monitoring. *Classification*: Elective for Biology Majors; others by permission of the instructor. *Prerequisite*: Biol. 111-112, or the equivalent; 6 semester hours of chemistry. *Credit*: Three semester hours; four hours per week including lectures, laboratory and field trips. *Special Note*: May be taken for graduate credit.

#### BIOL. 495. INDEPENDENT PROJECT OR STUDY

An individual undertaking by a student under the guidance of a faculty member, involving a special investigative of creative potential not otherwise available through regular course offerings; available to upperclassmen who have demonstrated capacity for independent work. *Classification*: Elective for upperclass Biology majors. *Credit*: One to six semester hours. *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.

## CHEMISTRY

#### CHEM. 101. GENERAL CHEMISTRY

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. *Classification*: Required of Home Economics and Industrial Arts Education majors. Science elective for Art and Secondary Education and Liberal Arts Majors. *Credit*: Three semester hours; two lectures and one 3-hour laboratory.

#### CHEM. 102. GENERAL CHEMISTRY

A continuation of General Chemistry 101. *Classification*: Required of Industrial Arts Education majors. Science elective for Art and Secondary Education and Liberal Arts Majors. *Prerequisite*: Chem. 101. *Credit*: Three semester hours; two lectures and one 3-hour laboratory.

#### CHEM. 104. CHEMISTRY APPLIED TO HOME ECONOMICS

Basic principles of organic and biological chemistry as applied to foods, nutrition, and textiles. *Classification*: Required of Home Economics freshmen. *Prerequisite*: Chem. 101. *Credit*: Three semester hours; two 1-hour lectures and one 2-hour laboratory.

#### CHEM. 111. GENERAL CHEMISTRY

Introduction to chemistry utilizing physico-chemical principles with illustrative laboratory work of a quantitative nature. *Classification*: Required of chemistry and other science majors. *Credit*: Four semester hours; three lectures and one 3-hour laboratory.

#### CHEM. 112. GENERAL CHEMISTRY (and QUALITATIVE ANALYSIS)

A continuation of General Chemistry; laboratory work in qualitative inorganic analysis. *Classification*: Required of chemis-

try and other science majors. *Prerequisite*: Chem. 111. *Credit*: Four semester hours; two lectures and two 3-hour laboratories.

#### CHEM. 201. ORGANIC CHEMISTRY

Reactions and physical properties of compounds of carbon; laboratory emphasis on physical techniques; the literature of chemistry. *Classification*: Required of Chemistry Majors. *Prerequisite*: Chem. 111-112. *Credit*: Four semester hours; three lectures and one 3-hour laboratory.

#### CHEM. 202. ORGANIC CHEMISTRY

A continuation of Organic Chemistry; laboratory work consisting of sequential syntheses. *Classification*: Required of Chemistry Majors. *Prerequisite*: Chem. 201. *Credit*: Four semester hours; three lectures and one 3-hour laboratory.

#### CHEM. 210. LITERATURE OF CHEMISTRY

Primary, secondary, and tertiary sources of chemical literature and library experience in usage. The literature search-research in documentation. *Classification*: Required of Liberal Arts majors in chemistry. *Credit*: One semester hour; one lecture hour.

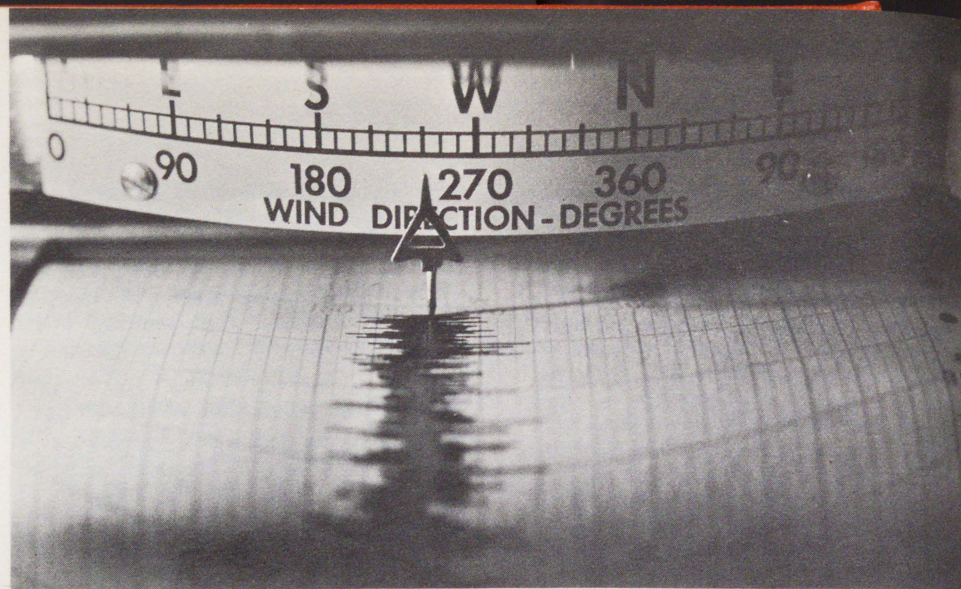
#### CHEM. 301. ANALYTICAL CHEMISTRY (and INSTRUMENTATION)

Theory and laboratory applications of quantitative and instrumental analysis; utilizing gravimetric, volumetric and physico-chemical methods. *Classification*: Required of Chemistry Majors. *Prerequisite*: Chem. 111-112, plus junior standing in chemistry. *Credit*: Three semester hours; one lecture and two 3-hour laboratories.

#### CHEM. 400. INORGANIC CHEMISTRY

A study of the theoretical aspects of inorganic chemistry with emphasis on the application of thermodynamic, kinetic and





structural principles to inorganic systems. *Classification:* Required of Liberal Arts majors in Chemistry. *Prerequisite:* Chem. 405. *Credit:* Three semester hours; three lectures.

#### CHEM. 401. BIOCHEMISTRY

Physical and organic chemical studies of proteins, carbohydrates, lipids, and water applicable to cellular and membrane phenomena. *Classification:* Elective—Strongly recommended for Chemistry Majors. *Prerequisite:* Chem. 405. *Credit:* Four semester hours; three lectures and one 3-hour laboratory.

#### CHEM. 403. INSTRUMENTAL CHEMISTRY

Instrumental methods of chemical analysis through study of theory and operation of instruments involving spectrophotometry, potentiometry, polarography, colorimetry, electrometric titrations and chromatography. *Classification:* Required of Liberal Arts in majors in Chemistry. *Prerequisite:* Chem. 405. *Credit:* Three semester hours; one lecture, two 3-hour laboratories.

#### CHEM. 404. CHEMISTRY SEMINAR

Discussion of current chemical research and the profession of chemistry. *Classification:* Required of Chemistry Majors. *Prerequisite:* 22 semester hours and/or senior standing in chemistry. *Credit:* One semester hour.

#### CHEM. 405. PHYSICAL CHEMISTRY

Description of physico-chemical systems; properties of gases, liquids, and solids; the nature of chemical reactions; thermodynamics, kinetics, electrochemistry; the structure of matter. *Classification:* Required of Chemistry Majors. *Prerequisite:* Two years of chemistry, Phy. 112, Math. 108. *Credit:* Four semester hours; three lectures and one 3-hour laboratory.

#### CHEM. 406. PHYSICAL CHEMISTRY

A continuation of Physical Chemistry. *Classification:* Required of Chemistry Majors. *Prerequisite:* Chem. 405. *Credit:* Four semester hours; three lectures and one 3-hour laboratory.

#### CHEM. 495. INDEPENDENT PROJECT OR STUDY

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 upperclass Chemistry Majors. *Credit:* One to six semester hours. *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.

## EARTH SCIENCES

#### E.S. 101. PHYSICAL GEOLOGY

Introduction to weathering, erosion, deposition, mountain building, earthquakes and volcanism; minerals, rocks and topographic maps. *Classification:* All College elective; may not be taken by Secondary Education Science Students. *Credit:* Three semester hours; two 1-hour lectures and one 2-hour laboratory; occasional field trips. *Special Notes:* E.S. 101 may be elected in lieu of Sci. 203; E.S. 204 may be elected in lieu of Sci. 204.

#### E.S. 111. EARTH SCIENCE

Earth as part of the solar system; the Milky Way galaxy and other celestial systems; observation of stars and planets; astronomical instruments. The atmosphere; methods of observing and recording weather elements; interpretation of weather maps. *Classification:* Required of Secondary Education Science Students; others with permission of instructor. *Credit:* Four semester hours; three 1-hour lectures and one 2-hour laboratory, occasional field trips.

#### E.S. 112. PHYSICAL GEOLOGY

Geologic processes in operation on and beneath the surface of the earth. *Classification:* Required of Secondary Education Science Students; others with permission of instructor. *Credit:* Four semester hours; three 1-hour lectures and one 2-hour laboratory, occasional field trips.

#### E.S. 201. GEOMORPHOLOGY

Land forms with particular reference to the physical principles of the processes that produce them. *Classification:* Required of Secondary Education Earth Science Majors and Liberal Arts Geology Majors. *Prerequisite:* E.S. 204 or permission of instructor. *Credit:* Three semester hours; two 1-hour lectures and one 2-hour laboratory, occasional field trips.

#### E.S. 204. HISTORICAL GEOLOGY

The physical history of the earth in relationship to the orderly development of life throughout geologic time. *Classification:* All College elective; required of Secondary Education Earth Science Majors and Liberal Arts Geology Majors. *Prerequisite:* E.S. 101 or 112. *Credit:* Three semester hours; two 1-hour lectures, one 2-hour laboratory, occasional field trips. *Special Note:* E.S. 204 may be elected in lieu of Sci. 204.

#### E.S. 301. STRATIGRAPHY

Basic principles governing the interpretation, correlation, classification and nomenclature of stratified rock units. *Classification:* Required of Secondary Education Earth Science Majors and Liberal Arts Geology Majors. *Prerequisite:* E.S. 201, 204. *Credit:* Three semester hours; two 1-hour lectures, one 2-hour laboratory, occasional field trips.

#### E.S. 302. PALEONTOLOGY

A general study of fossils and their stratigraphic distribution. *Classification:* Required of Secondary Education Earth Science Majors and Liberal Arts Geology Majors. *Prerequisite:* E.S. 204. *Credit:* Three semester hours; two 1-hour lectures, one 2-hour laboratory, occasional field trips.

#### E.S. 303. MINERALOGY

Minerals and their chemical and physical properties; occurrence, identification, and classification; crystallography; rock-forming minerals. *Classification:* Required of Secondary Education Earth Science Majors and Liberal Arts Geology Majors. *Prerequisite:* E.S. 101 or 112, Chem. 111-112. *Credit:* Three semester hours; two 1-hour lectures, one 2-hour laboratory, occasional field trips.



E.S. 400. GEOLOGY OF NEW YORK STATE

Physiography, stratigraphy, paleontology, glacial geology, and economic geology of New York State; geologic history of the region. *Classification:* Elective for Earth Science and Geology Majors; others with permission of instructor. *Prerequisites:* E.S. 201, 204, 301, 302. *Credit:* Three semester hours; two 1-hour lectures, one 2-hour laboratory, occasional field trips. *Special Note:* May be taken for graduate credit.

E.S. 401. STRUCTURAL GEOLOGY

Analysis of earth structures from genetic and applied aspects. *Classification:* Electives for Earth Science and Geology Majors. *Prerequisite:* E.S. 112, 201, 204, 301. *Credit:* Three semester hours, two 1-hour lectures, one 2-hour laboratory, occasional field trips. *Special Note:* May be taken for graduate credit.

E.S. 402. GEOLOGY OF NORTH AMERICA

Major physical provinces of the United States and adjacent areas with reference to their geologic history, structure and topographic development. *Classification:* Required of Secondary Education Earth Science Majors; elective for Liberal Arts Geology Majors; others with permission of instructor. *Prerequisite:* E.S. 201, 204, 301,

PHYSICS

PHY. 101. GENERAL PHYSICS

Mechanics, properties of matter, heat, wave motion, and sound; selection of laboratory experiences based on the student's curricular program. *Classification:* Required of Industrial Arts sophomores; elective for others. *Credit:* Three semester hours; two 1-hour lectures and one 2-hour laboratory.

PHY. 102. GENERAL PHYSICS

Light, electricity and magnetism, atomic physics; selection of laboratory experiences

302. *Credit:* Three semester hours; two 1-hour lectures, one 2-hour laboratory, occasional field trips. *Special Note:* May be taken for graduate credit.

E.S. 404. OCEANOGRAPHY

A general approach to the physics, chemistry, biology, and geology of the ocean and its floor. *Classification:* Elective for Secondary Education Science Students and Liberal Arts Geology Majors; others with permission of instructor. *Prerequisite:* Two years of undergraduate biology, chemistry, geology, or physics. *Credit:* Three semester hours; two 1-hour lectures, one 2-hour laboratory; occasional field trips. *Special Note:* May be taken for graduate credit.

E.S. 495. INDEPENDENT PROJECT OR STUDY

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 upperclass Earth Science and Geology Majors. *Credit:* One to six semester hours. *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.

based on the student's curricular program. *Classification:* Required of Industrial Arts sophomores; elective for others. *Prerequisite:* Phy. 101, or the equivalent. *Credit:* Three semester hours; two 1-hour lectures and one 2-hour laboratory.

PHY. 105. PHYSICS PROBLEMS

Solution of selected physics problems to raise the student's problem-solving competence to the level required in Phy. 111-112.

*Classification:* Required of students with credit in Phy. 101 and 102, or the equivalent, who plan to major in physics. *Prerequisite:* Phy. 101 and 102, or the equivalent. *Credit:* Two semester hours; one 2-hour problem session.

PHY. 111. GENERAL PHYSICS

Mechanics, heat, wave motion, and sound; the nature, behavior and transformation of energy. *Classification:* Required of Secondary Science Majors recommended for Liberal Arts Physics Majors. *Credit:* Four semester hours; three 1-hour lectures and one 2-hour laboratory.

PHY. 112. GENERAL PHYSICS

Electricity, magnetism, light, atomics and nucleonics; the nature, behavior and transformation of energy; man's control of energy. *Classification:* Required of Secondary Science Majors; recommended for Liberal Arts Physics Majors. *Prerequisite:* Phy. 111. *Credit:* Four semester hours; three 1-hour lectures and one 2-hour laboratory.

PHY. 201. RADIO ELECTRONICS

Series and parallel resonant circuits, power transfer and impedance matching; vacuum tubes, rectifiers, amplifiers; oscillators; modulation and demodulation; radio transmitters and receivers; design construction of rectifiers, power supplies, amplifiers, and simple receivers. *Classification:* Required of Secondary Physics Majors; others by permission of instructor. *Prerequisite:* Phy. 111-112, or the equivalent, and Phy. 202. *Credit:* Three semester hours; two 1-hour lectures and one 2-hour laboratory.

PHY. 202. INTERMEDIATE ELECTRICITY

Application of Kirchoff's Laws to networks; induction, capacitance, and resonance in a.c. currents; solutions of a.c. problems by various means including vector algebra; electrical instruments and their use in electrical measurement. *Classification:* Required of Secondary and Liberal Arts Physics Majors; others by permission of instructor. *Prerequisite:* Phy. 111-112, or

the equivalent, and calculus. *Credit:* Three semester hours; three 1-hour lectures.

PHY. 301. ELECTRICAL MEASUREMENTS

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. *Classification:* Elective for Physics Majors; others by permission of instructor. *Prerequisite:* Phy. 111-112, or the equivalent, Phy. 202 and calculus. *Credit:* Four semester hours; one 1-hour lecture and two 3-hour laboratories.

PHY. 303. HEAT AND THERMODYNAMICS

Transfer, emission, absorption, reflection of heat; thermodynamics; isothermal and adiabatic processes; heat engines. *Classification:* Elective for Physics Majors; others by permission of instructor. *Prerequisite:* Phy. 111-112, or the equivalent, and calculus. *Credit:* Three semester hours; three 1-hour lectures.

PHY. 304. SOUND

Analysis of sound; reflection and refraction; diffraction and interference; the ear and hearing; musical sound, quality, scales; supersonics. *Classification:* Elective for Physics Majors; others by permission of instructor. *Prerequisite:* Phy. 111-112, or the equivalent, and calculus. *Credit:* Three semester hours; three 1-hour lectures.

PHY. 401. OPTICS

Fundamentals of geometrical and physical optics; the nature and propagation of light; experiences with such optical phenomena as interference, diffraction, polarization, and double refraction. *Classification:* Required of Liberal Arts Physics Majors; others by permission of instructor. *Prerequisite:* Phy. 111-112, or the equivalent, and calculus. *Credit:* Three semester hours; three 1-hour lectures.



PHY. 402. LABORATORY IN OPTICS

Principles and practices in making precision measurements using such instruments as the interferometer and spectrometer. *Classification:* Elective for Physics Majors; other by permission of instructor. *Prerequisite:* Phy. 111-112, or the equivalent, and Phy. 401. *Credit:* Three semester hours; two 3-hour laboratories.

PHY. 403. X-RAYS

Production and measurement of X-rays; absorption and wave properties; Bragg's Law and crystal lattices; emission and absorption spectra; scattering. *Classification:* Elective for Physics Majors; others by permission of instructor. *Prerequisite:* Phy. 111-112, or the equivalent, and calculus. *Credit:* Three semester hours; three 1-hour lectures.

PHY. 404. LABORATORY PRACTICUM

Construction, operation, and maintenance of laboratory equipment commonly used in secondary school physics instruction; sources of information about famous experiments; tables of physical data; demonstration experiences. *Classification:* Required of Secondary Physics Majors; others by permission of instructor. *Prerequisite:* Phy. 111-112, or the equivalent. *Credit:* Two semester hours; two 2-hour laboratories.

PHY. 405. MODERN ATOMIC PHYSICS

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. *Classification:* Required of Secondary and Liberal Arts Physics Majors; others by permission of instructor. *Prerequisite:* Phy. 111-112, or the equivalent, and calculus. *Credit:* Three semester hours; three 1-hour lectures.

PHY. 406. MODERN PHYSICAL CONCEPTS

Applications and limitations of the basic laws of classical mechanics; the special

theory of relativity; electricity and the relationship between electrodynamics and special relativity; introduction to methods of quantum mechanics; methods and simple applications of statistical mechanics. *Classification:* Required of Secondary Physics Majors; others by permission of instructor. *Prerequisite:* Phy. 111-112, or the equivalent, and calculus. *Credit:* Four semester hours; four 1-hour lectures.

PHY. 407. INTERMEDIATE MECHANICS

An analytical study of Newtonian mechanics including a vector treatment of the laws of motion; a study of the properties and motions of rigid bodies; the mechanics of continuous media and an introduction to some more generalized formalisms of mechanics. *Classification:* Required of Liberal Arts Physics Majors; others by permission of instructor. *Prerequisite:* Phy. 111-112, or the equivalent, and differential equations. *Credit:* Three semester hours; three 1-hour lectures.

PHY. 408. NUCLEAR PHYSICS

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. *Classification:* Elective for Physics Majors; others by permission of instructor. *Prerequisite:* Phy. 111-112, or the equivalent, and calculus. *Credit:* Three semester hours; three 1-hour lectures.

PHY. 409. INTRODUCTORY SPECTROSCOPY

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. *Classification:* Elective for Physics Majors; others by permission of instructor. *Prerequisite:* Phy. 111-112, or the equivalent, and calculus. *Credit:* Three semester hours; two 1-hour lectures and one 2-hour laboratory.

PHY. 410. ADVANCED PHYSICS LABORATORY

Selected classical experiments chosen from the areas of mechanics, heat, sound, light, electricity and magnetism, and modern physics. *Classification:* Required of Liberal Arts Physics Majors; others by permission of instructor. *Prerequisite:* Phy. 111-112, or the equivalent, and junior standing in physics. *Credit:* Three semester hours; two 3-hour laboratories. May be repeated for a maximum of nine credit hours.

PHY. 411. INTRODUCTION TO SOLID STATE PHYSICS

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. *Classification:* Elective

OTHER SCIENCE

SCI. 203. MAN AND HIS NATURAL ENVIRONMENT

Basic principles of physics and chemistry; distribution, use and control of matter and energy. *Classification:* Required as indicated in specific curricula, otherwise elective. *Credit:* Three semester hours; two 1-hour lectures and one 2-hour laboratory.

SCI. 204. MAN AND HIS NATURAL ENVIRONMENT

Basic principles of astronomy, geology and meteorology. *Classification:* Required as indicated in specific curricula, otherwise elective. *Credit:* Three semester hours; two 1-hour lectures and one 2-hour laboratory.

SCI. 404. REGIONAL STUDY IN SCIENCE

Field work at Allegany State Park and areas nearby; identification of common plants and animals; relationships between living things and their environment; geology of the Park and Western New York. *Classification:* All-College elective. Cannot be

for Physics Majors; others by permission of instructor. *Prerequisite:* Phy. 111-112, or the equivalent, and calculus. *Credit:* Three semester hours; three 1-hour lectures.

PHY. 495. INDEPENDENT PROJECT OR STUDY

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 upperclass Physics majors. *Credit:* One to six semester hours. *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 Director of Individual study.

counted by Science Majors as part of the major sequence. *Prerequisite:* Senior status; six semesters hours of biology and three semester hours of geology desirable. *Credit:* Two semester hours, two weeks in residence at the Park, offered during Summer School Post Session. *Special Note:* May be taken for graduate credit.

SCI. 405. CONSERVATION WORKSHOP

Problems of soil, water, forest, wildlife, and mineral resources conservation; field instruction and lectures by experts from the State Conservation Department, federal bureaus, and local community organizations; techniques in conservation education. *Classification:* All-College elective. Cannot be counted by Science Majors as part of the major sequence. *Prerequisite:* Senior status; six semester hours of biology and three semester hours of geology desirable. *Credit:* Two semester hours, two-week workshop in residence at the College Camp, offered during Summer School Post Session. *Special Note:* May be taken for graduate credit.



#### SCI. 409. HISTORY OF SCIENCE

The development of science from stone age to nuclear age. Its relationship to other branches of human endeavor. *Classification:* Elective for Liberal Arts, Secondary Science and History majors. *Prerequisite:* A minor in science or a minor in history with background in science. *Credit:* Three semester hours, three one-hour lectures.

#### SCI. 410. SCIENCE IN THE ELEMENTARY SCHOOL CURRICULUM

Background, purposes and present scope of science in the elementary school; professional review of subject matter with demonstrations, experiments, audio-visual aids, reading. *Classification:* Elective for Elementary Education and Exceptional Education seniors or graduate students. *Pre-*

*requisite:* Six semester hours of biology and six semester hours of physical sciences. *Credit:* Three semester hours; two 1-hour lectures and one 2-hour laboratory. *Special Note:* May be taken for graduate credit.

#### SCI. 495. INDEPENDENT PROJECT OR STUDY

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. *Credit:* One to six semester hours. *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.



## SOCIAL SCIENCES

### ANTHROPOLOGY

#### ANTH. 201. GENERAL ANTHROPOLOGY

The Study of Man — the animal and the culture-maker; analysis of human evolution; development of races and their significance; human pre-history; the production of culture; human institutions; cultural change. *Classification:* Elective for sophomores; juniors and seniors. *Credit:* Three semester hours—three class hours.

#### ANTH. 301. INDIANS OF NORTH AMERICA

Summary of the racial and archaeological background; linguistics; description of Indian life in the nine sub-cultural areas of North America; contribution to, and the effect of Indians on, American culture; current Indian problems. *Classification:* Elective for juniors and seniors. *Credit:* Three semester hours—three class hours.

#### ANTH. 302. ETHNOGRAPHY OF MESOAMERICA

Indians of Mexico, Belize, Guatemala, El Salvador, and Honduras, racial types, language, and culture. Tribal groups are distinguished; Zapotecs, Maya, Tarascans, Aztecs, Seri, etc. Impact of Mesoamerican culture on Indian cultures of the American Southwest, American Southeast, the Andes, Central America, and the Caribbean. *Classification:* Anth. 302, or 303 required for Latin American Studies majors and for students electing this area for 24-hour concentration. Elective for juniors and seniors. *Credit:* Three semester hours—three class hours.

#### ANTH. 303. ETHNOGRAPHY OF SOUTH AMERICA

Indian and Negroid peoples of Nicaragua, Costa Rica, Panama, South America, and

the West Indies; racial types, language and culture. Tribal and ethnic groups are distinguished. *Classification:* Anth. 302 or Anth. 303 required for Latin American Studies majors in the Liberal Arts program and for students electing this area for 24-hour concentration. Elective for juniors and seniors. *Credit:* Three semester hours—three class hours.

#### ANTH. 402. CULTURAL ANTHROPOLOGY

The study of the nature of culture, its processes, and its content; anthropological thought; language; cultural psychology; practical anthropology. *Classification:* Elective for juniors and seniors. *Credit:* Three semester hours—three class hours. *Special Note:* May be elected by graduate students.

### ECONOMICS

#### ECON. 201. PRINCIPLES AND PROBLEMS OF ECONOMICS PART I, MACRO-ECONOMICS

Basic concepts of the economic system; analysis of national income components; determination of the level of national income; money and banking; role of monetary and fiscal policies in promoting economic growth; analysis of selected problems in economic development. *Classification:* Required of Secondary Social Studies majors. Elective for sophomores, juniors and seniors. *Credit:* Three semester hours—three class hours.



ECON. 203. PRINCIPLES AND PROBLEMS OF ECONOMICS  
PART II, MICRO-ECONOMICS

Nature of micro-economics; the composition and pricing of national output; distribution of income and the pricing of productive factors; supply and demand analysis as applied to agriculture, the firm, and the consumer; determination of price under various market conditions; international trade and finance; the elementary mathematics of price theory. *Classification:* Elective for sophomores, juniors and seniors. *Credit:* Three semester hours—three class hours.

ECON. 301. ECONOMICS OF LABOR-MANAGEMENT RELATIONS

Significance of labor and labor institutions in the development of the American economy; background, growth, structure and objectives of trade unions in the United States; nature, scope, issues and enforcement of collective bargaining; economic theory of the labor market; role of government in labor-management relations; current problems of labor-management relations. *Classification:* Elective for juniors and seniors. *Credit:* Three semester hours—three class hours.

ECON. 304. ECONOMICS OF MONEY AND BANKING

Relation of personal finance to national

economic activity; role of money and banking operation in the general economic system; functioning of Federal Reserve System; development and current problems of monetary theory and general fiscal policy. *Classification:* Elective for sophomores, juniors, and seniors. *Credit:* Three semester hours—three class hours.

ECON. 305. PUBLIC FINANCE

Analysis of the nature and growth of public expenditures; principles of taxation; federal, state, and local revenue; introduction to fiscal policy and theory; significance of public debt; selected problems in intergovernmental fiscal relations. *Classification:* Elective for sophomores, juniors, and seniors. *Prerequisite:* Econ. 201 or 203 or consent of instructor. *Credit:* Three semester hours—three class hours.

ECON. 401. INTERNATIONAL ECONOMIC RELATIONS OF THE UNITED STATES

Importance of international trade to the economy; basic theory of international trade, specialization, and exchange; survey of foreign economic policy; relationship between foreign and domestic objectives, implementation of foreign policy; evaluation of present policy and recommendations for the future. *Classification:* Elective for juniors and seniors. *Credit:* Three semester hours—three class hours. *Special Note:* May be elected by graduate students.

GEOGRAPHY DEPARTMENT

GEOG. 101. ELEMENTS OF PHYSICAL GEOGRAPHY

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 Liberal Arts Geography majors; elective for others. *Credit:* Three semester hours—three class hours.

GEOG. 102. ELEMENTS OF CULTURAL GEOGRAPHY

Nature of cultural geography; relationships between cultural and physical landscapes; man's adaptations to the natural environment: hunting and gathering, herding and farming; effects of technology on land utilization; and problems arising from present occupancy of the land. *Classification:* Required of Liberal Arts Geography majors;

elective for others. *Credit:* Three semester hours—three class hours.

GEOG. 201. GENERAL GEOGRAPHY I

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 and Secondary Social Studies majors. *Credit:* Three semester hours—three class hours.

GEOG. 202. GEOGRAPHY OF ANGLO-AMERICA

Landforms and climates, soils and natural vegetation; land-use regions: distribution of resources; changing pattern of land use; industrial development. *Classification:* Elective for sophomores, juniors and seniors. *Credit:* Three semester hours—three class hours.

GEOG. 203. GEOGRAPHY OF MIDDLE AMERICA.

Physical, cultural, historical, and regional geography of Mexico, Central America, and the West Indies; emphasis on man's relationship to the natural environment. *Classification:* Elective for sophomores, juniors and seniors. *Credit:* Three semester hours—three class hours.

GEOG. 205. GEOGRAPHY OF ASIA

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:* Elective for sophomores, juniors, and seniors. *Credit:* Three semester hours—three class hours.

GEOG. 206. GEOGRAPHY OF NEW YORK STATE

Landform regions, climate and natural resources; development of transportation; uti-

lization and conservation of soil, mineral, forest, wildlife and water resources; industrial development; distribution of population; location and functions of cities. *Classification:* Elective for sophomores, juniors, and seniors. *Credit:* Three semester hours—three class hours.

GEOG. 207. CONSERVATION OF NATURAL RESOURCES

Depletion of resources: soils, water, wildlife, forests, grasslands, and minerals; wise use of resources; conservation programs in the United States. *Classification:* Required of Liberal Arts Geography majors; elective for others. *Credit:* Three semester hours—three class hours.

GEOG. 301. GENERAL GEOGRAPHY II

Second half of world regional geography: the physical, cultural, economic, and political geographies of Anglo-America, Europe, Asia (excluding southwest Asia), and Australia. *Classification:* Required of Elementary Education and secondary Social Studies majors. *Prerequisite:* Geog. 201. *Credit:* Three semester hours—three class hours.

GEOG. 302. GEOGRAPHY OF SOUTH AMERICA

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:* Elective for sophomores, juniors, and seniors. *Credit:* Three semester hours—three class hours.

GEOG. 305. WORLD ECONOMIC GEOGRAPHY

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 Liberal Arts Geography majors; elective for others. *Credit:* Three semester hours—three class hours.



#### GEOG. 306. GEOGRAPHY OF AFRICA

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:* Elective for sophomores, juniors, and seniors. *Credit:* Three semester hours—three class hours.

#### GEOG. 402. MAP INTERPRETATION FOR TEACHERS

History of maps; types of maps; techniques in map interpretation; methods of developing map-reading skills; maps in the elementary and secondary schools. *Classification:* Electives for juniors and seniors. *Credit:* Three semester hours—three class hours. *Special Note:* May be elected by graduate students.

#### GEOG. 403. GEOGRAPHY OF EUROPE

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:* Elective for juniors and seniors. *Credit:* Three semester hours—three class hours.

#### GEOG. 404. GEOGRAPHY OF THE SOVIET UNION

Physiographic regions: landforms, climate, natural vegetation, soils, and drainage

patterns; major economies and their relationships to the natural environment; problems resulting from changes in land use; interdependence of regions. *Classification:* Elective for juniors and seniors. *Credit:* Three semester hours—three class hours. *Special Note:* May be elected by graduate students.

#### GEOG. 405. GEOGRAPHY OF THE MEDITERRANEAN WORLD

Historical geography; physiographic regions: landforms, climate, natural vegetation, soils, and drainage patterns; major economies and their relationships to the natural environment; geographic backgrounds of political divisions and current events; changing patterns of land use. *Classification:* Elective for juniors and seniors. *Credit:* Three semester hours—three class hours. *Special Note:* May be elected by graduate students.

#### GEOG. 495. INDEPENDENT PROJECT OR STUDY

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. *Credit:* One to six semester hours. *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.



## HISTORY

#### HIST. 200. COLONIAL HISTORY OF THE AMERICAN PEOPLE

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. *Credit:* Three semester hours—three class hours.

#### HIST. 201. SOCIAL AND INTELLECTUAL DEVELOPMENT OF THE AMERICAN PEOPLE TO 1900

Colonial society and thought; American Revolution as a social movement; egalitarian 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:* Elementary Education sophomores must elect one course from Group A (Hist. 201, 202, or 203). Elementary Education sophomores extending certification to Junior High School Social Studies must elect either Hist. 201 or Hist. 202. Elective for sophomores, juniors, and seniors. *Credit:* Three semester hours—three class hours.

#### HIST. 202. POLITICAL AND ECONOMIC GROWTH OF THE UNITED STATES TO 1900

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:* Elementary Education sophomores must elect one course from Group A (Hist. 201, 202, or 203). Elementary Education sophomores

extending certification to Junior High School Social Studies must elect either Hist. 201 or Hist. 202. Elective for sophomores, juniors, and seniors. *Credit:* Three semester hours—three class hours.

#### HIST. 203. UNITED STATES IN THE TWENTIETH CENTURY

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:* Elementary Education sophomores must elect one course from Group A (Hist. 201, 202, or 203). Required of Elementary Education sophomores extending certification to Junior High School Social Studies. Elective for sophomores, juniors, and seniors in all divisions. *Credit:* Three semester hours—three class hours.

#### HIST. 205. TWENTIETH CENTURY EUROPE

Study of the political, social, cultural and intellectual history of Twentieth Century Europe; factors contributory to World War I; the Versailles settlement and reconstruction; 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 War; the road to World War II; the course of the War; restoration of the Atlantic Community, and the challenge of the Nuclear Age. *Classification:* Elementary Education sophomores must elect one course from Group B. (Hist. 205, 306, 307, 313, 314, S.S. 300). Elective for sophomores, juniors, and seniors. *Credit:* Three semester hours—three class hours.

#### HIST. 206. FOUNDATIONS OF WESTERN CIVILIZATION

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 sophomores, juniors and seniors. *Credit:* Three semester hours—three class hours.

#### HIST. 301. IDEAS AND SOCIAL CHANGE IN WESTERN CIVILIZATION

Growth of man's conception 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:* Required of all students. *Credit:* Three semester hours—three class hours.

#### HIST. 302. HISTORY AND GOVERNMENT OF NEW YORK STATE

Aboriginal background; development of the colony; establishment of the state; rise of political parties; past and present structure and problems of New York State government; economic and social growth to the present time. *Classification:* Hist. 302, or Geog. 206 required of Secondary Social Studies majors. *Prerequisite:* Limited to students in secondary Social Studies Program. *Credit:* Three semester hours—three class hours.

#### HIST. 304. EUROPE FROM NAPOLEON TO THE FIRST WORLD WAR

Major influences in nineteenth century Europe; nationalism, imperialism, Industrial Revolution, democracy and socialism; causes of World War I. *Classification:* Elective for juniors and seniors. *Credit:* Three semester hours—three class hours.

#### HIST. 305. HISTORY OF ENGLAND SINCE 1485

Rise and transition of representative, parliamentary government; commercial revolution; rise of industrial economy; 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:* Required of Secondary English majors. Elective for juniors and seniors. *Credit:* Three semester hours—three class hours.

#### HIST. 306. HISTORY OF THE FAR EAST

China, Japan and Southeast Asia in modern times; traditional cultures; impact of Western ideas; problems of modernization and industrialization; cultural changes; rise of nationalism and communism. *Classification:* Elementary Education sophomores must elect one course from Group B (Hist. 205, 306, 307, 313, 314, S.S. 300). Elective for juniors and seniors. *Credit:* Three semester hours—three class hours.

#### HIST. 307. HISTORY OF MODERN AFRICA

Historical approach to Africa and its relations with other areas; partition of Africa among colonial powers; types of colonial administration and influences on native peoples; cultural and social change; the march to independence. *Classification:* Elementary Education sophomores must elect one course from Group B (Hist. 205, 306, 307, 313, 314, S.S. 300). Elective for juniors and seniors. *Credit:* Three semester hours—three class hours.

#### HIST. 308. HISTORY OF CANADA

French and English colonization; confederation; national development; role in British Commonwealth; contemporary trends. *Classification:* Elective for juniors and seniors. *Credit:* Three semester hours—three class hours.

#### HIST. 309. AMERICAN LEADERS

Study of selected leaders in critical periods or areas of American Civilization, such as: Benjamin Franklin and Revolutionary America; John Marshall and Federal Power; Booker T. Washington and W. E. DuBois—Contrasting Negro Leaders; Lincoln Stef-

fens and the Muckrakers; Henry Ford and Mass Production. *Classification:* Elective for juniors and seniors. *Credit:* Three semester hours—three class hours.

#### HIST. 313. HISTORY OF LATIN AMERICA: THE COLONIAL ERA

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:* Elementary Education sophomores must elect one course from Group B (Hist. 205, 306, 307, 313, 314, S.S. 300). Required of Elementary Education and Liberal Arts students concentrating in Latin American Studies. Elective for sophomores, juniors, and seniors. *Credit:* Three semester hours—three class hours.

#### HIST. 314. HISTORY OF LATIN AMERICA: THE NATIONAL ERA

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:* Elementary Education sophomores must elect one course from Group B (Hist. 205, 304, 306, 307, 313, 314, S.S. 300). Required of Elementary Education and Liberal Arts students concentrating in Latin American Studies. Elective for sophomores, juniors, and seniors. *Credit:* Three semester hours—three class hours.

#### HIST. 401. AMERICAN EXPANSION SINCE 1783

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. *Credit:* Three semester hours—three class hours. *Special Note:* May be elected by graduate students.

#### HIST. 402. HISTORY OF THE SOVIET UNION

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. *Credit:* Three semester hours—three class hours. *Special Note:* May be elected by graduate students.

#### HIST. 403. HISTORY OF AMERICAN FOREIGN RELATIONS

Independence from Britain and alliance with France; the Constitution and the formation of foreign policies; commercial and territorial expansion; diplomacy of slavery and the Civil War; diplomacy of World Wars I and II; Inter-American relations; leadership in the United Nations and in the world. *Classification:* Elective for juniors and seniors. *Credit:* Three semester hours—three class hours. *Special Note:* May be elected by graduate students.

#### HIST. 404. THE SOUTH, SECTIONALISM, AND THE CIVIL WAR

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. *Credit:* Three semester hours—three class hours. *Special Note:* May be elected by graduate students.

#### HIST. 405. THE RENAISSANCE AND REFORMATION

Impact of the Renaissance and Reformation on intellectual, artistic, economic, political, religious and social development of Europe; humanism, secularism, classicism, individualism in Italy and Northern Europe; Protestant reform and reformers; Catholic Reformation. *Classification:* Elective for juniors and seniors. *Credit:* Three semester hours—three class hours. *Special Note:* May be elected by graduate students.



HIST. 406. THE FRENCH REVOLUTION AND NAPOLEON

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. *Credit:* Three semester hours—three class hours. *Special Note:* May be elected by graduate students.

HIST. 407. GERMANY SINCE 1871

History, government and political thought; anti-democratic forces; economic and cultural developments; rise and impact of Nazi totalitarianism. *Classification:* Elective for juniors and seniors. *Credit:* Three semester hours—three class hours. *Special Note:* May be elected by graduate students.

HIST. 408. HISTORY OF AMERICAN THOUGHT

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. *Credit:* Three semester hours—three class hours. *Special Note:* May be elected by graduate students.

HIST. 409. SEMINAR IN PROBLEMS OF AMERICAN HISTORY

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. *Prerequisite:* Senior status and official standing in Secondary Social Studies program. *Credit:* Three semester hours—three class hours.

HIST. 412. HISTORY OF EAST CENTRAL EUROPE

Social, political, and economic history of the Baltic states and western Slavdom; strug-

gle 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. *Credit:* Three semester hours—three class hours. *Special Note:* May be elected by graduate students.

HIST. 413. HISTORY OF RUSSIA TO 1917

Survey of the 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 juniors and seniors. *Credit:* Three semester hours—three class hours. *Special Note:* May be elected by graduate students.

HIST. 414. HISTORY OF THE BALKANS SINCE 1453

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. *Credit:* Three semester hours—three class hours. *Special Note:* May be elected by graduate students.

HIST. 470. SEMINAR IN EUROPEAN HISTORY

Readings, discussions, and research on selected problems in European History from the Classic to the Modern Period with emphasis on the gathering, interpretation, and use of historical sources. *Classification:* Elective for juniors and seniors. *Prerequisite:* Six hours of European History. *Credit:* Three semester hours—three class hours.

