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### College Catalog, 1956, Summer

Buffalo State College

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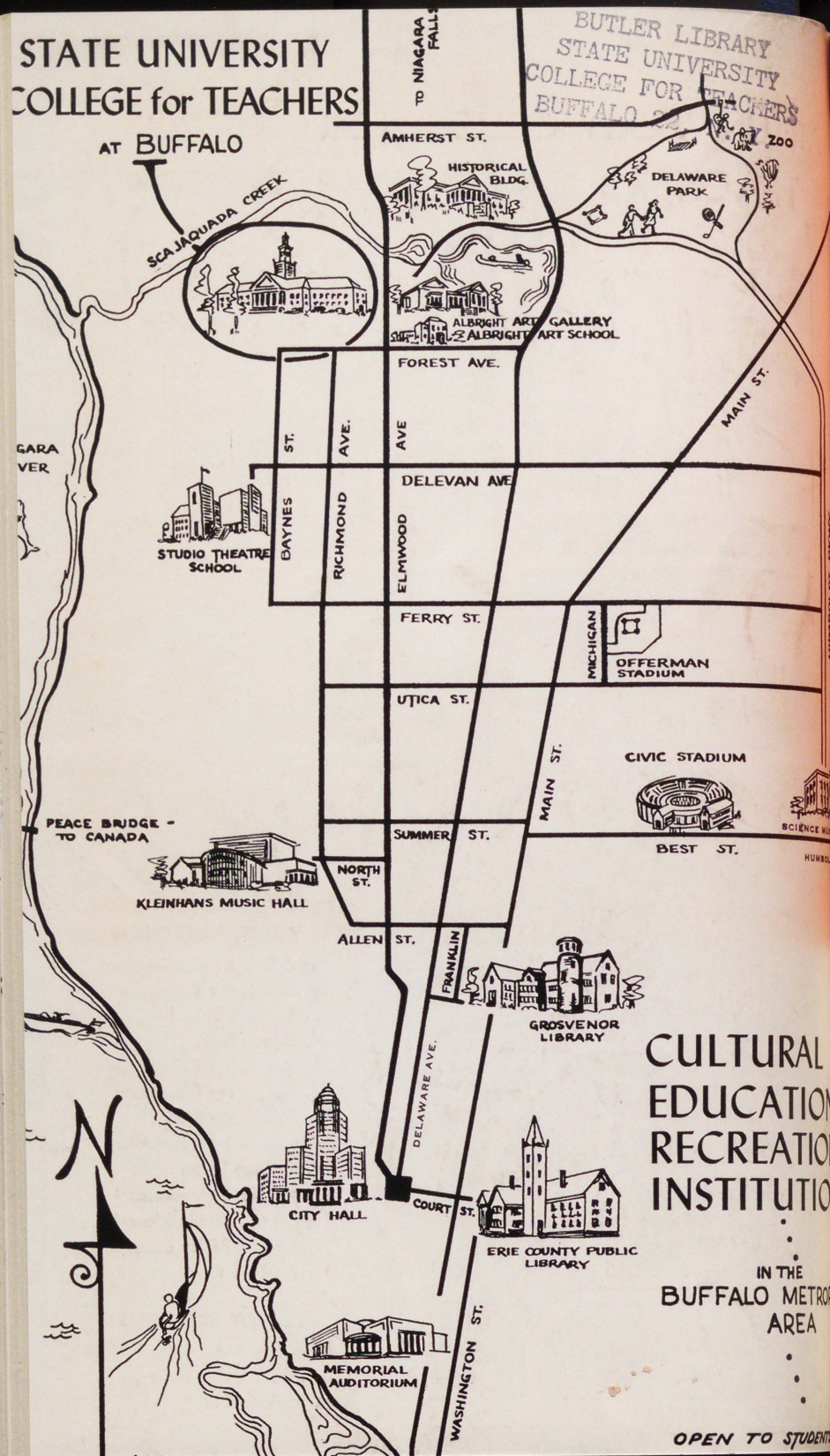
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STATE UNIVERSITY  
COLLEGE for TEACHERS

AT BUFFALO



CULTURAL  
EDUCATION  
RECREATION  
INSTITUTION

IN THE  
BUFFALO METROPOLITAN  
AREA

OPEN TO STUDENTS

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State University of New York