POLITICAL SCIENCE

P.S. 201. PRINCIPLES AND PROBLEMS OF INTERNATIONAL RELATIONS

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. *Credit:* Three semester hours—three class hours.

P.S. 207. AMERICAN POLITICAL INSTITUTIONS AND PROBLEMS

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:* P.S. 207 required of Secondary Social Studies majors. Elective for sophomores, juniors and seniors. *Credit:* Three semester hours—three class hours.

P.S. 301. COMPARATIVE GOVERNMENT

Twentieth-century setting of politics; structure and function of ideologies underlying government; political elites; policy-making, administrative and judicial processes; illustrations and comparisons among major nations. *Classification:* Elective for juniors and seniors. *Credit:* Three semester hours—three class hours.

P.S. 302. GOVERNMENTS OF SOUTH AND SOUTHEAST ASIA

Transition from colonial to native control; attendant political, social, and economic problems facing countries of the area; significance of the area in worldwide politics and military affairs; special attention to new countries' relationships to Communist China, Soviet Union, and the United States. *Classification:* Elective for juniors and sen-

iors. *Credit:* Three semester hours—three class hours.

P.S. 306. AMERICAN POLITICS AND POLITICAL PARTIES

Framework of American political system; major and minor parties; party organization; pressure politics, public opinion, propaganda, party finance. *Classification:* Elective for juniors and seniors. *Credit:* Three semester hours—three class hours.

P.S. 401. INTERNATIONAL LAW AND ORGANIZATIONS

Analysis of the basic principles of international law and its role in world order; background, nature, structure, and functions of international organization with emphasis upon the United Nations. *Classification:* Elective for juniors and seniors. *Prerequisite:* 3 hours Political Science, preferably in international relations. *Credit:* Three semester hours—three class hours. *Special Note:* May be elected by graduate students.

P.S. 403. HISTORY OF POLITICAL THEORY

Chief modern contributors to the political ideologies of democracy, liberalism, conservatism, nationalism, socialism, communism, Fascism, and Nazism. *Classification:* Elective for juniors and seniors. *Credit:* Three semester hours—three class hours. *Special Note:* May be elected by graduate students.





## PSYCHOLOGY DEPARTMENT

### PSYCH. 101. INTRODUCTORY PSYCHOLOGY

The major objectives of this course are to investigate at a beginning level, the chief facts, principles, and problems of human behavior. Topics would include: introduction to main fields of psychology, psychological methodology, learning, attention and perception, intelligence, problem solving, language development, emotions and normal adjustment, motivation, personality, social relations, and a brief overview of growth and development. *Classification:* Required of H.Ec. and I.A. students; elective. *Credit:* Three semester hours—four class hours.

### PSYCH. 205. ADVANCED GENERAL PSYCHOLOGY

The purpose of this course is to investigate intensively, the chief facts, principles and problems of human behavior, specifically to complement courses in growth and development. Topics studied will include: general introduction; learning, memory, forgetting; sensation, perception, attention; intelligence, thinking, problem solving; frustration, motivation; mental health and therapy; personality; group processes; and a short unit on statistics. *Classification:* Elective.

Courses in Applied Psychology are offered by the Elementary Education Division and the Exceptional Children Education Division.

*Prerequisite:* Three credit hours of psychology. *Credit:* Three semester hours — four class hours.

### PSYCH. 400. INTRODUCTORY STATISTICS

Terminology and notation of common statistical concepts; computation of elementary educational statistics; application of statistical methods to educational and psychological problems; interpretation of educational and psychological data. *Classification:* Elective for juniors and seniors. *Credit:* Three semester hours—three class hours. *Special Note:* May be elected by graduate students.

### PSYCH. 402. ADVANCED STATISTICS; INFERENCE & PREDICTION

Sampling techniques; probability; hypothesis testing with frequencies and proportions, with means and with variances; introduction to analysis of variance; partial and multiple correlation; regression. *Classification:* Elective for Juniors and Seniors. *Prerequisite:* Psych. 400 Introductory Statistics. *Credit:* Three semester hours — three class hours. *Special Note:* May be elected by graduate students.

## SOCIAL SCIENCES

### S.S. 101. MAN AND HIS INSTITUTIONS

Culture and human behavior; formation of personality; nature of social interaction; institutions and the satisfaction of human needs; nature of values. *Classification:* Required of all students. *Credit:* Three semester hours—three class hours.

### S.S. 102. MAN AND HIS INSTITUTIONS

Human institutions; their structure, function, and interrelationships; attention centered on family, religion, polity, and economy. *Classification:* Required of all students. *Credit:* Three semester hours—three class hours.

### S.S. 300. HISTORY AND CULTURE OF THE MIDDLE EAST

Definition of the Middle East; geographically, economically and politically; history of the peoples; nature of Moslem and other cultures; contemporary way of life. *Classification:* Elementary Education sophomores must elect one course from Group B (Hist. 205, 306, 307, 313, 314, S.S. 300). Elective for juniors and seniors. *Credit:* Three semester hours—three class hours.

## SOCIOLOGY

### SOC. 201. THE AMERICAN COMMUNITY

Social and economic structure and problems of contemporary American communities; rural-agriculture in an industrial economy, farm surpluses, taxation and education; urban-group behavior and social control, health and welfare, taxation and education, conflicting economic interests of business, labor and the consumer; inter-relationship of rural and urban communities—population trends, centralization and decentralization, mass communications. *Classification:* Elective for sophomores, juniors and seniors. *Credit:* Three semester hours—three class hours.

### S.S. 401. POLITICAL BEHAVIOR AND PUBLIC OPINION

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. *Credit:* Three semester hours—three class hours. *Special Note:* May be elected by graduate students.

### S.S. 495. INDEPENDENT PROJECT OR STUDY

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. *Credit:* One to six semester hours. *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.

*Credit:* Three semester hours—three class hours.

### SOC. 202. ANALYZING SOCIAL PROBLEMS

Problem areas of American society; sources of information; techniques for discovering and analyzing social problems; analysis of several major problems selected in accordance with student desires, needs and interests. *Classification:* Elective for sophomores, juniors and seniors. *Credit:* Three semester hours—three class hours.



SOC. 203. SOCIOLOGY OF THE FAMILY

Family as a social institution; its historical development, function, and structure; cross cultural comparisons; analysis of the contemporary American family system. *Classification:* Elective for sophomores, juniors, and seniors. *Prerequisite:* S.S. 101. *Credit:* Three semester hours—three class hours.

SOC. 301. NATIONALITY GROUPS IN AMERICAN CULTURE

Problems and cultural contributions of largest immigrant ethnic groups; patterns of immigration; immigrant institutions; community life; problems of assimilation and of the "second generation." *Classification:* Elective for juniors and seniors. *Credit:* Three semester hours—three class hours.

SOC. 303. SOCIAL PSYCHOLOGY

Determinants of human behavior; influence of the individual upon society; influence of society upon the individual; social change; psychology of social movements. *Classification:* Elective for juniors and seniors. *Credit:* Three semester hours—three class hours.

SOC. 304. SOCIAL STRATIFICATION

Analysis of social structure, particularly as it applies to stratification, as a determinant of human behavior; nature and function of social stratification; kinds of stratification systems; differences in class interests, values and behaviors; power relationships among classes; social mobility. *Classification:* Elective for juniors and seniors. *Credit:* three semester hours—three class hours.

SOC. 401. JUVENILE DELINQUENCY

Current trends in juvenile delinquency; causes, nature and extent of deviant behavior; resources of the clinician; children's court; methods of treatment. *Classification:* Elective for juniors and seniors. *Credit:* Three semester hours—three class hours. *Special Note:* May be elected by graduate students.

SOC. 403. CONTEMPORARY SOCIOLOGICAL THEORY

Significance of sociological theory; methods and assumptions of theory construction; conceptions of social action; social norms as the basis of social structure; structure of social systems; functions of social change. *Classification:* Elective for juniors and seniors. *Credit:* Three semester hours—three class hours. *Special Note:* May be elected by graduate students.

SOC. 404. SOCIOLOGY OF RELIGION

Religion as a social institution; organized religion as a segment of culture; effects of religion on individual behavior; structure of religion; its function in various cultures; relationships of religion to other social institutions; religion and social change. *Classification:* Elective for juniors and seniors. *Credit:* Three semester hours—three class hours. *Special Note:* May be elected by graduate students.

SOC. 409. SEMINAR IN SOCIOLOGY

Readings in methodology; discussions and research on selected areas of sociology such as: social mobility, voluntary associations, social control, social change, etc. *Classification:* Elective for juniors and seniors. *Prerequisite:* Six hours in sociology which may include S.S. 101 or by approval of instructor. *Credit:* Three semester hours—three class hours.

## PROFESSIONAL STUDIES

The Professional Studies include the Divisions of Elementary Education, Secondary Education and Exceptional Children Education and details concerning the programs and courses offered are provided under these Division headings in this catalog. Very careful attention is given to providing an appropriate balance between professional courses and the liberal arts areas of the natural sciences, and mathematics, the social sciences, and the humanities.

A Bachelor of Science in Education degree program is offered by each of the Divisions 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 Division 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 DIVISION

Graduates of the Elementary Education Division receive the degree of Bachelor of Science 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 School 52, 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.



The four-year provisional certificate requires an academic concentration of "twenty-four hours of study in a departmental or inter-departmental program of studies." The areas of concentration are: Art, English Foreign Language, Geography, Latin American Studies, Mathematics, Music, Science, Social Studies, Social Studies-Geography, and The Arts.

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

### *Junior Teaching Section\** FIRST YEAR

		<i>First Semester</i>	
<i>Course Titles</i>		<i>Class Hours</i>	<i>Credit Hours</i>
Ed. 101	Human Growth and Development .....	4	3
S.S. 102	Man and His Institutions: Social, Economic, and Political .....	3	3
Biol. 101	General Biology .....	4	3
Eng. 101	Effective Communication .....	3	3
Art 100	Essentials of Visual Art .....	3	3
P.Ed. 100	Physical Education Activities .....	2	1
Or. 100	Orientation .....	1	0
		<hr/> 20	<hr/> 16

		<i>Second Semester</i>	
<i>Course Titles</i>		<i>Class Hours</i>	<i>Credit Hours</i>
Ed. 102	Human Growth and Development .....	4	3
S.S. 101	Man and His Institutions: Social, Economic, and Political .....	3	3
Biol. 102	General Biology .....	4	3
Eng. 102	Effective Communication .....	3	3
Mus. 100	The Listener's Orientation to Music .....	3	3
P.Ed. 100	Physical Education Activities .....	2	1
		<hr/> 19	<hr/> 16

### SECOND YEAR

		<i>First Semester</i>	
<i>Course Titles</i>		<i>Class Hours</i>	<i>Credit Hours</i>
Ed. 201	School and Society .....	3	3
Eng. 210	Children's Literature .....	3	3
Math. 203	Fundamental Principles of Mathematics .....	3	3
Elective	.....	3	3
Phil. 104	Ways of Knowing .....	3	3

\* Students whose last names begin with A-L.



S.S. Group B:—Select one .....	3	3
Hist. 205 Twentieth Century Europe .....		
Hist. 313 History of Latin America—The Colonial Era .....		
Hist. 314 History of Latin America—The National Era .....		
Hist. 306 History of the Far East .....		
Hist. 307 History of Modern Africa .....		
S.S. 300 History of Culture of the Middle East .....		
	18	18

Course Titles	Second Semester	
	Class Hours	Credit Hours
Ed. 202 Teaching the Language Arts .....	4	3
Sci. 203 Man and His Natural Environment .....	4	3
Elective .....	3	3
Math. 204 Fundamental Principles of Mathematics .....	3	3
Eng. 301 Ideas of Man and His World in Literature .....	3	3
S.S. Group A:—Select one .....	3	3
Hist. 201 Social and Intellectual Development of the American People to 1900 .....		
Hist. 202 Political and Economic Growth of the U.S. to 1900 .....		
Hist. 203 United States in the Twentieth Century .....		
	20	18

### THIRD YEAR

Course Titles	First Semester	
	Class Hours	Credit Hours
Ed. 301 The Teaching of Social Studies, Science and Mathematics .....	9	6
Elective .....	3	3
Geog. 201 General Geography .....	3	3
Sci. 204 Man and His Natural Environment .....	4	3
	19	15

Course Titles	Second Semester	
	Class Hours	Credit Hours
Ed. 401 Practicum in Elementary School Teaching .....	30	15

### FOURTH YEAR

Course Titles	First Semester	
	Class Hours	Credit Hours
Ed. 402 Seminar in Education .....	3	3
Hist. 301 Ideas and Social Change in Western Civilization .....	3	3
Electives .....	6	6
Math. 310 Fundamental Principles of Mathematics .....	3	3
H.Ed. 204 Personal and Community Health .....	2	2
	17	17

Course Titles	Second Semester	
	Class Hours	Credit Hours
Electives .....	9	9
Geog. 301 General Geography .....	3	3
Eng. 302 Ideas of Man and His World in Literature .....	3	3
	15	15
Total Semester Credit Hours		130

### Senior Teaching Section\* FIRST YEAR

Course Titles	First Semester	
	Class Hours	Credit Hours
Ed. 101 Human Growth and Development .....	4	3
S.S. 102 Man and His Institutions: Social, Economic and Political .....	3	3
Biol. 101 General Biology .....	4	3
Eng. 101 Effective Communication .....	3	3
Mus. 100 The Listener's Orientation to Music .....	3	3
P.Ed. 100 Physical Education Activities .....	2	1
Or. 100 Orientation .....	1	0
	20	16

Course Titles	Second Semester	
	Class Hours	Credit Hours
Ed. 102 Human Growth and Development .....	4	3

\* Students whose last names begin with M to Z.



S.S. 101	Man and His Institutions: Social, Economic and Political .....	3	3
Biol. 102	General Biology .....	4	3
Eng. 102	Effective Communication .....	3	3
Art 100	Essentials of Visual Art .....	3	3
P.Ed. 100	Physical Education Activities .....	2	1
		19	16

## SECOND YEAR

<i>Course Titles</i>		<i>First Semester Class Hours</i>	<i>Credit Hours</i>
Sci. 203	Man and His Natural Environment .....	4	3
Math. 203	Fundamental Principles of Mathematics .....	3	3
Elective	.....	3	3
Eng. 301	Ideas of Man and His World in Literature .....	3	3
S.S. Group A:—Select one	.....	3	3
Hist. 201	Social and Intellectual Development of the American People to 1900		
Hist. 202	Political Economic Growth of the U.S. to 1900		
Hist. 203	United States in the Twentieth Century		
Geog. 201	General Geography .....	3	3
		19	18

<i>Course Titles</i>		<i>Second Semester Class Hours</i>	<i>Credit Hours</i>
Ed. 201	School and Society .....	3	3
Eng. 210	Children's Literature .....	3	3
Sci. 204	Man and His Natural Environment .....	4	3
Math. 204	Fundamental Principles of Mathematics .....	3	3
Elective	.....	3	3
S.S. Group B:—Select One	.....	3	3
Hist. 205	Twentieth Century Europe		
Hist. 313	History of Latin America—The Colonial Era		
Hist. 314	History of Latin America—The National Era		
Hist. 306	History of the Far East		
Hist. 307	History of Modern Africa		
S.S. 300	History and Culture of the Middle East		
		19	18

## THIRD YEAR

<i>Course Titles</i>		<i>First Semester Class Hours</i>	<i>Credit Hours</i>
Ed. 202	Teaching the Language Arts .....	4	3
Electives	.....	6	6
Math. 310	Fundamental Principles of Mathematics .....	3	3
Eng. 302	Ideas of Man and His World in Literature .....	3	3
		16	15

<i>Course Titles</i>		<i>Second Semester Class Hours</i>	<i>Credit Hours</i>
Ed. 301	The Teaching of Social Studies, Science and Mathematics .....	9	6
Phil. 104	Ways of Knowing .....	3	3
Electives	.....	6	6
		18	15

## FOURTH YEAR

<i>Course Titles</i>		<i>First Semester Class Hours</i>	<i>Credit Hours</i>
Ed. 401	Practicum in Elementary School Teaching .....	30	15

<i>Course Titles</i>		<i>Second Semester Class Hours</i>	<i>Credit Hours</i>
Ed. 402	Seminar in Education .....	3	3
Geog. 301	General Geography .....	3	3
Electives	.....	6	6
H.Ed. 204	Personal and Community Health .....	2	2
Hist. 301	Ideas and Social Change in Western Civilization .....	3	3
		17	17
<i>Total Semester Credit Hours</i>			130

## EDUCATION DEPARTMENT

The Education Department is a unit of Professional Studies and serves all curricula of the College in their professional course sequence requirements.



## EDUCATION

### ED. 101. HUMAN GROWTH AND DEVELOPMENT

Processes of development and learning in childhood; hereditary and environmental factors influencing physical, motor, mental, social, emotional and personality development; effect of home, school, and community; evaluation of development and learning; directed observations. *Classification:* Required of Art sophomores, E.E. and Ex.Ed. freshmen majoring in Mentally Retarded and Physically Handicapped, Emotionally Disturbed fields. *Credit:* Three semester hours—four class hours.

### ED. 102. HUMAN GROWTH AND DEVELOPMENT

Processes of development and learning in preadolescence and adolescence; hereditary and environment factors influencing physical, motor, mental, social, emotional and personality development; effect of home, school, and community; evaluation of development and learning; directed observations. *Classification:* Required of Art sophomores, E.E. and Ex.Ed. freshmen majoring in Mentally Retarded and Physically Handicapped, Emotionally Disturbed fields. *Prerequisite:* Ed. 101. *Credit:* Three semester hours—four class hours.

### ED. 103. HUMAN GROWTH AND DEVELOPMENT

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. *Credit:* Three semester hours—four class hours.

### ED. 104 HUMAN GROWTH AND DEVELOPMENT

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 Second-

ary Eng., Math., S.S., Sci., and F.L. sophomores. *Prerequisite:* Ed. 103. *Credit:* Three semester hours—four class hours.

### ED. 201. SCHOOL AND SOCIETY

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 Mentally Retarded and Physically Handicapped, Emotionally Disturbed fields. *Prerequisite:* Ed. 101, 102. *Credit:* Three semester hours—three class hours.

### ED. 202. TEACHING THE LANGUAGE ARTS

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 Mentally Retarded and Physically Handicapped, Emotionally Disturbed fields. *Prerequisite:* Ed. 101, 102, 201. *Credit:* Three semester hours—four class hours.

### ED. 203. EDUCATIONAL PSYCHOLOGY

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.

*Credit:* Three semester hours—four class hours.

### ED. 205. OUTDOOR EDUCATION IN THE PUBLIC SCHOOL

Principles, procedure, and purposes of outdoor education programs in public schools; short field trips; camping experiences; observations and participation in outdoor teaching methods and techniques. *Classification:* Elective for sophomores, juniors and seniors. *Credit:* Three semester hours—three class hours.

### ED. 301. THE TEACHING OF SOCIAL STUDIES, SCIENCE AND MATHEMATICS

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. *Credit:* Six semester hours—nine class hours.

### ED. 305. THE CHILD AND THE CURRICULUM

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 Mentally Retarded and Physically Handicapped, Emotionally Disturbed fields. *Prerequisite:* Ed. 101, 102, 201, 202; cumulative average of 2.00 or higher. *Credit:* Three semester hours—nine class hours. *Special Note:* One-half semester.

### ED. 306. METHODS AND MATERIALS IN TEACHING SECONDARY SCHOOL ENGLISH

Selecting, organizing, and presenting curriculum materials; teacher-pupil relationships; evaluating pupil progress; introduc-

tion 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. *Credit:* Three semester hours—four class hours.

### ED. 307. METHODS AND MATERIALS IN TEACHING SECONDARY SCHOOL MATHEMATICS

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 2.00 or higher; approval by Mathematics Department chairman. *Credit:* Three semester hours—three class hours.

### ED. 308. METHODS AND MATERIALS IN TEACHING SECONDARY SCHOOL SCIENCE

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 Science Department chairman. *Credit:* Three semester hours—four class hours.



ED. 309. METHODS AND MATERIALS IN TEACHING SECONDARY SCHOOL SOCIAL STUDIES

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 Social Studies Department chairman. *Credit:* Three semester hours—four class hours.

ED. 310. METHODS AND MATERIALS IN TEACHING FOREIGN LANGUAGES IN THE SECONDARY SCHOOL

Selecting, organizing and presenting curriculum materials; interrelationships of elementary and secondary school programs; teacher-pupil relationships; evaluating pupil progress; introduction to classroom teaching; observation and participation in the secondary school; conferences with instructors and classroom teachers. *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. *Credit:* Three semester hours—four class hours.

ED. 401. PRACTICUM IN TEACHING

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 pre-

requisite 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). *Credit:* Fifteen semester hours — thirty (30) hours of teaching and conferences per week.

ED. 402. SEMINAR IN EDUCATION

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. *Credit:* Three semester hours—three class hours.

ED. 403. HISTORICAL AND PHILOSOPHICAL FORCES INFLUENCING SECONDARY EDUCATION

European influences in American education; religious influences in American education; religious influences on 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. *Prerequisite:* Ed. 306, or 307, or 308, or 309, or 310. *Credit:* Three semester hours—three class hours. *Special Note:* Taken concurrently with student teaching. May be elected by graduate students.

ED. 404. PRACTICUM IN ELEMENTARY SCHOOL TEACHING

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. *Classifi-*

*cation:* Required of Ex.Ed. seniors majoring in Mentally Retarded and Physically Handicapped Emotionally Disturbed fields. *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). *Credit:* Six semester hours—thirty (30) hours of teaching conferences per week. *Special Note:* one-half semester.

ED. 406. PRACTICUM IN TEACHING ENGLISH IN THE SECONDARY SCHOOL

Full-time teaching under supervision at least four 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. *Credit:* Twelve semester hours—twenty-four (24) hours of teaching and conferences per week. *Special Note:* Taken concurrently with Ed. 403.

ED. 407. PRACTICUM IN TEACHING MATHEMATICS IN THE SECONDARY SCHOOL

Teaching under supervision at least four days per week for two eight-week assign-

ments; 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); approval by Mathematics Department chairman. *Credit:* Twelve semester hours—twenty-four (24) hours of teaching and conferences per week. *Special Note:* Taken concurrently with Ed. 403.

ED. 408. PRACTICUM IN TEACHING SCIENCE IN THE SECONDARY SCHOOL

Teaching under supervision at least four 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 Science Department chairman. *Credit:* Twelve semester hours—twenty-four (24) hours of teaching and conference per week. *Special Note:* Taken concurrently with Ed. 403.



ED. 409. PRACTICUM IN THE  
TEACHING OF SOCIAL  
STUDIES IN THE  
SECONDARY SCHOOL

Teaching under supervision at least four 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, 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 Social Studies Department chairman. *Credit*: Twelve semester hours—twenty-four (24) hours of teaching and conferences per week. *Special Note*: Taken concurrently with Ed. 403.

ED. 410. PHILOSOPHY OF  
EDUCATION

Examination and evaluation of the more influential theories of education and their effect upon education, past and present; effect of democratic, as opposed to authoritarian, concepts of the good life upon school policy and practice; nature and function of academic freedom; the public school and the religious dimension of life; importance of continuity between avowed values and actual school practices. *Classification*: Elective for juniors and seniors. *Credit*: Three semester hours—three class hours. *Special Note*: May be elected by graduate students.

ED. 411. EVALUATION IN THE  
ELEMENTARY SCHOOL

Principles and procedures of evaluation in the elementary school; selection, administration, scoring and interpretation of standardized tests; the use and construction of

teacher-made measurement instruments; the effective use of observation in appraising pupil growth; cumulative records and their uses; effective methods of reporting pupil progress; basic statistical concepts. *Classification*: Elective for juniors and seniors. *Credit*: Three semester hours—three class hours. *Special Note*: May be elected by graduate students.

ED. 412. COMPARATIVE  
EDUCATION

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. *Credit*: Three semester hours—three class hours. *Special Note*: May be elected by graduate students.

ED. 413. PRACTICUM IN THE  
TEACHING OF FOREIGN  
LANGUAGES IN THE  
SECONDARY SCHOOLS

Teaching under supervision at least four 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, 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 by Foreign Language Department chairman. *Credit*: Twelve semester hours—twenty-four (24) hours of teaching and conferences per week. *Special Note*: Taken concurrently with Ed. 403.

ED. 414. THE TEACHING OF  
READING

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. *Credit*: Three semester hours—three class hours. *Special Note*: May be elected by graduate students.

ED. 415. SEMINAR IN EARLY  
CHILDHOOD EDUCATION

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. *Credit*: Three semester hours—three class hours. *Special Note*: May be elected by graduate students in the teaching of young children.

ED. 418. AUDIO-VISUAL  
EDUCATION

Audio-visual materials in teaching; audio-visual equipment; selecting, securing, and using films and other materials; audio-visual programs in the school; teacher and pupil-produced materials; photography. *Classification*: Elective for sophomores, juniors and seniors. *Credit*: Three semester hours—four class hours. *Special Note*: May be elected by graduate students.

ED. 419. METHODS AND  
MATERIALS IN THE  
ELEMENTARY SCHOOL

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. *Credit*: Three semester hours—three class hours. *Special Note*: May be elected by graduate students.

ED. 420. TEACHING THE  
LANGUAGE ARTS IN THE  
ELEMENTARY SCHOOL

Objectives in an effective language arts program; 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; evaluation in a total language arts program. *Classification*: Elective for juniors and seniors. *Prerequisite*: Ed. 202 or equivalent. *Credit*: Three semester hours—three class hours. *Special Note*: May be elected by graduate students.

ED. 421. WORKSHOPS IN THE  
TEACHING OF READING  
IN THE ELEMENTARY  
SCHOOL

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. *Credit*: Two semester hours — two class hours. *Special Note*: Not to be taken for credit after completion of Ed. 414.

ED. 423. COMPARATIVE EDUCA-  
TIONAL SYSTEMS OF  
WESTERN EUROPE

International living tour; approximately eight weeks spent in Western Europe; homestay with family in one country for three



weeks; study and comparison of selected educational systems; visits to university, library, cultural, and historical centers. *Classification*: Elective for seniors and graduate students. *Prerequisite*: Participants must meet entrance requirements of State University College at Buffalo, and must meet the standards applied by the State University of New York and the Experiment in International Living. *Credit*: Eight semester hours. By special arrangement, up to four hours of credit may be applied as Social Studies credit. *Special Note*: Permission of instructor to be obtained before enrollment in course.

#### ED. 424. PEOPLE AND INSTITUTIONS IN ASIA

International living tour; approximately eight weeks spent in India; three-week homestay with an Indian family; study of family patterns, educational programs, and culture of India; visits to university, cultural, and historical centers. *Classification*: Elective for seniors and graduate students. *Prerequisite*: Participants must meet entrance requirements of State University College, and must meet the standards applied by the State University of New York and the Experiment in International Living. *Credit*: Eight semester hours. By arrangement, up to four hours of credit may be applied as social studies credit. *Special Note*: Permission of instructor to be obtained before enrollment in course.

#### ED. 425. THE FAMILY AND THE ELEMENTARY SCHOOL

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*: Elective for juniors and seniors. *Prerequisite*: Ed. 101, 102, 201 and 202. *Credit*: Three semester hours—three class hours. *Special Note*: May be elected by graduate students.

#### ED. 427. COMMUNITY SERVICES FOR YOUNG CHILDREN

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. *Credit*: Three semester hours—four class hours. *Special Note*: May be elected by graduate students.

#### ED. 430. LEADERSHIP EXPERIENCE—OUTDOOR EDUCATION FIELD STUDY

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 students. *Prerequisite*: Previous camping and/or outdoor education experience. *Credit*: Six semester hours. *Special Note*: Permission of instructor to be obtained before enrolling in course.

#### ED. 495. INDEPENDENT PROJECT OR STUDY

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. *Credit*: One to six semester hours. *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.



### EXCEPTIONAL CHILDREN EDUCATION DIVISION

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

1. Education of the Deaf
2. Emotional Disturbance
3. Mental Retardation
4. Physical Handicap
5. Speech Pathology and Audiology

Graduates of this division complete requirements for the Bachelor of Science degree. In addition to this degree, students electing to specialize in the fields of mental retardation, education of the deaf, 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 speech pathology and audiology 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.



# CURRICULUM FOR MAJORS IN EDUCATION OF THE DEAF

## FIRST YEAR

<i>Course Titles</i>		<i>First Semester</i>		<i>Second Semester</i>	
		<i>Class</i>	<i>Credit</i>	<i>Class</i>	<i>Credit</i>
		<i>Hours</i>	<i>Hours</i>	<i>Hours</i>	<i>Hours</i>
Ed. 101-102	Human Growth and Development .....	4	3	4	3
Ex. Ed. 101	Nature and Needs of Children Who Present Exceptional Problems of Learning .....	4	3	—	—
Ex. Ed. 202	History, Education and Guidance of the Deaf .....	—	—	3	2
S.S. 101-102	Man and His Institutions .....	3	3	3	3
Math. 203	Fundamental Principles of Mathematics .....	—	—	3	3
Music 100	Listener's Orientation to Music .....	—	—	3	3
Or. 100	Orientation .....	1	0	—	—
P. Ed. 100	Physical Education Activities .....	2	1	2	1
Art 100	Essentials of Visual Art .....	3	3	—	—
Eng. 101-102	Effective Communication .....	3	3	3	3
<i>Total Hours</i> .....		20	16	21	18

## SECOND YEAR

<i>Course Titles</i>		<i>First Semester</i>		<i>Second Semester</i>	
		<i>Class</i>	<i>Credit</i>	<i>Class</i>	<i>Credit</i>
		<i>Hours</i>	<i>Hours</i>	<i>Hours</i>	<i>Hours</i>
Ed. 201	School and Society .....	3	3	—	—
Ed. 202	Teaching the Language Arts .....	—	—	4	3
Ex. Ed. 211	Anatomical, Physiological and Acous- tical Aspects of Communication .....	5	4	—	—
Ex. Ed. 315	Teaching of Language to the Deaf ....	—	—	4	3
Eng.	Literature Elective .....	3	3	3	3
Math.	Elective .....	—	—	3	3
Phil.	Elective .....	—	—	3	3
Sci.	Elective .....	3	3	3	3
	Conc./Elective .....	4	4	—	—
<i>Total Hours</i> .....		18	17	20	18

## THIRD YEAR

<i>Course Titles</i>		<i>First Semester</i>		<i>Second Semester</i>	
		<i>Class</i>	<i>Credit</i>	<i>Class</i>	<i>Credit</i>
		<i>Hours</i>	<i>Hours</i>	<i>Hours</i>	<i>Hours</i>
Ed. 414	Teaching Reading .....	3	3	—	—
Ed. 418	Audio-Visual Aids OR Methods and Materials in the Elementary School .....	—	—	3	3
Ex. Ed. 314	Teaching of Speech to the Deaf .....	5	4	—	—
Ex. Ed. 415	Speechreading and Auditory Training .....	—	—	5	3
Hist. 301	Ideas and Social Change .....	—	—	3	3
Geog.	Elective .....	3	3	—	—
	Conc./Elective .....	6	6	9	9
<i>Total Hours</i> .....		17	16	20	18

## FOURTH YEAR

<i>Course Titles</i>		<i>First Semester</i>		<i>Second Semester</i>	
		<i>Class</i>	<i>Credit</i>	<i>Class</i>	<i>Credit</i>
		<i>Hours</i>	<i>Hours</i>	<i>Hours</i>	<i>Hours</i>
Ed. 305	The Child and the Curriculum (Typical) .....	9	3	—	—
Ed. 404	Practicum in Elementary School Teaching .....	—	—	30	6
Ex. Ed. 305	The Child and the Curriculum (Deaf) .....	9	3	—	—
Ex. Ed. 423	Practicum in Teaching Deaf Children .....	—	—	30	6
	Conc./Elective .....	9	9	—	—
<i>Total Hours</i> .....		27	15	60	12
<i>Total Semester Credit Hours</i> .....				130	

# CURRRICULUM FOR MAJORS IN EMOTIONAL DISTURBANCES

## FIRST YEAR

<i>Course Titles</i>		<i>First Semester</i>		<i>Second Semester</i>	
		<i>Class</i>	<i>Credit</i>	<i>Class</i>	<i>Credit</i>
		<i>Hours</i>	<i>Hours</i>	<i>Hours</i>	<i>Hours</i>
Ed. 101-102	Human Growth and Development .....	4	3	4	3
Eng. 101-102	Effective Communication .....	3	3	3	3



Ex.Ed. 101	Nature and Needs of Exceptional Children .....	4	3	—	—
Math. 203	Fundamental Principles of Mathematics .....	3	3	—	—
Math. Elective	.....	—	—	3	3
Or. 100	Orientation .....	1	0	—	—
Phil. Elective	.....	—	—	3	3
P.E. 100	Physical Education Activities .....	2	1	2	1
S.S. 101-102	Man and His Institutions .....	3	3	3	3
	<i>Total Hours</i> .....	20	16	18	16

## SECOND YEAR

### Course Titles

Art 217	Workshop in Crafts .....	—	—	4	3
Conc./Elective	.....	3	3	3	3
Ed. 201-202	School and Society/Tchg. Lang. Arts .....	3	3	4	3
*Ex. Ed. 210	Behavior Disorders of the Emotionally Handicapped Child .....	4	3	—	—
Geog. Elective	.....	—	—	3	3
Music 100	Listener's Orientation to Music .....	3	3	—	—
Science Elective	.....	4	3	4	3
	<i>Total Hours</i> .....	17	15	18	15

## THIRD YEAR

### Course Titles

		First Semester		Second Semester	
		Class	Credit	Class	Credit
		Hours	Hours	Hours	Hours
Anthro. 201	General Anthropology .....	3	3	—	—
Conc./Elective	.....	6	6	—	—
Ed. 305	Observation-Participation with Typical Children .....	—	—	9	3
Ed. 414	Teaching Reading .....	3	3	—	—
Eng. 301-302	Ideas of Man and His World in Literature .....	3	3	3	3

\*Ex.Ed. 210—An additional 5 hours of supervised internship in community agencies for emotionally disturbed is required, e.g., State Hospital, Children's Residential Centers, etc. Students registered for this course are not permitted to carry more than 15 credits for the first or second semester.

Ex. Ed. 309	Curriculum Practices for the Emotionally Handicapped Child .....	4	3	—	—
Ex. Ed. 313	Observation-Participation with Emotionally Handicapped Children .....	—	—	9	3
Ex. Ed. 403	Mental Measurement .....	—	—	4	3
Soc. 304	Social Stratification .....	—	—	3	3
	<i>Total Hours</i> .....	19	18	28	15

## FOURTH YEAR

### Course Titles

Conc./Elective	.....	—	—	12	12
Ed. 404	Practicum in El.Ed. ....	30	6	—	—
Ex.Ed. 430	Practicum in Emotional Handicapped .....	30	6	—	—
Elective	.....	—	—	3	3
Soc. 401	Juvenile Delinquency .....	—	—	3	3
	<i>Total Hours</i> .....	60	12	18	18
	<i>Total Semester Credit Hours</i> .....				125

## CURRICULUM FOR MAJORS IN MENTAL RETARDATION AND PHYSICAL HANDICAP

### FIRST YEAR

		First Semester		Second Semester	
		Class	Credit	Class	Credit
		Hours	Hours	Hours	Hours
Course Titles					
Ed. 101-102	Human Growth and Development .....	4	3	4	3
Ex.Ed. 101	Nature and Needs of Exceptional Children .....	—	—	4	3
S.S. 101-102	Man and His Institutions .....	3	3	3	3
Math. 203	Fundamental Principles of Mathematics .....	—	—	3	3
Phil. 104	Ways of Knowing .....	3	3	—	—
Eng. 101-102	Effective Communication .....	3	3	3	3
Or. 100	Orientation .....	1	0	—	—
P.Ed. 100	Physical Education Activities .....	2	1	2	1
Biol. 101-102	General Biology .....	4	3	4	3
	<i>Total Hours</i> .....	20	16	23	19



SECOND YEAR

Course Titles		First Semester		Second Semester	
		Class Hours	Credit Hours	Class Hours	Credit Hours
Art 100	Essentials of Visual Art .....	3	3	—	—
Ed. 201-202	School and Society .....	3	3	4	3
Ex. Ed. 209	Psychology of Exceptional Children....	4	3	—	—
*Concentration	.....	3	3	6	6
Sci. 203-204	Man and His Natural Environment ....	4	3	4	3
Math. 204	Fundamental Principles of Mathematics .....	3	3	—	—
Mus. 100	Listener's Orientation to Music .....	—	—	3	3
{ I.A. 305 or					
{ Art 217	.....	—	—	4	3
Total Hours .....		20	18	21	18

CURRICULUM FOR MAJORS IN MENTAL RETARDATION  
THIRD YEAR

Course Titles		First Semester		Second Semester	
		Class Hours	Credit Hours	Class Hours	Credit Hours
Ex. Ed. 301	Observation—Participation in Mental Retardation .....	—	—	9	3
{ Ed. 414	Teaching Reading .....				
{ Ed. 418	Audio-Visual Aids .....	3	3	—	—
{ Ed. 419	Elementary Methods .....				
{ Ed. 420	Teaching Language Arts .....				
Ed. 305	Observation—Participation with Typical Children .....	—	—	9	3
Ex. Ed. 403	Mental Measurement .....	4	3	—	—
Ex. Ed. 404	Curriculum Practices for the Mentally Retarded .....	4	3	—	—
Concentration	.....	3	3	6	6
Elective	.....	3	3	—	—
Eng. 301-302	Ideas of Man and His World in Literature .....	3	3	3	3
Total Hours .....		20	18	27	15

\*\*"CONCENTRATION" is the major the student selects from any one of the following liberal arts fields: Art, English, Foreign Language, Geography, Latin American Studies, Mathematics, Music, Science, Social Studies—Geography, and the Arts.

FOURTH YEAR

Course Titles		First Semester		Second Semester	
		Class Hours	Credit Hours	Class Hours	Credit Hours
Ed. 404	Practicum in El.Ed. ....	30	6	—	—
Ex. Ed. 418	Practicum in M.R. ....	30	6	—	—
Hist. 301	Ideas and Social Change .....	—	—	3	3
H.Ed. 204	Personal and Community Health .....	—	—	2	2
Geog. 305	General Geography .....	—	—	3	3
Concentration	.....	—	—	6	6
Total Hours .....		60	12	14	14
Total Semester Credit Hours .....					130

CURRICULUM FOR MAJORS IN PHYSICAL HANDICAP

THIRD YEAR

Course Titles		First Semester		Second Semester	
		Class Hours	Credit Hours	Class Hours	Credit Hours
Ex.Ed. 417	Curriculum Practices for the Physically Handicapped .....	4	3	—	—
{ Ed. 414	Teaching Reading .....				
{ Ed. 418	Audio-Visual Aids .....	3	3	—	—
{ Ed. 419	Elementary Methods .....				
{ Ed. 420	Teaching Language Arts .....				
Ed. 305	Observation—Participation with Typical Children .....	—	—	9	3
Ex. Ed. 403	Mental Measurement .....	4	3	—	—
Ex. Ed. 404	Curriculum Practices for the Mentally Retarded .....	4	3	—	—
Ex. Ed. 311	Observation—Participation with the Physically Handicapped .....	—	—	9	3
Concentration	.....	3	3	6	6
Eng. 301-302	Ideas of Man and His World in Literature .....	3	3	3	3
Total Hours .....		21	18	27	15



# FOURTH YEAR

Course Titles	First Semester		Second Semester	
	Class	Credit	Class	Credit
	Hours	Hours	Hours	Hours
Ed. 404	Practicum in El.Ed.	30 6	—	—
Ex. Ed. 421	Practicum in Physically Handicapped	30 6	—	—
Hist. 301	Ideas and Social Change	— —	3 3	
H.Ed. 204	Personal and Community Health	— —	2 2	
Geog. 305	General Geography	— —	3 3	
Concentration		— —	6 6	
	Total Hours	60 12	14 14	
	Total Semester Credit Hours		130	

## CURRICULUM FOR MAJORS IN SPEECH PATHOLOGY AND AUDIOLOGY

### FIRST YEAR

Course Titles	First Semester		Second Semester	
	Class	Credit	Class	Credit
	Hours	Hours	Hours	Hours
Ed. 101-102	Human Growth and Development	4 3	4 3	
Eng. 101-102	Effective Communication	3 3	3 3	
S.S. 101-102	Man and His Institutions	3 3	3 3	
Phil. 104	Ways of Knowing	3 3	— —	
Art 100	Essentials of Visual Art	3 3	— —	
P.Ed. 100	Physical Education Activities	2 1	2 1	
Or. 100	Orientation	1 0	— —	
Ex.Ed. 101	Nature and Needs of Exceptional Children	— —	4 3	
Music 100	Listener's Orientation to Music	— —	3 3	
	Total Hours	19 16	19 16	

### SECOND YEAR

Course Titles	First Semester		Second Semester	
	Class	Credit	Class	Credit
	Hours	Hours	Hours	Hours
Ex.Ed. 204	Science of Speech and Hearing	— —	4 3	
Ex. Ed. 205	Phonetics	4 3	— —	
Ex. Ed. 206	Bases of Speech	3 3	— —	
Ex. Ed. 414	Audiology I	— —	5 3	

Eng. 103	English Literature	3 3	— —	
Eng. 104	American Literature	— —	3 3	
Science Elective		4 3	4 3	
Eng. 202	Public Speaking	3 3	— —	
Conc./Elective		3 3	3 3	
	Total Hours	20 18	19 15	

### THIRD YEAR

Course Titles	First Semester		Second Semester	
	Class	Credit	Class	Credit
	Hours	Hours	Hours	Hours
Ex. Ed. 306	Speech Pathology I	5 3	— —	
Ex. Ed. 307	Speech Pathology II	— —	4 3	
Ex. Ed. 416	Stuttering	4 3	— —	
Ex. Ed. 415	Speech Reading and Auditory Training	— —	5 3	
Hist. 301	Ideas and Social Change in Western Civilization	3 3	— —	
Conc./Elective		9 9	9 9	
	Total Hours	21 18	18 15	

### FOURTH YEAR

Course Titles	First Semester		Second Semester	
	Class	Credit	Class	Credit
	Hours	Hours	Hours	Hours
Ex. Ed. 411	Seminar in Speech and Hearing	3 3	— —	
Ex. Ed. 402	Clinical Procedures and Organization of Schools and Clinics	— —	18/2 4	
Ex. Ed. 405	Practicum in Speech and Hearing	— —	30/2 6	
Ex. Ed. 424	Organization and Administration of School Programs	— —	4/2 2	
Eng. 218	Creative Dramatics			
	or			
Eng. 219	Speech Activities in Elementary Schools	3 3	— —	
	or			
Eng. 306	Secondary Schools Speech Activities			
Math. 203	Fundamental Principles of Mathematics	3 3	— —	
Conc./Elective		6 6	— —	
	Total Hours	15 15	26 12	
	Total Semester Credit Hours		130	



## EXCEPTIONAL CHILDREN EDUCATION

### EX.ED. 100. STUDENT SPEECH CLINIC

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. *Credit:* None. *Special Note:* Hours by arrangement.

### EX.ED. 101. NATURE AND NEEDS OF CHILDREN WHO PRESENT EXCEPTIONAL PROBLEMS OF LEARNING

Examination of the causes, characteristics and implications—educational, social and vocational—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. *Credit:* Three semester hours—four class hours.

### EX.ED. 202. HISTORY, EDUCATION AND GUIDANCE OF THE DEAF

(1) Historical backgrounds and developments leading to present day programs in deaf education. (2) Events, personalities, philosophies, methodologies and attitudes affecting deaf education since ancient times. (3) Classification, etiology and incidence of hearing losses. (4) General introduction to the basic conditions operating in the hearing and speech mechanisms as they affect the education of the deaf. (5) Problems affecting the habilitation and rehabilitation of the deaf. (6) General problems confronting teachers of the deaf. *Classification:* Required of freshmen in the education of the deaf. *Prerequisite:* Ex.Ed. 101. *Credit:* Two semester hours—three class hours.

### EX.ED. 204. SCIENCE OF SPEECH AND HEARING

Anatomy and physiology of the ear and the organs of speech beginning with embryological development; production and reception of spoken language. Observation in Speech and Hearing Clinic. *Classification:* Required of sophomores in speech pathology and audiology. *Credit:* Three semester hours—four class hours.

### EX.ED. 205. INTRODUCTION TO PHONETICS

Production and representation of English (American) speech sounds; application of phonetics to the correction of deviations in children's speech. Observation in Speech and Hearing Clinic. *Classification:* Required of sophomores in speech pathology and audiology. *Credit:* Three semester hours—four class hours.

### EX.ED. 206. BASES OF SPEECH

Study 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. *Classification:* Required of sophomores in speech pathology and audiology. *Credit:* Three semester hours—four class hours.

### EX.ED. 209. PSYCHOLOGY OF EXCEPTIONAL CHILDREN

Study of common tendencies found in fields of mental retardation and physical handicap; characteristics and implications of tendencies are developed with view to enhancing understandings in these fields. *Classification:* Required of sophomores in Mental Retardation and Physical Handicap. *Prerequisite:* Ex. Ed. 101. *Credit:* Three semester hours—four class hours.

### EX.ED. 210. BEHAVIOR DISORDERS OF THE EMOTIONALLY DISTURBED CHILD

Study of the incidence and scope of emotionally disturbed children; problems of adaptation on psycho-social development, ego-mechanisms, and the impact of deficient rearing experiences; maladaptive behavior in the educational setting and psychodynamics of general syndromes. Concomitant with the formal class hours is a clinically-oriented supervised field practicum. Student is assigned to a variety of residential centers for four to six hours per week. *Classification:* Required of sophomores in emotional disturbance. *Prerequisite:* Ex.Ed. 101. *Credit:* Three semester hours—four class hours.

### EX.ED. 211. ANATOMICAL, PHYSIOLOGICAL AND ACOUSTICAL ASPECTS OF COMMUNICATION

Anatomy and physiology of the ear and the organs of speech; production and reception of spoken language; the clinical treatment of hearing problems; hearing testing and hearing aid construction. Assigned observations. *Classification:* Required of freshmen in the education of the deaf. Assigned observations. *Prerequisite:* Ex.Ed. 202 or concurrently. *Credit:* Four semester hours—five class hours.

### EX.ED. 301. OBSERVATION AND PARTICIPATION IN MENTAL RETARDATION

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. *Credit:* Three semester hours—nine class hours.

### EX.ED. 305. THE CHILD AND THE CURRICULUM (DEAF)

Methods and materials for teaching read-

ing, science, mathematics, social studies, language and speech development and correction in schools, clinics and classes for the deaf and severely hard of hearing; selection, organization and evaluation of learning experiences; practical classroom experience in working with deaf and severely hard of hearing children. *Classification:* Required of Ex.Ed. seniors majoring in the Education of the Deaf. *Prerequisite:* Ex.Ed. 315. *Credit:* Three semester hours—nine class hours. *Special Note:* One-half semester.

### EX.ED. 306. SPEECH PATHOLOGY I

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 speech pathology and audiology. *Prerequisite:* Ex.Ed. 205. *Credit:* Three semester hours—five class hours.

### EX.ED. 307. SPEECH PATHOLOGY II

Etiology and therapy of more severe speech defects particularly extensive organic problems; observation of diagnosis and treatment. Laboratory two hours per week. *Classification:* Required of juniors in speech pathology and audiology. *Prerequisite:* Ex.Ed. 306. *Credit:* Three semester hours—four class hours.

### EX.ED. 309. CURRICULUM PRACTICES AND METHODS OF TEACHING THE EMOTIONALLY DISTURBED

Organizing a school program for emotionally disturbed children; selecting and evaluating suitable group and individual activities for the teaching of basic school subjects; observations of special classes for the emotionally disturbed (school and residential). *Classification:* Required of juniors or seniors in emotional disturbance. *Prerequisite:* Ex.Ed. 210. *Credit:* Three semester hours—four class hours.



EX.ED. 311. OBSERVATION AND PARTICIPATION IN PHYSICAL HANDICAP

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 classes for the physically handicapped. *Classification:* Required of juniors in Physical Handicap. *Prerequisite:* Ex.Ed. 417. *Credit:* Three semester hours—nine class hours.

EX.ED. 313. THE CHILD AND THE CURRICULUM (ATYPICAL)

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 emotionally disturbed and socially maladjusted. *Classification:* Required of juniors and seniors in emotional disturbance. *Prerequisite:* Ex.Ed. 309. *Credit:* Three semester hours—nine class hours.

EX.ED. 314. THE TEACHING OF SPEECH TO THE DEAF

Study of the principles and techniques used in developing speech sounds by the analytical and the whole word methods. Planning a speech program for the deaf. Methods of correcting defective speech for the deaf and hard of hearing. *Classification:* Required of juniors in education of the deaf. *Prerequisite:* Ex.Ed. 315 or concurrently. *Credit:* Four semester hours—five class hours.

EX.ED. 315. THE TEACHING OF LANGUAGE TO THE DEAF

Study of the principles and techniques of teaching language to preschool and school age deaf and severely hard of hearing children; survey of leading systems of teaching language to the acoustically im-

paired with experiences in developing at least one language system appropriate for teaching language to the deaf. *Classification:* Required of sophomores in education of the deaf. *Prerequisite:* Ex.Ed. 202. *Credit:* Three semester hours—four class hours.

EX.ED. 402. CLINICAL PROCEDURES AND ORGANIZATION OF SCHOOL AND CLINIC SPEECH AND HEARING PROGRAMS

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. *Credit:* four semester hours—eighteen hours a week, half semester.

EX.ED. 403. MENTAL AND EDUCATIONAL MEASUREMENT

Survey course examining general measurement and evaluation principles relative to instruments of capacity, achievement, interest patterns, attitudes, personality and adjustment; examination of elementary descriptive statistical concepts as they facilitate selection, administration, scoring and interpretation of standardized tests and construction of teacher-made instruments. *Classification:* Required of juniors in emotional disturbance, mental retardation and physical handicap. *Credit:* Three semester hours—four class hours.

EX.ED. 404. CURRICULUM PRACTICES FOR THE MENTALLY RETARDED

Curriculum development, based upon a philosophy of occupational education and curricular cores, designed for special class teachers and for teachers of regular classes who must provide adjustments for slow learning children. *Classification:* Required of juniors in mental retardation and physical handicap. *Prerequisite:* Ex.Ed. 209. *Credit:* Three semester hours—four class hours.

EX.ED. 405. PRACTICUM IN SPEECH AND HEARING

(Clinical practice in schools) under supervision of a speech and hearing clinician. *Classification:* Required of all seniors in speech pathology and hearing audiology. *Prerequisite:* Eighteen hours in speech and hearing. *Credit:* Six semester hours—all day, five days a week, half semester.

EX.ED. 411. SEMINAR IN SPEECH AND HEARING

Advanced clinical practice in speech and hearing therapy; investigation and application of recent research. *Classification:* Required of seniors in speech pathology and hearing audiology. *Credit:* Three semester hours—four class hours.

EX.ED. 412. AUDIOMETRY AND HEARING AIDS

Study and measurement of hearing; administration of individual and group audiometric examinations, interpreting audiograms; principles of construction, fitting and use of individual hearing aids. *Classification:* Elective for majors in speech pathology and audiology. *Prerequisite:* Ex.Ed. 414. *Credit:* Three semester hours—five class hours.

EX.ED. 414. AUDIOLOGY I

The clinical treatment of hearing problems particularly to assist the speech correctionist, hearing testing, hearing aid construction, and research in the field of audiology. *Classification:* Required of sophomores in speech pathology and audiology. *Prerequisite:* Ex.Ed. 204. *Credit:* Three semester hours—five class hours.

EX.ED. 415. SPEECH READING AND AUDITORY TRAINING

Principles and techniques of remedial procedures for hearing handicapped; examination of clinical practices; evaluation of recent research in field; practice work in speech reading and auditory training instruction. *Classification:* Required of juniors in speech pathology and audiology and education of the deaf. *Prerequisite:* Ex.Ed. 414 or Ex.Ed. 211. *Credit:* Three semester hours—five class hours.

EX.ED. 416. STUTTERING

Theoretical concepts related to etiology of stuttering and therapeutic approaches to the problem presented. *Classification:* Required of juniors in speech pathology and audiology. *Prerequisite:* Ex.Ed. 306. *Credit:* Three semester hours—five class hours.

EX.ED. 417. CURRICULUM PRACTICES FOR THE PHYSICALLY HANDICAPPED

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. *Credit:* Three semester hours—four class hours.

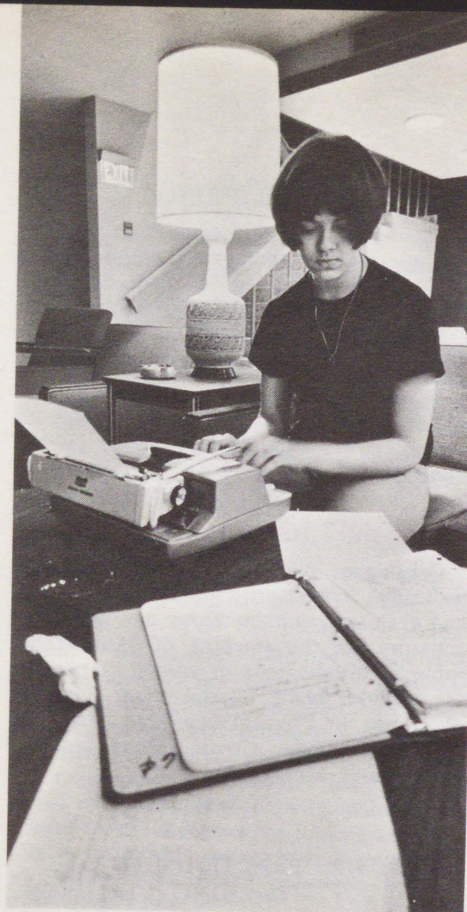
EX.ED. 418. PRACTICUM IN TEACHING CHILDREN WITH RETARDED MENTAL DEVELOPMENT

Practice teaching under supervision in a special class for children with retarded mental development. *Classification:* Required of seniors in mental retardation. *Prerequisite:* Ex.Ed. 301 and Ed. 305. *Credit:* Six semester hours—all day, five days a week.

EX.ED. 419. TEACHING THE TRAINABLE RETARDED

Nature and needs of children, curriculum, methods and materials, special problems encountered in educating the trainable retarded child (below 50 IQ) in public day-school classes. *Classification:* Required of juniors planning to teach trainable children; elective to majors in mental retardation and physical handicap. *Prerequisite:* Ex.Ed. 101. *Credit:* Three semester hours—four class hours.





**EX.ED. 420. SPEECH PROBLEMS OF CHILDREN**

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. *Classification:* All college elective. *Credit:* Three semester hour—three class hours.

**EX.ED. 421. PRACTICUM IN TEACHING CHILDREN WITH PHYSICAL HANDICAP**

Student 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. *Credit:* Six semester hours—all day, five days a week.

**EX.ED. 423. PRACTICUM IN TEACHING DEAF CHILDREN**

Student teaching under supervision in classes for the deaf. *Classification:* Required of seniors in the education of the deaf. *Prerequisite:* Ed. 305 and Ex.Ed. 305. *Credit:* Six semester hours—all day, five days a week.

**EX.ED. 424. ORGANIZATION AND ADMINISTRATION OF SCHOOL PROGRAMS**

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 speech pathology and audiology. *Prerequisite:* Eighteen hours in Speech and Hearing Courses. *Credit:* Two semester hours—four class hours, half semester.

**EX.ED. 430. PRACTICUM IN TEACHING CHILDREN WITH EMOTIONAL DISTURBANCE**

Practice teaching under supervision in a special class or residential setting housing a school program for the emotionally disturbed. *Classification:* Required of upper seniors in emotionally disturbance. *Prerequisite:* Ex.Ed. 313. *Credit:* Six semester hours—all day, five days a week.

**EX.ED. 495. INDEPENDENT PROJECT OR STUDY**

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. *Credit:* One to six semester hours. *Special Note:* Requires the recommendation of a faculty member related to the area of the project, who agree to supervise the project, and approval of the Division Director.

## SECONDARY EDUCATION DIVISION

Graduates of the nine curricula receive the Bachelor of Science 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, Sciences (Biology, Chemistry, Earth Science, or Physics) and Social Studies.

The program in secondary English prepares teachers of English and American Literature and the English language, both oral and written, and advisers of student groups interested in journalism, debating and dramatics. Thirty semester hours of English are required, beyond the general-liberal required English courses.

The program in secondary French or Spanish requires 30 semester hours in the major language. Additional elective offerings are available in German, Italian, Latin 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 the mathematics electives to fulfill the remainder of the total thirty-hour requirement in mathematics.

The program in secondary Science prepares teachers of Biology, Chemistry, Earth Science, and Physics. One year of study is required in Biology, Chemistry, Earth Science, Physics and Mathematics. An additional 18 semester hours study in one of the sciences is also required.

The program in secondary Social Studies requires at least 45 semester hours. United States history, 6 hours in European history, and 6 hours each in four of the following: Anthropology, Economics, History other than United States or European, Political Science, Sociology, Geography.



## SECONDARY EDUCATION CURRICULUM

### English Major

### First Semester Senior Teaching Group

#### FIRST YEAR

Course Titles		First Semester Class Hours	Credit Hours
Eng. 101	Effective Communication .....	3	3
Eng. 107	Literature of England .....	3	3
Mathematics	Elective .....	3	3
Or. 100	Orientation .....	1	0
P. Ed. 100	Physical Education Activities .....	2	1
Science Elective	.....	3-4	3
S.S. 101	Man and His Institutions: Social, Economic and Political .....	3	3
Total .....		18-19	16

Course Titles		Second Semester Class Hours	Credit Hours
Eng. 102	Effective Communication .....	3	3
Eng. 108	Literature of England .....	3	3
P. Ed. 100	Physical Education Activities .....	2	1
Science Elective	.....	3-4	3
S.S. 102	Man and His Institutions: Social, Economic and Political .....	3	3
S.S. Group A: select one: .....		3	3
	Hist. 201 Social and Intellectual History of the American People to 1900		
	Hist. 202 Political and Economic Growth of the U.S. to 1900		
	Hist. 203 U.S. in the Twentieth Century		
Total .....		17-18	16

#### SECOND YEAR

Course Titles		First Semester Class Hours	Credit Hours
Ed. 103	Human Growth and Development .....	4	3
Eng. 104	American Literature .....	3	3
Eng. 205	World Literature .....	3	3
Philosophy Elective	.....	3	3
Science Elective	.....	3-4	3
Elective in the Field of Emphasis <sup>1</sup>	.....	3	3
Total .....		19-20	18

Course Titles		Second Semester Class Hours	Credit Hours
Ed. 104	Human Growth and Development .....	4	3
Eng. 202	Public Speaking OR		
Eng. 209	Public Discussion .....	3	3
Eng. 213	Secondary School Literature .....	3	3
Eng. 214	World Literature .....	3	3
Fine Arts Elective <sup>2</sup>	.....	3	3
Elective in the Field of Emphasis <sup>1</sup>	.....	3	3
Total .....		19	18

#### THIRD YEAR

Course Titles		First Semester Class Hours	Credit Hours
Advanced Writing: Select one: .....		3	3
	Eng. 201 Advanced Composition		
	Eng. 220 Creative Writing		
	Eng. 325 Journalism		
Eng. 315	Shakespeare .....	3	3
Hist. 305	History of England .....	3	3
Fine Arts Elective <sup>2</sup>	.....	3	3
Electives in the Field of Emphasis <sup>1</sup>	.....	3	3
Elective—Non Major .....		3	3
Total .....		18	18

<sup>1</sup>Nine hours grouped in: Art—Music, Foreign Language, Speech—Theatre, Social Studies or Philosophy.

<sup>2</sup>Any course in Art, Music, Drama or Theatre.

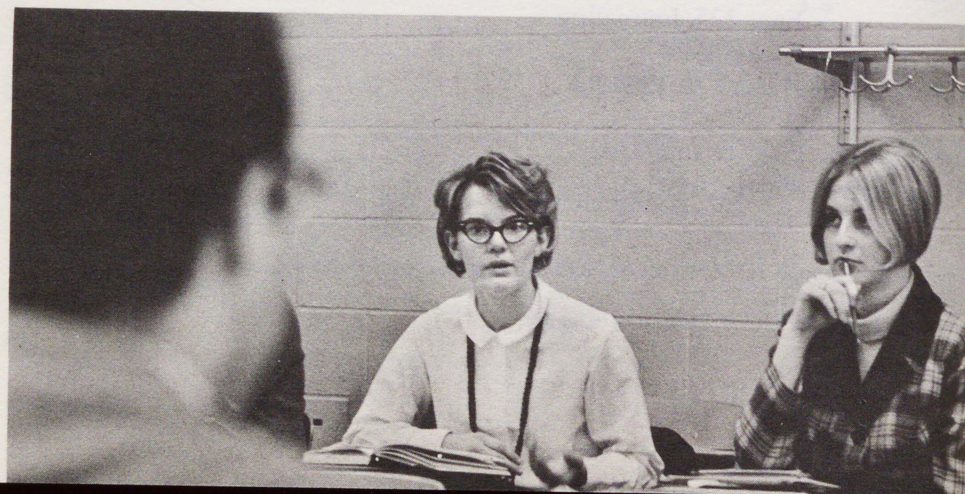


Course Titles		Second Semester Class Hours	Credit Hours
Ed. 306	Teaching English in the Secondary School .....	4	3
Eng. 312	Contemporary English .....	3	3
Eng. 320	Oral Interpretation of Literature .....	3	3
Eng. 427	Foundations of Language .....	3	3
Elective—Non Major .....		3	3
Total .....		16	15

#### FOURTH YEAR

Course Titles		First Semester Class Hours	Credit Hours
Ed. 406	Practicum in Teaching English .....	12	6
Ed. 406	Practicum in Teaching English .....	12	6
Total .....		24	12

Course Titles		Second Semester Class Hours	Credit Hours
Ed. 403	Historical and Philosophical Forces Influencing Secondary Education .....	3	3
American English Literature Elective .....		3	3
Elective—Non Major .....		3	3
Elective—Unrestricted .....		3	3
Elective—Unrestricted .....		3	3
Total .....		15	15
Total Semester Credit Hours .....			128



#### SECONDARY EDUCATION CURRICULUM

##### English Major

##### Second Semester Senior Teaching Group

##### FIRST YEAR

Course Titles		First Semester Class Hours	Credit Hours
Eng. 101	Effective Communication .....	3	3
Eng. 107	Literature of England .....	3	3
Or. 100	Orientation .....	1	0
P.Ed. 100	Physical Education Activities .....	2	1
Science Elective .....		3-4	3
S.S. 101	Man and His Institutions: Social, Economic and Political .....	3	3
S.S. Group A: Select one: .....		3	3
Hist. 201 Social and Intellectual History of the American People to 1900			
Hist. 202 Political and Economic Growth of the U.S. to 1900			
Hist. 203 U.S. in the Twentieth Century			
Total .....		18-19	16

Course Titles		Second Semester Class Hours	Credit Hours
Eng. 102	Effective Communication .....	3	3
Eng. 108	Literature of England .....	3	3
Mathematics Elective .....		3	3
P.Ed. 100	Physical Education Activities .....	2	1
Science Elective .....		3-4	3
S.S. 102	Man and His Institutions: Social, Economic and Political .....	3	3
Total .....		17-18	16

##### SECOND YEAR

Course Titles		First Semester Class Hours	Credit Hours
Ed. 103	Human Growth and Development .....	4	3



Eng. 202	Public Speaking OR		
Eng. 209	Public Discussion .....	3	3
Eng. 205	World Literature .....	3	3
Eng. 213	Secondary School Literature .....	3	3
Science Elective .....		3-4	3
Elective in the Field of Emphasis <sup>1</sup> .....		3	3
<i>Total</i> .....		19-20	18

<i>Course Titles</i>		<i>Second Semester Class Hours</i>	<i>Credit Hours</i>
Ed. 104	Human Growth and Development .....	4	3
Eng. 214	World Literature .....	3	3
Eng. 104	American Literature .....	3	3
Fine Arts Elective <sup>2</sup> .....		3	3
Philosophy Elective .....		3	3
Elective in the Field of Emphasis <sup>1</sup> .....		3	3
<i>Total</i> .....		19	18

### THIRD YEAR

<i>Course Titles</i>		<i>First Semester Class Hours</i>	<i>Credit Hours</i>
Eng. 312	Contemporary Literature .....	3	3
Eng. 320	Oral Interpretation of Literature .....	3	3
Eng. 427	Foundations of Language .....	3	3
Fine Arts Elective <sup>2</sup> .....		3	3
Elective in the Field of Emphasis <sup>1</sup> .....		3	3
Elective — Non Major .....		3	3
<i>Total</i> .....		18	18

<i>Course Titles</i>		<i>Second Semester Class Hours</i>	<i>Credit Hours</i>
Advanced Writing: Select one: .....		3	3
Eng. 201 Advanced Composition .....			

<sup>1</sup>Nine hours grouped in: Art—Music, Foreign Language, Speech—Theatre, Social Studies or Philosophy.

<sup>2</sup>Any course in Art, Music, Drama or Theatre.

Eng. 220 Creative Writing		
Eng. 325 Journalism		
Eng. 315 Shakespeare .....	3	3
Hist. 305 History of England .....	3	3
Elective—Non Major .....	3	3
Elective—Unrestricted .....	3	3
<i>Total</i> .....	15	15

### FOURTH YEAR

<i>Course Titles</i>		<i>First Semester Class Hours</i>	<i>Credit Hours</i>
Ed. 306	Teaching English in the Secondary School .....	4	3
Ed. 403	Historical and Philosophical Forces Influencing Secondary Education .....	3	3
American English Literature Elective .....		3	3
Elective—Non Major .....		3	3
Elective—Unrestricted .....		3	3
<i>Total</i> .....		16	15

<i>Course Titles</i>		<i>Second Semester Class Hours</i>	<i>Credit Hours</i>
Ed. 406	Practicum in Teaching English .....	12	6
Ed. 406	Practicum in Teaching English .....	12	6
<i>Total</i> .....		24	12
<i>Total Semester Credit Hours</i> .....			128

### SECONDARY EDUCATION CURRICULUM

#### French Major

#### First Semester Senior Teaching Group

### FIRST YEAR

<i>Course Titles</i>		<i>First Semester Class Hours</i>	<i>Credit Hours</i>
Fr. 201	Intermediate French .....	3	3
			173



Eng. 101	Effective Communication .....	3	3
S.S. 101	Man and His Institutions: Social, Economic and Political .....	3	3
P.Ed. 100	Physical Education Activities .....	2	1
Fine Arts Elective .....		3	3
Science Elective .....		3-4	3
Or. 100	Orientation .....	1	0
<i>Total</i> .....		18-19	16

<i>Course Titles</i>		<i>Second Semester Class Hours</i>	<i>Credit Hours</i>
Fr. 202	Intermediate French .....	3	3
Eng. 102	Effective Communication .....	3	3
S.S. 102	Man and His Institutions: Social, Economic and Political .....	3	3
P.Ed. 100	Physical Education Activities .....	2	1
Philosophy Elective .....		3	3
Science Elective .....		3-4	3
<i>Total</i> .....		17-18	16

## SECOND YEAR

<i>Course Titles</i>		<i>First Semester Class Hours</i>	<i>Credit Hours</i>
Fr. 301	French Composition and Conversation .....	3	3
Fr. 307	History of French Literature .....	3	3
Ed. 103	Human Growth and Development .....	4	3
Eng. 103	English Literature OR		
Eng. 104	American Literature .....	3	3
Mathematics Elective .....		3	3
Science or Mathematics Elective .....		3-4	3
<i>Total</i> .....		19-20	18

<i>Course Titles</i>		<i>Second Semester Class Hours</i>	<i>Credit Hours</i>
Fr. 306	French Civilization .....	3	3
Fr. 308	History of French Literature .....	3	3

Ed. 104	Human Growth and Development .....	4	3
Science or Mathematics Elective .....		3-4	3
Elective—Non Major .....		3	3
Social Science Elective .....		3	3
<i>Total</i> .....		19-20	18

## THIRD YEAR

<i>Course Titles</i>		<i>First Semester Class Hours</i>	<i>Credit Hours</i>
Eng. 301	Ideas of Man and His World in Literature .....	3	3
Fr. 302	French Composition and Conversation .....	3	3
Hist. 301	Ideas and Social Change in Western Civilization .....	3	3
Fine Arts Elective <sup>2</sup> .....		3	3
Elective—Unrestricted .....		3	3
Elective—Unrestricted .....		3	3
<i>Total</i> .....		18	18

<i>Course Titles</i>		<i>Second Semester Class Hours</i>	<i>Credit Hours</i>
Eng. 302	Ideas of Man and His World in Literature .....	3	3
Fr. 403	Background of Modern French .....	3	3
French Elective .....		3	3
Ed. 310	Methods and Materials in Teaching Foreign Language in the Secondary Schools .....	4	3
Electives—Unrestricted .....		3	3
<i>Total</i> .....		16	15

## FOURTH YEAR

<i>Course Titles</i>		<i>First Semester Class Hours</i>	<i>Credit Hours</i>
Ed. 413	Practicum in Teaching Foreign Languages .....	12	6
Ed. 413	Practicum in Teaching Foreign Languages .....	12	6
<i>Total</i> .....		24	12

<sup>2</sup>Any course in Art, Music, Drama or Theatre.



Course Titles	Second Semester	
	Class Hours	Credit Hours
Ed. 403 Historical and Philosophical Forces Influencing Secondary Education .....	3	3
French Elective .....	3	3
Elective—Non Major .....	3	3
Elective—Non Major .....	3	3
Elective—Unrestricted .....	3	3
Elective—Unrestricted .....	3	2
Total .....	18	17
Total Semester Credit Hours .....		130

## SECONDARY EDUCATION CURRICULUM

### French Major

### Second Semester Senior Teaching Group

#### FIRST YEAR

Course Titles	First Semester	
	Class Hours	Credit Hours
Fr. 201 Intermediate French .....	3	3
Eng. 101 Effective Communication .....	3	3
S.S. 101 Man and His Institutions: Social, Economic and Political .....	3	3
P.Ed. 100 Physical Education Activities .....	2	1
Fine Arts Elective .....	3	3
Science Elective .....	3-4	3
Or. 100 Orientation .....	1	0
Total .....	18-19	16

Course Titles	Second Semester	
	Class Hours	Credit Hours
Fr. 202 Intermediate French .....	3	3
Eng. 102 Effective Communication .....	3	3
S.S. 102 Man and His Institutions: Social, Economic and Political .....	3	3

P.Ed. 100 Physical Education Activities .....	2	1
Philosophy Elective .....	3	3
Science Elective .....	3-4	3
Total .....	17-18	16

#### SECOND YEAR

Course Titles	First Semester	
	Class Hours	Credit Hours
Fr. 301 French Composition and Conversation .....	3	3
Fr. 307 History of French Literature .....	3	3
Ed. 103 Human Growth and Development .....	4	3
Eng. 103 English Literature .....		
OR		
Eng. 104 American Literature .....	3	3
Mathematics Elective .....	3	3
Science or Mathematics Elective .....	3-4	3
Total .....	19-20	18

Course Titles	Second Semester	
	Class Hours	Credit Hours
Fr. 306 French Civilization .....	3	3
Fr. 308 History of French Literature .....	3	3
Ed. 104 Human Growth and Development .....	4	3
Science or Mathematics Elective .....	3-4	3
Elective—Non Major .....	3	3
Social Science Elective .....	3	3
Total .....	19-20	18

#### THIRD YEAR

Course Titles	First Semester	
	Class Hours	Credit Hours
Fr. 302 French Composition and Conversation .....	3	3
Eng. 301 Ideas of Man and His World on Literature .....	3	3
Hist. 301 Ideas and Social Change in Western Civilization .....	3	3
Fine Arts Elective <sup>2</sup> .....	3	3
Elective—Unrestricted .....	3	3
Elective—Unrestricted .....	3	3
Total .....	18	18

<sup>2</sup>Any course in Art, Music, Drama or Theatre.



Course Titles	Second Semester	
	Class Hours	Credit Hours
French Elective .....	3	3
Eng. 302 Ideas of Man and His World on Literature .....	3	3
Elective—Non Major .....	3	3
Elective—Non Major .....	3	3
Elective—Unrestricted .....	3	3
Elective—Unrestricted .....	3	2
Total .....	18	17

#### FOURTH YEAR

Course Titles	First Semester	
	Class Hours	Credit Hours
Fr. 403 Background of Modern French .....	3	3
French Elective .....	3	3
Ed. 310 Methods and Materials in Teaching Foreign Language in the Secondary School .....	4	3
Ed. 403 Historical and Philosophical Forces Influencing Secondary Education .....	3	3
Elective—Unrestricted .....	3	3
Total .....	16	15

Course Titles	Second Semester	
	Class Hours	Credit Hours
Ed. 413 Practicum in Teaching Foreign Languages .....	12	6
Ed. 413 Practicum in Teaching Foreign Languages .....	12	6
Total .....	24	12
Total Semester Credit Hours .....		130

#### SECONDARY EDUCATION CURRICULUM

##### Spanish Major

##### First Semester Senior Teaching Group

##### FIRST YEAR

Course Titles	First Semester	
	Class Hours	Credit Hours
Span. 201 Intermediate Spanish .....	3	3

Eng. 101 Effective Communication .....	3	3
S.S. 101 Man and His Institutions: Social, Economic and Political .....	3	3
P.Ed. 100 Physical Education Activities .....	2	1
Philosophy Elective .....	3	3
Science Elective .....	3-4	3
Or. 100 Orientation .....	1	0
Total .....	18-19	16

Course Titles	Second Semester	
	Class Hours	Credit Hours
Span. 202 Intermediate Spanish .....	3	3
Eng. 102 Effective Communication .....	3	3
S.S. 102 Man and His Institutions: Social, Economic and Political .....	3	3
P.Ed. 100 Physical Education Activities .....	2	1
Fine Arts Elective <sup>2</sup> .....	3	3
Science Elective .....	3-4	3
Total .....	17-18	16

#### SECOND YEAR

Course Titles	First Semester	
	Class Hours	Credit Hours
Span. 301 Spanish Composition and Conversation .....	3	3
Span. 307 History of Spanish Literature .....	3	3
Ed. 103 Human Growth and Development .....	4	3
Eng. 103 English Literature		
OR		
Eng. 104 American Literature .....	3	3
Mathematics Elective .....	3	3
Science or Mathematics Elective .....	3-4	3
Total .....	19-20	18

Course Titles	Second Semester	
	Class Hours	Credit Hours
Span. 306 Hispanic Civilization .....	3	3

<sup>2</sup>Any course in Art, Music, Drama or Theatre.



Span. 308	History of Spanish Literature .....	3	3
Ed. 104	Human Growth and Development .....	4	3
Science or Mathematics Elective .....	3-4	3	
Elective—Non Major .....	3	3	
Social Science Elective .....	3	3	
<i>Total</i> .....	19-20	18	

### THIRD YEAR

<i>Course Titles</i>		<i>First Semester Class Hours</i>	<i>Credit Hours</i>
Eng. 301	Ideas of Man and His World in Literature .....	3	3
Span. 302	Spanish Composition and Conversation .....	3	3
Hist. 301	Ideas and Social Change in Western Civilization .....	3	3
Fine Arts Elective <sup>2</sup> .....	3	3	
Elective—Unrestricted .....	3	3	
Elective—Unrestricted .....	3	3	
<i>Total</i> .....	18	18	

<i>Course Titles</i>		<i>Second Semester Class Hours</i>	<i>Credit Hours</i>
Eng. 302	Ideas of Man and His World in Literature .....	3	3
Spanish Elective .....	3	3	
Ed. 310	Methods and Materials of Teaching Foreign Language in the Secondary School .....	4	3
Span. 403	Background of Modern Spanish .....	3	3
Elective—Unrestricted .....	3	3	
<i>Total</i> .....	16	15	

### FOURTH YEAR

<i>Course Titles</i>		<i>First Semester Class Hours</i>	<i>Credit Hours</i>
Ed. 413	Practicum in Teaching Foreign Languages .....	12	6
Ed. 413	Practicum in Teaching Foreign Languages .....	12	6
<i>Total</i> .....	24	12	

<sup>2</sup>Any course in Art, Music, Drama or Theatre.

<i>Course Titles</i>		<i>Second Semester Class Hours</i>	<i>Credit Hours</i>
Ed. 403	Historical and Philosophical Forces Influencing Secondary Education .....	3	3
Spanish Elective .....	3	3	
Elective—Non Major .....	3	3	
Elective—Non Major .....	3	3	
Elective—Unrestricted .....	3	3	
Elective—Unrestricted .....	3	2	
<i>Total</i> .....	18	17	
<i>Total Semester Credit Hours</i> .....			130

### SECONDARY EDUCATION CURRICULUM

#### Spanish Major

#### Second Semester Senior Teaching Group

### FIRST YEAR

<i>Course Titles</i>		<i>First Semester Class Hours</i>	<i>Credit Hours</i>
Span. 201	Intermediate Spanish .....	3	3
Eng. 101	Effective Communication .....	3	3
S.S. 101	Man and His Institutions: Social, Economic and Political .....	3	3
P.Ed. 100	Physical Education Activities .....	2	1
Philosophy Elective .....	3	3	
Science Elective .....	3-4	3	
Or. 100	Orientation .....	1	0
<i>Total</i> .....	18-19	16	

<i>Course Titles</i>		<i>Second Semester Class Hours</i>	<i>Credit Hours</i>
Span. 202	Intermediate Spanish .....	3	3
Eng. 102	Effective Communication .....	3	3
S.S. 102	Man and His Institutions: Social, Economic and Political .....	3	3



P.Ed. 100	Physical Education Activities .....	2	1
Fine Arts Elective <sup>2</sup> .....	3	3	
Science Elective .....	3-4	3	
<i>Total</i> .....	17-18	16	

## SECOND YEAR

		First Semester	
Course Titles		Class	Credit
		Hours	Hours
Span. 301	Spanish Composition and Conversation .....	3	3
Span. 307	History of Spanish Literature .....	3	3
Ed. 103	Human Growth and Development .....	4	3
Eng. 103	English Literature		
	OR		
Eng. 104	American Literature .....	3	3
Mathematics Elective .....		3	3
Science or Mathematics Elective .....		3-4	3
Total .....		19-20	18

<i>Course Titles</i>		<i>Second Semester Class Hours</i>	<i>Credit Hours</i>
Span. 306	Hispanic Civilization .....	3	3
Span. 308	History of Spanish Literature .....	3	3
Ed. 104	Human Growth and Development .....	4	3
Science or Mathematics Elective .....		3-4	3
Elective—Non Major .....		3	3
Social Science Elective .....		3	3
<i>Total</i> .....		<u>19-20</u>	<u>18</u>

## THIRD YEAR

<i>Course Titles</i>		<i>First Semester</i>	
		<i>Class</i>	<i>Credit</i>
		<i>Hours</i>	<i>Hours</i>
Span. 302	Spanish Composition and Conversation .....	3	3
Eng. 301	Ideas of Man and His World in Literature .....	3	3
Hist. 301	Ideas and Social Change in Western Civilization	3	3
Fine Arts Elective <sup>2</sup> .....		3	3

<sup>2</sup>Any course in Art, Music, Drama or Theatre.