COLLEGE FOR TEACHERS  
at BUFFALO

*BULLETIN*

1956

*Summer Session Catalog*

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## CALENDAR 1956

- July 2 (Monday)—Registration  
8:00 A.M.—Graduate Students—Gymnasium  
1:00 P.M.—Undergraduate Students—Gymnasium  
Seminar in International Studies in Geneva, Switzerland,  
begins.
- July 3 (Tuesday)—Classes begin.
- July 4 (Wednesday)—Independence Day; classes not in session.
- July 7 (Saturday)—Classes in session.  
Last day for course changes and tuition refunds.
- July 12 (Thursday)—Convocation 9:30 A.M.  
Annual Book Fair, Student Union.
- July 18 (Wednesday)—Annual Student-Faculty Luncheon.
- July 19 (Thursday)—Convocation 11:00 A.M.
- July 26 (Thursday)—Convocation 9:30 A.M.
- August 2 (Thursday)—Convocation 11:00 A.M.
- August 10 (Friday)—Six-weeks session ends.
- August 12 (Sunday)—New York State Field Course begins.  
Science Camp begins.
- August 13 (Monday)—Art Camp begins.  
Folk Arts Workshop begins.  
Mathematics Workshop begins.  
Social Studies Workshop begins.
- August 24 (Friday)—Eight-weeks session ends.

## State University of New York COLLEGE FOR TEACHERS

# BUFFALO BULLETIN

Volume XXIV  
Number 3

## 1956 SUMMER SESSION CATALOG ISSUE

Buffalo, New York  
April, 1956

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State University of New York College for Teachers, Buffalo 22, New York.

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cember 13, 1932.

## STATE UNIVERSITY OF NEW YORK

The State University of New York was established by the State Legislature in 1948. It comprises twenty-one colleges and six institutes. There are, in addition, eleven community colleges which it supervises. While separated geographically, all are united in the purpose to improve and extend opportunities for youth to continue their education after high school.

State University offers cultural and professional four-year programs in liberal arts, home economics, industrial and labor relations, veterinary medicine, ceramics, agriculture, forestry, maritime service, medicine and teacher preparation, as well as two-year programs in a wide variety of fields, including technical courses in agricultural, industrial, health, and service areas. State University is accredited by the Middle States Association of Colleges and Secondary Schools.

Governed by a Board of Trustees appointed by the Governor, State University of New York plans for the total development of State-supported higher education. Each unit of State University is locally administered, and students apply directly to the institution for admission.

Although State University of New York is the second largest state university in the country, its students have the additional advantages of attending small colleges.

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

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## STATE UNIVERSITY OF NEW YORK

### BOARD OF TRUSTEES

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- DON J. WICKHAM, B.S.....Hector

- 
- President*.....WILLIAM S. CARLSON,  
A.B., M.S., Ph.D., LL.D., D.Sc.
  - Executive Dean for Teacher Education*.....HERMANN COOPER,  
A.B., Mus.B., A.M., Ph.D., LL.D.





## ADMISSION AND REGISTRATION

### Undergraduate

The Summer Session is open to anyone qualified for teaching, and students attending Buffalo State or any other accredited college. Any other undergraduate must obtain permission from the Dean.

An undergraduate now in regular attendance at Buffalo State must have written permission from the director of his division to register.

A student registered at another college should have his program approved by the proper official of the college he regularly attends.

To enter the accelerated program a student must have the approval of the Director of the Elementary Education Division or the Industrial Arts Division.

### Graduate

A student seeking admission to the Graduate Division should follow the procedures explained under that heading in this bulletin. Application blanks may be obtained from Dr. Robert E. Albright, Director of the Graduate Division.

It is necessary that students needing authorizations from College authorities, or advice in selection of courses, arrange for such services well in advance of the opening of the Summer Session.

Registration, except for post-session courses, should be completed on July 2, in the college gymnasium.