Elective—Unrestricted .....	3	3
Elective—Unrestricted .....	3	3
<i>Total</i> .....	18	18

<i>Course Titles</i>	<i>Second Semester</i>	
	<i>Class Hours</i>	<i>Credit Hours</i>
Spanish Elective .....	3	3
Eng. 302      Ideas of Man and His World in Literature ....	3	3
Elective—Non Major .....	3	3
Elective—Non Major .....	3	3
Elective—Unrestricted .....	3	3
Elective—Unrestricted .....	3	2
<i>Total</i> .....	18	17

## FOURTH YEAR

FOURTH YEAR		First Semester	
Course Titles		Class Hours	Credit Hours
Span. 403	Background of Modern Spanish .....	3	3
Spanish Elective .....		3	3
Ed. 310	Methods and Materials in Teaching Foreign Language in the Secondary School .....	4	3
Ed. 403	Historical and Philosophical Forces Influencing Secondary Education .....	3	3
Elective—Unrestricted .....		3	3
Total .....		16	15

		Second Semester	
		Class	Credit
Course Titles		Hours	Hours
Ed. 413	Practicum in Teaching Foreign Languages .....	12	6
Ed. 413	Practicum in Teaching Foreign Languages .....	12	6
Total .....		24	12
Total Semester Credit Hours .....			130



SECONDARY EDUCATION CURRICULUM

Mathematics Major

FIRST YEAR

Course Titles	First Semester	
	Class Hours	Credit Hours
Math. 107 Analytic Geometry & Calculus .....	4	4
Eng. 101 Effective Communication .....	3	3
S.S. 101 Man and His Institutions: Social, Economic and Political .....	3	3
Philosophy Elective .....	3	3
Science Elective .....	4	3
Or. 100 Orientation .....	1	0
P.Ed. 100 Physical Education Activities .....	2	1
Total .....	20	17

Course Titles	Second Semester	
	Class Hours	Credit Hours
Math. 108 Analytic Geometry and Calculus .....	4	4
Eng. 102 Effective Communication .....	3	3
S.S. 102 Man and His Institutions: Social, Economic and Political .....	3	3
Math. 109 Sets and Logic .....	3	3
Science Elective .....	4	3
P.Ed. 100 Physical Education Activities .....	2	1
Total .....	19	17

SECOND YEAR

Course Titles	First Semester	
	Class Hours	Credit Hours
Math. 202 Analytic Geometry & Calculus .....	4	4
Ed. 103 Human Growth and Development .....	4	3
*Science Elective .....	4-6	3-4
Fine Arts Elective <sup>2</sup> .....	3	3
Elective .....	3	3
Total .....	18-20	16-17

\*Both Science courses are to be selected from one of these areas: Biology, Chemistry, Earth Science, or Physics.

<sup>2</sup>Any course in Art, Music, Drama or Theatre.

Second Semester  
Class Credit  
Hours Hours

Course Titles

Math. 301 Introduction to Modern Algebra		
OR		
Math. 302 Linear Algebra .....	3	3
Math. 308 Modern Geometry .....	3	3
Ed. 104 Human Growth and Development .....	4	3
*Science Elective .....	4-6	3-4
Elective .....	3	3
Total .....	17-19	15-16

First Semester Senior Teaching Group

THIRD YEAR

Course Titles	First Semester	
	Class Hours	Credit Hours
Eng. 301 Ideas of Man and His World in Literature .....	3	3
Mathematics Elective .....	3	3
Mathematics Elective .....	3	3
Fine Arts Elective <sup>2</sup> .....	3	3
Elective—Non Major .....	3	3
Elective—Non Major .....	3	3
Total .....	18	18

Second Semester  
Class Credit  
Hours Hours

Course Titles

Ed. 307 Teaching Mathematics in the Secondary School .....	3	3
Eng. 302 Ideas of Man and His World in Literature .....	3	3
Social Studies Elective .....	3	3
Mathematics Elective .....	3	3
Elective .....	3	3
Total .....	15	15

\*Both Science courses are to be selected from one of these areas: Biology, Chemistry, Earth Science, or Physics.

<sup>2</sup>Any course in Art, Music, Drama or Theatre.



First Semester Senior Teaching Group

FOURTH YEAR

Course Titles		First Semester	
		Class Hours	Credit Hours
Ed. 407	Practicum in Teaching Mathematics	12	6
Ed. 407	Practicum in Teaching Mathematics	12	6
	Total	24	12
Course Titles		Second Semester	
		Class Hours	Credit Hours
Ed. 403	Historical and Philosophical Forces Influencing Secondary Education	3	3
Hist. 301	Ideas and Social Change in Western Civilization	3	3
Elective—Non Major		3	3
Elective		3	3
Elective		3	3
	Total	15	15
*Elective		2	2
	Total	17	17
	Total Semester Credit Hours		127

Second Semester Senior Teaching Group

THIRD YEAR

Course Titles		First Semester	
		Class Hours	Credit Hours
Eng. 301	Ideas of Man and His World in Literature	3	3
Mathematics Elective		3	3
Mathematics Elective		3	3
Fine Arts Elective <sup>2</sup>		3	3
Elective—Non Major		3	3
Elective—Non Major		3	3
	Total	18	18

\*If the Science Electives are satisfied by courses with the greater of the two indicated credit hours, then this two hour elective may be omitted.  
<sup>2</sup>Any course in Art, Music, Drama or Theatre.

Course Titles		Second Semester	
		Class Hours	Credit Hours
Eng. 302	Ideas of Man and His World in Literature	3	3
Social Studies Elective		3	3
Mathematics Elective		3	3
Elective—Non Major		3	3
Elective		3	3
	Total	15	15
*Elective		2	2
	Total	17	17

Second Semester Senior Teaching Group

FOURTH YEAR

Course Titles		First Semester	
		Class Hours	Credit Hours
Ed. 307	Teaching Mathematics in the Secondary School	3	3
Ed. 403	Historical and Philosophical Forces Influencing Secondary Education	3	3
Hist. 301	Ideas and Social Change in Western Civilization	3	3
Elective		3	3
Elective		3	3
	Total	15	15

Course Titles		Second Semester	
		Class Hours	Credit Hours
Ed. 407	Practicum in Teaching Mathematics	12	6
Ed. 407	Practicum in Teaching Mathematics	12	6
	Total	24	12
	Total Semester Credit Hours		127

\*If the Science Electives are satisfied by courses with the greater of the two indicated credit hours, then this two hour elective may be omitted.



SECONDARY EDUCATION CURRICULUM

Biology Major

FIRST YEAR

Course Titles		First Semester Class Hours	Credit Hours
Biol. 111	General Biology .....	6	4
Chem. 111	General Chemistry .....	6	4
Eng. 101	Effective Communication .....	3	3
Math. 106	College Algebra		
OR			
Math. 107	Analytic Geometry and Calculus .....	3-4	3-4
P.Ed. 100	Physical Education Activities .....	2	1
Or. 100	Orientation .....	1	0
Total .....		21-22	15-16

Course Titles		Second Semester Class Hours	Credit Hours
Biol. 112	General Biology .....	6	4
Chem. 112	General Chemistry .....	8	4
Eng. 102	Effective Communication .....	3	3
Philosophy	Elective .....	3	3
Fine Arts	Elective <sup>2</sup> or Mathematics Elective .....	3	3-4
P.Ed. 100	Physical Education Activities .....	2	1
Total .....		25	18-19

SECOND YEAR

Course Titles		First Semester Class Hours	Credit Hours
Mathematics or	Elective .....	3	3
E.S. 111	Earth Science .....	5	4
Ed. 103	Human Growth and Development .....	4	3
S.S. 101	Man and His Institutions: Social, Economic and Political .....	3	3
Elective .....		3-4	3-4
Total .....		18-19	16-17

<sup>2</sup>Any course in Art, Music, Drama or Theatre.

Course Titles		Second Semester Class Hours	Credit Hours
Biol. 203	Genetics .....	5	4
E.S. 112	Physical Geology .....	5	4
Ed. 104	Human Growth and Development .....	4	3
S.S. 102	Man and His Institutions: Social, Economic and Political .....	3	3
Elective .....		3-4	3-4
Total .....		20-21	17-18

THIRD YEAR

Course Titles		First Semester Class Hours	Credit Hours
Biol. 201	Microbiology .....	6	4
Phy. 111	General Physics .....	5	4
Eng. 301	Ideas of Man and His World in Literature .....	3	3
Hist. 301	Ideas and Social Change in Western Civilization .....	3	3
Elective—Unrestricted .....		3	3
Total .....		20	17

Course Titles		Second Semester Class Hours	Credit Hours
Biol. 301	General Physiology .....	5	3
Biol. 401	Ecology .....	6	4
Phy. 112	General Physics .....	5	4
Eng. 302	Ideas of Man and His World in Literature .....	3	3
Fine Arts	Elective <sup>2</sup> .....	3	3
Total .....		22	17

FOURTH YEAR

Course Titles		First Semester Class Hours	Credit Hours
Biol. 405	Organic Evolution .....	3	3
Ed. 308	Methods and Materials in Teaching Secondary School Science .....	4	3
Ed. 403	Historical and Philosophical Forces Influencing Secondary Education .....	3	3

<sup>2</sup>Any course in Art, Music, Drama or Theatre.



Social Science Elective .....	3	3
Fine Arts Elective <sup>2</sup> or Elective—Non Major .....	3	3
Elective—Unrestricted .....	3	3
<i>Total</i> .....	<u>19</u>	<u>18</u>

<i>Course Titles</i>	<i>Second Semester Class Hours</i>	<i>Credit Hours</i>
Ed. 408      Practicum in Teaching Science in the Secondary School .....	12	6
Ed. 408      Practicum in Teaching Science in the Secondary School .....	12	6
<i>Total</i> .....	<u>24</u>	<u>12</u>
<i>Total Semester Credit Hours</i> .....		130

## SECONDARY EDUCATION CURRICULUM

### Chemistry Major

#### FIRST YEAR

<i>Course Titles</i>	<i>First Semester Class Hours</i>	<i>Credit Hours</i>
Chem. 111      General Chemistry .....	6	4
Phy. 111      General Physics .....	5	4
Eng. 101      Effective Communication .....	3	3
Mathematics or Elective .....	3-4	3-4
P.Ed. 100      Physical Education Activities .....	2	1
Or. 100      Orientation .....	1	0
<i>Total</i> .....	<u>20-21</u>	<u>15-16</u>

<i>Course Titles</i>	<i>Second Semester Class Hours</i>	<i>Credit Hours</i>
Chem. 112      General Chemistry .....	6	4
Phy. 112      General Physics .....	5	4
Eng. 102      Effective Communication .....	3	3
Mathematics as advised .....	3-4	3-4
P.Ed. 100      Physical Education Activities .....	2	1
<i>Total</i> .....	<u>19-20</u>	<u>15-16</u>

<sup>2</sup>Any course in Art, Music, Drama or Theatre.

#### SECOND YEAR

<i>Course Titles</i>	<i>First Semester Class Hours</i>	<i>Credit Hours</i>
Chem. 201      Organic Chemistry .....	6	4
Biol. 111      General Biology .....	6	4
Mathematics or Elective .....	3-4	3-4
Elective—Non Major .....	3	3
P.Ed. 100      Physical Education Activities .....	2	1
S.S. 101      Man and His Institutions: Social, Economic and Political .....	3	3
<i>Total</i> .....	<u>23-24</u>	<u>18-19</u>

<i>Course Titles</i>	<i>Second Semester Class Hours</i>	<i>Credit Hours</i>
Chem. 202      Organic Chemistry .....	6	4
Biol. 112      General Biology .....	6	4
Ed. 103      Human Growth and Development .....	4	3
S.S. 102      Man and His Institutions: Social, Economic and Political .....	3	3
Fine Arts Elective <sup>2</sup> or Elective —Non Major .....	3-4	3-4
<i>Total</i> .....	<u>22-23</u>	<u>17-18</u>

#### THIRD YEAR

<i>Course Titles</i>	<i>First Semester Class Hours</i>	<i>Credit Hours</i>
Chem. 405      Physical Chemistry .....	6	4
E.S. 111      Earth Science .....	5	4
Chem. 301      Analytical Chemistry (and Instrumentation) ....	7	3
Ed. 104      Human Growth and Development .....	4	3
Fine Arts <sup>2</sup> or Elective .....	3	3
<i>Total</i> .....	<u>25</u>	<u>17</u>

<i>Course Titles</i>	<i>Second Semester Class Hours</i>	<i>Credit Hours</i>
Chem. 406      Physical Chemistry .....	6	4

<sup>2</sup>Any course in Art, Music, Drama or Theatre.



E.S. 112	Physical Geology .....	5	4
Eng. 301	Ideas of Man and His World in Literature .....	3	3
Hist. 301	Ideas and Social Change in Western Civilization .....	3	3
Elective .....		3	3
<i>Total</i> .....		20	17

#### FOURTH YEAR

<i>Course Titles</i>		<i>First Semester Class Hours</i>	<i>Credit Hours</i>
Chem. 404	Chemistry Seminar .....	1	1
Ed. 308	Methods and Materials in Teaching Secondary School Science .....	4	3
Ed. 403	Historical and Philosophical Forces Influencing Secondary Education .....	3	3
Eng. 302	Ideas of Man and His World in Literature .....	3	3
Social Science Elective .....		3	3
Elective .....		4	4
<i>Total</i> .....		18	17

<i>Course Titles</i>		<i>Second Semester Class Hours</i>	<i>Credit Hours</i>
Ed. 408	Practicum in Teaching Science in the Secondary School .....	12	6
Ed. 408	Practicum in Teaching Science in the Secondary School .....	12	6
<i>Total</i> .....		24	12
<i>Total Semester Credit Hours</i> .....			130

#### SECONDARY EDUCATION CURRICULUM

##### Earth Science

#### FIRST YEAR

<i>Course Titles</i>		<i>First Semester Class Hours</i>	<i>Credit Hours</i>
E.S. 111	Earth Science .....	5	4

Biol. 111	General Biology .....	6	4
Eng. 101	Effective Communication .....	3	3
Mathematics as advised .....		3-4	3-4
P.Ed. 100	Physical Education Activities .....	2	1
Or. 100	Orientation .....	1	0
<i>Total</i> .....		20-21	15-16

<i>Course Titles</i>		<i>Second Semester Class Hours</i>	<i>Credit Hours</i>
E.S. 112	Physical Geology .....	5	4
Biol. 112	General Biology .....	6	4
Eng. 102	Effective Communication .....	3	3
Mathematics as advised .....		3-4	3-4
Philosophy Elective .....		3	3
<i>Total</i> .....		20-21	17-18

#### SECOND YEAR

<i>Course Titles</i>		<i>First Semester Class Hours</i>	<i>Credit Hours</i>
E.S. 204	Historical Geology .....	4	3
Chem. 111	General Chemistry .....	6	4
Ed. 103	Human Growth and Development .....	4	3
S.S. 101	Man and His Institutions: Social, Economic and Political .....	3	3
Mathematics or Fine Arts Elective .....		3	3-4
<i>Total</i> .....		20	16-17

<i>Course Titles</i>		<i>Second Semester Class Hours</i>	<i>Credit Hours</i>
E.S. 201	Geomorphology .....	4	3
Chem. 112	General Chemistry .....	8	4
Ed. 104	Human Growth and Development .....	4	3
S.S. 102	Man and His Institutions: Social, Economic and Political .....	3	3
Fine Arts Elective <sup>2</sup> .....		3	3
P.Ed. 100	Physical Education Activities .....	2	1
<i>Total</i> .....		25	17

<sup>2</sup>Any course in Art, Music, Drama or Theatre.



### THIRD YEAR

Course Titles		First Semester Class Hours	Credit Hours
E.S. 301	Stratigraphy .....	4	3
E.S. 303	Mineralogy .....	4	3
Phy. 111	General Physics .....	5	4
Eng. 301	Ideas of Man and His World in Literature .....	3	3
Fine Arts <sup>2</sup> or Non Major Elective .....		3	3
Total .....		19	16

Course Titles		Second Semester Class Hours	Credit Hours
E.S. 302	Paleontology .....	4	3
Phy. 112	General Physics .....	5	4
Eng. 302	Ideas of Man and His World in Literature .....	3	3
Social Science Elective .....		3	3
Elective—Non Major .....		3	3
Elective—Unrestricted .....		3	2
Total .....		21	18

### FOURTH YEAR

Course Titles		First Semester Class Hours	Credit Hours
Ed. 308	Methods and Materials in Teaching Secondary School Science .....	4	3
Ed. 403	Historical and Philosophical Forces Influencing Secondary Education .....	3	3
E.S. 402	Geology of North America .....	4	3
Hist. 301	Ideas and Social Change in Western Civilization .....	3	3
Elective—Non Major .....		3	3
Elective—Unrestricted .....		3	2
Total .....		20	17

Course Titles		Second Semester Class Hours	Credit Hours
Ed. 408	Practicum in Teaching Science in the Secondary School .....	12	6

<sup>2</sup>Any course in Art, Music, Drama or Theatre.

Ed. 408	Practicum in Teaching Science in the Secondary School .....	12	6
Total .....		24	12
Total Semester Credit Hours .....			130

### SECONDARY EDUCATION CURRICULUM

#### Physics Major

#### FIRST YEAR

Course Titles		First Semester Class Hours	Credit Hours
Phy. 111	General Physics .....	5	4
E.S. 111	Earth Science .....	5	4
Eng. 101	Effective Communication .....	3	3
Mathematics as advised .....		3-4	3-4
P.Ed. 100	Physical Education Activities .....	2	1
Or. 100	Orientation .....	1	0
Total .....		19-20	15-16

Course Titles		Second Semester Class Hours	Credit Hours
Phy. 112	General Physics .....	5	4
E.S. 112	Earth Science .....	5	4
Eng. 102	Effective Communication .....	3	3
Mathematics as advised .....		3-4	3-4
Philosophy Elective .....		3	3
Total .....		19-20	17-18

#### SECOND YEAR

Course Titles		First Semester Class Hours	Credit Hours
Phy. 202	Intermediate Electricity .....	5	3
Chem. 111	General Chemistry .....	6	4
			195



Ed. 103	Human Growth and Development .....	4	3
P.Ed. 100	Physical Education Activities .....	2	1
Fine Arts Elective <sup>2</sup> or Mathematics Elective .....	3-4	3-4	
S.S. 101	Man and His Institutions: Social, Economic and Political .....	3	3
<i>Total</i> .....	23-24	17-18	

<i>Course Titles</i>		<i>Second Semester Class Hours</i>	<i>Credit Hours</i>
Phy. 201	Radio Electronics .....	4	3
Chem. 112	General Chemistry .....	8	4
Ed. 104	Human Growth and Development .....	4	3
Elective—Non Major .....		3	3
Elective—Unrestricted .....		3	2
S.S. 102	Man and His Institutions: Social, Economic and Political .....	3	3
<i>Total</i> .....		25	18

### THIRD YEAR

<i>Course Titles</i>		<i>First Semester Class Hours</i>	<i>Credit Hours</i>
Phy. 405	Modern Atomic Physics .....	3	3
Physics Elective .....		4	3
Biol. 111	General Biology .....	6	4
Fine Arts Elective <sup>2</sup> .....		3	3
Elective—Non Major .....		3	3
<i>Total</i> .....		19	16

<i>Course Titles</i>		<i>Second Semester Class Hours</i>	<i>Credit Hours</i>
Phy. 406	Modern Physical Concepts .....	4	4
Biol. 112	General Biology .....	6	4
Ed. 308	Methods and Materials in Teaching Secondary School Science .....	4	3
Eng. 301	Ideas of Man and His World in Literature .....	3	3
Elective—Unrestricted .....		3	3
<i>Total</i> .....		20	17

<sup>2</sup>Any course in Art, Music, Drama or Theatre.

### FOURTH YEAR

<i>Course Titles</i>		<i>First Semester Class Hours</i>	<i>Credit Hours</i>
Ed. 408	Practicum in Teaching Science in the Secondary School .....	12	6
Ed. 408	Practicum in Teaching Science in the Secondary School .....	12	6
<i>Total</i> .....		24	12

<i>Course Titles</i>		<i>Second Semester Class Hours</i>	<i>Credit Hours</i>
Phy. 404	Laboratory Practicum .....	4	2
Ed. 403	Historical and Philosophical Forces Influencing Secondary Education .....	3	3
Eng. 302	Ideas of Man and His World in Literature .....	3	3
Hist. 302	History and Government of New York State .....	3	3
Social Science Elective .....		3	3
Elective—Unrestricted .....		3	2
<i>Total</i> .....		19	16
<i>Total Semester Credit Hours</i> .....			130

### SECONDARY EDUCATION CURRICULUM

*Social Studies Major*  
*First Semester Senior Teaching Group*

### FIRST YEAR

<i>Course Titles</i>		<i>First Semester Class Hours</i>	<i>Credit Hours</i>
Eng. 101	Effective Communication .....	3	3
S.S. 101	Man and His Institutions: Social, Economic and Political .....	3	3
Hist. 206	Foundations of Western Civilization .....	3	3
Philosophy Elective .....		3	3
P.Ed. 100	Physical Education Activities .....	2	1
Science Elective .....		3-4	3
Or. 100	Orientation .....	1	0
<i>Total</i> .....		18-19	16



<i>Course Titles</i>		<i>Second Semester</i>	
		<i>Class</i>	<i>Credit</i>
		<i>Hours</i>	<i>Hours</i>
Eng. 102	Effective Communication .....	3	3
S.S. Group A:—select one .....		3	3
	Hist. 201 Social and Intellectual Development of the American People to 1900 .....		
	Hist. 202 Political and Economic Growth of the U. S. to 1900 .....		
	Hist. 203 United States in the Twentieth Century .....		
P.S. 207	American Political Institutions and Problems .....	3	3
Mathematics	Elective .....	3	3
P.Ed. 100	Physical Education Activities .....	2	1
Science	Elective .....	3-4	3
<i>Total</i> .....		17-18	16

## SECOND YEAR

<i>Course Titles</i>		<i>First Semester</i>	
		<i>Class</i>	<i>Credit</i>
		<i>Hours</i>	<i>Hours</i>
Ed. 103	Human Growth and Development .....	4	3
Eng. 103	English Literature .....		
OR			
Eng. 104	American Literature .....	3	3
Econ. 201	Principles and Problems of Economics .....		
OR			
Econ. 203	Principles and Problems of Economics .....	3	3
S.S. Group B:—Select one .....		3	3
	Hist. 205 Twentieth Century Europe .....		
	Hist. 313 History of Latin America: The Colonial Era .....		
	Hist. 314 History of Latin America: The National Era .....		
	Hist. 306 History of the Far East .....		
	Hist. 307 History of Modern Africa .....		
	S.S. 300 History and Culture of the Middle East .....		
Fine Arts	Elective <sup>2</sup> .....	3	3
Elective—Non Major .....		3	3
<i>Total</i> .....		19	18

<sup>2</sup>Any course in Art, Music, Drama or Theatre.

<i>Course Titles</i>		<i>Second Semester</i>	
		<i>Class</i>	<i>Credit</i>
		<i>Hours</i>	<i>Hours</i>
Ed. 104	Human Growth and Development .....	4	3
Geog. 101	Elements of Physical Geography .....		
OR			
Geog. 201	General Geography I .....	3	3
History or Social Studies	Elective .....	3	3
Fine Arts	Elective <sup>2</sup> .....	3	3
Elective—Non Major .....		3	3
Science or Mathematics	Elective .....	3-4	3
<i>Total</i> .....		19-20	18

## THIRD YEAR

<i>Course Titles</i>		<i>First Semester</i>	
		<i>Class</i>	<i>Credit</i>
		<i>Hours</i>	<i>Hours</i>
Eng. 301	Ideas of Man and His World in Literature .....	3	3
History or Social Studies	Elective .....	3	3
History or Social Studies	Elective .....	3	3
Elective—Non Major .....		3	3
Elective—Unrestricted .....		3	3
Colloquium .....		1	0
<i>Total</i> .....		16	15

<i>Course Titles</i>		<i>Second Semester</i>	
		<i>Class</i>	<i>Credit</i>
		<i>Hours</i>	<i>Hours</i>
Eng. 302	Ideas of Man and His World in Literature .....	3	3
History or Social Studies	Elective .....	3	3
History or Social Studies	Elective .....	3	3
Elective—Unrestricted .....		3	3
Ed. 309	Methods and Materials in Teaching Secondary School Social Studies .....	4	3
<i>Total</i> .....		16	15

## FOURTH YEAR

<i>Course Titles</i>		<i>First Semester</i>	
		<i>Class</i>	<i>Credit</i>
		<i>Hours</i>	<i>Hours</i>
Ed. 409	Practicum in Teaching Secondary School Social Studies .....	12	6

<sup>2</sup>Any course in Art, Music, Drama or Theatre.



Ed. 409	Practicum in Teaching Secondary School Social Studies .....	12	6
	<i>Total</i> .....	24	12
		<i>Second Semester</i>	
		<i>Class</i>	<i>Credit</i>
<i>Course Titles</i>		<i>Hours</i>	<i>Hours</i>
Ed. 403	Historical and Philosophical Forces Influencing Secondary Education .....	3	3
	History or Social Studies Elective .....	3	3
	History or Social Studies Elective .....	3	3
	Elective-Unrestricted .....	3	3
	Seminar—History/Social Studies .....	3	3
	<i>Total</i> .....	15	15
	<i>Total Semester Credit Hours</i> .....		125

## SECONDARY EDUCATION CURRICULUM

### *Social Studies Major*

#### *Second Semester Senior Teaching Group*

### FIRST YEAR

		<i>First Semester</i>	
		<i>Class</i>	<i>Credit</i>
<i>Course Titles</i>		<i>Hours</i>	<i>Hours</i>
Eng. 101	Effective Communication .....	3	3
S.S. Group A:—Select one .....		3	3
	Hist. 201 Social and Intellectual Development of the American People to 1900 .....		
	Hist. 202 Political and Economic Growth of the U. S. to 1900 .....		
	Hist. 203 United States in the Twentieth Century .....		
P.S. 207	American Political Institutions and Problems .....	3	3
Mathematics	Elective .....	3	3
P.Ed. 100	Physical Education Activities .....	2	1
Science	Elective .....	3-4	3
Or. 100	Orientation .....	1	0
	<i>Total</i> .....	18-19	16

		<i>Second Semester</i>	
		<i>Class</i>	<i>Credit</i>
<i>Course Titles</i>		<i>Hours</i>	<i>Hours</i>
Eng. 102	Effective Communication .....	3	3
S.S. 101	Man and His Institutions: Social, Economic and Political .....	3	3
Hist. 206	Foundations of Western Civilization .....	3	3
Philosophy	Elective .....	3	3
Science	Elective .....	3-4	3
P.Ed. 100	Physical Education Activities .....	2	1
	<i>Total</i> .....	17-18	16

### SECOND YEAR

		<i>First Semester</i>	
		<i>Class</i>	<i>Credit</i>
<i>Course Titles</i>		<i>Hours</i>	<i>Hours</i>
Ed. 103	Human Growth and Development .....	4	3
Geog. 101	Elements of Physical Geography .....		
	OR .....		
Geog. 201	General Geography .....	3	3
	History or Social Studies Elective .....	3	3
	Fine Arts Elective <sup>2</sup> .....	3	3
	Science or Mathematics Elective .....	3	3
	Elective—Non Major .....	3	3
	<i>Total</i> .....	19	18

		<i>Second Semester</i>	
		<i>Class</i>	<i>Credit</i>
<i>Course Titles</i>		<i>Hours</i>	<i>Hours</i>
Ed. 104	Human Growth and Development .....	4	3
Eng. 103	English Literature .....		
	OR .....		
Eng. 104	American Literature .....	3	3
Econ. 201	Principles and Problems of Economics .....		
	OR .....		
Econ. 203	Principles and Problems of Economics .....	3	3
Hist. Group B:—Select one .....		3	3
	Hist. 205 Twentieth Century Europe .....		
	Hist. 313 History of Latin America: The Colonial Era .....		
	Hist. 314 History of Latin America: The National Era .....		

<sup>2</sup>Any course in Art, Music, Drama or Theatre.



### THIRD YEAR

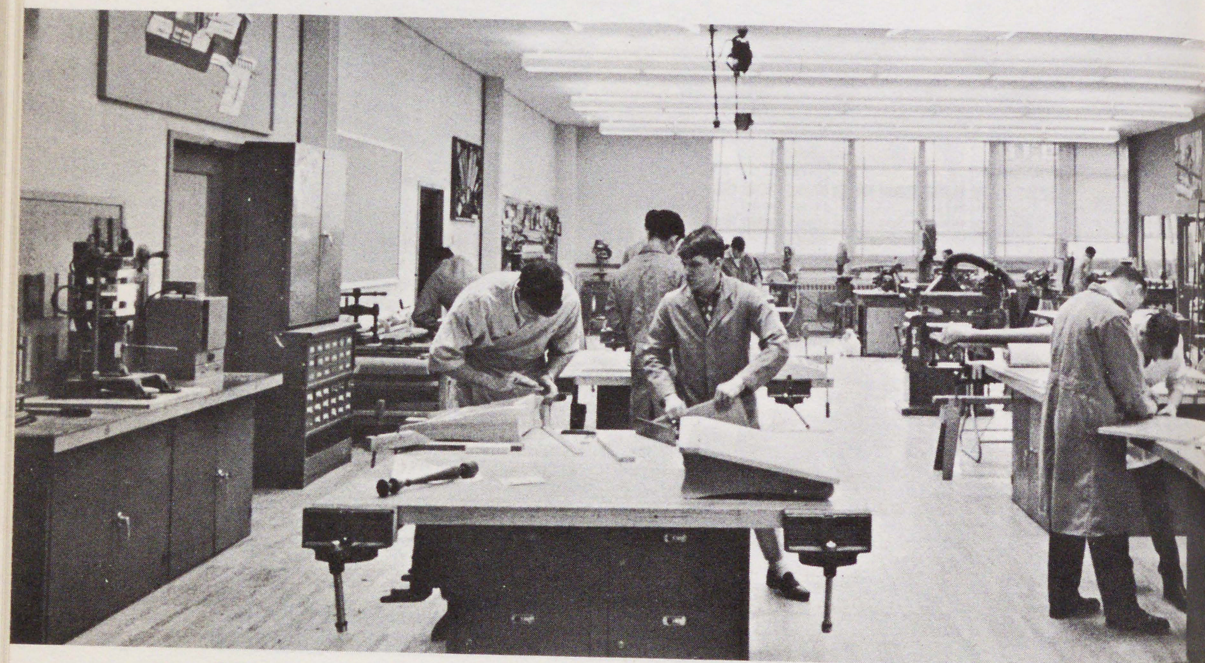
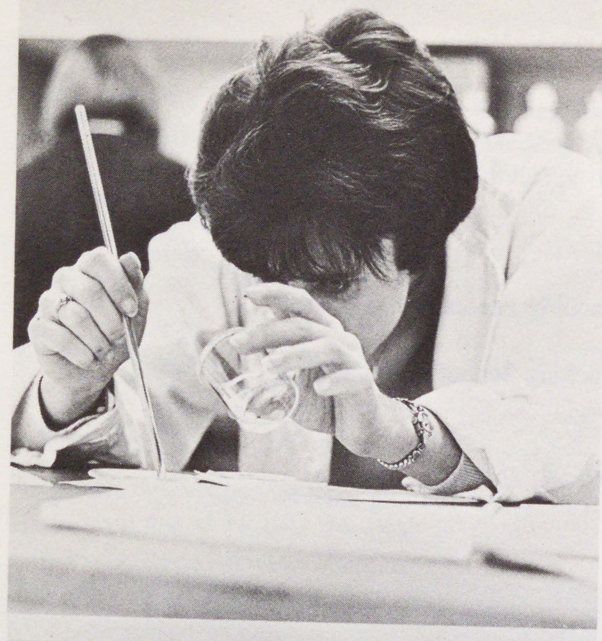
### Course Titles

FOURTH YEAR

<sup>2</sup>Any course in Art, Music, Drama or Theatre.

A black and white photograph of a classroom scene. A female teacher stands at the front, facing a class of students seated at desks. An American flag is on the left, and a chalkboard with handwritten notes is in the background. The students are seen from behind, looking towards the teacher. The chalkboard has some writing on it, including "Courage" and "6:45". The teacher is wearing a light-colored short-sleeved shirt and dark pants. The students are wearing various casual clothing. The classroom has a simple, functional appearance with wooden desks and chairs.





## APPLIED SCIENCE AND TECHNOLOGY

Applied Science and Technology includes the divisions of Home Economics Education, Industrial Arts Education and Vocational-Technical Education and the courses in Safety and Driver Education. The programs and courses offered by each division are described under the divisional headings.

A Bachelor of Science in Education degree is offered by each of the divisions and graduates are certified to teach in their area specialization in the public schools of New York State. In addition to the Education degree, the Home Economics Education Division offers a Bachelor of Science degree program with majors in Home Economics and Dietetics which is designed to meet the needs of business, and social service agencies.

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 DIVISION

### GENERAL INFORMATION

The Home Economics field is a rapidly growing area of education, creating a continuing need for Home Economists and providing opportunity for professional advancement to those prepared for it.

A new Home Economics building, Myrtle V. Caudell Hall, provides excellent laboratory facilities in the areas of food preparation and service, nutrition, selection and construction of clothing, textiles, household equipment, housing and home furnishings, and child development and family life. One wing of the building is devoted to a nursery school complete with indoor and outdoor play areas and one-way viewing rooms for observing children in action.



The college maintains an attractive, well-equipped residence, the Home Management House, located nearby where senior students live for a five-week period under faculty supervision to gain experience in the social and economic management of a home.

Students graduating from a high school or approved private secondary school in New York State, able to meet the general requirements of the College may apply for admission.

Students will need to purchase uniforms, fabrics, books and some miscellaneous supplies amounting to approximately \$130.00 per year in addition to the regular college fee.

A student, who, in any semester, desires to strengthen her professional preparation may plan a supplementary experience with her adviser for such enrichment as outlined in the supplementary experience forms, which are available in the Home Economics office.

#### BACHELOR OF SCIENCE DEGREE WITH A MAJOR IN HOME ECONOMICS EDUCATION

The Home Economics Division prepares students to teach Home Economics in the public schools of New York State. Graduates who receive a Bachelor of Science degree with a major in Home Economics Education are qualified to teach in elementary, junior high and senior high schools, and in adult education programs. A curriculum leading to the Master of Science degree is explained in the Graduate Catalog.

A provisional certificate is granted for a ten year period to graduates with a major in Home Economics Education. A permanent certificate is issued to those who finished with a approved program of thirty hours of graduate study.

Graduates who hold a Bachelor of Science degree with a major in Home Economics Education teach clothing and costume design, foods and nutrition, and management of the home and its physical equipment. They teach girls and women to care for very young children, to understand the relations between the various members of the family, to bring about happy and harmonious living within the home, to recognize the importance of beauty in clothing and in the home. The influence of Home Economics extends beyond the classroom into the community where they serve as members of civic groups and committees interested in social improvements.

Home Economics Education Majors observe and participate in teaching one semester during their junior year. In the senior year, they teach for one semester in specially selected junior-senior high schools. During this time they gain maturing experience by residing in these communities.

#### BACHELOR OF SCIENCE DEGREE WITH A MAJOR IN HOME ECONOMICS

A four year curriculum leading to the degree of Bachelor of Science with a major in Home Economics is available for the student interested in Home Economics and a broad cultural education. It permits the student to plan for a concentration in Clothing and Textiles; or Family Life; or Foods and Nutrition.

#### BACHELOR OF SCIENCE DEGREE WITH A MAJOR IN DIETETICS

A four year curriculum leading to the degree of Bachelor of Science with a major in Dietetics is available. This major serves the interest of individuals desiring to work both in food service and nutrition education. The program meets the academic requirements of the American Dietetic Association for hospital dietetics and other internships.

#### SEMESTER AT MERRILL-PALMER INSTITUTE

The Home Economics Division is affiliated with the Merrill-Palmer Institute in Detroit, Michigan. Each year two seniors during the first semester and two juniors during the second semester have the opportunity with students from many states and countries to attend this school which provides intensive work in child development, parent education, social service work, and home and family living. Students are selected to attend this school by a faculty committee; they receive full credit toward their degree for work taken.

#### ADVANCE STANDING AND CERTIFICATION

Applicants for admission to advance standing will be informed of the requirements for the degree upon evaluation of transcripts by the Registrar. A college student wishing to complete teacher certification requirements only, should send transcripts to the Bureau of Certification, State Education Department, Albany, New York, for evaluation.



# CURRICULUM REQUIREMENTS FOR B.S. DEGREE WITH A MAJOR IN HOME ECONOMICS EDUCATION

For Students Entering as of September 1964

## FIRST YEAR—Group A

Course Titles		First Semester	
		Class Hours	Credit Hours
Chem. 101	General Chemistry .....	5	3
Eng. 101	Effective Communication .....	3	3
H.Ec. 100	Introduction to Home Economics .....	1	1
H.Ec. 108	Introductory Foods and Nutrition .....	5	3
Or. 100	Orientation .....	1	0
P.Ed. 100	Physical Education Activities .....	2	1
Psych. 101	General Psychology .....	3	3
S.S. 101	Man and His Institutions .....	3	3
		23	17

Course Titles		Second Semester	
		Class Hours	Credit Hours
Chem. 104	Chemistry Applied to Home Economics .....	4	3
Eng. 102	Effective Communication .....	3	3
H.Ec. 107	Clothing .....	5	3
H.Ec. 109	Human Development and Family Relations .....	4	3
P.Ed. 100	Physical Education Activities .....	2	1
S.S. 102	Man and His Institutions .....	3	3
		21	16

## SECOND YEAR—Group A

Course Titles		First Semester	
		Class Hours	Credit Hours
Art 100	Essentials of Visual Art .....	3	3
Ed. 203	Education Psychology .....	3	3
H.Ec. 206	Family Health and Home Nursing .....	3	2
H.Ec. 207	Textiles .....	4	3
H.Ec. 209	Human Development and Family Relations .....	4	3
H.Ec. 221	Housing the Family .....	4	3
		21	17

Course Titles		Second Semester	
		Class Hours	Credit Hours
Biol. 105	Biology for Home Economics Students .....	6	4
Elective	.....	3	3
H.Ec. 208	Human Nutrition .....	4	3
H.Ec. 220	Household Equipment .....	4	3
Philosophy	To be selected .....	3	3
		20	16

## THIRD YEAR—Group A

Course Titles		First Semester	
		Class Hours	Credit Hours
Elective	.....	3	3
Literature	To be selected .....	3	3
H.Ec. 308	Science Applied to Food Preparation .....	5	3
H.Ec. 310	Economics for Consumers .....	3	3
H.Ec.Ed. 321	Methods and Materials .....	7	5
		21	17

Course Titles		Second Semester	
		Class Hours	Credit Hours
Elective	.....	3	3
Elective	.....	3	3
Literature	To be selected .....	3	3
Mathematics	To be selected .....	3	3
H.Ec. 307	Clothing, Design and Construction .....	6	3
H.Ec. 309	Human Development and Family Relations .....	2	2
		20	17

## FOURTH YEAR—Group A

Course Titles		First Semester	
		Class Hours	Credit Hours
H.Ec. 402	Home Management .....	18	3
H.Ec.Ed. 423	Student Teaching .....	20	10
		18-20	13



<i>Course Titles</i>		<i>Second Semester</i>	
		<i>Class Hours</i>	<i>Credit Hours</i>
Art 311	Design for the Individual and the Home .....	4	3
Elective .....		3	3
Elective .....		3	3
Elective .....		3	3
Hist. 301	Ideas and Social Change in Western Civilization .....	3	3
H.Ec. 309	Human Development and Family Relations .....	2	2
		18	17

#### FIRST YEAR—Group B

<i>Course Titles</i>		<i>First Semester</i>	
		<i>Class Hours</i>	<i>Credit Hours</i>
Art 100	Essentials of Visual Art .....	3	3
Chem. 101	General Chemistry .....	5	3
Eng. 101	Effective Communication .....	3	3
H.Ec. 100	Introduction to Home Economics .....	1	1
H.Ec. 107	Clothing .....	5	3
Or. 100	Orientation .....	1	0
P.Ed. 100	Physical Education Activities .....	2	1
S.S. 101	Man and His Institutions .....	3	3
		23	17

<i>Course Titles</i>		<i>Second Semester</i>	
		<i>Class Hours</i>	<i>Credit Hours</i>
Chem. 104	Chemistry Applied to Home Economics .....	4	3
Eng. 102	Effective Communication .....	3	3
H.Ec. 108	Introductory Foods and Nutrition .....	5	3
P.Ed. 100	Physical Education Activities .....	2	1
Psych. 101	General Psychology .....	3	3
S.S. 102	Man and His Institutions .....	3	3
		20	16

#### SECOND YEAR—Group B

<i>Course Titles</i>		<i>First Semester</i>	
		<i>Class Hours</i>	<i>Credit Hours</i>
Biol. 105	Biology for Home Economics Students .....	6	4

H.Ec. 109	Human Development and Family Relations .....	4	3
H.Ec. 208	Human Nutrition .....	4	3
H.Ec. 220	Household Equipment .....	4	3
Philosophy	To be selected .....	3	3
		21	16

<i>Course Titles</i>		<i>Second Semester</i>	
		<i>Class Hours</i>	<i>Credit Hours</i>
Ed. 203	Educational Psychology .....	3	3
H.Ec. 206	Family Health and Home Nursing .....	3	2
H.Ec. 207	Textiles .....	4	3
H.Ec. 209	Human Development and Family Relations .....	4	3
H.Ec. 221	Housing the Family .....	4	3
Mathematics	To be selected .....	3	3
		21	17

#### THIRD YEAR—Group B

<i>Course Titles</i>		<i>First Semester</i>	
		<i>Class Hours</i>	<i>Credit Hours</i>
Elective .....		3	3
Elective .....		3	3
Elective .....		3	3
Literature	To be selected .....	3	3
H.Ec. 307	Clothing, Design and Construction .....	6	3
H.Ec. 309	Human Development and Family Relations .....	2	2
		20	17

<i>Course Titles</i>		<i>Second Semester</i>	
		<i>Class Hours</i>	<i>Credit Hours</i>
Elective .....		3	3
Literature	To be selected .....	3	3
H.Ec. 308	Science Applied to Food Preparation .....	5	3
H.Ec. 310	Economics for Consumers .....	3	3
H.Ec.Ed. 321	Methods and Materials .....	7	5
		21	17



# FOURTH YEAR—Group B

Course Titles		First Semester	
		Class Hours	Credit Hours
Art 311	Design for the Individual and the Home .....	4	3
Elective .....		3	3
Elective .....		3	3
Elective .....		3	3
Hist. 301	Ideas and Social Change in Western Civilization .....	3	3
H.Ec. 409	Human Development and Family Relations .....	2	2
		18	17
Course Titles		Second Semester	
		Class Hours	Credit Hours
H.Ec. 402	Home Management .....	18	3
H.Ec.Ed. 423	Student Teaching .....	20	10
		18-20	13
Total Semester Credit Hours .....			130

## CURRICULUM REQUIREMENTS FOR B.S. DEGREE WITH A MAJOR IN HOME ECONOMICS

*For Students Entering as of September 1966*

### HOME ECONOMICS

Required Courses		Credit Hours
H.Ec. 100	Introduction to Home Economics .....	1
H.Ec. 107	Clothing .....	3
H.Ec. 108	Introduction to Foods and Nutrition .....	3
H.Ec. 201	Preparation for Family Living .....	3
H.Ec. 303	Economics of the Household .....	3
H.Ec. 221	Housing the Family .....	3
Twelve to fifteen hours selected from one of the following areas: 12-15		

Clothing and Textiles or Foods and Nutrition or Family Relationships & Human Development or Housing and Equipment or Consumer Economics and Management

Nine to twelve additional hours selected from Home Economics courses other than area of concentration 9-12

GENERAL EDUCATION	40
Science and/or Mathematics .....	12
Social Science .....	12
Humanities .....	12
The Arts .....	9
Elected from above areas .....	15
ELECTIVES .....	20
PHYSICAL EDUCATION .....	4
Total Semester Credit Hours .....	124

## CURRICULUM REQUIREMENTS FOR B.S. DEGREE WITH A MAJOR IN DIETETICS

*For Students Entering as of September 1966*

### PROFESSIONAL EDUCATION

Required courses		Credit Hours
H.Ec. 100	Intro. to Home Economics .....	1
H.Ec. 108	Intro. Foods and Nutrition .....	3
H.Ec. 208	Human Nutrition .....	3
H.Ec. 308	Science Applied to Food Preparation .....	3
H.Ec. 408	Adv. Nutrition .....	3
H.Ec. 410	Quantity Food Production .....	3
H.Ec. 412	Institutional Food Purchasing and Accounting .....	3
H.Ec. 415	Institutional Organization—Mgt. ....	3
H.Ec. 434	Diet Therapy .....	3
Ed. 203	Ed. Psych. ....	3
	Electives in Home Economics .....	12

40



## GENERAL EDUCATION

Science .....	20
Chemistry .....	6
Intermed. Chem. ....	4
Bio-Chemistry .....	4
Human Phys. ....	3
Bacteriology .....	3
Mathematics .....	3
Social Sciences .....	12
Humanities .....	12
The Arts .....	9
Elected from above areas .....	6
	62
ELECTIVES .....	18
PHYSICAL EDUCATION .....	4
	4
<b>TOTAL</b> .....	<b>124</b>

## HOME ECONOMICS

### For Students Entering as of September 1964

#### H.Ec. 100. INTRODUCTION TO HOME ECONOMICS

Orientation to Home Economics. Consideration of history, depth, and scope; exploration of career opportunities within the profession. *Classification:* Required of Home Economics freshmen. *Credit:* One semester hour—one class hour.

#### H.Ec. 107. CLOTHING

A course designed to help the student understand the sociological, psychological and economic aspects of clothing; recognize how color, design, texture and line are combined to create individuality; apply these principles in the solution of her own problems; and develop an understanding of some basic construction skills. *Classification:* Required of Home Economics students according to the student's curriculum. Elective with the approval of the instructor. *Credit:* Three semester hours — five class hours.

214

#### H.Ec. 108. INTRODUCTORY FOODS AND NUTRITION

Basic principles of planning, purchase, preparation, and the service management of family meals with emphasis upon nutritional aspects. Basic preparation techniques of culturally important foods in relation to science and art. *Classification:* Required of Home Economics students according to the student's curriculum. Elective with the approval of the instructor. *Credit:* Three semester hours—five class hours.

#### H.Ec. 109. HUMAN DEVELOPMENT AND FAMILY RELATIONS —CONCEPTION THROUGH THE PRE-SCHOOL YEARS

Individual development from conception through the pre-school years within the family setting. Family relationships during the beginning families; expectant phase.

childbearing and pre-school family stages of the family life cycle. *Classification:* Required of Home Economics students according to the student's curriculum. Elective with the approval of the instructor. *Prerequisite:* Psych. 101 and S.S. 101. *Credit:* Three semester hours—four class hours.

#### H.Ec. 201. PREPARATION FOR FAMILY LIVING

The family throughout the life cycle; preparation for marriage and early marriage adjustments; planning for family and family life; the family's role in a democratic society; problems in helping children mature socially, economically, emotionally, and morally; the effect of a changing social and economic order on family disorganization and reorganization. *Classification:* Required of Home Economics students according to the student's curriculum. Elective for students not majoring in Home Economics. *Credit:* Three semester hours—three class hours.

#### H.Ec. 206. FAMILY HEALTH AND HOME NURSING

Facts and procedures essential in safeguarding the health of the individual and family; laboratory work in home nursing; community agencies concerned with family health. *Classification:* Required of Home Economics students according to the student's curriculum. Elective with approval of the instructor. *Credit:* Two semester hours—three class hours.

#### H.Ec. 207. TEXTILES

A study of plant, animal and synthetic fibers and fabrics as they relate to care, use and consumer satisfaction. *Classification:* Required of Home Economics students according to the student's curriculum. *Prerequisite:* Six hours of Chemistry. *Credit:* Three semester hours —four class hours.

#### H.Ec. 208. HUMAN NUTRITION

The science of foods and nutrition in relation to health and disease, and the process by which the nutrients function in the human body. *Classification:* Required of

Home Economics students according to the student's curriculum. Elective with approval of the instructor. *Prerequisite:* Six hours of Chemistry. *Credit:* Three semester hours—four class hours.

#### H.Ec. 209. HUMAN DEVELOPMENT AND FAMILY RELATIONS —SCHOOL AGE THROUGH THE ADOLESCENT YEARS

Individual development from beginning school years through adolescence within the family setting. Family relationships of family with school-age children and with adolescent children. *Classification:* Required of Home Economics students according to the student's curriculum. *Prerequisite:* H.Ec. 109. *Credit:* Three semester hours—four class hours.

#### H.Ec. 210. CLOTHING

Problems of individual interest in textiles; clothing selection; buying, care, repair, restyling, and construction. *Classification:* Elective for students not majoring in Home Economics. *Credit:* Three semester hours—three hours per week.

#### H.Ec. 211. FOOD AND NUTRITION

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 Home Economics. *Credit:* Three semester hours—three hours per week.

#### H.Ec. 212. THE FAMILY IN SOCIETY AND CULTURE

The family against a background of history, biology, and social science; consideration of recent family theory and research from different frames of reference; historical, comparative, and institutional. *Classification:* Required of Home Economics students according to the student's curriculum. Elective for students not majoring in Home Economics. *Credit:* Three semester hours—three class hours

215



#### H.Ec. 220. HOUSEHOLD EQUIPMENT

The 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 Home Economics students according to the student's curriculum. Elective with the approval of the instructor. *Credit:* Three semester hours — four class hours.

#### H.Ec. 221. HOUSING THE FAMILY

Study of individual and family need and values in the selection of shelter; family spending patterns; design, location, fundamental equipment and furnishings of the home. *Classification:* Required of Home Economics students according to the student's curriculum. Elective with the approval of the instructor. *Prerequisite:* Three semester hours of Art. *Credit:* Three semester hours—four class hours.

#### H.Ec. 307. CLOTHING—DESIGN AND CONSTRUCTION

Creative use of commercial patterns; emphasizing principles of design, fitting and construction; terminating in finished garments. *Classification:* Required of Home Economics students according to the student's curriculum. *Prerequisite:* H.Ec. 107 and H.Ec. 207. *Credit:* Three semester hours — six class hours.

#### H.Ec. 308. SCIENCE APPLIED TO FOOD PREPARATION

Scientific principles and techniques of food preparation with specific emphasis on baked products, meats, fats, oils, and sugar cookery. Some development of experimental techniques. *Classification:* Required of Home Economics students according to the student's curriculum. *Prerequisites:* H.Ec. 108 and H.Ec. 208. *Credit:* Three semester hours — five class hours.

#### H.Ec. 309. HUMAN DEVELOPMENT AND FAMILY RELATIONS—YOUNG ADULT THROUGH OLD AGE

Individual development from maturity

through aging. Family relationships through the families as launching centers, families in the middle years, and aging stages of the family life cycle. *Classification:* Required of Home Economics students according to the student's curriculum. *Prerequisites:* H.Ec. 209 or Ed. 101-102 and S.S. 101-102. *Credit:* Two semester hours—two class hours.

#### H.Ec. 310. ECONOMICS FOR CONSUMERS

Personal and family financial planning in relation to economic conditions; current problems of consumers; evaluation of aids for consumers. *Classification:* Required of Home Economics students according to the student's curriculum. Elective with the approval of the instructor. *Credit:* Three semester hours—three class hours.

#### H.Ec.Ed. 321. METHODS AND MATERIALS

Aspects of curriculum in both general and home economics education; principles of learning, teaching, evaluating; techniques in selecting, organizing, and using instructional materials; observation and participation in selected schools. *Classification:* Required of Home Economics students according to the student's curriculum. *Prerequisite:* Cumulative and pre-semester average of "C" and Ed. 203. *Credit:* Five semester hours—seven class hours.

#### H.Ec. 402. HOME MANAGEMENT

Principles of effective home management and their application in a living situation. Residence in the home management house for a five-week period. Students defray own expenses. Emphasis is 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 seniors. *Prerequisite:* H.Ec. 208 and H.Ec. 310. *Credit:* Three semester hours—eighteen class hours for  $\frac{1}{3}$  of semester. *Special Note:* May be elected by graduate students.

#### H.Ec. 408. ADVANCED NUTRITION

Modern concepts of normal nutrition as they relate to energy metabolism, protein, fats, minerals and vitamins. Emphasis on use of professional literature for application to human nutrition problems, methods used in studying nutrition and experience in interpretation of scientific reports. *Classification:* Required of Dietetics Majors. Elective by permission. *Prerequisite:* H.Ec. 208, Biochemistry or permission of the instructor. *Credit:* Three semester hours — three class hours.

#### H.Ec. 409. HUMAN DEVELOPMENT AND FAMILY RELATIONS—THE INDIVIDUAL AND FAMILY IN SOCIETY AND CULTURE

Historical and comparative study of American and world families. Cultural and social variation in family organization, community relationships, and family and child-rearing practices. *Classification:* Required of Home Economics students according to the student's curriculum. Elective with the approval of the instructor. *Prerequisite:* H.Ec. 309 or Ed. 101-102 and S.S. 101-102. *Credit:* Two semester hours — two class hours. *Special Note:* May be elected by graduate students.

#### H.Ec. 410. QUANTITY FOOD PRODUCTION

Experience in application of food preparation principles to quantity production; menu planning; use and care of large equipment; standardized formulae and costs; service to the public. *Classification:* Required of Dietetics Majors. Elective by permission. *Prerequisite:* H.Ec. 308. *Credit:* Three semester hours—one lecture hour, laboratory hours to be arranged in a supervised food service.

#### H.Ec. 412. INSTITUTIONAL FOOD PURCHASING AND ACCOUNTING

Principles and standards for selection of food, equipment, and furnishings in institution food service, arrangement and layout. Use of basic accounting principles underlying financial statements. *Classification:* Required of Dietetics Majors. Elective by permission. *Prerequisite:* H.Ec. 410. *Credit:* Three semester hours — three class hours.

#### H.Ec. 415. INSTITUTIONAL ORGANIZATION AND MANAGEMENT

Organization, financial control and personnel management for institution food departments. *Classification:* Required of Dietetics Majors. Elective by permission. *Prerequisite:* H.Ec. 410, 412. *Credit:* Three semester hours—three class hours.

#### H.Ec. 420. HOUSING AND THE COMMUNITY

Study of the housing supply, needs, and research related to the area. The place of government in the housing; housing design, urban renewal, community controls. *Classification:* Elective for Home Economics students; others by permission of the instructor. *Prerequisite:* H.Ec. 221. *Credit:* Three semester hours—three class hours. *Special Note:* May be elected by graduate students.

#### H.Ec. Ed. 423. STUDENT TEACHING

Student teaching experience in the New York State program for home economics education; teaching experience required in two cooperating schools; on-campus work periods for consideration of problems in teaching; teacher ethics, placement and professional advancement, graduate programs. *Classification:* Required of Home Economics Education seniors; others by permission of instructor. *Prerequisite:* H.Ec. Ed. 321 with a grade of "C" or higher; cumulative average of "C" or higher in college courses. *Credit:* Ten semester hours—twenty class hours per week for  $\frac{2}{3}$  of the semester.

#### H.Ec. 424. ADULT EXPERIENCE IN HOME ECONOMICS

An introductory course in adult experience in Home Economics. Consideration of the nature, scope, organizational procedures,



methods, materials for teaching adults and out-of-school youth. *Classification:* Elective for Home Economics Education majors; others by permission of instructor. *Prerequisite:* H.Ec. 309. *Credit:* Three semester hours—three class hours.

#### H.Ec. 425. ADVANCED CLOTHING

Application of principles of costume selection, design and advanced construction technique. *Classification:* Elective for Home Economics majors; others by permission of instructor. *Prerequisite:* H.Ec. 307. *Credit:* Three semester hours—five hours per week. *Special Note:* May be elected by graduate students.

#### H.Ec. 426. FOOD DEMONSTRATION AND MEALS FOR LARGER THAN FAMILY GROUPS

Techniques of demonstrations related to food preparation and nutrition; preparation and service for special occasions and groups other than family size; education program in school lunch, readings in nutrition. *Classification:* Elective for Home Economics majors; other by permission of instructor. *Prerequisite:* H.Ec. 308. *Credit:* Three semester hours—five class hours. *Special Note:* May be elected by graduate students.

#### H.Ec. 427. DRAPING AND FLAT PATTERN DESIGN

Alteration of patterns to adapt them to individual needs; designing and modeling garments, using draping and flat pattern methods. *Classification:* Elective for Home Economics majors; others by permission of instructor. *Prerequisite:* H.Ec. 307. *Credit:* Three semester hours—five class hours. *Special Note:* May be elected by graduate students.

#### H.Ec. 428. MEAL MANAGEMENT

Family meal planning, preparation, and service in relation to consumer economics, current nutrition knowledge, time and energy management, aesthetic considerations, and regional, racial and religious food customs. *Classification:* Elective for Home

Economics majors; others by permission of instructor. *Prerequisite:* H.Ec. 308. *Credit:* Three semester hours—five class hours. *Special Note:* May be elected by graduate students.

#### H.Ec. 429. HOME ECONOMICS AND INTERNATIONAL EDUCATION

An exploratory course to increase understanding of the role of Home Economics in world-wide 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 as sponsored by colleges and universities in the United States. Consideration of opportunities for service abroad by home economics. *Classification:* Elective for Home Economics seniors and juniors; other by permission of instructor. *Credit:* Three semester hours—three class hours. *Special Note:* May be elected by graduate students.

#### H.Ec. 430. ISSUES OF THE MODERN AMERICAN FAMILY

Current educational, psychological and social issues and concerns of the modern American family examined and related to changing cultural values. *Classification:* Elective for Home Economics students and for students in other divisions by permission of instructor. *Credit:* Three semester hours—three class hours. *Special Note:* May be elected by graduate students.

#### H.Ec. 431. FURNISHING THE HOUSE

Study of home environment by individual and family needs and values; selection, arrangement, care and use of home furnishings and decorations. *Classification:* Elective for Home Economics students; others by permission of the instructor. *Prerequisite:* H.Ec. 221. *Credit:* Three semester hours—Four class hours. *Special Note:* May be elected by graduate students.

#### H.Ec. 434. DIET THERAPY

Modern concepts of clinical nutrition and

abnormalities treated by modification of the diet. *Classification:* Required of Dietetics Majors, Elective by permission. *Prerequisite:* H.Ec. 408. *Credit:* Three semester hours—three class hours.

#### H.Ec. 495. INDEPENDENT PROJECT OR STUDY

An individual undertaking by a student under the guidance of a faculty member;

### HOME ECONOMICS

*For Students Entering Prior to September 1964*  
(See the 1963-64 General Catalog)

#### H.Ec. 401. HOME MANAGEMENT

Five-week study of home living and home management problems; decision making in relation to the use of time, energy, money and material goods; group social and recreational life; work with community organizations; supplementary experiences to meet needs of individual students. Students defray own expenses. *Classification:* Required of Home Economics seniors. *Prerequisite:* H.Ec. 205 and 303. *Credit:* Four semester hours—twenty hours per week.

#### H.Ec. 405. HOUSEHOLD EQUIPMENT

Selection, management, use and care of household equipment; problems of equipment with respect to economy, efficiency, safety and home living; management of family resources. *Classification:* Required of Home Economics seniors. *Credit:* Three semester hours—four hours per week.

#### H.Ec. 407. HOUSING AND HOME PLANNING

Relation of housing to family and community welfare; standards of family housing; cost of housing in urban and rural areas, selection, construction, and renovation of furnishing for homes. *Classification:* Required of Home Economics seniors. *Prerequisite:* Art 312, H.Ed. 303. *Credit:* Four semester hours—five hours per week.

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. *Credit:* One to six semester hours. *Special Note:* Requires the recommendation of faculty adviser, the faculty member related to the area of the project, who agrees to supervise the project, and approval of the Division Director.

#### H.Ec. 421. TEACHING PRACTICUM

Experience in the New York State program for homemaking education and its adaption to local situations; teaching experience required in two cooperating schools; residence required in school community during student teaching; students defray own travel and residence expenses; student teacher shares in responsibilities of the teacher; group and individual conferences required of all student teachers. *Classification:* Required of Home Economics seniors. *Prerequisite:* H.Ec. 323 with a grade of C or higher; cumulative average of C or higher in college courses. *Credit:* Nine semester hours—twenty hours per week.

#### H.Ec. 422. SENIOR SEMINAR

Consideration of current issues affecting homemaking teachers and homemaking education; legal aspects of teaching; professional organizations, teacher ethics, placement and professional advancement, graduate programs. *Classification:* Required of Home Economics seniors. *Credit:* No credit—one class hour.



H.Ec. 495. SPECIAL PROBLEMS IN  
HOME ECONOMICS

Independent advanced study, or special arrangement of course work necessitated by previous preparation, in one or more areas of Home Economics. Students must have the recommendation of faculty adviser, approval of the Division Director, and permission of the instructor. *Classification:* Junior or senior standing. *Credit:* One to six hours — class hours to be arranged.



## INDUSTRIAL ARTS EDUCATION DIVISION

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

The curriculum deals with the tools, materials, processes, products and occupations of the principal industries. Basic courses are required in drafting, metal, textiles, graphic arts, electricity, wood, ceramics, plastics and transportation; advanced elective courses permit concentration in two or more areas.

The professional phase of the curriculum include courses in psychology; teaching methods, a period of observation of teaching, and two nine-week periods of student teaching in selected schools.

The influence of industry on American life has added increased importance to the teaching of Industrial Arts. Graduates teach students in the public schools about industry: how it is organized; how it operates; its tools, materials, processes, products, occupations and the problems of life it creates. Industrial Arts teachers inform students regarding the intelligent use of industrial goods and services, and help many of them select careers and aid others to develop wholesome recreational pursuits.

Many 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 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

Students entering as freshmen prior to September 1, 1965, should refer to the 1964-65 General Catalog for the course listings by years of the curriculum.

Students entering September 1, 1965, and thereafter, will follow the year by year source sequence as listed below.

### FIRST YEAR

Course Titles	First Semester		Second Semester	
	Class	Credit	Class	Credit
	Hours	Hours	Hours	Hours
Or. 100 Orientation .....	1	0	—	—
Chem. 101 General Chemistry .....	5	3	—	—
Eng. 101 Effective Communication .....	3	3	—	—
I.A. 103 Technical Drawing .....	5	2	—	—
I.A. 106 Metalwork .....	8	3	—	—
Math. 102 General Mathematics .....	3	3	—	—
Phil. 104 Ways of Knowing .....	3	3	—	—
Chem. 102 General Chemistry .....	—	—	5	3
Eng. 102 Effective Communication .....	—	—	3	3
I.A. 102 Woodworking .....	—	—	8	3
I.A. 104 Technical Drawing .....	—	—	5	2
I.A. 111 Introduction to Industrial Arts Education .....	—	—	3	2
Math. 104 Applied Mathematics .....	—	—	3	3
P.Ed. 100 Physical Education Activities .....	—	—	2	1
Total Hours .....	28	17	29	17

### SECOND YEAR

Course Titles	First Semester		Second Semester	
	Class	Credit	Class	Credit
	Hours	Hours	Hours	Hours
Art 111 Essentials of Design .....	5	2	—	—
I.A. 203 Electronics .....	8	3	—	—
I.A. 204 Technical Drawing and Planning for Production .....	5	2	—	—
I.A. 206 Ceramics .....	8	3	—	—
Phy. 101 General Physics .....	4	3	—	—
Psy. 101 General Psychology .....	3	3	—	—
Art 112 Applied Design .....	—	—	5	2

Ed. 203 Educational Psychology .....	—	—	4	3
I.A. 208 Graphic Arts .....	—	—	4	1½
I.A. 209 Graphic Arts .....	—	—	4	1½
I.A. 302 Transportation—Power .....	—	—	8	3
P.Ed. 100 Physical Education Activities .....	—	—	2	1
Phy. 102 General Physics .....	—	—	4	3
Total Hours .....	33	16	31	15

### Division A Junior Teaching Section

### THIRD YEAR

Course Titles	First Semester		Second Semester	
	Class	Credit	Class	Credit
	Hours	Hours	Hours	Hours
Advanced Lab. ....	5	2	—	—
Eng. 301 Ideas of Man and His World in Literature .....	3	3	—	—
I.A. 207 Textile Technology .....	8	3	—	—
I.A. 303 Plastics Technology .....	8	3	—	—
I.A. 306 Principles and Practices of Industrial Arts .....	6	3	—	—
S.S. 101 Man and His Institutions .....	3	3	—	—
FIRST NINE WEEKS	—	—	30	7
I.A. 310 Student Teaching .....	—	—	30	8
SECOND NINE WEEKS	—	—	30	15
I.A. 411 Student Teaching .....	—	—	30	15
Total Hours .....	33	17	30	15

### FOURTH YEAR

Course Titles	First Semester		Second Semester	
	Class	Credit	Class	Credit
	Hours	Hours	Hours	Hours
Advanced Lab. ....	7	3	—	—
Advanced Lab. ....	7	3	—	—
Electives .....	4	4	—	—
I.A. 412 Laboratory in Industrial Arts Teaching ...	7	3	—	—
S.S. 102 Man and His Institutions .....	3	3	—	—
Advanced Lab. ....	—	—	7	3
Advanced Lab. ....	—	—	7	3



Art 315	Design	-	-	5	2
Electives		-	-	3	3
Eng. 302	Ideas of Man and His World in Literature	-	-	3	3
Soc. Studies		-	-	3	3
Total Hours		28	16	28	17
Total Semester Credit Hours					130

### Division B Junior Teaching Section

#### THIRD YEAR

Course Titles		First Semester Class Credit Hours Hours		Second Semester Class Credit Hours Hours	
Advanced Lab.		7	3	-	-
Advanced Lab.		7	3	-	-
Art. 315	Design	5	2	-	-
Elective		3	3	-	-
Eng. 301	Ideas of Man and His World in Literature	3	3	-	-
S.S. 101	Man and His Institutions	3	3	-	-
Advanced Lab.		-	-	5	2
Eng. 302	Ideas of Man and His World in Literature	-	-	3	3
I.A. 207	Textile Technology	-	-	8	3
I.A. 303	Plastics Technology	-	-	8	3
I.A. 306	Principles and Practices of Industrial Arts	-	-	6	3
S.S. 102	Man and His Institutions	-	-	3	3
Total Hours		28	17	33	17

#### FOURTH YEAR

Course Titles	First Semester		Second Semester	
	Class Hours	Credit Hours	Class Hours	Credit Hours
FIRST NINE WEEKS				
I.A. 310     Student Teaching .....	30	7	—	—

#### SECOND NINE WEEKS

I.A. 411	Student Teaching	30	8	-	-
Advanced Lab.		-	-	7	3
Advanced Lab.		-	-	7	3
Elective		-	-	4	4
I.A. 421	Laboratory in Industrial Arts Teaching	-	-	7	3
Soc. Studies		-	-	3	3
Total Hours		30	15	28	16
Total Semester Credit Hours					130

#### INDUSTRIAL ARTS

##### I.A. 102. INTRODUCTION TO WOOD TECHNOLOGY

Basic operations and processes in the use of hand tools and power equipment; elements of good design; correct construction techniques; suitable wood finishing methods; understanding of industrial practices; student planning; care and maintenance of equipment; analysis of materials. *Classification:* Required of Industrial Arts Freshmen. *Credit:* Three semester hours — eight class hours.

##### I.A. 103. TECHNICAL DRAWING

Graphic communication — emphasizing spatial visualization and technique through sketching and use of instruments, shape and size description, multiview projection, auxiliaries, rotations, and pictorial drawings. *Classification:* Required of Industrial Arts Freshmen. *Credit:* Two semester hours — five class hours.

##### I.A. 104. TECHNICAL DRAWING

Drafting conventions and standards; graphic representations and solutions; sectional views, developments, intersections, threads, fasteners, springs, cams, gears, charts and graphs, slide rule. *Classification:* Required of Industrial Arts Freshmen. *Credit:* Two semester hours — five class hours.

##### I.A. 204. TECHNICAL DRAWING AND PLANNING FOR PRODUCTION

Idea development, sketching, product design, working drawings, reproductions, manufacturing processes and operations, elements of jig and fixture design, inspection gages, cost analysis, sales and servicing illustrations, and drafting room procedures. *Classification:* Required of Industrial Arts Sophomores. *Prerequisite:* I.A. 103 and I.A. 104. *Credit:* Two semester hours—five class hours.

##### I.A. 206. INTRODUCTION TO THE CERAMIC INDUSTRIES

Introduction to industries that employ an incandescent heat treatment to inorganic-nonmetallic raw materials, such as: Minerals — rocks and stone, Lime, Gypsum, Cement and Concrete, Structural Clay Products, Whitewares, Glass, Glazes, Enamels, Refractories, Abrasives, Carbon. *Classification:* Required of Industrial Arts Sophomores. *Credit:* Three semester hours—eight class hours.

##### I.A. 207. TEXTILES

Fibers, processes and products of the textile industry; weaving, dyeing; surface treatment; and finishing of fabrics. *Classification:* Required of Industrial Arts Juniors; elective for others. *Credit:* Three semester hours—eight class hours.



I.A. 106. INTRODUCTORY METAL WORKING

Fundamentals of forging, foundry, sheet-metal, oxyacetylene welding and brazing, wrought iron, heat treatment, and bench work. Machine tool operations to include lathe work, band sawing, and drill press. Related lessons in metals technology. *Classification:* Required of Industrial Arts Freshmen. *Credit:* Three semester hours — eight class hours.

I.A. 111. INTRODUCTION TO INDUSTRIAL ARTS EDUCATION

Purposes of education; Industrial Arts in general education; teaching Industrial Arts; philosophy and objectives; characteristics needed for teaching. *Classification:* Required of Industrial Arts Freshmen. *Credit:* Two semester hours — three class hours.

I.A. 203. BASIC ELECTRONICS

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. *Classification:* Required of Industrial Arts Sophomores. *Credit:* Three semester hours — seven class hours.

I.A. 208. OFFSET LITHOGRAPHY

Layout and copy preparation, general and process photography, photo-offset platemaking, offset litho presswork, screen process printing, duplicating methods and gravure printing. *Classification:* Required of Industrial Arts Sophomores. *Credit:* One and one-half semester hours — four class hours. *Special Note:* I.A. 208 and I.A. 209 should be taken concurrently.

I.A. 209. LETTERPRESS

Relief printing, typographic layout and design, type composition, imposition and presswork, bindery, autographic platemaking, paper and papermaking. *Classification:* Required of Industrial Arts Sophomores. *Credit:* One and one-half semester

hours—four class hours. *Special Note:* I.A. 208 and I.A. 209 should be taken concurrently.

I.A. 302. POWER AND TRANSPORTATION

Principles of operation, design and function of power and transportation devices; types of stationary and mobile power plants, vehicles, and craft and their function in our industrial society. *Classification:* Required of Industrial Arts Sophomores. *Credit:* Three semester hours — eight class hours.

I.A. 303. PLASTICS TECHNOLOGY

Fundamentals of injection, compression, transfer, rubber, and blow molding; heat sealing; vacuum forming; casting and spraying of foams; welding of plastics; properties of polymers and elastomers; mold construction. *Classification:* Required of Industrial Arts Juniors. *Credit:* Three semester hours — eight class hours.

I.A. 305. CREATIVE ARTS FOR MENTALLY RETARDED CHILDREN

Experiences in creative arts and crafts and elementary industrial arts for children who present exceptional problems of learning; techniques in preparing handicapped children for occupations through activities in industrial arts; job analyses and occupational guidance of exceptional children. *Classification:* Elective for Exceptional Education majors. *Credit:* Three semester hours — four class hours.

I.A. 306. PRINCIPLES AND PRACTICES OF INDUSTRIAL ARTS

Preparation for student teaching; study of characteristics of good teachers, methods of teaching, organizing instructional material, lesson planning, teaching, visual aids, behavior and discipline problems, objective test construction and study of Student Teacher Guide. *Classification:* Required of Industrial Arts Juniors. *Prerequisite:* I.A. 111, Psy. 101, Ed. 203. *Credit:* Three semester hours—six class hours.

I.A. 307. TECHNICAL DRAWING AND GRAPHICS

Advanced study in technical sketching, graphics, working drawing, design drafting in selected areas of technology, reproductions, and contemporary drafting practices. *Classification:* Elective for Industrial Arts students. *Prerequisite:* I.A. 103, I.A. 104, and I.A. 204. *Credit:* Two semester hours—five class hours.

I.A. 308. TEXTILES

Advanced work in textile design, fiber preparation, dyeing, weaving, and surface decoration; textile testing, both physical and chemical. *Classification:* Elective for Industrial Arts students. *Prerequisite:* I.A. 207. *Credit:* Three semester hours—seven class hours.

I.A. 309. ADVANCED UNIT CONSTRUCTION IN WOOD

Advanced study and experience in use of woodworking machines by planning and constructing furniture; study in use of woods, adhesives, and finishes; introduction to upholstery techniques. *Classification:* Elective for Industrial Arts Juniors and Seniors. *Prerequisite:* I.A. 102. *Credit:* Three semester hours—seven class hours.

I.A. 310. STUDENT TEACHING AND CONFERENCE

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 Industrial Arts curriculum, cumulative average of 2.00 or higher. Cumulative average in Industrial Arts courses of 2.00 or higher, I.A. 306. *Credit:* Seven semester hours—nine weeks.

I.A. 313. ELECTRONICS-RADIO

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 Industrial Arts students. *Prerequisite:* I.A. 203. *Credit:* Three semester hours—seven class hours.

I.A. 314. MACHINE TOOL TECHNOLOGY

Introductory experiences on machine tools not covered in I.A. 106; horizontal mill, vertical mill, shaper, surface grinder, tool and cutter grinder, and advanced lathe and band saw work. Introductory physical and mechanical metallurgy. *Classification:* Elective for Industrial Arts students. *Prerequisite:* I.A. 106. *Credit:* Three semester hours — seven class hours.

I.A. 315. MANUFACTURING PROCESSES OF THE CERAMIC INDUSTRIES

Continuation in depth of the major ceramic industries introduced in I.A. 206; emphasis on processes; crushing, grinding, polishing, pressing, drawing, extruding, screening, milling, blending, casting, annealing, firing, sand-blasting, and sawing. *Classification:* Elective for Industrial Arts students and others with appropriate background. *Prerequisite:* I.A. 206. *Credit:* Three semester hours—seven class hours.

I.A. 316. POWER TECHNOLOGY

Principles of operation, design, function of power systems employing various types of engines; mechanisms in development, transmission and control of power, dynamic analysis of specific units and their application. *Classification:* Elective for Industrial Arts students. *Prerequisite:* I.A. 302. *Credit:* Three semester hours—seven class hours.

I.A. 318. METAL FORMING TECHNOLOGY

Advanced study of metal working processes; casting, shaping, welding, forging and finishing techniques; emphasis on individual experiences in contemporary metalworking technology. *Classification:* Elective for Industrial Arts students. *Prerequisite:* I.A. 106.



*Credit:* Three semester hours—seven class hours.

#### I.A. 401. INDUSTRIAL ARTS FOR THE ELEMENTARY SCHOOL

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 Industrial Arts. *Credit:* Three semester hours—four class hours.

#### I.A. 402. GRAPHIC REPRODUCTION PROCESSES

The photomechanical processes as related to offset lithography, screen process printing and gravure printing. *Classification:* Elective for Industrial Arts students. *Prerequisite:* I.A. 208 and I.A. 209. *Credit:* Three semester hours—seven class hours. *Special Note:* May be elected by graduate students.

#### I.A. 403. PLASTICS TECHNOLOGY

Materials testing, identification and application; analysis of polymers; correlation between the packaging industry and the plastics industry; research techniques applicable to the field of thermoplastics. *Classification:* Elective for Industrial Arts students. *Prerequisite:* I.A. 303 Plastics Technology or equivalent. *Credit:* Three semester hours—seven class hours. *Special Note:* May be elected by graduate students.

#### I.A. 406. PRODUCTION AND RESEARCH IN THE FOREST PRODUCTS INDUSTRIES

Mass production; maintenance of wood-working machinery; tools, processes, construction and materials in veneering, laminating and bending; planning and development of patterns; industrial finishes and finishing techniques. *Classification:* Elective for Industrial Arts students. *Prerequisite:* I.A. 102 and I.A. 309. *Credit:* Three semester hours—seven class hours. *Special Note:* May be elected by graduate students.

#### I.A. 407. ARCHITECTURAL DRAWING

Locations, restrictions, building codes, facilities, floor plans, elevations, and specifications of structures; materials, equipment, and methods of construction. *Classification:* Elective for Industrial Arts students. *Prerequisite:* I.A. 103, I.A. 104, and I.A. 204. *Credit:* Two semester hours—five class hours. *Special Note:* May be elected by graduate students.

#### I.A. 409. ELECTRONIC INSTRUMENTATION

Circuit analysis, electronic instrumentation, and electronics techniques. Provides advanced study of electrical and electronic instruments and equipment. The application of instrumentation for demonstration techniques in the electrical or electronics field. *Classification:* Elective for Industrial Arts students. *Prerequisite:* I.A. 203 and I.A. 313. *Credit:* Three semester hours—seven class hours. *Special Note:* May be elected by graduate students.

#### I.A. 411. STUDENT TEACHING AND CONFERENCE

Full-time assignment in junior or senior high schools 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 Industrial Arts students. *Prerequisite:* Senior standing in Industrial Arts curriculum, cumulative average of 2.00 or higher, cumulative average in Industrial Arts courses of 2.00 or higher. I.A. 306, I.A. 310. *Credit:* Eight semester hours—nine weeks.

#### I.A. 412. LABORATORY OF INDUSTRIAL ARTS TEACHING

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 Industrial Arts Seniors. *Prerequisite:* I.A. 310 and I.A. 411. *Credit:* Three semester hours—seven class hours.

#### I.A. 417. DESCRIPTIVE GEOMETRY

Solutions of space problems involving points, lines, and planes. Surface developments and intersections, conic sections, vector geometry, and practical applications. *Classification:* Elective for Industrial Arts and all college students. *Credit:* Two semester hours—five class hours. *Special Note:* May be elected by graduate students.

#### I.A. 418. RESEARCH AND EXPERIMENTATION IN METAL TECHNOLOGY

Extend experience of previous prerequisite courses and operation of pantograph milling machine, introduction into production techniques. Introductory metallurgy in area of testing physical and mechanical properties of metals. Experimental and creative approach to development of teaching about new technologies. *Classification:* Elective for Industrial Arts students. *Prerequisite:* I.A. 106 and I.A. 314 or 318. *Credit:* Three semester hours—seven class hours. *Special Note:* May be elected by graduate students.

#### I.A. 419. ELECTRONICS FREQUENCY MODULATION

Frequency modulation principles, multiplex systems, FM television and high frequency transistor circuits, use of electronic instruments through laboratory work with high frequency and FM systems. Elective for Industrial Arts majors and others by permission of the professor offering the course. *Classification:* Elective for Industrial Arts students. *Prerequisite:* I.A. 203 and I.A. 313. *Credit:* Three semester hours—seven class hours. *Special Note:* May be elected by graduate students.



#### I.A. 423. THE INDUSTRIAL ARTS CONSULTANT IN THE ELEMENTARY SCHOOL

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 Industrial Arts. *Credit:* Three semester hours—seven class hours. *Special Note:* May be elected by graduate students.

#### I.A. 427. GRAPHIC SOLUTIONS

Graphical methods for presentations of data, analysis of data, and computation; charts, graphs, diagrams, functional scales, nomography, empirical equations, and graphic calculus. *Classification:* Elective for Industrial Arts and all college students. *Credit:* Two semester hours — five class hours. *Special Note:* May be elected by graduate students.

#### I.A. 495. INDEPENDENT PROJECT OR STUDY

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. *Credit:* One to six semester hours. *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.