## FEES

The State University of New York has authorized the collection of Summer Session fees, at a uniform rate, by all the Teachers Colleges of this state. The schedule for the fees of the 1956 Summer Session is as follows:

### Tuition

|                                       |                                       |
|---------------------------------------|---------------------------------------|
| Undergraduate residents . . . . .     | \$10.00 a Semester Hour Credit        |
| Undergraduate, out-of-state . . . . . | \$12.50 a Semester Hour Credit        |
| Graduate, all students . . . . .      | \$12.50 a Semester Hour Credit        |
| College Union Fee . . . . .           | \$ 1.00 a credit hour, maximum \$6.00 |
| Student Activity Tax . . . . .        | \$ 2.00 a student                     |
| Late Registration charge . . . . .    | \$ 1.00 a day to a maximum of \$3.00  |

All students enrolled in special programs (on-campus or off-campus) pay the College Union Fee of \$1.00 a credit hour. All students taking on-campus courses, regardless of their duration, pay the Student Activity Tax of \$2.00. Students enrolled in the eight-week Accelerated Program pay no tuition fee but must pay the College Union Fee and the Student Activity Tax.

Additional charges are levied against students taking some off-campus field courses, tours and camps, as indicated in the separate descriptions of these features.

Refunds will be made in full to students who withdraw during the first five scheduled days of the session. No refunds will be made after this period unless withdrawal is for entering military service.

All charges are subject to change without notice.

## VETERANS

Veterans expecting to file for Summer Session benefits should complete all arrangements in Room 103, Administration Building, before the day of registration. Representatives of the Veterans Administration will be present.

## FINANCIAL ARRANGEMENTS

College bills may be paid by check made payable to: State University College for Teachers, Buffalo. No checks will be cashed by the College, but banks near the College have been cooperative with Summer Session students.

## PARKING

Two large parking lots provide adequate space for student automobiles. Summer Session students are subject to the traffic regulations and penalties that prevail through the year.

## SCHEDULE

|                         |             |
|-------------------------|-------------|
| First Period . . . . .  | 8:00- 9:20  |
| Second Period . . . . . | 9:30-10:50  |
| Third Period . . . . .  | 11:00-12:20 |
| Fourth Period . . . . . | 12:30- 1:50 |
| Fifth Period . . . . .  | 2:00- 3:20  |

Students should plan for a lunch period in making their programs.

Scheduled classes are excused for Convocations at times shown on inside front cover.



## RESIDENCE HALLS

Rooms for men and women students are provided in the Residence Halls of the College. Most rooms have accommodations for two persons at \$5.50 a week; a few single rooms are available at \$8.00 a week. Rooms are equipped with beds, desks, chairs, closets, and dressers. Students are expected to provide sheets, pillows and cases, blankets, and desk lamps.

Residence Halls are connected with the Student Union which is equipped with a lounge, music room, snack bar, dining room, game room, an Inter-Faith Chapel, and outdoor recreational area. The Union provides a recreational program for all Summer Session students, especially for those living in the Residence Halls.

The College Union Dining Room serves luncheon from 10:30 to 1:30. In the same building, the Snack Bar is open for breakfast and light suppers and at other hours will serve desired refreshments.

Reservations for rooms for men and women students are made through the Office of the Dean of Students. Requests for off-campus housing should also be addressed to that office. All student residences must be approved by the Dean of Students.

## LIBRARY FACILITIES

Extensive library facilities are available to students of the Summer Session who find the book collection and current periodicals easily accessible from open shelves in the Edward H. Butler Library. The reserve book section facilitates assigned readings; another section maintains a wide selection of recreational reading materials and a record collection. Microfilm and micro-card readers are available to Summer Session students. Inter-library loan arrangements permit the borrowing of books from the New York State Library in Albany.

Summer Session students may use the resources of the Laboratory of Instructional Material, consisting of story books, elementary school textbooks, pamphlets, slides, records, filmstrips, pictures, and costume dolls. The Campus School Library in the Campus School contains a collection of books, magazines, recordings, and filmstrips especially selected for children.

The Erie County Library (including the Buffalo Public Library and the Grosvenor Library), the Library of the Albright Art Gallery, the Library of the Historical Museum, and the Library of the Museum of Science, supplement facilities available on the campus.

## ACADEMIC INFORMATION

### Standards

The academic standards observed during the regular college year prevail in the Summer Session.