## VOCATIONAL TECHNICAL EDUCATION DIVISION

The Vocational Technical Education Division offers programs of studies leading to:

1. Basic Teacher Certification
2. Bachelor of Science Degree
3. Master of Science Degree

The basic certificate program prepares accepted candidates to teach Vocational Trade Shop, Related Trade Subjects, Technical Subjects and 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 to teach in day, evening, extension and apprenticeship programs in accordance with Regulations of the Commissioner of Education.

Admission to the program is on a selective basis in accordance with the requirements of the State Education Department. An Admissions Committee selects candidates from among applicants according to trade and technical proficiency, personal qualification, scores on aptitude tests, and the probable need for teachers in each vocational technical area.

The Bachelor of Science Degree program is designed for Vocational Technical teachers to further meet certification requirements and to extend their original certification to include other subjects and areas of instruction. The curriculum includes professional courses designed to:

1. Provide orientation to the field of education in general and to vocational and technical education specifically.
2. Assist prospective vocational technical teachers in organizing their knowledge and skill for teaching.
3. Provide an understanding and skill in the methods and techniques of teaching Vocational Technical Subjects.
4. Develop the ability to organize and manage a school shop or laboratory.
5. Provide an opportunity for practice teaching under supervision.
6. Describe the basic concepts of how people learn, the characteristics of students, and the guidance functions of Vocational Technical teachers.
7. Aid prospective Vocational Technical teachers to progress in the profession.

The Master of Science Degree program will qualify candidates for principal, supervisor and administrator certificates in Vocational Technical Education. The requirements for this degree are explained in the graduate catalog.

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

## VOCATIONAL TECHNICAL EDUCATION CURRICULUM

Course Titles	Credit Hours
V.T. 100 Applied Skill and Technical Information	30
V.T. 200 Introduction to Vocational Education	2
V.T. 201 Trade Analysis and Course Organization	2
V.T. 202 Trade Analysis and Course Organization	2
V.T. 203 Educational Psychology	2
V.T. 204 Methods of Teaching Vocational Technical Subjects	2
V.T. 205 Methods of Teaching Vocational Technical Subjects	2
V.T. 206 Shop Organization and Management	2
V.T. 207 Use of Instructional Materials	2
V.T. 208 Vocational and Educational Guidance	2
V.T. 209 Audio-visual Materials and Devices	2
V.T. 210 Audio-visual Materials and Devices	2
V.T. 211 Evaluation of Instruction	2
V.T. 212 Practice Teaching and Observation	2
V.T. 213 Practice Teaching and Observation	2
V.T. 214 Professional Development Seminar	2
V.T. 215 Professional Development Seminar	3
Eng. 101 Effective Communication	3
Eng. 102 Effective Communication	3
Eng. 301 Ideas of Man and His World in Literature or equivalent	3
S.S. 101 Man and His Institutions	3
S.S. 102 Man and His Institutions	2
Phil. 104 Ways of Knowing	3
Mus. 101 Essentials of Music	3
Art 200 Essentials of Art	2
H.Ed. 204 Personal and Community Health	6
Science	2
Math. 103 Mathematics and Modern Life	4
Mathematics	2
V.T. 401 Mechanical Drawing	2
V.T. 402 Mechanical Drawing	4-6
V.T. 495 Independent Study-Project or special technical courses	21-23
Electives	130
Total Semester Credit Hours	

Continuous advisement by members of the Vocational Technical Education Division is recommended for candidates in this program of study.



## VOCATIONAL TECHNICAL

### V.T. 100. APPLIED SKILL AND TECHNICAL INFORMATION

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 admissions requirements for the Basic Vocational Technical Teacher Education Program.) These credits are acceptable only after the Basic Vocational Technical Teacher Education Program has been completed and requirements for permanent certification have been met. *Credit:* Thirty semester hours.

### V.T. 200. INTRODUCTION TO VOCATIONAL TECHNICAL EDUCATION

Objectives of general and vocational 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. *Credit:* Two semester hours—two class hours.

### V.T. 201. TRADE ANALYSIS AND COURSE ORGANIZATION

Techniques of analyzing a trade for 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. *Credit:* Two semester hours—two class hours.

### V.T. 202. TRADE ANALYSIS AND COURSE ORGANIZATION

A continuation of V.T. 201. *Prerequisite:* V.T. 201. *Credit:* Two semester hours—two class hours.

### V.T. 203. EDUCATIONAL PSYCHOLOGY

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. *Credit:* Two semester hours—two class hours.

### V.T. 204. METHODS OF TEACHING VOCATIONAL SUBJECTS

Basic principles and methods of teaching vocational subjects. Prepares the craftsman, technician, or engineer to effectively impart his knowledge to the learner. *Credit:* Two semester hours—two class hours.

### V.T. 205. METHODS OF TEACHING VOCATIONAL SUBJECTS

A continuation of V.T. 204. *Prerequisite:* V.T. 204. *Credit:* Two semester hours—two class hours.

### V.T. 206. SHOP ORGANIZATION AND MANAGEMENT

Emphasizing the many factors essential to success in the teaching profession. Includes the various planning, supervisory and managerial phases of the vocational teacher's position. *Credit:* Two semester hours—two class hours.

### V.T. 207. USE OF INSTRUCTIONAL MATERIALS

Various media for planned meaningful class and student activities. Copyrighted, instructor, student and commercially prepared materials considered, including newer Educational Developments, General Sources. Criteria and Evaluation will be explored and developed for teacher usage. *Credit:* Two semester hours—two class hours.

### V.T. 208. VOCATIONAL AND EDUCATIONAL GUIDANCE

Aims, principles and scope of guidance as a pupil personnel service of value to both pupils and teachers; guidance as an integral part of the educational process; a cross-section of the elements of guidance and the function of the teacher in a well-organized guidance program. *Credit:* Two semester hours—two class hours.

### V.T. 209. AUDIO-VISUAL MATERIALS AND DEVICES

Clear concept of the educational need and value of audio-visual materials in vocational technical subjects. Produce materials which lend themselves to simple construction; become acquainted with commercial audio-visual materials; establish evaluation procedures and record keeping for use with materials and equipment. *Credit:* Two semester hours—two class hours.

### V.T. 210. AUDIO-VISUAL MATERIALS AND DEVICES

A continuation of V.T. 209. *Prerequisite:* V.T. 209. *Credit:* Two semester hours—two class hours.

### V.T. 211. EVALUATION OF INSTRUCTION

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. *Credit:* Two semester hours—two class hours.

### V.T. 212. PRACTICE TEACHING AND OBSERVATION

Supervised observations of vocational technical classes and practice in specially selected, approved vocational schools. Conference and reports based upon teaching assignments will be required. *Credit:* Two semester hours—two class hours.

### V.T. 213. PRACTICE TEACHING AND OBSERVATION

A continuation of V.T. 212. *Prerequisite:* V.T. 212. *Credit:* Two semester hours—two class hours.

### V.T. 214. PROFESSIONAL DEVELOPMENT SEMINAR

To develop the abilities and competencies of teachers and analyze and discuss the problems and activities which confront teachers. *Credit:* Two semester hours—two class hours.

### V.T. 215. PROFESSIONAL DEVELOPMENT SEMINAR

A continuation of V.T. 214. *Prerequisite:* V.T. 214. *Credit:* Two semester hours—two class hours.

### V.T. 401. MECHANICAL DRAWING

Techniques of drawing, pictorial and orthographic sketching, geometric construction, instrument drawing, 2-view and 3-view drawings, lettering, dimensioning, sectional and auxiliary views, fasteners and reproduction of drawings. Required of all Vocational Technical students except for those who elect Applied Design and Art for Vocational Technical Education as it applies to their needs. *Credit:* Two semester hours—two class hours.

### V.T. 402. MECHANICAL DRAWING

A continuation of V.T. 401. *Prerequisite:* V.T. 401. *Credit:* Two semester hours—two class hours.

### V.T. 403. APPLIED DESIGN AND ART

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. Required of all Vocational Technical Education students in lieu of V.T. 401 and V.T. 402. *Credit:* Two semester hours—two class hours.

### V.T. 404. APPLIED DESIGN AND ART

A continuation of V.T. 403. *Prerequisite:* V.T. 403. *Credit:* Two semester hours—two class hours.



#### V.T. 495. INDEPENDENT PROJECT OR STUDY

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. *Credit:* Two semester hours. *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.

#### SAFETY AND DRIVER EDUCATION

##### S.ED. 416. SAFETY EDUCATION

Kinds and frequency of accidents; psychology in accident prevention; safety in home, school, shop, playground and community; water traffic and fire safety; recreation safety; poisons and emergency treatment; teaching safety in the public schools. *Classification:* Elective for juniors and seniors. *Credit:* Three semester hours—three class hours. *Special Note:* May be elected by graduate students.

##### S.ED. 417. DRIVER EDUCATION

Behind-the-wheel instruction; instructing

a trainee driver; traffic and pedestrian safety; psycho-physical testing; traffic law, accident statistics; accident prevention; traffic engineering; negligence and liability; insurance interpretation; effects of alcohol; theory and maintenance of automobile; administration of the program. *Classification:* Elective for juniors and seniors. *Prerequisite:* A good driving record (a licensed operator for at least two years). *Credit:* Three semester hours—three class hours. *Special Note:* May be elected by graduate students. Required for certification to teach driver education in New York State.



#### 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 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

## ACCREDITATION AND MEMBERSHIP

### STATE UNIVERSITY COLLEGE AT BUFFALO

#### *Is accredited by*

Middle States Association of Colleges and Secondary Schools  
National Council for Accreditation of Teacher Education  
Board of Regents of the University of the State of New York

#### *Is a member of*

American Association of Colleges for Teacher Education  
American Association of Collegiate Registrars and Admission Officers  
American Association of University Women  
American Council on Education  
Association of College Unions  
Middle States Association of Colleges and Secondary Schools  
National Association of Elementary School Principals  
National Association of Secondary School Principals  
Western New York School Study Council

## STATE UNIVERSITY OF NEW YORK

### BOARD OF TRUSTEES

CLIFTON W. PHALEN, B.S., LL.D., L.H.D., <i>Chairman</i>	..... New York City
JAMES J. WARREN, L.H.D., <i>Vice Chairman</i>	..... Albany
WARREN W. CLUTE, JR.	..... Watkins Glen
JOSEPH E. DAVIS, L.H.D.	..... White Plains
CHARLES R. DIEBOLD, LL.B.	..... Buffalo
MANLY FLEISCHMANN, A.B., LL.B.	..... Buffalo
SAMUEL HAUSMAN	..... New York City
GEORGE L. HINMAN, A.B., LL.B., L.H.D., LL.D.	..... Binghamton
MORRIS IUSHEWITZ	..... New York City
MRS. MAURICE T. MOORE, B.A., LL.D., L.H.D.	..... New York City
MRS. BRONSON A. QUACKENBUSH, A.B.	..... Herkimer
JOHN A. ROOSEVELT, A.B.	..... Hyde Park
OREN ROOT, A.B., LL.B., LL.D.	..... New York City
ROGER J. SINNOTT, B.S.	..... Utica
DON J. WICKHAM, B.S.	..... Hector

<i>President of the University</i>	..... SAMUEL B. GOULD, A.B., M.A., LL.D.
<i>Executive Vice President</i>	..... J. LAWRENCE MURRAY
<i>Secretary of the University</i>	..... MARTHA J. DOWNEY, B.S., M.A.





## THE COLLEGE

### LOCAL COUNCIL

MRS. JAMES H. RIGHTER, <i>Chairman</i>	Term Expires
CHARLES G. BLAINE	1972
MRS. JOHN R. CAMPBELL	1973
DAVID J. LAUB	1971
MRS. HARLAN J. SWIFT	1969
MRS. HENRY Z. URBAN	1974
RAYMOND PH. WEIL	1968
(Two appointments pending)	1967



## ADMINISTRATION

PAUL G. BULGER, B.S., M.S., Ed.D.	President of the College
GEORGE R. SHERRIE, B.S., Ed.M., Ed.D.	Vice-President for Administration
HOUSTON T. ROBISON, B.S., M.S., Ph.D.	Vice-President for Academic Affairs
CHARLES P. LaMORTE, B.A., M.A., Ed.D.	Vice-President for Student Affairs

President of the College	PAUL G. BULGER, B.S., M.S., Ed.D.
Secretarial Assistant to the President	KATHRYN S. GRAHAM

Vice-President for Administration, Director of International Education and Coordinator of Urban Education	GEORGE R. SHERRIE, B.S., Ed.M., Ed.D.
Associate Director of International Education	MEHDI KIZILBASH, B.A., M.B.A.
Coordinator of Sponsored Research	JOHN FONTANA, B.S., M.A., Ed.D.
Director of Public Information	SILAS R. MOLYNEAUX, B.A., M.A.
Assistant to Director of Public Information	ELSIE U. KAYE, B.A., B.Lit.
Assistant to Director of Public Information in charge of Publications	JOYCE E. FINK, A.B., Ed.M.

Vice-President for Academic Affairs	HOUSTON T. ROBISON, B.S., M.S., Ph.D.
Secretary to the Vice-President for Academic Affairs	FRANCES G. RAHN
Associate Vice-President for Academic Affairs	CARLTON E. BAUER, B.S., M.A., Ph.D.
Assistant Vice-President for Academic Affairs	PHILIP R. BONNER, B.S., M.A., Ed.D.
Dean of Applied Science and Technology and Acting Director of Industrial Arts	SHERMAN F. DREYER, B.S., M.S., Ed.D.
Director of Home Economics	MARGARET A. GRANT, B.S., M.S., Ed.D.
Director of Vocational Technical Education	WALTER J. ZIMMERMAN, B.S., Ed.M., Ed.D.



Dean of Arts and Science.....HOWARD G. SENGBUSCH, B.S., Ed.M., M.S., Ph.D.

ARTS AND HUMANITIES

Chairman of English  
Department.....J. STEPHEN SHERWIN, B.S., M.A., Ed.D.  
Chairman of Foreign Language  
Department.....ALFRED W. BECKER, B.S., M.A., Ph.D.  
Chairman of Health, Physical Education and  
Recreation Department.....CHESTER L. PALMER, B.S., A.M., Ed.D.  
Chairman of Music  
Department.....SILAS L. BOYD, B.A., B.Mus.Ed., M.A., D.Mus.Ed.  
Chairman of Philosophy  
Department.....NICHOLAS G. FOTION, B.S., M.A., Ph.D.  
Chairman of Speech and Theatre  
Arts Department.....DONALD J. SAVAGE, A.B., M.A., Ph.D.

DIRECTOR OF MATHEMATICS

AND SCIENCE DIVISION.....SIGMUND A. SMITH, B.S., M.S., Ed.D.  
Chairman of Mathematics  
Department.....CECIL T. RODNEY, B.S., M.A., Ed.D.  
Chairman of  
Biology Department.....WILLIAM C. SCHEFLER, B.A., Ed.M., Ed.D.  
Chairman of  
Chemistry Department.....JOSEPH S. ZINGARO, B.S., M.S., M. Sci., Ph.D.  
Chairman of  
General Science  
Department.....RICHARD H. LAMPKIN, A.B., B.Ed., M.Ed., Ph.D.  
Chairman of Geology.....IRVING H. TESMER, B.A., M.A., Ph.D.  
Chairman of  
Physics Department.....FRANK K. HARMAN, B.A., B.Sc., M.Sc., Ph.D.

DIRECTOR OF

SOCIAL SCIENCES DIVISION.....JOSEPH A. FEKETE, B.A., M.A., Ph.D.  
Acting Chairman of Economics-Political Science  
Department.....MOHAMED EL-BEHAIRY, B. Com., M.A., Ph.D.  
Acting Chairman of  
Geography Department.....JOHN H. VANN, B.A., M.S., Ph.D.  
Chairman of  
History Department.....EDMUND A. BROWN, B.A., M.A., Ph.D.  
Acting Chairman of Sociology-Anthropology  
Department.....GENE S. WELBORN, B.S., M.S., Ed.D.

Dean of Professional Studies.....ROBERT B. SIMPSON, A.A., A.B., M.A., Ed.D.

Director of Elementary  
Education.....LORRAINE A. LANGE, B.A., M.A., Ph.D.  
Director of Exceptional Children  
Education.....HORACE MANN, B.A., M.A., Ph.D.  
Director of Secondary  
Education.....ALLEN G. SEXTON, B.S., M.A., Ed.D.  
All-College Coordinator of  
Student Teaching.....CARYL G. HEDDEN, B.S., M.S., Ed.D.  
Director of Child Study Center.....JOHN M. DODD, B.S., M.S., Ed.D.  
Principal, Campus School.....BENEDICT J. SURWILL, JR., B.S., M.A., Ed.D.

Acting Director of

Art Education.....NORMAN F. TRUESDALE, B.S., Ed.M., Ed.D.  
Director of Continuing Education  
and Summer Session.....STEVEN GITTLER, B.A., M.A., Ed.D.  
Director of Graduate Studies.....DAVID A. ROGERS, B.A., M.A., Ph.D.  
Director of Institutional Research.....CHARLES E. BALL, B.S., M.A., Ed.D.  
Director of the Center for  
Economic Education.....DONALD M. CLARK, B.S., M.A., Ed.D.  
Director of Instructional Resources.....HAROLD J. STEFFEN, B.S., Ed.M., Ph.D.  
Coordinator of Audio-Visual  
Education.....MINERVA J. GOLDBERG, B.S., M.S.  
College Librarian.....DONALD C. YELTON, A.B., M.A., M.L.S., Ph.D.  
Associate Librarian.....LENORE KEMP, B.S., B.S.L.S.

Vice-President for Student

Affairs.....CHARLES P. LaMORTE, B.A., M.A., Ed.D.  
Associate, Office of the Vice-President  
for Student Affairs.....ANGELA R. PALMIERI, B.S., M.A.  
Assistant Director of Activities.....DANIEL R. HUNTER, JR., B.S.  
Assistant Director of Activities.....JOSEPH B. IRACI, B.S.  
Resident Director, North Wing Hall.....ISABEL H. HOLLANDS, B.S.  
Resident Director, Bishop Hall.....BARBARA A. ROWE, B.A., M.S.  
Resident Director, Chase Hall.....DIANE M. Kaelin, B.A., M.S.  
Resident Director, South Wing Hall.....BETTY L. REISMAN, B.A., M.A.  
Resident Director, Neumann Hall.....JOAN E. MORGAN, B.A., M.Ed.  
Resident Director, Perry Hall.....MARY ANN GRIFFIN, B.S.  
Resident Director, Scajaquada Halls.....NANCY C. BAUMANN, B.A., M.S.  
Resident Director,  
Scajaquada Towers.....KATHERINE P. KUBALA, B.A., Ed.M.



Associate, Office of the Vice-President for Student Affairs	THOMAS J. QUATROCHE, B.S., M.A.
Resident Director, High Rise Hall	IL-KOO YOUN, B.S., M.A.
Resident Director, High Rise Hall	THOMAS J. PEFFER, B.S., M.Ed.
Director of Admissions and Records	FRANCIS G. STEWART, A.B., Th.B., M.Ed., Ph.D.
Associate Director of Admissions and Records	JOHN A. PALMER, B.S., M.A.
Admissions Counselor	EDWARD E. MORGAN, B.A., M.Ed.
Admissions Counselor	JAMES R. PILKEY, B.S.
Admissions Counselor	MICHAEL PIROWSKIN, B.S., Ed.M.
Admissions Counselor	TIMOTHY L. GALLINEAU, B.S.
Admissions Counselor	JOSEPH OLIVA, B.M., M.S.
Admissions Counselor	ROBERT W. LASKIE, B.S., M.S.
College Registrar	DOROTHY E. EELLS, B.A., M.A.
Director of Counseling	MAZIE E. WAGNER, B.A., M.A., Ph.D.
Clinical Psychologist	JOHN GAMBON, B.S., Ph.D.
Counselor	ROBERT W. GRAFF, B.A., Ed.M.
Counselor	LORAIN M. RAPS, R.N., B.S.
Director of Housing	DOROTHY E. WOMER, B.S., M.S.
Assistant Director of Housing	ALICE STRAUSS, B.A.
Director of Student Health	PAUL J. WEIGEL, M.D.
Coordinator of Student Health	MADLINE K. TURNER, R.N., M.S., M.A.
College Physician	WINIFRED G. MERNAN, M.D.
College Physician	GEORGE R. BAEUMLER, D.D.S., M.D.
Nurse	MONICA WOLCOTT, R.N.
Nurse	MARY K. GLAIR, R.N.
Nurse	LORETTA A. FAHEY, B.S., M.S.
Nurse	MARY T. FOX, R.N., B.S.
Coordinator of Financial Aids	JERALD E. LOUNSBURY, A.A., B.A., M.A.
Assistant Coordinator of Financial Aids	WILLIAM A. TROY, B.S.
Assistant Coordinator of Financial Aids	ROBERT T. TYLER, B.S.
Student Employment Counselor	MARY ANN MONROE, B.S., M.S.
Director of Placement	JUNE H. TRUESDALE, B.S.

Facilities Program Coordinator	GLENDON H. SEAMAN, B.S., M.A.
Director of Development and Cultural Affairs	EDNA M. LINDEMANN, B.S., M.A., Ed.D.
Executive Secretary, Alumni	HILMA M. COOK
Director of Business Affairs	E. WILLIAM BAKER, JR., B.A., M.A.
Administrative Services Supervisor	RAYMOND S. BURRY, B.S.
Senior Financial Secretary	JAMES M. CAPUTI, B.A.
Bursar	SALLY M. NOWOCIN, A.A.S.
Accounting Supervisor	CECILIA M. WOOD
Principal Clerk, Purchase	WINIFRED KLAUS
Personnel Supervisor	CHESTER J. PULASKI, B.A., M.A.
Data Processing Manager	ALBERT B. SANTINI, B.S.
Senior Maintenance Supervisor	EUGENE W. HILLMAN
Institution Safety Officer	EDWARD C. GLEASON
Food Service Manager	JOSEPH P. CANNAMELA, A.S., B.S.
Dietitian	DOROTHY B. DEERING, B.S.
College Store Manager	CHARLOT M. FETTERMAN, B.S.
Corporation Accountant	ROBERT E. JOHNSON

## THE FACULTY\*\*

GERALD F. ACCURSO (1965)	Instructor, Science B.S. (State University College, Fredonia); M.S. (Canisius)
JOSEPH P. ADESSA (1948)	Professor, Health, Physical Education and Recreation B.S., M.Ed. (Pennsylvania)
HARRY ADNER (1964)	Associate Professor, Vocational Technical Education Ch.E. (Rensselaer Polytechnical Institute)
JOHN R. AIKEN (1964)	Associate Professor, History A.B. (Iowa Wesleyan); M.A. (Iowa)
WALTER AINSWORTH (1960)	Assistant Professor, Science A.B. (Pennsylvania); A.M. (Michigan)
JOHN L. ALLEN (1964)	Assistant Professor, Industrial Arts B.S. (State University College, Oswego)
JON P. AMATO (1965)	Instructor, Geography B.S. (Arizona State); M.A. (State Univ. of New York, Buffalo)
JOAN AMROZOWICZ (1966)	Instructor, Education B.S., M.S. (State University College, Buffalo)
DUANE J. ANDERSEN (1958)	Associate Professor, Ceramics B.F.A. (Alfred); M.S. (Wisconsin)

\*\*Effective 1966-67



BRUCE K. ANDREW (1965) ..... *Assistant Librarian*  
B.A., M.S. (Syracuse)

BERNARD D. ANSEL (1964) ..... *Assistant Professor, History*  
B.S. (Boston); M.A. (Columbia)

VINCENT C. ARNONE (1963) ..... *Assistant Professor, Child Art*  
B.S. (State University College, Buffalo); M.A. (Columbia)

JUDITH J. ARTHURS (1965) ..... *Instructor, English*  
B.A. (Little Rock); M.A. (Arkansas)

RICHARD C. AUERBACH (1966) ..... *Associate Professor, Education*  
B.S., M.S. (State University College, Buffalo)

CHARLES R. BACHMAN (1965) ..... *Assistant Professor, English*  
B.A. (Baylor); Ph.D. (Indiana)

GEORGE R. BAEUMLER (1964) ..... *College Physician*  
D.D.S., M.D. (State University of New York, Buffalo)

ROBERT C. BAEUMLER (1964) ..... *Assistant Professor, Drawing*  
B.F.A. (State University of New York, Buffalo); M.F.A. (Yale)

OSCAR W. BAILEY (1958)\* ..... *Associate Professor, Photography*  
B.A. (Wilmington); M.F.A. (Ohio)

PEARSON BAILEY (1952) ..... *Associate Professor, Music*  
B.S. (Wittenburg); M.A., (Wayne State)

WILLIAM H. BAILEY (1963)\* ..... *Instructor, Mathematics*  
A.B. (Indiana State); M.A. (Missouri)

WILLIAM T. BAILEY (1964) ..... *Assistant Professor, Mathematics*  
B.A., M.A. (State University of New York, Buffalo)

E. WILLIAM BAKER, JR. (1964) ..... *Director of Business Affairs*  
A.B., M.A. (State University of New York, Albany)

JAGJIT S. BAKSHI (1966) ..... *Professor, Mathematics*  
M.A., Ph.D. (Catholic U. of America)

CHARLES E. BALL (1956) ..... *Director of Institutional Research*  
B.S. (State University College, Buffalo); M.A., Ed.D. (New York University)

VICTOR H. BALOWITZ (1964) ..... *Assistant Professor, Philosophy*  
A.B. (Brooklyn)

ROBERT BARNES (1966) ..... *Assistant Principal, Campus School for  
Exceptional Children Education*  
B.A. (State University, Iowa); M.S. (Illinois State)

WILLIAM J. BARNETT (1950) ..... *Professor, Education*  
B.Ed. (State University College, Brockport); M.Ed. (Rochester); Ed.D.  
(State University of New York, Buffalo)

\*On leave 1966-67

JACK BARR (1966) ..... *Associate Professor, Mathematics*  
B.A., M.S. (State University, Iowa)

SAUL BARRON (1964) ..... *Professor, Chemistry*  
B.S. (Lafayette); M.S., Ph.D. (Ohio State)

ALVIN R. BARTHOLOMEW (1964) ..... *Instructor, Biology*  
B.F.A., M.Sc. (Ohio State)

JAMES A. BATTISTONI (1965) ..... *Assistant Professor, Art*  
B.S., M.S. (State University College, Buffalo)

CARLTON E. BAUER (1956) ..... *Associate Vice-President for Academic Affairs*  
B.S., M.A., Ph.D. (New York University)

GERALDINE BAUMET (1965) ..... *Cooperative Teacher, School 52*  
B.S., M.S. (State University College, Buffalo)

PAUL R. BEAUDET (1961) ..... *Associate Professor, Geography*  
B.S. (State Teachers, Fitchburg, Massachusetts); M.A. (Clark)

ALFRED W. BECKER (1963) ..... *Professor of Foreign Language and  
Chairman of the Department*  
B.A., M.A., Ph.D. (Maryland)

BARBARA BERNSTEIN (1966) ..... *Instructor, Foreign Language*  
B.A., M.A. (Wayne State)

DEWAYNE BERRY (1963) ..... *Assistant Professor, Physics*  
B.A. (Manchester); M.S. (Toledo)

NANCY B. BELFER (1960) ..... *Associate Professor, Serigraphy*  
B.S. (State University College, Buffalo); M.F.A. (School for American  
Craftsmen)

THEDA E. BENNETT (1964) ..... *Professor, Biology*  
B.A. (Radcliffe); M.A., Ph.D. (Syracuse)

MARGERY L. BESSOM (1966) ..... *Professor, Home Economics*  
B.S. (Simmons); M.A. (Teachers College, Columbia); Ph.D. (Ohio State)

JOHN A. BICE (1963) ..... *Associate Professor, Painting*  
B.F.A., M.A., M.F.A. (Colorado)

JUDITH M. BLACKWELL (1963) ..... *Assistant Professor, Education,  
Campus School*  
B.F.A., M.S. (State University of New York, Buffalo)

DAVID A. BLAEUER (1964) ..... *Assistant Professor, Mathematics*  
B.A. (Blackburn); M.A. (Wisconsin)

ROBERT J. BLANCH (1963) ..... *Instructor, English*  
A.B. (Holy Cross); M.A. (Northeastern)

RUTH BLEY (1962) ..... *Assistant Librarian*  
B.A. (Hartwick); B.S.L.S. (State University of New York, Albany)

MURRAY BLOUSTEIN (1955) ..... *Professor, Physical Handicap*  
B.S.S. (CCNY); M.A., Ed.D. (Columbia)



MARIAN R. BODE (1959) ..... *Assistant Professor, General Art*  
 B.E. (State University College, Oswego); M.E. (Wisconsin State)

KENWYN BOLDT (1966) ..... *Associate Professor, Music*  
 B.M. (Northwestern); M.M. (Indiana)

JOSEPH A. BOLINSKY (1954) ..... *Professor, Sculpture*  
 B.S. (New Jersey State); M.A. (Columbia); M.F.A. (Iowa)

PHILIP R. BONNER (1964) ..... *Assistant Vice-President for Academic Affairs*  
 B.S. (Greenville); M.A., Ed.D. (Wayne)

SILAS L. BOYD (1943) ..... *Professor, Music and Chairman of the Department*  
 A.B. (St. Olaf); B.Mus.Ed. (Northwestern); M.A. (New York University); D.Mus.Ed. (Indiana)

ARTHUR L. BRADFORD (1946) ..... *Professor, English*  
 A.B., M.S. (Missouri); Ph.D. (Peabody)

RAYMOND S. BRADLEY (1952) ..... *Associate Professor, Science, Campus School*  
 B.S. (State University College, Cortland); M.S. (Syracuse)

ETHEL BRANNAN (1966) ..... *Professor, Education*  
 B.S., M.Ed. (Johns Hopkins); Ed.D. (Teachers College, Columbia)

MARGARET M. BREEDLOVE (1965) ..... *Associate Professor, Home Economics*  
 B.A. (Hunter); M.A. (Teachers College)

WESLEY F. BRETT (1959) ..... *Professor, Design in Wood*  
 B.Ed. (Keene); M.Ed. (New Hampshire)

EMERY BREWER (1966) ..... *Professor, Education*  
 A.B., M.A. (Kentucky); Ph.D. (Ohio State)

SARAH R. BRINSMAID (1951) ..... *Associate Professor, Health, Physical Education and Recreation, Campus School*  
 B.E. (State University College, Brockport); (New York University)

ROBERT W. BROCK (1962) ..... *Assistant Professor, Sculpture*  
 B.F.A. (Dayton); M.F.A. (Ohio)

STANLEY E. BROOKS (1961) ..... *Associate Professor, Industrial Arts*  
 B.A., M.A. (Peabody); Ed.D. (North Dakota)

JAMES BROPHY ..... *Cooperative Teacher, Buffalo Public School 52*  
 B.S., M.S. (State University College, Buffalo)

EDMUND A. BROWN (1948) ..... *Professor, History and Chairman of the Department*  
 B.A. (Amherst); M.A. (Yale); Ph.D. (Columbia)

HELEN M. BROWN (1965) ..... *Instructor, Campus School*  
 B.S. (State University College, Buffalo)

KENNETH W. BROWN (1953) ..... *Professor, Industrial Arts*  
 B.S., M.S. (Kansas State); Ph.D. (Ohio State)

RICHARD C. BROWN (1952) ..... *Professor, History*  
 B.S. (Ohio State); M.A. (Colgate); Ph.D. (Wisconsin)

JACK C. BRUECKMAN, JR. (1964) ..... *Assistant Professor, Industrial Arts*  
 B.S., M.S. (State University College, Buffalo)

ERIC BRUNGER (1954)\* ..... *Professor, History*  
 B.E. (State University College, Oswego); M.S., Ph.D. (Syracuse)

JOHN BRUNO (1966) ..... *Associate Professor, Education*  
 B.S., M.S. (State University College, Buffalo)

JASON BRUNK, JR. (1966) ..... *Professor, Education*  
 B.S. (Loyola College); M.Ed. (Johns Hopkins); Ed.D. (Maryland)

RUTH M. BUDDENHAGEN (1945) ..... *Professor, Home Economics*  
 B.S. (State University College, Buffalo); M.A. (Columbia)

WALTER J. BUKOWSKI, JR. (1965) ..... *Instructor, Social Studies*  
 B.S., M.S. (State University of New York, Buffalo)

PAUL G. BULGER (1959) ..... *President of the College*  
 B.S., M.S. (State University of New York, Albany); Ed.D. (Columbia)

BRENDA BULLION (1965) ..... *Assistant Professor, Art*  
 B.A. (Arkansas); M.F.A. (Syracuse)

MARIE L. BULLOCK ..... *Cooperative Teacher, Buffalo Public School 52*  
 B.S. (State University College, Buffalo); M.Ed. (State University of New York, Buffalo)

CHARLES E. BURCHFIELD (1963) ..... *Consulting Artist*  
 L.H.D. (Kenyon); Dr. Arts (Harvard), (Hamilton); LL.D. (Valparaiso)

JOANNA BURGER (1964) ..... *Instructor, Biology*  
 B.S. (State University of New York, Albany); M.S. (Cornell)

ROBERT C. BURKHART (1965) ..... *Professor, Art*  
 B.A. (Colby); M.A. (Pittsburgh); Ed.D. (Pennsylvania State)

ANNA P. BURRELL (1948)\* ..... *Professor, Education*  
 B.S., M.S. (Pennsylvania); Ph.D. (New York University)

BERNICE C. BURROS (1964) ..... *Assistant Professor, Mathematics*  
 B.A. (State University of New York, Buffalo); A.M. (Columbia)

ROXANNE BUSCH (1966) ..... *Instructor, Health & Physical Education*  
 B.A. (Montclair State); M.Ed. (North Carolina)

H. VIRGINIA BUTLER (1944) ..... *Associate Professor, Home Economics*  
 B.S. (State University College, Buffalo); A.M. (Columbia)

MARY ANN CALABRO ..... *Cooperative Teacher, Buffalo Public School 52*  
 B.A. (D'Youville); B.S. (State University College, Buffalo)



LOUIS J. CALLAN (1946) ..... *Professor, Industrial Arts*  
 B.S. (State University College, Buffalo); M.A., Ph.D. (Ohio State)

ALBERT T. CAPEN (1960) ..... *Assistant Professor, Industrial Arts*  
 B.S., M.S. (State University College, Buffalo)

DAVID A. CAPPIELLO (1948) ..... *Professor, Industrial Arts*  
 B.S. (State University College, Buffalo); M.S. (Cornell); Ed.D. (State University of New York, Buffalo)

JOHN C. CARBONARA (1964) ..... *Instructor, Philosophy*  
 B.A., M.A., (State University of New York, Buffalo)

FREDA M. CARNES (1966) ..... *Instructor, Campus School*  
 B.A. (Indiana)

MARIAN CARR (1966) ..... *Assistant Professor, English*  
 A.B. (Western Reserve); M.A. (Syracuse)

MARIAN L. CARROLL (1954) ..... *Professor, Education*  
 B.A. (State University of New York, Buffalo); M.A., Ed.D. (Columbia)

PAUL E. CARROLL (1965) ..... *Assistant Professor, Physics*  
 B.S., M.S. (Notre Dame)

WALTER R. CARROLL (1965) ..... *Instructor, Art*  
 B.F.A., M.F.A. (Pratt Institute)

DONALD E. CARTER (1964) ..... *Instructor, Education*  
 B.S., M.S. (Kansas State)

ZELLA MAY CASE (1950) ..... *Associate Professor, Art*  
 B.A., M.A. (Iowa)

HELEN L. CAWLEY (1955) ..... *Professor, Home Economics*  
 A. B., B.S. (West Virginia); M.S. (Minnesota); Ed.D. (Pennsylvania)

FREDA CHALMER (1966) ..... *Associate Professor, Education*  
 B.S. (State University College, Buffalo); Ed.M. (State University of New York at Buffalo)

WILLIAM J. CHAMPION (1960) ..... *Associate Professor, Music*  
 B.S.Ed. (Bowling Green); M.M. (Michigan)

FRED E. CHAPMAN (1964) ..... *Assistant Professor, Industrial Arts*  
 B.S., M.S. (State University College, Buffalo)

KWAN-WEI CHEN (1964) ..... *Assistant Professor, Mathematics*  
 B.S. (Eastern Michigan); M.S. (De Paul)

ANITA L. CHERKAUER (1961) ..... *Associate Professor, Education*  
 B.S., M.S. (State University College, Buffalo)

RUDOLPH J. CHERKAUER (1948) ..... *Professor of Individual Study*  
 B.S. (State University College, Buffalo); Ed.M., Ed.D. (State University of New York, Buffalo)

ARTHUR D. CHESLER (1966) ..... *Assistant Professor, Social Studies*  
 B.A., M.A. (Rutgers)

SEI-YONG CHO (1964) ..... *Associate Professor, Economics*  
 A.B. (Oregon); Ph.D. (Columbia)

DONALD M. CLARK (1966) ..... *Director of the Center for Economic Education*  
 B.S., M.A. (Canisius); Ed.D. (State University of New York, Buffalo)

F. JUNE CLARKE (1959) ..... *Professor, Home Economics*  
 B.S. (State University College, Buffalo); M.S., Ed.D. (Cornell)

ZACHARIE CLEMENTS (1966) ..... *Assistant Professor, Education*  
 B.A., M.A. (State University of New York, Albany)

NINA COHEN (1965) ..... *Associate Librarian*  
 B.A. (Queens); M.A. (Indiana)

SIDNEY COHEN (1966) ..... *Associate Professor, Science*  
 B.S. (Northeastern); M.S. (Tufts); Ph.D., (Colorado)

HERMAN F. COLE (1962) ..... *Instructor, Philosophy*  
 B.A. (West Liberty); M.A. (Chicago)

JOHN T. COLE (1965) ..... *Assistant Professor, Anthropology*  
 B.A., M.A. (Pennsylvania)

HENRY M. COLLINS (1958) ..... *Associate Professor, Biology*  
 B.S. (Boston); A.M. (Harvard)

MILDRED M. CONCANNON (1948) ..... *Associate Professor, Education, Campus School*  
 B.S. (State University College, Albany); M.A. (New York University)

KENNETH N. CONDRELL (1966) ..... *Professor, Exceptional Children Education*  
 B.A., Ph.D. (State University of New York, Buffalo)

RONALD CONDRON (1964) ..... *Associate Professor, Emotional Handicap*  
 B.A. (Hofstra); M.A. (Columbia)

JEAN M. CONROY (1965) ..... *Assistant Professor, Home Economics Campus School*  
 B.S. (Chestnut Hill); M.S. (State University of New York at Buffalo)

CARL CONTINO (1966) ..... *College Physician, Part-time*  
 B.S. (Canisius); M.D. (State University of New York at Buffalo)

DAVID T. CONVERSE (1964) ..... *Instructor, Education*  
 B.A. (Yankton); M.A. (Nebraska)

CLARENCE A. COOK (1947) ..... *Professor, Industrial Arts*  
 B.S. (State University College, Buffalo); M.S. (Cornell); Ed.D. (State University of New York, Buffalo)

VICTOR R. COOK (1965) ..... *Instructor, English*  
 B.S. (Southern Illinois); M.A. (Florida)



LAWRENCE COON (1966) ..... *Assistant Professor, Mathematics*  
 B.A. (Rochester)

LORRAINE P. CORCORAN (1965) ..... *Teacher-Librarian, Campus School*  
 B.S. (Minnesota)

ELOISE N. COURTER (1966) ..... *Professor, English*  
 B.A. (Douglass, Rutgers State U); M.A. (Teachers College); Ph.D. (Minnesota)

SYLVIA A. CRAGUN (1949) ..... *Associate Professor, Home Economics*  
 B.S., M.S. (State University College, Buffalo)

MARION E. CRAMER (1958) ..... *Assistant Librarian*  
 B.Mus. (Rochester); B.L.S. (State University of New York, Buffalo)

RUFUS S. CRANE (1963) ..... *Assistant Professor, Foreign Language*  
 A.B. (Georgia); M.A. (Wisconsin)

EDMUND S. CRIDGE (1963) ..... *Assistant Professor, Industrial Arts*  
 B.S. (State University College, Oswego)

MARGARET G. CRUICKSHANK (1965) ..... *Instructor, Campus School*  
 L.R.A.M. (Royal Academy of Music)

JANE CUNNINGHAM (1965) ..... *Cooperative Teacher, School 52*  
 B.S. (Central State); M.S. (State University College, Buffalo)

STANLEY A. CZURLES (1931) ..... *Director, Art Education Division*  
 B.F.A., M.F.A. (Syracuse); Ph.D. (Iowa)

DANIEL P. DACEY, JR. (1960) ..... *Associate Professor, French*  
 A.B., A.M. (Boston)

RICHARD M. DAHLKE (1965) ..... *Assistant Professor, Mathematics*  
 B.S. (Wisconsin State); M.A. (San Diego State)

EUGENE L-G DAKIN (1947) ..... *Professor, Theatre Design*  
 B.S. (Milwaukee); M.A., Professional Diploma (Columbia)

MARY DARKER ..... *Cooperative Teacher, Buffalo Public School 52*  
 B.S. (State University College, Buffalo)

ARTHUR DARVISHIAN (1962) ..... *Associate Professor, Industrial Design*  
 B.A., M.A. (Michigan State)

ROBERT E. DAVIDSON (1959)\* ..... *Assistant Professor, Painting*  
 B.F.A. (Cranbrook)

ROBERT J. DAVITT (1965) ..... *Assistant Professor, Science*  
 B.S. (Niagara); M.S. (Canisius)

MANUEL P. DE ALMEIDA (1964) ..... *Associate Professor, Foreign Language*  
 M.A., Ph.D. (Laval)

LARRY W. DeBORD (1962)\* ..... *Assistant Professor, Sociology*  
 A.B., A.M. (Morehead)

\*On leave 1966-67

JOSEPH DeROSE (1966) ..... *Assistant Professor, Exceptional Children Education*  
 B.S. (Bloomsburg State); M.Ed. (Pennsylvania State)

PRUDENCIO DE PEREDA (1965) ..... *Assistant Librarian*  
 A.B. (CCNY); M.L.S. (Pratt Institute)

RAM DESAI (1963) ..... *Professor, Political Science*  
 B.A. (Bombay); M.A. (Wayne State); Ph.D. (Michigan State)

TERESA C. DE SALAS (1965) ..... *Assistant Professor, Foreign Language*  
 M.A. (Western Reserve); M.Ed. (Kent State)

ANNA C. DEVANEY (1965) ..... *Cooperative Teacher, School 52*  
 B.S., M.S. (State University College, Buffalo)

ROBERT S. DICKENS (1966) ..... *Assistant Professor, Philosophy*  
 B.A. (Johns Hopkins)

STANLEY DICKSON (1956) ..... *Professor, Speech Pathology and Audiology*  
 B.A., M.A. (Brooklyn); Ed.D. (State University of New York, Buffalo)

RICHARD C. DIEDRICH (1964) ..... *Assistant Professor, Mathematics*  
 B.S. (State University College, Buffalo); M.S. (Syracuse)

MARY K. DIENST (1965) ..... *Associate Professor, Home Economics*  
 B.S. (Iowa State); M.S. (Cornell)

CHARLES E. DIXON (1964) ..... *Associate Professor, Education*  
 B.Ed., M.Ed. (Toledo)

JOHN M. DODD (1959) ..... *Professor and Director of the Child Study Center*  
 B.S.Ed. (Kansas); M.S. (Kansas State); Ed.D. (Kansas)

WILLIAM A. DONNELLY (1964) ..... *Associate Professor, English*  
 B.A. (Notre Dame); M.A., Ed.D. (Teachers College)

EDITH F. DOUGLAS (1951) ..... *Associate Professor, Home Economics*  
 B.S., M.Ed. (New Hampshire)

NUALA M. DRESCHER (1965) ..... *Associate Professor, Social Studies*  
 B.A. (St. Joseph's College for Women); M.A., Ph.D. (Delaware)

FRASER B. DREW (1945) ..... *Professor, English*  
 A.B. (Vermont); A.M. (Duke); Ph.D. (State University of New York, Buffalo)

SHERMAN F. DREYER (1964) ..... *Dean of Applied Science and Technology,*  
*Acting Director of Industrial Arts*  
 B.S., M.S. (Stout State College); Ed.D. (Oklahoma)

WALTER M. DRZEWIENIECKI (1963) ..... *Professor, History*  
 B.S. (Wisconsin State); M.A., Ph.D. (Chicago)

ROBERT C. DUBOIS (1962) ..... *Associate Professor, Physics*  
 B.S., M.S. (Wayne)

MARSHALL J. DUGUAY (1965) ..... *Assistant Professor, Exceptional*  
 B.S., M.S. (State University College, Buffalo) *Children Education*



JOHN DULLAERT (1964)\* ..... *Associate Professor, Education*  
A.B., M.A. (Michigan)

MARY G. ECKER (1961) ..... *Associate Professor, Education*  
B.S. (Morris); M.A. (Columbia)

THEODORE E. ECKERT (1953) ..... *Professor, Biology*  
A.B. (State University of New York, Albany); M.S., Ph.D. (Cornell)

FRANK C. ECKMAIR (1963) ..... *Associate Professor, Drawing*  
B.A. (Iowa); M.F.A. (Ohio)

DORIS K. EDDINS (1947)\* ..... *Professor, Education*  
B.S. (Bowling Green); A.M. (Chicago); Ed.D. (Michigan)

JUDITH C. EDDY (1966) ..... *Instructor, Social Studies*  
B.S. (State University College, Cortland); M.A. (State University of New York, Buffalo)

DOROTHY E. EELLS (1958) ..... *College Registrar*  
A.B. (Taylor); M.A. (Buffalo)

BERNARD K. EGAN (1961) ..... *Associate Director of Education*  
B.S. (State University College, Buffalo); M.Ed. (Pennsylvania State)

MOHAMED EL-BEHAIRY (1963) ..... *Professor, Political Science*  
B.Com. (Cairo); M.A. (Minnesota); Ph.D. (Ohio)

HAZEL ELLER ..... *Cooperative Teacher, Buffalo Public School 52*  
B.S., M.S. (State University College, Buffalo)

NEIL G. ELLMAN (1965) ..... *Instructor, English*  
B.A. (Hunter); M.A. (Indiana)

LESTER J. ELSIE (1963) ..... *Instructor, Industrial Arts*  
B.S. (State University College, Buffalo)

NORMA A. ENEA (1964) ..... *Professor, Foreign Languages*  
B.A., M.A. (State University of New York, Albany); Ed.D. (State University of New York, Buffalo)

CATHERINE A. ENGLISH (1953) ..... *Professor, Music*  
B.S. (State University College, Potsdam); Ed.M. (Temple)

ELEANORE B. EVENSON (1962) ..... *Associate Professor, Home Economics*  
B.S., M.A. (Minnesota)

LORETTA A. FAHEY (1964) ..... *Nurse-Assistant Professor*  
B.S., M.S. (State University of New York, Buffalo)

GERHARD J. FALK (1957) ..... *Associate Professor, Sociology*  
B.A. (Cleveland College); M.A. (Western Reserve)

VELMA J. FEBEL (1956) ..... *Associate Professor, Education, Campus School*  
B.Ed., Ed.M. (State University of New York, Buffalo)

\*On Leave 1966-67.

JOSEPH A. FEKETE (1960) ..... *Professor, Geography and Director of Social Sciences Division*  
B.A. (Baldwin-Wallace); M.A. (Miami); Ph.D. (Illinois)

ROBERT L. FERRY (1965) ..... *Instructor, Education, Campus School*  
B.S.Ed. (State University College, Buffalo)

PAULA U. FICK (1965) ..... *Instructor, Home Economics*  
B.S. (Alfred)

ABEL K. FINK (1956) ..... *Professor, Education*  
B.A. (Brooklyn); M.A., Ed.D. (Columbia)

MARY E. FIORE (1963) ..... *Professor, Music*  
A.B. (California); M.A. (San Jose State); Ph.D. (Indiana)

MILDRED J. FISCHLE (1965) ..... *Associate Professor, Education*  
B.S., M.S. (State University College, Buffalo)

RUTH FISHER ..... *Cooperative Teacher, Buffalo Public School 52*  
B.S. (State University College, Buffalo); M.Ed. (State University of New York, Buffalo)

MARIE A. FITZPATRICK (1962) ..... *Assistant Professor, Education*  
B.S., M.S.Ed. (Canisius)

IRVING S. FOLADARE (1958) ..... *Associate Professor, Sociology*  
A.B. (Georgia); Ph.D. (Columbia)

JOHN FONTANA (1929) ..... *Professor, Industrial Arts*  
B.S. (State University College, Buffalo); M.A. (New York University); Ed.D. (State University of New York, Buffalo)

RICHARD J. FOSTER (1965) ..... *Assistant Professor, Science*  
B.S. (State University College, Fredonia); M.S. (Western Reserve)

NICHOLAS G. FOTION (1963) ..... *Professor, Philosophy and Chairman of the Department*  
B.S. (Northwestern); M.A. (Iowa); Ph.D. (North Carolina)

MARY T. FOX (1963) ..... *Nurse-Assistant Professor*  
R.N., B.S. (D'Youville)

BERNHARD FRANK (1965) ..... *Assistant Professor, English*  
B.S. (CCNY); M.A. (New York); Ph.D. (Pittsburgh)

BARBARA R. FREY (1963) ..... *Professor, Education*  
B.Ed. (State University College, Geneseo); M.Ed. (Boston); Ed.D. (Indiana)

MARTIN B. FRIED (1948) ..... *Professor, English*  
B.S. (State University College, Buffalo); M.A. (Harvard); Ph.D. (Chicago)

BETTY GALLAGHER (1946) ..... *Professor, Speech Pathology and Audiology*  
B.S. (State University College, Buffalo); M.A. (Michigan); Ph.D. (Wisconsin)



THOMAS GALLINEAU (1966) ..... *Admissions Counselor*  
 B.S. (State University College, Fredonia)

JOHN GAMBON (1964) ..... *Clinical Psychologist*  
 B.S. (Illinois); Ph.D. (State University of New York, Buffalo)

HERTHA S. GANEY (1934) ..... *Professor, English*  
 A.B. (State University College, Albany); A.M. (Columbia)

MONICA M. GENSBITTEL (1952) ..... *Assistant Librarian*  
 B.S. (D'Youville); M.S. (State University College, Geneseo)

PAUL E. GILLOOLY (1963) ..... *Assistant Professor, Science*  
 B.S. (Michigan State); M.Ed. (Canisius)

STEVEN GITTLER (1955) ..... *Director of Continuing Education and Summer Session*  
 B.A. (Lake Forest); M.A. (Washington State); Ed.D., (State University of New York, Buffalo)

ANITA K. GOLD (1966) ..... *Instructor, Art*  
 B.A. (State University College, New Paltz); M.A. (Michigan)

MINERVA J. GOLDBERG (1958) ..... *Associate Professor, Education*  
 B.S., M.S. (State University College, Buffalo)

DAVID H. GOLDSMITH (1964) ..... *Assistant Professor, English*  
 B.A., M.A. (Bowling Green)

EDITH GOLDSTEIN (1966) ..... *Instructor, Education*  
 B.S. (State University College, Buffalo)

WILSON B. GRAGG (1949) ..... *Professor, English*  
 A.B. (Illinois); A.M., Ph.D. (Northwestern)

MARGARET A. GRANT (1937) ..... *Director, Home Economics Division*  
 B.S. (State University College, Buffalo); M.S. (Cornell); Ed.D. (State University of New York, Buffalo)

FRED H. GREENBERG (1964) ..... *Associate Professor, Chemistry*  
 B.A. (Berea); M.S., Ph.D. (Chicago)

ANNA MAY GREENE ..... *Cooperative Teacher, Buffalo Public School 52*  
 B.S. (State University College, Buffalo); M.A. (Canisius)

RHODA Y. GREENWOOD (1966) ..... *Assistant Professor, English*  
 A.B. (Transylvania); M.A. (Wittenberg)

WALTER B. GREENWOOD (1950) ..... *Professor, English*  
 A.B. (Transylvania); M.A. (Columbia); Ph.D. (Cincinnati)

MARYANN GRIFFIN (1966) ..... *Residence Hall Director—Perry Hall*  
 B.S. (State University College, Buffalo)

BENJAMIN F. GRONEWOLD (1947) ..... *Professor, English*  
 B.A. (North Central); M.A. (Wisconsin); Ph.D. (New York University)

LOUISE GROSSMAN (1965) ..... *Cooperative Teacher, School 52*  
 B.S., M.S. (State University College, Buffalo)

ROBERT A. HAGEMAN (1965) ..... *Instructor, Social Studies*  
 B.A., M.A. (Western Michigan)

THELMA M. HAINES (1955) ..... *Associate Professor, Education, Campus School*  
 B.S., M.S. (State University College, Buffalo)

PAUL V. HALE (1963) ..... *Professor, English*  
 A.B. (Canisius); A.M. (Cornell); Ph.D. (New York University)

RICHARD N. HALL (1964) ..... *Assistant Professor, Industrial Arts*  
 B.A., M.A. (Western Washington College)

FRANK K. HARMAN (1955) ..... *Professor, Physics*  
 Chairman of the Department  
 B.A., B.Sc., M.Sc., Ph.D. (Ohio State)

FREDERICK J. HARTRICK (1960) ..... *Associate Professor, Health, Physical Education and Recreation*  
 A.B. (Oberlin); M.S. (Pennsylvania State)

ALVA J. HAWKES (1960) ..... *Assistant Professor, Health, Physical Education and Recreation*  
 B.S. (Michigan State)

ROBERT A. HAWKES (1966) ..... *Assistant Professor, Campus School*  
 B.S., M.S. (Canisius)

JOSEPH HAYDEN (1965) ..... *Assistant Professor, Social Studies*  
 B.A., Ed.M., M.A. (State University of New York, Buffalo)

CARYL G. HEDDEN (1958) ..... *All-College Coordinator of Student Teaching*  
 B.S. (State University College, Buffalo); M.S. (Michigan); Ed.D. (State University of New York, Buffalo)

KENNETH G. HEINTZ (1961) ..... *Assistant Professor, Industrial Arts*  
 B.S. (Lowell)

RUTH E. HEINTZ (1965) ..... *Associate Professor, Mathematics*  
 B.A., M.A. (State University of New York at Buffalo)

RICHARD D. HELLER (1965) ..... *Assistant Professor, Health, Physical Education and Recreation*  
 B.S. (Wisconsin State)

LYLE H. HEMINK (1962) ..... *Professor, Education*  
 Ed.B. (State University College, Fredonia); Ed.M., Ed.D. (State University of New York, Buffalo)

FRANKLIN G. HENGERER, JR. (1965) ..... *TV Producer-Director*  
 B.A. (State University of New York at Buffalo); M.F.A. (Yale)

PHYLLIS K. HERDENDORF (1963) ..... *Associate Professor, German*  
 A.B. (Kent); M.A. (Indiana)

VIRGINIA HERGER ..... *Cooperative Teacher, Buffalo Public School 52*  
 B.S. (State University of New York, Buffalo)

ELEANOR B. HERLING (1964) ..... *Associate Librarian*  
 A.B. (Barnard); B.S. (Columbia)



THOMAS B. HERTHEL (1960) ..... *Assistant Professor, English*  
A.B. (Washington University); M.A. (Mills); Ph.D. (Cornell)

DONALD A. HESS (1964) ..... *Associate Professor, Speech Pathology and*  
B.S.Ed. (Clarion); M.Ed., Ed.D. (Pennsylvania State) ..... *Audiology*

NANCY P. HICKERSON (1965) ..... *Assistant Professor, Social Studies*  
B.A. (Barnard); M.A., Ph.D. (Indiana)

PAUL A. HILAIRE (1956) ..... *Associate Professor, Mathematics*  
B.S. (State Teachers College, California, Pennsylvania); M.Ed. (Pittsburgh)

JOHN L. HILL, JR. (1958) ..... *Associate Professor, Art, Campus School*  
B.S. (State University College, Buffalo); M.A. (Columbia)

ALBERT A. HIMMEL (1962) ..... *Associate Professor, Chemistry*  
B.A. (Syracuse); M.A. (Montclair)

WILLIAM G. HOEFERT (1964) ..... *Assistant Professor, Industrial Arts*  
B.S., M.S. (State University College, Buffalo)

FRANK A. HOFFMANN (1966) ..... *Associate Professor, English*  
A.B., A.M. (Bucknell)

PATRICIA HOGAN (1966) ..... *Assistant Professor, Exceptional*  
..... *Children Education*  
B.S. (Wisconsin); M.A. (Columbia); M.A. (San Fernando State)

GEORGE T. HOLE (1965) ..... *Assistant Professor, Philosophy*  
B.A. (Rochester)

ISABEL H. HOLLANDS (1963) ..... *Residence Hall Director—North Wing*  
B.S. (State University College, Buffalo)

FREDERICK J. HOLLISTER (1948) ..... *Professor, Sociology*  
A.B. (Union); M.A. (State University College, Albany); Ph.D. (Syracuse)

PAUL R. HOMER (1954) ..... *Associate Professor, Music*  
B.A., M.A. (Columbia)

SAUL J. HOROWITZ (1960) ..... *Associate Professor, Painting*  
Diploma (Society of Arts and Crafts); B.S.Ed. (Wayne State); M.F.A. (Cranbrook)

CONSTANCE HSU (1966) ..... *Assistant Librarian*  
B.A. (National Taiwan University); M.S. (Kansas State Teachers College)

JULIUS J. HUBLER (1948) ..... *Professor, Art*  
B.S. (Southeast Missouri); M.A., Ed.D. (Columbia)

DANIEL R. HUNTER, JR. (1964) ..... *Assistant Director of Activities*  
B.S. (State University College, Buffalo)

DONALD B. HYATT (1965) ..... *Television Technician*  
B.S.V.T. (State University College, Buffalo)

CARMEN IANACCONE (1966) ..... *Assistant Professor, Exceptional*  
..... *Children Education*  
B.S. (State University College, Buffalo); M.A. (San Francisco State)

S. JAMES JAKIEL (1963) ..... *Assistant Professor, English*  
B.S., M.S. (State University College, Buffalo)

CLEVELAND JAUCH, JR. (1966) ..... *Assistant Professor, English*  
A.B. (Princeton); M.A. (Columbia); M.A., Ph.D. (Yale)

IRAJ JAVIDPOUR (1964) ..... *Associate Professor, Biology*  
M.S. (Michigan); Ph.D. (Wisconsin)

JULIA B. JONES (1962) ..... *Associate Professor, Education, Campus School*  
B.S., M.S. (State University College, Buffalo)

LAYMAN JONES, JR. (1966) ..... *Professor, Art*  
B.A., M.A. (Tulsa); Ed.D. (Pennsylvania State)

GEORGE L. KALTSOUNIS (1963) ..... *Associate Professor, Education*  
B.A., M.A., Ph.D. (Michigan)

ESTELLE M. KANE (1959) ..... *Associate Professor, Home Economics*  
B.S. (Kent State); M.A. (State University of Iowa)

PHYLLIS KANTOR (1966) ..... *Instructor, Science*  
B.S. (City College of New York); M.S. (Syracuse)

LEONARD KAPLAN (1963) ..... *Assistant Professor, Education*  
B.S. (State University College, Buffalo); M.A. (Columbia)

RUTH M. KARCHER (1930) ..... *Associate Professor, Design with Fibers*  
A.B. (Ohio Wesleyan); A.M. (Columbia)

MICHAEL G. KARNI (1966) ..... *Instructor, English*  
A.A. (Virginia Jr. College); B.A. (Minnesota); M.Ed. (Maine)

STANLEY F. KASPRZYK (1960) ..... *Associate Professor, Industrial Arts*  
A.B. (University of California); M.S. (University of Pennsylvania)

SHIRLEY S. KASSMAN (1958) ..... *Assistant Professor, Art*  
B.S., M.S. (State University College, Buffalo)

ELSIE U. KAYE (1964) ..... *Assistant to the Director of Public Information*  
B.A. (State University of New York, Buffalo); B.Litt. (Columbia)

JAMES M. KEECH, JR. (1965) ..... *Assistant Professor, English*  
A.B. (North Carolina); M.A. (Louisiana State); Ph.D. (Louisiana State)

ELEANOR G. KELLY (1947) ..... *Associate Professor, Education*  
B.S. (State University of New York, Buffalo); M.A. Professional Diploma (Columbia)

LENORE KEMP (1950) ..... *Associate Librarian*  
B.S. (State University College, Buffalo); M.S. in L.S. (State University of New York, Buffalo)



- DOROTHY A. KENNEDY (1963) ..... *Associate Professor, Mathematics*  
B.A. (Vassar); M.A. (Columbia); M.S. (State University of New York, Buffalo)
- EVAN J. KERN (1964)\* ..... *Assistant Professor, Art*  
B.Sc., M.A. (Ohio State)
- MAURICE L. KEROACK (1963) ..... *Assistant Professor, Industrial Arts*  
B.S. (State University College, Oswego)
- MARIE KERR ..... *Cooperative Teacher, Buffalo Public School 52*  
B.S. (State University College, Buffalo); M.Ed. (Canisius)
- HENRY KLOMP (1955) ..... *Professor, English*  
A.B. (Calvin); M.A., Ph.D. (Michigan)
- JOHN H. KNIFFIN (1965) ..... *Assistant Librarian*  
B.A. (State University of New York at Buffalo); M.L.S. (State University College at Geneseo)
- ROBERT H. KOHLER (1966) ..... *Professor, Physics*  
B.S., Ph.D. (Massachusetts Institute of Technology)
- ROBERT KRUEGER (1966) ..... *Associate Professor, Education*  
B.S., M.S. (Illinois State)
- KATHERNE P. KUBALA (1965) ..... *Residence Hall Director—*  
B.A., Ed.M. (State University of New York, Buffalo) *Scajaquada Complex*
- THEODORE W. KURY (1963) ..... *Assistant Professor, Geography*  
B.A. (Montclair); M.A. (Louisiana State)
- MARVIN J. LaHOOD (1964) ..... *Associate Professor, English*  
B.S. (Boston); M.A., Ph.D. (Notre Dame)
- CHARLES P. LaMORTE (1955) ..... *Vice President for Student Affairs*  
A.B., M.A., Ed.D. (Columbia)
- MADELINE LaRUE (1966) ..... *Instructor, Foreign Language*  
M.A. (California)
- RICHARD H. LAMPKIN (1950) ..... *Professor, Science*  
A.B., B.Ed., M.Ed. (Cincinnati); Ph.D. (Columbia)
- DAVID W. LANDREY (1965) ..... *Instructor, English*  
B.A. (Hobart)
- LORRAINE A. LANGE (1948) ..... *Director, Elementary Education Division*  
B.A. (Iowa State); M.A., Ph.D. (Ohio State)
- GEORGE M. LAUG (1949) ..... *Professor, Biology*  
B.S., M.S., Ph.D. (Syracuse)
- WILMA LAUX (1949) ..... *Associate Professor, Geography*  
B.S. (State University College, Buffalo); M.A. (Ohio State)

\*On leave 1966-67

- JEANNE LEDOUX (1961) ..... *Assistant Professor, Education, Campus School*  
A.B. (Mercyhurst); M.S. (State University College, Buffalo)
- CHARLES R. LEFCOURT (1964) ..... *Assistant Professor, English*  
B.S., M.A. (New York); Doct. Univ. (Paris)
- CAROLYN A. LEHR (1965) ..... *Instructor, Health, Physical Education and Recreation*  
B.A. (Syracuse); M.S. (State University College, Buffalo)
- JUSTIN F. LEIBER (1966) ..... *Assistant Professor, Philosophy*  
B.A., M.A. (Chicago)
- BURTON M. LEISER (1965) ..... *Assistant Professor, Philosophy*  
B.A. (Chicago); M. Heb. Lit. (Yeshiva)
- DONALD D. LEOPARD (1963)\* ..... *Assistant Professor, History*  
B.S. (Dayton); M.A. (New Mexico)
- DONALD A. LEUSCHEL (1966) ..... *Assistant Professor, Foreign Language*  
B.A. (University of Puerto Rico); M.A., Ph.D. (Indiana)
- GORDON H. LEVI (1963) ..... *Assistant Professor, Industrial Arts*  
B.S. (State University College, Oswego); M.S. (State University College, Buffalo)
- MYRON E. LEWIS, JR. (1962) ..... *Associate Director of Education*  
B.S., M.S. (State University College, Oswego)
- WILLIAM S. LICATA (1959) ..... *Associate Professor, Education*  
B.S. (State University College, Buffalo); M.E. State University of New York, Buffalo)
- SHARON C. LIN (1965) ..... *Assistant Librarian*  
B.A. (National Taiwan U.); M.A. (Minnesota)
- EDNA M. LINDEMANN (1946) ..... *Director of Development and Cultural Affairs*  
B.S. (State University of New York, Buffalo); M.A. (Northwestern); Ed.D. (Columbia)
- DONALD F. LINDOW (1965) ..... *Assistant Professor, Chemistry*  
B.S. (Case Institute)
- YOLANDA LIU (1965) ..... *Assistant Librarian*  
B.A. (National Taiwan); M.L.S. (Carnegie Institute)
- HAROLD R. LOFGREN (1949) ..... *Professor, Adolescent Art*  
B.S. (Miami); M.A. (Columbia)
- NORMAN J. LOPES (1962) ..... *Instructor, Industrial Arts*  
B.S. (New Bedford)
- ROBERT A. LORENZ (1963) ..... *Assistant Professor, Sociology*  
B.S., M.S. (Northern Illinois)

\*On leave 1966-67



JERALD E. LOUNSBURY (1965) ..... *Coordinator of Financial Aids*  
B.A., M.A. (Michigan State)

JACK C. LOVE (1962) ..... *Assistant Professor, Industrial Arts*  
B.S., M.A. (Kent)

ROBERT B. LUDWIG (1964) ..... *Assistant Professor, Mathematics*  
B.A. (Iowa); M.A. (Missouri)

HOWARD B. MACADAM (1961) ..... *Associate Professor, Health, Physical*  
B.S., M.A. (Michigan State) ..... *Education and Recreation*

RUSSELL MACALUSO (1966) ..... *Assistant Professor, Campus School*  
B.S., M.S. (State University of New York, Buffalo)

GEORGE M. MACDONALD (1963) ..... *Assistant Professor, Health, Physical*  
B.S. (Bowling Green); M.A. (Michigan) ..... *Education and Recreation*

FRANKLIN C. MACKNIGHT (1961) ..... *Associate Professor, Science*  
Ph.B., Ph.D. (Chicago)

OLAF MALMIN (1966) ..... *Assistant Professor, Music*  
B.M. (Pacific Lutheran University); M.A. (Iowa)

HORACE MANN (1953) ..... *Director, Exceptional Children Education*  
A.B. (Brooklyn); A.M. (Columbia); Ph.D. (Pennsylvania State) ..... *Division*

ATTILA MARKUS (1966) ..... *Instructor, Social Studies*  
B.A., M.A. (State University of New York, Buffalo)

RICHARD L. MARSH (1963) ..... *Instructor, Health, Physical Education*  
B.S. (Eastern Michigan); M.S. (Illinois) ..... *and Recreation*

BARBARA MARSHALL (1966) ..... *Instructor, English*  
B.A., M.A. (State University of New York, Buffalo)

PAUL D. MARTIN (1961) ..... *Associate Professor, Graphics*  
B.A., M.F.A. (Southern Illinois)

ANNA A. MARTORANA (1946) ..... *Professor, Education*  
B.S. (State University College, Buffalo); M.A. (Columbia); Ph.D. (Minnesota)

KISHIO MATOBA (1965) ..... *Associate Professor, Art*  
B.S., M.S. (Wisconsin)

JUNE M. McARTNEY (1965) ..... *Associate Professor, Mathematics*  
B.A. (D'Youville); M.A. (State University of New York, Buffalo)

F. PATRICK McCABE (1956) ..... *Assistant Professor, Education,*  
B.S., M.S. (State University College, Buffalo) ..... *Campus School*

MAX H. McCOMB (1958) ..... *Associate Professor, Education*  
B.S. (Clarion State); M.Ed. (Temple)

HERBERT H. McCOY, JR. (1965) ..... *Assistant Professor, Audio-Visual*  
B.S., M.S. (Syracuse) ..... *Education*

JAMES R. McDONNELL (1964) ..... *Assistant Professor, History*  
B.S. (State University College, Buffalo); M.S. (State University College, Fredonia)

G. ALLEN McFARREN (1965) ..... *Associate Professor, Social Studies*  
B.A. (Muskigum); M.Ed. (Kent State); Ph.D. (Ohio State)

HUGH E. McKENNA (1965) ..... *Assistant Professor, Audio-Visual*  
..... *Education*  
B.S. (State University College, Brockport); M.S. (Syracuse)

MONICA C. MEAGHER (1959) ..... *Associate Professor, Home Economics*  
B.S. (State University College, Plattsburgh); M.S. (Purdue)

ROBERT F. MEHL (1966) ..... *Assistant Professor, English*  
B.A. (College of Wooster); M.A., Ed.D. (State University of New York, Albany)

ROLF B. MEMMING (1965) ..... *Instructor, Social Studies*  
A.B. (Villanova)

WINIFRED MERNAN (1963) ..... *College Physician*  
M.D. (State University of New York, Buffalo)

HOWARD J. MEYER (1950) ..... *Associate Professor, Industrial Arts*  
B.S. (State University College, Buffalo); Ed.M. (State University of New York, Buffalo)

RUDOLF MEYER (1965) ..... *Coordinator of Computer Mathematics*  
B.A., M.A. (State University of New York, Buffalo)

HOWARD A. MEYERS, JR. (1964) ..... *Assistant Professor, Health, Physical*  
B.S., M.S. (State University College, Buffalo) ..... *Education, and Recreation*

ANTHONY MILANOVICH (1950) ..... *Professor, Education*  
B.S., M.S. (Indiana State); Ph.D. (Ohio State)

BERTRAM MILLER ..... *Principal, Buffalo Public School 52*  
B.S. (State University College, Buffalo); M.Ed. (State University of New York, Buffalo)

REX MILLER (1957) ..... *Professor, Industrial Arts*  
B.A. (Iowa State Teachers); M.A. (Colorado State); Ed.D. (State University of New York, Buffalo)

BENJAMIN H. MIN (1964) ..... *Assistant Professor, History*  
B.A. (Wisconsin); M.A. (Massachusetts)

ROBERT E. MOISAND (1960) ..... *Assistant Professor, Biology*  
B.S., M.S. (Illinois)

SILAS R. MOLYNEAUX (1964) ..... *Director of Public Information*  
B.A. (Houghton); M.A. (Columbia) (Col. U.S.A.F. Ret)

MELVERN MOLYNEUX (1966) ..... *Assistant Professor, Campus School*  
B.S. (State University College, Brockport); M.A. (Peabody)



MARY ANN MONROE (1961) ..... *Student Employment Counselor*  
B.S. (State University College, Geneseo); M.S. (Syracuse)

MABEL D. MONTGOMERY (1958) ..... *Professor, Mathematics*  
A.B. (Houghton); M.A., Ph.D. (State University of New York, Buffalo)

JAMES J. MOONEY (1963) ..... *Associate Professor, Industrial Arts*  
B.S. (Ellendale); M.E. (Colorado)

EDWARD E. MORGAN, JR. (1965) ..... *Admissions Counselor*  
B.A. (Morehead State); M.Ed. (Pennsylvania State)

JOAN MORGAN (1965) ..... *Residence Hall Director—Neumann Hall*  
A.B. (Russell Sage); M.Ed. (Pennsylvania State)

JANE E. MORRIS ..... *Cooperative Teacher, Buffalo Public School 52*  
B.A. (Keuka); M.E. (State University of New York, Buffalo)

RUTH S. MUCK (1942) ..... *Professor, Education, Campus School*  
B.S., M.S. (State University College, Buffalo)

GARY L. MUSSER (1964) ..... *Assistant Professor, Mathematics*  
B.S., M.S. (Michigan)

HILDA K. MYERS (1962) ..... *Assistant Professor, Education*  
B.S. (Cornell); M.S. (State University College, Cortland)

VALENTINE J. NADOLINSKI (1947) ..... *Professor, Biology*  
B.A., M.A. (State University of New York, Buffalo)

HUGH M. NEIL (1964) ..... *Instructor, Art*  
B.S. (State University College, Buffalo)

EMERSON E. NEUTHARDT (1946) ..... *Professor, Industrial Arts*  
B.S. (State University College, Oswego); M.A. (New York University);  
Ed.D. (State University of New York, Buffalo)

NORMAN NIESEN (1966) ..... *Professor, Exceptional Children Education*  
B.S. (Wisconsin State); M.A. (Columbia); Ed.D. (Colorado State)

KAREN K. NOONAN (1966) ..... *Instructor, Social Studies*  
B.A., M.A. (State University of New York, Buffalo)

DOROTHY E. NORRIS (1959) ..... *Associate Professor, Health, Physical*  
A.B. (Oberlin); M.A. (Columbia) ..... *Education and Recreation*

LLOYD E. NORTHEY (1966) ..... *Assistant Professor, Education*  
B.S. (State University College, Brockport); Ed.M. (State University College,  
Buffalo)

LEONARD NOWICKI (1965) ..... *Assistant Librarian*  
M.L.Sc. (Syracuse)

DONALD E. O'BRIEN (1963) ..... *Associate Professor, Health, Physical*  
B.S. (Columbia); M.S. (Pennsylvania State) ..... *Education and Recreation*

MAE O'BRIEN (1931) ..... *Professor, Education*  
B.S., M.A., Ph.D. (Columbia)

JOSEPH OLIVA (1965) ..... *Admissions Counselor*  
B.M. (Roosevelt); M.S. (State University College, Buffalo)

PATRICIA E. O'NEIL (1963) ..... *Assistant Professor, Home Economics*  
B.A. (Puget Sound); M.S. (Texas Women's University)

ELIZABETH O'SHEA (1966) ..... *Assistant Professor, Exceptional*  
B.S., M.S. (State University of New York, Buffalo) ..... *Children Education*

ARLENE L. OSTERMEIER (1964) ..... *Assistant Professor, Home Economics*  
B.A. (St. Olaf); M.A. (Michigan State)

VITO R. PACE (1963) ..... *Assistant Professor, Industrial Arts*  
B.A., M.S. (State University College, Oswego)

JOSEPH M. PAGE (1961) ..... *Associate Professor, Speech Pathology and*  
B.A. (Grand Forks); M.S. (Wisconsin) ..... *Audiology*

CHESTER L. PALMER (1965) ..... *Professor and Chairman, Health, Physical*  
B.S. (Rice); A.M., Ed.D. (Columbia) ..... *Education and Recreation*

JOHN A. PALMER (1960) ..... *Associate Director of Admissions*  
B.S. (State University College, Buffalo); M.A. (State University of New  
York, Buffalo)

WILLIAM C. PALMETER, JR. (1948) ..... *Associate Professor, Industrial Arts*  
B.S., M.M. (State University College, Buffalo)

ANGELA R. PALMIERI (1963) ..... *Associate, Office of the Vice-President*  
B.S., M.A. (Rochester) ..... *for Student Affairs*

EDWARD E. PANTHER (1965) ..... *Associate Professor, Child Study Center*  
B.S.Ed., M.S. (Illinois State)

MARY B. PARKE (1965) ..... *Associate Professor, Home Economics*  
B.A. (Vassar); M.Ed. (State University of New York at Buffalo)

RICHARD C. PEARCE (1964) ..... *Assistant Professor, Education*  
B.S., M.S. (State University College, Buffalo)

LOIS W. PEARSON (1960) ..... *Associate Professor, Education*  
B.S., M.S. (State University College, Buffalo)

ROBERT W. PEARSON (1964) ..... *Assistant Professor, Health, Physical*  
B.S., M.S. (State University College, Buffalo) ..... *Education and Recreation, Campus School*

RICHARD C. PEGNETTER (1966) ..... *Instructor, Social Studies*  
B.A., M.Ed. (Indiana University, Pennsylvania)

ELIZABETH G. PENN (1947) ..... *Professor, Education*  
B.S. (New Jersey); M.A., Ed.D. (Columbia)



JOHN R. PEO (1964)\* ..... *Assistant Professor, Education*  
A.B., M.Ed. (Rochester)

GRETCHEN S. PEREZ (1966) ..... *Instructor, Education*  
B.S. (State University College, Buffalo); M.S. (Canisius)

MARIA D. PETER (1966) ..... *Associate Professor, Campus School*  
M.A. (Boston)

HAROLD F. PETERSON (1933) ..... *Professor, History*  
A.B. (Knox); M.A. (Minnesota); Ph.D. (Duke)

SARAH S. PHINNEY (1965) ..... *Assistant Librarian*  
A.B. (Oberlin); M.A. (State University of New York, Albany); M.S.L.S.  
(Western Reserve)

JOSEPH C. PILERI (1966) ..... *Associate Professor, Vocational*  
B.S., M.S. (State University College, Buffalo) ..... *Technical Division*

JAMES R. PILKEY (1963) ..... *Admissions Counselor*  
B.S. (State University College, Brockport)

JULIA C. PIQUETTE (1952) ..... *Professor, English*  
B.S., M.A., Ph.D. (Northwestern)

MICHAEL PIROWSKIN (1964) ..... *Admissions Counselor*  
B.S. (State University College, Buffalo); Ed.M. (State University of New  
York, Buffalo)

ARTHUR W. PITTS, JR. (1963) ..... *Assistant Professor, English*  
A.B. (Princeton); A.M. (Catholic University); Ph.D. (Louisiana State)

ROBERT M. POCKRASS (1966) ..... *Assistant Professor, Social Studies*  
B.S. (Connecticut); M.A. (Teachers College, Columbia)

LEONARD J. POLESZAK (1956) ..... *Professor, Industrial Arts*  
B.S. (State University College, Buffalo); Ed.M. (State University of New  
York, Buffalo); Ed.D. (Michigan State)

RONALD POLISOTO (1966) ..... *Instructor, Mathematics*  
B.S. (Rochester)

ADRIAN P. POLLOCK (1964) ..... *Associate Professor, Industrial Arts*  
B.S. (Stout College); M.E. (Wayne State)

SHIRLEY A. POSNER (1966) ..... *Assistant Librarian*  
B.S. (State University of New York, Buffalo); M.L.S. (State University Col-  
lege, Geneseo)

MARK L. PRICE (1965) ..... *Instructor, English*  
B.A., M.A. (Miami)

JUNE B. PRINCE (1948) ..... *Associate Professor, Health, Physical Education*  
B.S. (Indiana); M.Ed. (Pennsylvania) ..... *and Recreation*

\*On leave 1966-67

MARY LOU PULEO (1963) ..... *Assistant Professor, Health, Physical*  
Education and Recreation  
B.S. (Columbia); M.S. (State University College, Buffalo)

THOMAS J. QUATROCHE (1964) ..... *Associate, Office of the Vice-President*  
for Student Affairs  
B.S. (State University College, Fredonia); M.S. (State University of New  
York, Albany)

KAARE RAFOOS (1966) ..... *Instructor, Art*  
B.F.A. (Pratt Institute); M.F.A. (Yale)

LORAIN M. RAPS (1951) ..... *Counselor*  
R.N. (Buffalo General); B.S. (State University of New York, Buffalo)

HELEN RAVIN (1963) ..... *Associate Librarian*  
B.A. (State University of New York, Buffalo)

JOHN E. REEDY (1965) ..... *Associate Professor, English*  
A.B. in Th. (Gordon); M.Ed. (Maine); Ed.D. (Boston)

MARJORIE J. REIDELL (1964) ..... *Assistant Professor, Mental Retardation*  
B.S., M.S. (State University College, Buffalo)

RUTH REIMAN ..... *Cooperative Teacher, Buffalo Public School 52*  
B.S. (State University College, Buffalo); M.A. (State University of New  
York, Buffalo)

BETTY L. REISMAN (1965) ..... *Residence Hall Director—High Rise*  
B.A. (Western Reserve); M.A. (Kent State)

ELBRIDGE A. RENNING, JR. (1965) ..... *Assistant Professor, Geography*  
B.A., M.A. (State University of New York, Buffalo)

RONALD M. REUSS (1964) ..... *Assistant Professor, Biology*  
B.A., M.A. (State University of New York, Albany)

JOY RICOTTA (1965) ..... *Cooperative Teacher, Buffalo Public School 52*  
B.S. (St. Mary's Seminary)

ROBERT E. RIVENBARK (1966) ..... *Associate Professor, English*  
A.B. (Oglethorpe); M.A. (John Hopkins)

DAVID P. ROBBINS (1965) ..... *Instructor, Geography*  
A.B. (Rochester); M.A. (California)

HOUSTON T. ROBISON (1949) ..... *Vice-President for Academic Affairs*  
B.S., M.S. (Oregon); Ph.D. (Chicago)

LLOYD E. ROBISON (1960)\* ..... *Associate Professor, Education*  
B.S., M.S. (Southern Illinois)

CECIL T. RODNEY (1948) ..... *Professor, Mathematics, Chairman of the*  
B.S. (St. Lawrence); M.A. (Columbia) ..... *Department*  
Ed.D. (State University of New York, Buffalo)

\*On Leave 1966-67.