### Grades

The standard system used to evaluate student performance, described in the general catalog, will be followed in the Summer Session.

The Registrar's office will furnish final grades by mail to the student's home address.

### Transcripts

Students who want copies of their academic record sent to another institution should arrange for this service in the Registrar's office, Administration 102. No fee is charged for the first copy of a transcript.

### Cancellations and Changes

The College reserves the right to cancel any course for which there is insufficient registration, to substitute a different instructor, and to change the time of class meetings.

### Textbooks

Textbooks and Supplies for Summer Session work may be purchased in the College Bookstore in the College Union.

## Curricula

### UNDERGRADUATE AND GRADUATE

Summer Session offers both undergraduate and graduate courses in nine curricula leading to the degree of Bachelor of Science and Master of Science. The courses are designed for teachers-in-service and regular session students continuing their education during the summer.

1. **Elementary Education**, a program for those seeking certification for teaching in the elementary schools of the state.
2. **Early Childhood Education**, a program of Elementary Education developed specifically for the preparation of teachers of nursery, kindergarten, and primary grades.
3. **Early Secondary Education**, a program enabling students to be certified to teach academic subjects in grades seven, eight, and nine of the junior high school.
4. **Elementary School Administration**, a program preparing elementary teachers for the position of elementary school principal.
5. **Elementary School Supervision**, a program preparing elementary teachers as supervisors in the various areas of the elementary school curriculum.
6. **Art Education**, a curriculum preparing supervisors and teachers of art in the elementary and secondary schools of the state.
7. **Exceptional Children Education**, an extension of the Elementary Education program to certify teachers in five areas: mental retardation, orthopedic handicap, speech impairment, hearing impairment, and visual impairment.
8. **Home Economics**, a curriculum preparing teachers of home-making in the elementary and secondary schools of the state.
9. **Industrial Arts**, a curriculum preparing teachers of industrial arts in the elementary and secondary schools of the state.

### UNDERGRADUATE PROGRAM

Credit for undergraduate work completed in the Summer Session will be controlled by the following regulations:

1. Work completed in Summer Session will be equal to the content of the same courses offered during the regular session and carry the same credit.
2. The standard class load for Summer Session is six credit hours; students are advised against attempting more than this. A maximum of eight semester hours may be carried if approved by the Director of the Division. Courses carrying three semester hours of credit will meet eighty minutes daily; those carrying two semester hours of credit are conducted fifty minutes daily. Courses requiring laboratory, shop, or studio work have meetings in addition to this schedule. No partial credits are granted.
3. All requirements for degrees are established in the general catalog and prevail during the Summer Session. The general catalog or the Registrar's Office should be consulted for curriculum and residence requirements.
4. Students interested in matriculating for an undergraduate degree should communicate with Dr. Ralph Horn, Dean of the College. Appointments to consult with him should be made well in advance of the opening of the Summer Session.
5. Students intending to matriculate for the Bachelor of Science degree at the College and expecting to transfer credits from other institutions should have official transcripts mailed to the Registrar of the College well in advance of the opening of Summer Session. This will permit students to be thoroughly advised concerning their programs.

### GRADUATE PROGRAM

#### Graduate Curricula

Graduate courses lead to the Master of Science degree with majors in Art Education, Early Secondary Education, Elementary Education, Exceptional Children Education, Home Economics, and Industrial Arts.

### Graduate Work Limited to Summer Session and Extension Classes

At present no graduate work is offered during the Regular Session. Graduate schedules will be planned so that requirements for the Master of Science degree may be completed by attendance at five Summer Sessions. This time may be shortened by registration in Extension Classes.

### Admission Requirements

Applicants meeting the following requirements are eligible for admission to the Graduate Division.

A. The applicant holding an *approved* Bachelor's degree and eligible to teach in the elementary school or in a field of specialization. An *approved* Bachelor's degree is one granted by:

1. A teachers college accredited by the American Association of Colleges for Teacher Education.
2. A teachers college, college, or university accredited by the appropriate regional accrediting agency.
3. A college accredited or approved by the state board of education or the state university in its state.  
(Students possessing Bachelor's degrees not in this approved category may be admitted conditionally to graduate courses.)

B. An applicant holding an elementary education certificate in another state. (Completion of Master's degree requirements does not guarantee New York State certification. The applicants should secure an evaluation of credits and a statement of prescribed work necessary for certification from the Certification Division, State Education Department at Albany, New York.) As far as possible graduate work at the College will be planned to supplement any course inadequacies.

C. An applicant having demonstrated ability for graduate work as measured by:

1. Undergraduate scholastic average of 2.3 higher. (Exceptions granted in extenuating circumstances by the Director of the Graduate Division.)
2. An acceptable teaching record (testified by a confidential statement from the administrator of the school wherein employed).
3. Recommendations concerning academic and personal qualifications from three persons in a position to make valid statements.

### Admission Procedures

A. Complete admission blank available from Director of Graduate Division with data required.

B. Return blank before May 1, for registration in Summer Session, before September 1st for registration in first semester, and before January 1st for registration in second semester Extension program.

C. Provide official transcript from college which granted degree, (not necessary for graduates of this College).

### Admission to Candidacy

Filing an application for admission to candidacy is the personal responsibility of each admitted student after he has completed a minimum of six hours. *He must apply for candidacy at the completion of twelve hours.*

Admission to candidacy depends upon:

A. A cumulative average of B or better in courses presented for graduate credit. No work of D grade will be accepted.

B. A recommendation from the adviser of the candidate, the Director of the division, or (in the case of Elementary Education students) the Director of the Graduate Division.

C. A comprehensive written examination may be required by the Graduate Council upon the recommendation of the student's adviser or Director of the division in which application is made.

### Requirements for Master of Science Degree

A. The Master of Science degree requires the completion of thirty-two semester hours of graduate study.

B. Five Summer Sessions of six weeks shall be regarded as the usual period of attendance for the completion of the thirty-two hour requirement. This period of time may be shortened by attendance in Extension classes.

C. No graduate student who is a full time teacher will be permitted to carry an extension program in excess of *four credits* per semester or *eight credits* per college year. *This maximum of four hours per semester includes all work whether taken in afternoon, evening, or Saturday sessions at this College or elsewhere.* Registration above this maximum will result in loss of credit in excess of four semester hours.

In the Summer Session, a graduate student may be permitted to carry a maximum of one hour of credit per week. For two weeks' work he may receive a maximum of two credits; for six weeks' work, six credits; for eight weeks' work, eight credits.

D. Credit will be withheld for courses completed in another college or university more than seven years prior to registration in the Graduate Division. A candidate shall satisfy all the prescribed requirements within six years from the date of admission.

E. The Graduate Division has established the following residence requirements applicable to all courses submitted as part of the graduate program. *Twelve semester hours* are the maximum non-residence courses that will be approved if the candidate is a graduate of *this College*. *Eight semester hours* of non-residence courses is the maximum that will be approved if he is a graduate of *another college*. In all cases, however, such graduate study must be similar in scope and content to courses offered by the teachers college, and must form a coherent part of the total program of preparation to be completed by the student. A course shall satisfy the requirements for residence when it is offered on the campus of the College, or within the territorial limits of the village or city in which the College is located. A course offered at a camp operated by the College or at a branch established by the College may be accepted as a course-in-residence.

#### Special Students

Students not intending to apply for admission to candidacy may register for courses in the Graduate Division, limited to a total of 12 hours.

#### Registration Fees

Graduate Division fees are \$12.50 a credit hour.

## GRADUATE CURRICULA

### ART EDUCATION

#### COURSES IN TECHNICAL AND RELATED FIELDS 20-23 SEM. HRS.

##### Technical Courses:

|         |  |               |
|---------|--|---------------|
| Art 501 | Workshop in Art Education Materials, Processes, and Procedures | 3 Sem. Hrs.   |
| Art 503 | Workshop in Using the Visual Language                          | 3 Sem. Hrs.   |
| Art 506 | Seminar in Contemporary Art                                    | 2 Sem. Hrs.   |
| Art 507 | Graduate Studio in Drawing and Painting                        | 2-6 Sem. Hrs. |
| Art 508 | Graduate Studio in Design and Spatial Organization             | 2-6 Sem. Hrs. |
| Art 509 | Graduate Studio in Crafts                                      | 2-6 Sem. Hrs. |
| Art 510 | Graduate Studio in Photography                                 | 3 Sem. Hrs.   |
| Art 512 | Graduate Studio in Sculpture                                   | 3 Sem. Hrs.   |
| Art 513 | Graduate Studio in Graphic Arts                                | 3 Sem. Hrs.   |
| Art 520 | Art Camp   | 2 Sem. Hrs.   |
| Art 526 | Special Study  | 2-4 Sem. Hrs. |
|         | Graduate Courses in the Practical Arts                         | 2-6 Sem. Hrs. |