JOHN A. ROEDER (1962) ..... *Professor, Vocational Technical Education*  
B.Ed., M.Ed. (State University of New York, Buffalo)

MILDRED S. ROESSER (1940) ..... *Professor, History*  
B.S., M.A., Ed.D. (State University of New York, Buffalo)

DAVID A. ROGERS (1950) ..... *Director, Graduate Studies*  
B.A., M.A. (State University of New York, Buffalo); Ph.D. (Wisconsin)

JOHN R. ROGERS (1966) ..... *Assistant Professor, Campus School*  
B.S. (State University College, Buffalo); M.A. (Teachers College, Columbia)

LEO F. ROMANIUK (1956) ..... *Associate Professor, Industrial Arts*  
B.S., M.S. (State University College, Buffalo)

RAE H. ROSEN (1963) ..... *Assistant Professor, Education, Campus School*  
B.S.Ed., M.S.Ed. (State University College, Buffalo)

JEROME ROTHLEIN (1964) ..... *Assistant Professor, Art*  
A.B., A.M. (New York)

GREGORY R. ROY ..... *Instructor, Mathematics*  
B.S. (State University College, Buffalo)

ELLSWORTH M. RUSSELL (1948) ..... *Professor, Industrial Arts*  
B.E. (Eastern Illinois); M.S. (Iowa State); Ed.D. (Pennsylvania State)

LAWRENCE J. SACKS (1965) ..... *Associate Professor, Chemistry*  
A.B. (Drew); M.S. (Pennsylvania State); Ph.D. (Illinois)

SANDRA SAMPSON (1966) ..... *Assistant Professor, Home Economics*  
B.A. (Arizona State); M.S. (Oregon State)

FRANCES M. SANFILIPPO (1962) ..... *Instructor, Foreign Language*  
B.S. (State University College, Buffalo)

DONALD J. SAVAGE (1963) ..... *Professor, English*  
A.B. (Hamline); M.A., Ph.D. (Minnesota)

CHRISTOPHER F. SCADRON (1962) ..... *Assistant Professor, Art*  
B.A. (Wesleyan); B.F.A. (Rhode Island); M.F.A. (Catholic University)

WINIFRED E. SCHASEL (1963) ..... *Associate Professor, Home Economics*  
B.S. (Bowling Green); M.S. (Cornell)

WILLIAM C. SCHEFLER (1958) ..... *Professor, Biology,*  
*Chairman of the Department*  
B.A., Ed.M., Ed.D. (State University of New York, Buffalo)

KENNETH E. SCHNOBRICH (1966) ..... *Instructor, Science*  
B.S. (State University College, Buffalo)

MARGARET M. SCHRADER (1963) ..... *Assistant Professor, Nursery,*  
*Campus School*  
B.S. (State University College, Buffalo)  
Ed.M. (State University of New York, Buffalo)

M. LYNNE SCHRAMM (1965) ..... *Assistant Professor, English, Campus*  
B.S. (Mansfield); Ed.M. (State University of New York at Buffalo) *School*

CHARLES R. SCHREIBER (1964) ..... *Instructor, Education*  
B.S. (State University College, Brockport); M.S. (State University College, Buffalo)

CONRAD J. SCHUCK (1947) ..... *Associate Professor, English*  
A.B. (Dartmouth); M.A. (Harvard)

CHARLES B. SCOFIELD (1963) ..... *Associate Professor, Industrial Arts*  
B.S. (State University College, Buffalo); M.Ed. (Ball State Teachers)

GLENDON SEAMAN (1965) ..... *Facilities Program Coordinator*  
B.S. (State University College, Buffalo); M.A. (Colorado State)

EDWARD L. SEEGER (1958) ..... *Associate Professor, Biology*  
B.S., M.S. (Marshall)

DONALD W. SEEL (1962) ..... *Assistant Professor, Social Studies*  
B.A., M.Ed. (State University of New York, Buffalo)

RICHARD P. SEIBERT (1964) ..... *Assistant Professor, Social Studies*  
B.S., M.A. (Bowling Green)

HOWARD G. SENGBUSCH (1951) ..... *Dean of Arts and Science*  
B.S. (State University College, Buffalo); Ed.M. (State University of New York, Buffalo); M.S., Ph.D. (New York)

ALLEN G. SEXTON (1953) ..... *Professor, History and Director, Secondary*  
*Education Division*  
B.S. (State University College, Buffalo); M.A., Ed.D. (State University of New York, Buffalo)

FRANK E. SHARKEY (1966) ..... *Associate Professor, Industrial Arts*  
B.S., M.A. (Ball State)

PATRICIA SHEFFER (1965) ..... *Cooperative Teacher, School 52*  
B.S. (D'Youville)

HARRY J. SHELDON (1961) ..... *Assistant Professor, Education,*  
*Campus School*  
B.S., M.S. (State University College, Plattsburgh)

GEORGE R. SHERRIE (1947) ..... *Vice-President for Administration*  
B.S. (State University College, Buffalo); Ed.M. (State University of New York, Buffalo); Ed.D. (Syracuse)

J. STEPHEN SHERWIN (1956) ..... *Professor, English, Chairman of the*  
*Department*  
B.S. (Wisconsin); M.A. (Columbia); Ed.D. (New York University)

FRANCES T. SIEMANKOWSKI (1964) ..... *Associate Professor, Science*  
B.S. (State University College, Buffalo); M.Ed. (State University of New York, Buffalo)

DOUGLAS E. SIGLER (1965) ..... *Instructor, Art*  
A.A.S., B.S.A. (Rochester Institute)



NOEL SIMMONS (1959) ..... *Professor, Chemistry*  
 B.S. (CCNY); M.S. (Ohio State); Ph.D. (Minnesota)

ROBERT B. SIMPSON (1966) ..... *Dean of Professional Studies*  
 A.A. (California); A.B., M.A. (Stanford); Ed.D. (Teachers College, Columbia)

JULIUS P. SLAVENAS (1962) ..... *Assistant Professor, History*  
 B.A., M.A. (Illinois)

ALDEN E. SMITH (1965) ..... *Assistant Professor, Biology*  
 B.A. (Colorado); Ed.M. (State University of New York at Buffalo); M.S. (Syracuse)

EDWARD O. SMITH, JR. (1963) ..... *Assistant Professor, History*  
 B.A. (Muhlenberg); M.A. (Lehigh)

JOHN R. SMITH (1965) ..... *Assistant Professor, Social Studies*  
 B.S., M.S. (State University College, Buffalo)

MARGUERITE M. SMITH (1954) ..... *Associate Professor, Education, Campus School*  
 B.S. (Alabama); M.Ed. (Pennsylvania)

SIGMUND A. SMITH (1964) ..... *Director of Science and Mathematics Division*  
 B.S. (State University of New York, Albany); M.S. (State University College, Brockport); M.S. (Illinois); Ed.D. (Pennsylvania State)

RALPH D. SOLLARS (1965) ..... *Associate Professor, Education*  
 B.S. (Ohio State); M.Ed. (Bowling Green)

STEPHEN SPIELMAN (1966) ..... *Assistant Professor, Philosophy*  
 B.S. (Massachusetts Institute of Technology); M.A. (Pennsylvania)

HEDDA S. SPROGHE (1965) ..... *Assistant Professor, Education*  
 B.S., M.S. (State University College, Buffalo)

ROBERT SQUERI (1955) ..... *Professor, Art*  
 B.A. (Brooklyn); M.A., Ed.D. (Columbia)

PAMELA M. STACEY (1965) ..... *Instructor, Foreign Language*  
 B.A. (Oregon)

EUGENE C. STAFFORD (1964) ..... *Instructor, Industrial Arts*  
 B.S. (State University College, Oswego)

H. GENE STEFFEN (1946) ..... *Professor, Education, Coordinator of Audio-Visual Education*  
 B.S. (State University College, Buffalo); Ed.M. (State University of New York, Buffalo); Ph.D. (Cornell)

HENRY M. STEIGER, JR. (1963) ..... *Assistant Professor, Industrial Arts*  
 B.S., M.S. (State University College, Buffalo)

ROBERT C. STEIN (1965) ..... *Professor, Biology*  
 B.A. (St. Olaf); M.S., Ph.D. (Cornell)

JUDITH A. STEINHAUSER (1966) ..... *Instructor, Art*  
 B.S. (State University College, Buffalo)

BENJAMIN STEINZOR (1953) ..... *Professor, Ceramics*  
 B.S. (New York); Ed.M. (Alfred); Ph.D. (Southern California)

SAMUEL T. STERN (1962) ..... *Professor, Mathematics*  
 B.A., M.A., Ph.D. (State University of New York, Buffalo)

BERTHA C. STERNBERG (1965) ..... *Assistant Librarian*  
 B.A., M.L.S. (State University of New York, Buffalo)

SARAH STERRETT (1949) ..... *Associate Professor, Education, Campus School*  
 B.A. (University of Wales); M.S. (State University College, Buffalo)

FRANCIS G. STEWART (1962) ..... *Director of the Office of Admissions and Records*  
 A.B. (Grove City); Th.B. (Western Seminary); M.Ed., Ph.D. (Pittsburgh)

JAMES L. STEWART (1963) ..... *Assistant Professor, Industrial Arts*  
 B.S. (Ball State Teachers); M.A. (Columbia)

SUSAN STIEVATER (1966) ..... *Assistant Librarian*  
 B.A. (Rosary Hill)

NEIL R. STILLMAN (1963) ..... *Associate Professor, Industrial Arts*  
 B.S., M.S. (State University College, Buffalo)

RAYMOND P. STONE (1959) ..... *Professor, Political Science*  
 A.B. (Massachusetts); M.A. (Princeton); Ph.D. (Princeton)

MABEL M. STONER (1960) ..... *Associate Professor, Home Economics*  
 B.S. (West Virginia); M.Ed. (Pennsylvania State)

ALICE STRAUSS (1965) ..... *Assistant Director of Housing*  
 B.A. (State University of New York at Buffalo)

BURTON STULBERG (1956) ..... *Consulting Psychiatrist*  
 B.A., M.S.S., M.D. (State University of New York, Buffalo)

JOHN E. STURM (1966) ..... *Assistant Professor, Education*  
 A.B. (Bowdoin); M.Ed. (New Hampshire)

RUTH SUGARMAN (1946) ..... *Professor, Education*  
 B.S. (State University College, Buffalo); M.A. (Northwestern); Ed.D. (State University of New York, Buffalo)

BENEDICT J. SURWILL, JR. (1963) ..... *Principal, Campus School*  
 B.S., M.A. (Arizona); Ed.D. (Colorado)

HENRY J. SUSTAKOSKI (1964) ..... *Assistant Professor, English*  
 B.A., M.A. (State University of New York, Buffalo)

DORIS SWANSON (1966) ..... *Instructor, Campus School*  
 B.S. (State University College, Buffalo)

CHARLES A. SWEDLUND (1963) ..... *Assistant Professor, Photography*  
 B.S., M.S. (Illinois Institute of Technology)

ROBERT A. SWEENEY (1966) ..... *Assistant Professor, Biology*  
 B.S. (State University of New York, Albany); M.S. (Ohio State)



- WILLIAM H. TALLMADGE (1949)\* ..... *Associate Professor, Music*  
B.M., M.M. (Oberlin)
- PAUL TARANTINO (1964) ..... *Assistant Professor, Design*  
B.F.A. (Carnegie); M.F.A. (Cranbrook)
- IRVING H. TESMER (1957) ..... *Professor, Geology*  
B.A., M.A. (State University of New York, Buffalo); Ph.D. (Syracuse)
- CLEMENT T. TETKOWSKI (1949) ..... *Professor, Community Design*  
B.S. (New Jersey State); M.A., Ed.D. (Columbia)
- DAVID H. THIELKING (1948) ..... *Professor, Physics*  
B.S. (St. Lawrence); Ed.M., Ed.D. (State University of New York, Buffalo)
- HELEN R. THIELKING (1946) ..... *Assistant Professor, English*  
B.S., M.S. (State University of New York, Albany)
- DONALD E. THOMAS (1964) ..... *Associate Professor, Deaf Education*  
B.A. (Central Washington College); M.A. (Columbia)
- EDMUND J. THOMAS (1963) ..... *Assistant Professor, English*  
B.A., M.A. (State University of New York, Buffalo)
- HOLLIS W. TIBBETTS, JR. (1965) ..... *Associate Professor, Mathematics*  
B.S. (State University of New York, Albany); M.S. (Syracuse)
- DORINNE W. TOOLE (1965) ..... *Assistant Professor, Education, Campus School*  
B.S., M.A. (State University College, Buffalo)
- GUY B. TORCHINELLI (1959) ..... *Associate Professor, Mathematics*  
B.S. (Hobart); M.S. (Illinois)
- RICHARD TOWNE (1966) ..... *Associate Professor, Exceptional  
Children Education*  
B.S. (State University College, Fredonia); M.S. (Canisius); M.A. (Michigan State)
- DORIS M. TRAFTON (1957)\* ..... *Assistant Professor, Education,  
Campus School*  
B.S. (New Hampshire); M.S. (Syracuse)
- DOROTHY R. TRAUTMAN (1965) ..... *Assistant Professor, Mathematics*  
B.S., M.S. (State University College, Buffalo)
- CHARLES O. TREES (1964) ..... *Assistant Professor, Social Studies*  
B.S. (Indiana); M.S. (Butler)
- HELENE TRIANTAFILLOU (1966) ..... *Instructor, Music*  
B.M. (Eastman School of Music, Rochester)
- CARLETON S. TRITT (1966) ..... *Assistant Professor, English*  
A.B. (Cornell)
- WILLIAM A. TROY (1965) ..... *Assistant Director of Financial Aids*  
B.S. (State University of New York, Buffalo)

\*On Leave 1966-67.

- TERENCE J. TRUDEAU (1961) ..... *Associate Professor, Industrial Arts*  
B.S. (State University College, Oswego); Ed.M. (St. Lawrence)
- DONALD W. TRUEBLOOD (1953) ..... *Associate Professor, English*  
B.S. (Eau Claire); M.A. (Northwestern)
- JUNE H. TRUESDALE (1946) ..... *Director of Placement*  
B.S. (State University College, Buffalo)
- NORMAN F. TRUESDALE (1947) ..... *Professor, Photography*  
B.S. (State University College, Buffalo); Ed.M., Ed.D. (State University of New York, Buffalo)
- REN-DEH TUAN (1962) ..... *Professor, Science*  
B.S. (Cheeloo); M.S., Ed.D. (Denver)
- EDWARD C. TURNER (1964) ..... *Instructor, Education*  
B.S., M.S. (State University College, Buffalo)
- MADELINE K. TURNER (1953) ..... *Nurse-Assistant Professor, Coordinator,  
Student Health Services*  
R.N. (Buffalo General); B.S. (State University of New York, Buffalo); M.A. (Columbia)
- PATRICIA A. TURSI (1964) ..... *Assistant Professor, Education*  
B.S. (Indiana State College); M.S. (West Virginia)
- RICHARD D. TWADDLE (1963) ..... *Assistant Professor, Mathematics*  
B.S. (Mayville); M.A. (Bowling Green)
- FRANCES S. L. TYAU (1959) ..... *Associate Professor, Education, Campus  
School*  
Ed.B. (Hawaii); M.A., Professional Diploma (Columbia)
- ROBERT T. TYLER (1963) ..... *Assistant Coordinator of Financial Aids*  
B.S. (Cornell)
- CHARLES S. UNDERHILL (1965) ..... *Assistant Librarian*  
A.B. (Williams College); B.L.S. (State University of New York, Buffalo)
- JOHN URBAN (1946) ..... *Professor, Science*  
B.S. (Kent State); A.M., Ph.D. (Columbia)
- ROLLAND VAN HATTUM (1963) ..... *Professor, Speech Pathology and  
Audiology*  
B.S. (Western Michigan); M.S., Ph.D. (Pennsylvania State)
- JOHN H. VANN (1963) ..... *Professor, Geography*  
B.A., M.S. (Louisiana State); Ph.D. (California)
- RUSSELL C. VANNOY (1961)\* ..... *Assistant Professor, Philosophy*  
A.B. (Missouri State); A.M. (Illinois); A.M. (Harvard)
- CONRAD C. VOGLER (1964) ..... *Instructor, Social Studies*  
B.S., M.S. (State University College, Brockport)
- MARY C. VUCINICH (1947) ..... *Professor, English*  
B.S., M.A. (Cincinnati); Ph.D. (Iowa)

\*On Leave 1966-67.



- JAMES J. VULLO (1960) ..... *Instructor, Drawing*  
(Art Institute of Buffalo); (Honolulu Academy of Art)
- MAZIE E. WAGNER (1950) ..... *Director of Counseling*  
B.A., M.A. (State University of New York, Buffalo); Ph.D. (Columbia)
- SAMUEL J. WAKSHULL (1963) ..... *Associate Professor, Mental Retardation*  
B.S., M.A. (New York University)
- NORMAN G. WALKER (1963) ..... *Assistant Professor, Education*  
B.S., M.S. (State University College, Buffalo)
- MARGARET WALLACE ..... *Cooperative Teacher, Buffalo Public School 52*  
B.S. (D'Youville)
- INEZ M. WARE (1959) ..... *Professor, Education*  
B.A. (Occidental); M.A., Ed.D. (Columbia)
- NORMAN F. WEAVER (1950) ..... *Professor, History*  
B.A. (Ball State Teachers); M.S., Ph.D. (Wisconsin)
- PAULINE A. WEAVER (1948) ..... *Associate Professor, Home Economics*  
B.S. (Ohio State); M.A. (Columbia)
- WILLIAM J. WEAVER (1964) ..... *Assistant Professor, Industrial Arts*  
B.S. (State University College, Oswego); M.A. (New York University)
- PAUL J. WEIGEL (1966) ..... *Director of Health Services*  
M.D. (State University of New York, Buffalo)
- GENE S. WELBORN (1958) ..... *Professor, Sociology*  
B.S. (Illinois); M.S. (Indiana); Ed.D. (New York University)
- MILDRED C. WELLS (1957) ..... *Professor, Education*  
B.A. (State University, Iowa); M.A., Ph.D. (Ohio State)
- JAMES E. WESTROPE (1963) ..... *Associate Professor, Mathematics*  
A.B., Ed., M.A. (Michigan)
- WENDEL B. WICKLAND (1964) ..... *Instructor, Biology*  
B.A. (Kalamazoo College); M.S. (Eastern Michigan University)
- RICHARD A. WIESEN (1964) ..... *Assistant Professor, Mathematics*  
B.S., Ed. (Clarion); M.S. (Syracuse)
- ROBERT E. WILD (1965) ..... *TV Art Specialist*  
B.F.A. (Rochester Institute of Technology)
- DuWAYNE E. WILSON (1960) ..... *Associate Professor, Design*  
B.S., M.S. (State University College, Buffalo)
- KENNETH A. WILSON (1966) ..... *Instructor, Music*  
B.M. (Auckland); M.M. (Indiana)
- MARGARET WILSON (1966) ..... *Assistant Professor, Science*  
B.A. (Smith); M.D. (University of Michigan Medical School)
- ROBERT C. WILSON (1963) ..... *Associate Professor, Design*  
B.A., M.A. (Los Angeles)

- JOSEPH F. WINCENC (1947) ..... *Professor, Music*  
Mus.B. (Oberlin); Mus.M. (State Conservatory of Music, Prague, Czechoslovakia); M.A. (Columbia)
- D. KENNETH WINEBRENNER (1939) ..... *Professor, Jewelry*  
B.S. (Indiana State, Pennsylvania); M.A., Ed.D. (Columbia)
- ROLAND WISE (1955) ..... *Associate Professor, Drawing*  
B.F.A. (Manitoba); M.A. (New York University)
- MONICA WOLCOTT ..... *College Nurse*  
R.N. (Mercy Hospital)
- ANTON WOLF (1963) ..... *Associate Professor, Music*  
B.M., M.M. (New England Conservatory)
- EARL W. WOLFGRUBER (1960) ..... *Associate Professor, Advertising*  
Ed.B. (State University of New York, Buffalo) *Design*
- DOROTHY E. WOMER (1959) ..... *Director of Housing*  
B.S. (Kent); M.S. (Indiana)
- WILLIAM D. WRIGHT (1962)\* ..... *Assistant Professor, History*  
A.B., M.A. (Michigan)
- RALPH YALKOVSKY (1962) ..... *Professor, Geology*  
B.S., M.S., Ph.D. (Chicago)
- DONALD C. YELTON (1965) ..... *College Librarian*  
B.A. (Hamilton); M.S. (Columbia); M.A. (Georgetown); Ph.D. (Columbia)
- SARANTO YEOSTROS (1966) ..... *College Physician*  
B.A., M.D. (State University of New York, Buffalo)
- BERNARD B. YORMAK (1963) ..... *Professor, Emotional Handicap*  
B.S. (Long Island); M.S. (Wisconsin); Ph.D. (Pennsylvania State)
- IL-KOO YOUN (1965) ..... *Residence Hall Director—*  
B.A. (Denison); M.A. (Ohio State) *Scajaquada Complex West*
- DARRELL D. YOUNG (1960) ..... *Assistant Professor, Science*  
B.A. (Iowa); M.A. (Colorado)
- JAMES H. YOUNG (1964) ..... *Assistant Professor, Education*  
B.S. (State University College, Fredonia); M.S. (State University College, Buffalo)
- MARCIA D. YOUNG (1965) ..... *Assistant Professor, Exceptional*  
B.A. (State University of New York, Buffalo) *Children Education*
- L. STANLEY ZIELINSKI (1958)\* ..... *Associate Professor, Industrial Arts*  
B.F.A., M.F.A. (Alfred)

\*On Leave 1966-67.



LAVERNE R. ZIMMER (1952) ..... *Assistant Professor, English and Mathematics, Campus School*  
 B.E. (State University College, Geneseo); M.A. (Stanford)  
 GARY E. ZIMMERMAN (1964) ..... *Assistant Professor, Education*  
 B.S. (Wisconsin)  
 WALTER J. ZIMMERMAN (1962) ..... *Director, Vocational Technical Division*  
 B.S. (State University College, Buffalo); M.S., Ed.D. (State University of New York, Buffalo)  
 JOSEPH S. ZINGARO (1958) ..... *Professor, Chemistry, Chairman of the Department*  
 B.S. (State University College, Geneseo); M.S. M.Sci.Ed., Ph.D. (Syracuse)

## FACULTY EMERITUS

\*\*HARRY W. ROCKWELL (1919)\* ..... *President Emeritus*  
 A.B., A.M. (Brown); A.M. (Columbia); Pd.D. (Albany State); L.L.D. (Brown)  
 \*\*RALPH HORN (1936) ..... *Dean Emeritus*  
 A.B. (Ashland); M.A., Ph.D. (Ohio State)  
 CHARLES B. BRADLEY (1918) ..... *Director Emeritus of Art Education*  
 Pratt Institute; B.S. (State University College, Buffalo)  
 \*\*LOUISE M. CASSETY (1897) ..... *Director Emeritus of Kindergarten Department*  
 Buffalo State Normal School  
 \*\*MYRTLE V. CAUDELL (1919) ..... *Director Emeritus of Home Economics Division*  
 B.S., M.A. (Columbia)  
 \*\*IRVING C. PERKINS (1920) ..... *Director Emeritus of Industrial Arts Division*  
 B.S. (New Hampshire); M.A. (Buffalo)  
 MILDRED L. SIPP (1918) ..... *Director Emeritus of Home Economics Division*  
 B.S., M.A. (Columbia)  
 \*\*HARRY J. STEEL (1926) ..... *Director Emeritus of Education*  
 B.A., A.M., Ph.D. (Minnesota)  
 KATHERYNE T. WHITTEMORE (1925) ..... *Professor Emeritus of Geography and Director of Arts and Sciences Division*  
 A.B. (Vassar); A.M., Ph.D. (Clark)

\*The date in parenthesis following the name is that of first appointment to a position on the faculty of this College.

\*\*Deceased members of Faculty Emeritus.

FRANCES G. HEPINSTALL (1930) ..... *Librarian Emeritus*  
 B.S. (Syracuse); M.S. (Columbia)  
 LOIS G. ADAMS (1946) ..... *Professor Emeritus of Home Economics*  
 B.S. (Illinois); M.A. (Columbia)  
 ROBERT E. ALBRIGHT (1937) ..... *Professor Emeritus of Social Studies*  
 A.B. (Nebraska Wesleyan); M.A. (Colorado); Ph.D. (Stanford)  
 GRACE ALLEN (1926) ..... *Professor Emeritus of Education*  
 B.S., M.A. (Columbia)  
 \*\*GERTRUDE M. BACON (1887) ..... *Professor Emeritus of Education*  
 B.S., M.S. (State University of New York, Buffalo)  
 SHERMAN G. CRAYTON (1937) ..... *Professor Emeritus of Education*  
 A.B. (Franklin); A.M., Ph.D. (Indiana)  
 \*\*ROBERT O. DeMOND (1926) ..... *Professor Emeritus of History*  
 A.B., M.A. (Syracuse); Ph.D. (Duke)  
 MARGARET V. DUPRE (1930) ..... *Professor Emeritus of Chemistry*  
 B.S. (Texas State College for Women); A.M. (Columbia)  
 REUBEN S. EBERT (1934) ..... *Professor Emeritus of Mathematics*  
 B.E. (Normal, Illinois); A.M. (Columbia); Ph.D. (New York University)  
 \*\*RAYMOND M. FRETZ (1929) ..... *Professor Emeritus of Science*  
 B.S., A.M. (Columbia); Ph.D. (Niagara)  
 \*\*ANNA GEMMILL (1919) ..... *Professor Emeritus of Science*  
 B.S., M.A. (Buffalo); Ph.D. (Columbia)  
 MINA S. GOOSSEN (1927) ..... *Professor Emeritus of English*  
 B.O.E. (Syracuse); A.M. (Southern California)  
 \*\*OSCAR E. HERTZBERG (1930) ..... *Professor Emeritus of Education*  
 A.B. (Wisconsin); A.M., Ph.D. (Columbia)  
 CAROLYN W. HEYMAN (1930) ..... *Professor Emeritus of Art*  
 B.S. (Western Reserve); A.M. (New York University)  
 RUTH E. HOUSTON (1917) ..... *Professor Emeritus of Health, Physical Education*  
 A.B. (Western); A.M. (California)  
 \*\*IDA L. KEMPKE (1907) ..... *Professor Emeritus of English*  
 Pd.B., A.B., A.M. (Buffalo)  
 LESTER B. MASON (1940) ..... *Professor Emeritus of Social Studies*  
 A.B. (Dartmouth); A.M. (Columbia); Ph.D. (Cornell)  
 CHARLES A. MESSNER (1926) ..... *Professor Emeritus of Foreign Language*  
 A.B. (Wabash); A.M. (Chicago); A.M., Ph.D. (Harvard)  
 \*\*EDWARD L. MORRICE (1926) ..... *Professor Emeritus of Industrial Arts*  
 B.S. (State University College, Buffalo); M.A. (Buffalo)

\*\*Deceased members of Faculty Emeritus.



- META NORENBURG (1947) ..... *Professor Emeritus of English*  
B.A. (Western Union); M.A. (Nebraska)
- CHESTER A. PUGSLEY (1930) ..... *Professor Emeritus of Education*  
B.A. (Dalhousie); M.A., Ed.D. (Columbia)
- \*\*GEORGE M. QUACKENBUSH (1920) ..... *Professor Emeritus of Industrial Arts*  
B.S. (Rochester); M.A. (State University of New York, Buffalo)
- \*\*CHARLES C. ROOT (1917) ..... *Professor Emeritus of Education*  
Pd.B., Pd.M. (Michigan State); A.B. (Michigan); A.M. (Chicago)
- ALMA R. ROUDEBUSH (1934) ..... *Professor Emeritus of Home Economics*  
B.S. (Ohio State); M.A. (Columbia); Ph.D. (Ohio State)
- PAUL W. SLOAN (1937) ..... *Professor Emeritus of Education*  
A.B. (Defiance); M.A., Ph.D. (Ohio State)
- \*\*JOHN THURBER (1930) ..... *Professor Emeritus of English*  
B.A. (Colgate); Ph.D. (Iowa State)
- HOMER A. BRUCE (1925) ..... *Associate Professor Emeritus of Education*  
B.S. (Oklahoma); M.A. (Columbia)
- HUBERT E. COYER (1932) ..... *Associate Professor Emeritus of Health, Physical Education and Recreation*  
B.P.E. (Springfield); Ed.M. (Buffalo)
- ANDREW W. GRABAU (1925) ..... *Associate Professor Emeritus of English*  
B.S. (Buffalo); M.A. (Columbia)
- MARY L. JAMISON (1928) ..... *Associate Professor Emeritus of Education, Campus School*  
B.S., M.A., Professional Diploma (Columbia)
- INEZ M. KNAPP (1934) ..... *Associate Professor Emeritus of Education*  
B.S. (Buffalo); M.A. (Columbia)
- DORIS R. MILLER (1961) ..... *Associate Professor Emeritus of Education*  
A.B. (Mount Union); M.A. (Ohio)
- \*\*GERTRUDE E. ROACH (1925) ..... *Associate Professor Emeritus of Health Education*  
R.N. (Buffalo General); B.S. (State University College, Buffalo); M.A. (New York University)
- LORETTA E. HANOVER (1950) ..... *Assistant Professor Emeritus, Campus School*  
B.S., M.S., (State University College, Buffalo)
- \*\*FAYE KEEVER (1925) ..... *Assistant Professor Emeritus of Home Economics*  
B.S. (Minnesota); M.A. (Columbia)
- MARTHA METZ (1927) ..... *Assistant Professor Emeritus of Elementary Education*  
B.S. (State University College, Buffalo); A.M. (Michigan)
- \*\*EILEEN C. MULHOLLAND (1923) ..... *Assistant Professor Emeritus of English*  
Ph.B. (Chicago); M.A. (Columbia)

\*\*Deceased members of Faculty Emeritus.

- \*\*CATHERINE E. REED (1920) ..... *Associate Dean of Students Emeritus*  
A.B. (Syracuse); M.A. (Columbia)
- MARGUERITE S. SCOTT (1931) ..... *Associate Professor Emeritus of Social Studies, Campus School*  
A.B. (Indiana); M.A. (Columbia)
- MIRIAM SPAULDING (1948) ..... *Associate Professor Emeritus of Health, Physical Education and Recreation*  
A.B. (Boston); M.A. (Peabody)
- \*\*RUTH SPEIR (1920) ..... *Assistant Professor Emeritus of Music*  
Virgil School of Music; Columbia; Skidmore, New York
- WALTER B. WEBER (1920) ..... *Assistant Professor Emeritus of Industrial Arts*  
B.S. (State University College, Buffalo); Ed.M. (Buffalo)
- \*\*CARRIE BENSON (1886) ..... *Instructor in Campus School, Retired*  
Oswego State Normal School; B.S. in Ed. (State University of New York, Buffalo)
- \*\*CLINTON B. BURKE (1920) ..... *Instructor in Woodworking, Retired*
- \*\*GEORGINA E. CHAMOT (1897) ..... *Instructor in Domestic Arts, Retired*  
Buffalo State Normal School
- \*\*LYDIA A. CHAMOT (1897) ..... *Instructor in French, Campus School, Retired*  
Buffalo State Normal School
- \*\*LUELLA CHAPMAN (1922) ..... *Instructor in Penmanship, Retired*  
Iowa State Teachers College; A. N. Palmer School for Penmanship Supervisors
- MARION P. DANA (1928) ..... *Instructor in History, Retired*  
B.S., A.M. (Columbia)
- \*\*HELEN G. ENGLEBRECK (1911) ..... *Instructor in History, Retired*  
B.A. (Elmira); M.A. (Columbia)
- MINNIE GROVES (1919) ..... *Instructor in Penmanship, Retired*  
Diploma (Palmer School of Penmanship)
- \*\*GEORGE E. HUCKINS (1921) ..... *Instructor in Printing, Retired*  
Buffalo State Normal School (Vocational)
- EDNA HURD (1922) ..... *Instructor in Music, Retired*
- \*\*MAY NYE JONES (1923) ..... *Instructor in Home Economics, Retired*  
A.B. (Oberlin); M.A. (Columbia)
- MARY LOUISE McMAHON (1923) ..... *Instructor in Music, Retired*  
B.S. (State University College, Buffalo); M.A. (New York)
- LILLIAN McKENNETH (1948) ..... *Assistant Dean, Retired*
- \*\*STELLA O'REILLY (1918) ..... *Instructor in Campus School, Retired*  
Buffalo State Normal School

\*\*Deceased members of Faculty Emeritus.



- \*\*JENNIE ROBSON (1916) ..... *Instructor in Mathematics, Retired*  
Pd.B. (Albany)
- THERESA ROEHSLER (1907) ..... *Instructor in Campus School, Retired*  
B.S. (Buffalo); A.M. (New York)
- \*\*ELIZABETH BIRD SMALL (1931) ..... *Instructor in Campus School, Retired*  
Buffalo Training School; Buffalo State Normal School
- \*\*ELLA M. SMITH (1902) ..... *Instructor in Campus School, Retired*  
Columbia
- \*\*ERNINA S. SMITH ..... *Instructor in Campus School, Retired*  
Buffalo State Normal School
- GRACE VIELE (1902) ..... *Reference Librarian, Retired*  
B.L. (Smith)

\*\*Deceased members of Faculty Emeritus.

## INDEX

	Page		Page
Academic Honors .....	25	Counseling Services .....	29
Academic Regulations .....	19	Curricula .....	7
Accreditation and Membership .....	236	Dismissal .....	24
Administration .....	239	Dropping a Course .....	25
Admission .....	11	Earth Science .....	121
Advance Placement .....	20	Economics .....	127
Advance Standing .....	14	Education .....	146
Alumni .....	53	Educational Services .....	53
Anthropology .....	127	Elementary Education .....	139
Application Procedure .....	12	Employment .....	47
Applied Science and Technology .....	205	English .....	88
Art Education .....	61, 65	Exceptional Children Education .....	153
Art Education Curriculum .....	63	Deaf .....	154
Arts and Humanities .....	88	Emotional Disturbances .....	155
Arts and Sciences .....	77	Mental Retardation .....	157
Athletic Program .....	37	Physical Handicap .....	157
Attendance .....	19	Speech Pathology & Audiology .....	160
Auditing .....	19	Expenses .....	17
Awards .....	50	Faculty .....	243
Biology .....	115	Faculty Emeritus .....	274
Buildings .....	9	Federally-Aided Programs .....	58
Campus .....	9	Fees .....	18
Campus School .....	53	Financial Aid .....	39
Center for Economic Education .....	54	Foreign Languages .....	94
Challenge of Courses .....	21	French .....	94
Chemistry .....	119	Geography .....	128
Child Study Center .....	54	German .....	96
The College .....	7	Grading .....	21
College Calendar .....	4	Graduate Program .....	55
College Camp .....	36	Graduation Requirements .....	26
College History .....	235	Health Education .....	103
College Union .....	32	Health, Physical Education & Recreation .....	101
Continuing Education .....	55		279



Health Services .....	28	Religious Groups .....	34
History .....	131	Repeated Courses .....	23
Home Economics .....	205	Russian .....	98
Honorary Groups .....	35	Scholarships .....	40
Industrial Arts Education .....	221	Secondary Education .....	167
Instructional Resources .....	56	English .....	168
Interdepartment .....	111	French .....	173
International Education .....	56	Spanish .....	178
Italian .....	97	Mathematics .....	184
Liberal Arts .....	78	Biology .....	188
Library .....	57	Chemistry .....	190
Loans .....	44	Earth Science .....	192
Local College Council .....	238	Physics .....	195
Mathematics .....	112	Social Studies .....	197
Mathematics and Science .....	112	Semester in Siena .....	62
Military Service .....	20	Semester Load .....	22
Music .....	104	Social Groups .....	36
Objectives .....	7	Social Probation .....	23
Other Science .....	125	Social Sciences .....	127, 137
Philosophy .....	109	Sociology .....	137
Physical Education .....	101	Spanish .....	99
Physics .....	122	State University of New York .....	5
Placement Office .....	51	State University Trustees .....	237
Political Science .....	135	Student Activities .....	31, 37
Probation .....	23	Student Government .....	31
Professional and Cultural Groups .....	33	Student Personnel Program .....	27
Professional Studies .....	139	Student Residences .....	27
Psychology .....	136	Summer Session .....	59
Publications .....	36	Transcripts .....	26
Quality Point .....	22	Unit of Credit .....	22
Recreation .....	103	Urban Education .....	59
Refunds .....	18	Veterans and Military Affairs .....	48
Registration .....	21	Vocational Technical Education .....	230
		Withdrawal .....	24

## STATE UNIVERSITY OF NEW YORK

### UNIVERSITY CENTERS

State University at Albany                      State University at Buffalo  
State University at Binghamton              State University at Stony Brook

### MEDICAL CENTERS

Downstate Medical Center at Brooklyn (New York City)  
Upstate Medical Center at Syracuse

### COLLEGES OF ARTS AND SCIENCE

College at Brockport   College at Fredonia   College at Oneonta   College at Plattsburgh  
College at Buffalo   College at Geneseo   College at Oswego   College at Potsdam  
College at Cortland   College at New Paltz

(Three additional Colleges of Arts and Science are under development. Two four-year campuses, in Westchester and Nassau Counties, are in early planning. A third, upper-divisional in nature, has been proposed for the Utica-Rome-Herkimer Area.)

### SPECIALIZED COLLEGES

College of Forestry at Syracuse  
Maritime College at Fort Schuyler (Bronx)  
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

### AGRICULTURAL AND TECHNICAL COLLEGES (Two-year)

Agricultural and Technical Colleges at:   Alfred   Cobleskill   Farmingdale  
Canton   Delhi   Morrisville

### COMMUNITY COLLEGES

(Locally-sponsored two-year colleges under the program of State University.)

Adirondack Community College at Hudson Falls  
Auburn Community College at Auburn  
Borough of Manhattan Community College at New York City  
Bronx Community College at New York City  
Broome Technical Community College at Binghamton  
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  
Hudson Valley Community College at Troy  
Jamestown Community College at Jamestown  
Jefferson Community College at Watertown  
Kingsborough Community College at Brooklyn  
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 at Brooklyn  
Niagara County Community College at Niagara Falls  
Onondaga Community College at Syracuse  
Orange County Community College at Middletown  
Queensborough Community College at New York City  
Rockland Community College at Suffern  
Staten Island Community College at New York City  
Suffolk County Community College at Selden  
Sullivan County Community College at South Fallsburg  
Ulster County Community College at Kingston  
Westchester Community College at Valhalla

(Five additional community colleges, to be located in Clinton, Essex-Franklin, Genesee, Herkimer and Ontario Counties, have been approved by the Board of Trustees.)