##### Courses in Related Fields:

|         |  |               |
|---------|--|---------------|
| Art 502 | Art Education Today                          | 3 Sem. Hrs.   |
| Art 504 | Seminar in Art in Human Affairs              | 2 Sem. Hrs.   |
| Art 505 | Seminar in Art Education                     | 3 Sem. Hrs.   |
| Art 514 | Workshop in Folk Arts                        | 2 Sem. Hrs.   |
| Art 526 | Special Study                                | 2-4 Sem. Hrs. |
|         | Graduate Courses in Psychology and Education | 2-6 Sem. Hrs. |

#### RESEARCH

|         |                     |               |
|---------|---------------------|---------------|
| Ed. 575 | Research Techniques | 2-6 SEM. HRS. |
| Art 550 | Project             | 2 Sem. Hrs.   |
| Art 525 | Master's Thesis     | 4 Sem. Hrs.   |
|         |                     | 6 Sem. Hrs.   |

(Each candidate, after a conference with his adviser, may select one of the above requirements. Credit may be applied to the technical or related area, or may be divided between them depending upon the nature of the work done.)

#### ACADEMIC ELECTIVES

9-12 SEM. HRS.

Graduate courses in Music, English, Social Studies, Science, and Mathematics. By advisement.

*Total requirements: 32 semester hours.*

### EARLY SECONDARY EDUCATION

The College, responding to the growing demand for teachers in the seventh, eighth, and nine grades, has developed a program which enables the holder of a Bachelor's degree and an elementary teaching certificate to extend the validity of such certificate to include teaching in the early secondary (junior high) schools of New York State.

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The completion of two courses in one summer session, (one in Early Secondary School Education and one in the subject matter field of specialization), will entitle the elementary teacher to a one-year certificate to teach in the early secondary grades. This certification will be renewed from year to year by continued summer session and extension study, and teaching in the early secondary (junior high school) grades. The permanent form of early secondary certification will be granted upon the completion of thirty semester hours in this graduate program and evidence of satisfactory teaching experience at the early secondary grade level.

A teacher preparing for early secondary (junior high) school teaching who wishes also to become a candidate for the Master of Science degree should read paragraphs on admission, candidacy, and Master of Science degree requirements under Graduate Program in this bulletin.

Preparation for teaching in the early secondary grades is offered in four subject matter fields:

**ENGLISH, MATHEMATICS, SCIENCE, SOCIAL STUDIES**

**THE TEACHING OF ENGLISH  
 IN EARLY SECONDARY (JUNIOR HIGH) SCHOOL**

**PREREQUISITES** 21 SEM. HRS.  
 Written Composition 6 Sem. Hrs.  
 Speech 6 Sem. Hrs.  
 Literature (English, American, Contemporary) 9 Sem. Hrs.

**THE GRADUATE PROGRAM** 30 SEM. HRS.  
*Required Courses:* (by advisement) within the area of specialization: 12 Sem. Hrs.  
 3 hour course in English Literature to be chosen from:  
 Eng. 504, 505, 509, 511A, 511B, 520, 521, 523.  
 3 hour course in American Literature to be chosen from:  
 Eng. 503, 510, 518, 519, 522, 524.  
 3 hour course in general literature to be chosen from:  
 Eng. 506, 508, 512, 515.  
 3 hour course in language to be chosen from:  
 Eng. 500, 526.  
*Elective Courses:* (by advisement) within the area of specialization or other academic fields: 9-10 Sem. Hrs.  
*Professional Courses:* 8-9 Sem. Hrs.  
 Required courses: Ed. 532; (by advisement) Ed. 529, 536.  
 Elective courses: Ed. 506, 519, 523, 533, 537, 538, 541, 542.

**THE TEACHING OF MATHEMATICS  
 IN EARLY SECONDARY (JUNIOR HIGH) SCHOOL**

**PREREQUISITES** 12 SEM. HRS.  
 Twelve or more semester hours of undergraduate mathematics (chosen by advisement) from the following:  
 General Mathematics, College Algebra, Plane Trigonometry, Plane Analytic Geometry, Differential Calculus, Integral Calculus.

**THE GRADUATE PROGRAM** 30 SEM. HRS.  
*Required courses:* within the area of specialization,  
 Math. 503, 504, 505, 506 12 Sem. Hrs.  
*Elective courses:* (by advisement) in the area of specialization or other academic field 9-10 Sem. Hrs.  
*Professional Courses:*  
 Required Courses: Ed. 532; (by advisement) Ed. 529, 536.  
 Elective Courses: Ed. 506, 519, 523, 533, 537, 538, 541, 542.

**THE TEACHING OF SCIENCE  
 IN EARLY SECONDARY (JUNIOR HIGH) SCHOOL**

**PREREQUISITES** 24 SEM. HRS.  
 Earth Science 6 Sem. Hrs.  
 Biology 6 Sem. Hrs.  
 Physics 6 Sem. Hrs.  
 Chemistry 6 Sem. Hrs.

**THE GRADUATE PROGRAM** 30 SEM. HRS.  
*Required courses* within the area of specialization  
 Sci. 501, 518 3-6 Sem. Hrs.  
*Elective Courses* (by advisement) to be chosen from:  
 Sci. 502, 503, 504, 505, 523, 527, 528 6-9 Sem. Hrs.  
*Elective Courses* (by advisement) within the area of specialization or other academic fields: 9-10 Sem. Hrs.  
*Professional Courses* 8-9 Sem. Hrs.  
 Required Courses: Ed. 532; (by advisement) Ed. 529, 536.  
 Elective Courses: Ed. 506, 519, 523, 533, 537, 538, 541, 542.

**THE TEACHING OF SOCIAL STUDIES  
 IN EARLY SECONDARY (JUNIOR HIGH) SCHOOL**

**PREREQUISITES** 21 SEM. HRS.  
 American History 6 Sem. Hrs.  
 European History 6 Sem. Hrs.  
 Geography 3 Sem. Hrs.  
 Political Science } Minimum of 2 hrs.  
 Economics } each in 2 fields.  
 Sociology 6 Sem. Hrs.  
 (Substitution may be made for individual requirements provided the deficiency is corrected on the graduate level.)

## THE GRADUATE PROGRAM

*Required Courses:* (by advisement) within the area of specialization:

30 SEM. HRS.

12 Sem. Hrs.

a. In related fields:

Political Science such as: S.S. 503, 519 } Minimum of 2 hours  
Economics such as: S.S. 505 } each in 2 fields.  
Sociology such as: S.S. 506, 521 } 6 Sem. Hrs.

(If this requirement has been met by electives on the undergraduate level the student may substitute Social Studies *graduate* electives.)

b. Concentration in 1 of 3 areas

6 Sem. Hrs.

Community and New York State Studies

such as: S.S. 506, 507, 509, 510, 519.

American Studies

such as: S.S. 500, 502, 504, 512, 513, 515, 521.

World Studies

such as: S.S. 501A, 501B, 508, 511, 516, 518; Geog. 500, 501.

*Elective Courses:* (by advisement) within the area of specialization or other academic fields

9-10 Sem. Hrs.

*Professional Courses:*

8-9 Sem. Hrs.

Required courses: Ed. 532, (by advisement) Ed. 529, 536.

Elective courses: Ed. 506, 519, 523, 533, 537, 538, 541, 542.

## ELEMENTARY EDUCATION

### REQUIRED PROFESSIONAL COURSES

9 SEM. HRS.

El.Ed. 500 Workshop in Elementary Education

6 Sem. Hrs.

El.Ed. 501 Seminar in Elementary Education

3 Sem. Hrs.

### REQUIRED COURSES IN ARTS AND SCIENCES

12 SEM. HRS.

English and/or Social Studies

6 Sem. Hrs.

Academic Electives

6 Sem. Hrs.

### RESEARCH

2-6 SEM. HRS.

Ed. 575 Research Techniques

2 Sem. Hrs.

El.Ed. 550 Research Project

4 Sem. Hrs.

El.Ed. 525 Thesis

6 Sem. Hrs.

(Each candidate, after a conference with his adviser, may select one of the above requirements.)

### UNRESTRICTED ELECTIVES

5-9 SEM. HRS.

Maximum of 16 hours in education courses permitted including research, project, or thesis.

## ELEMENTARY PRINCIPALSHIP AND/OR SUPERVISION

Experienced teachers desiring the elementary school principal's provisional certificate should complete the bachelor's degree and six semester hours in El.Ed. 503 and 504. Candidates for the permanent

certificate must complete the bachelor's degree and thirty hours in approved graduate courses including, in addition to El.Ed. 503 and 504, two to four hours in El.Ed. 507 and 520.

Experienced teachers desiring the elementary school supervisor's provisional certificate should complete the bachelor's degree and six semester hours in El.Ed. 530 and 531. Candidates for the permanent certificate must complete an additional twenty-four semester hours in approved graduate courses, six of which should be in the area of elementary school supervision.

### REQUIRED PROFESSIONAL COURSES

12 SEM. HRS.

El.Ed. 500 Workshop in Elementary Education

6 Sem. Hrs.

El.Ed. 503 Organization of the Elementary School

3 Sem. Hrs.

El.Ed. 504 Administration of the Elementary School

3 Sem. Hrs.

and/or

El.Ed. 530 Principles of Supervision

3 Sem. Hrs.

El.Ed. 531 Supervision of Teaching

3 Sem. Hrs.—6 Sem. Hrs.

### ACADEMIC COURSES

8-10 SEM. HRS.

Required English and/or Social Studies

6 Sem. Hrs.

Electives

2-4 Sem. Hrs.

### RESEARCH

2-6 SEM. HRS.

Ed. 575 Research Methods and Techniques

2-3 Sem. Hrs.

Ed. 550 Research Project

4 Sem. Hrs.

Ed. 525 Master's Thesis

6 Sem. Hrs.

(Each candidate, after conference with his adviser, may select one of the above requirements.)

### UNRESTRICTED ELECTIVES

4-10 SEM. HRS.

Total requirements: 32 semester hours

## EXCEPTIONAL CHILDREN EDUCATION

*Education of Children with Mental Retardation:*

### REQUIRED COURSES IN THE FIELD OF SPECIALIZATION

12 SEM. HRS.

*By advisement, from the following:*

Ex.Ed. 527 Guidance of Children Who Are Exceptional 2 Sem. Hrs.

Ex.Ed. 535 Mental Measurement 2 Sem. Hrs.

Ex.Ed. 538 Understanding the Problem Child in the Classroom 2 Sem. Hrs.

Ex.Ed. 551 Practicum in Education of Children with Mental Retardation 4 Sem. Hrs.

Ex.Ed. 561 Occupational Education for Children with Mental Retardation 2 Sem. Hrs.

- Ex.Ed. 571 Occupational Skills for Children with Mental Retardation 2 Sem. Hrs.  
 Ex.Ed. 591 Nature and Needs of Children Who Present Exceptional Problems of Learning 2 Sem. Hrs.

ACADEMIC COURSES 12 SEM. HRS.  
 Required English and/or Social Studies 6 Sem. Hrs.

RESEARCH 2-6 SEM. HRS.  
 Ed. 575 Research Methods and Techniques 2-3 Sem. Hrs.  
 El.Ed. 550 Research Project 4 Sem. Hrs.  
 El.Ed. 525 Master's Thesis 6 Sem. Hrs.

UNRESTRICTED ELECTIVES 5-9 SEM. HRS.

*Education of Children with Orthopedic Handicap:*

REQUIRED COURSES IN THE FIELD OF SPECIALIZATION 12 SEM. HRS.

*By advisement, from the following:*

- Ex.Ed. 502 Workshop in the Education of Children with Orthopedic Handicap 6 Sem. Hrs.  
 Ex.Ed. 512 Seminar in Education of Children with Orthopedic Handicap 2 Sem. Hrs.  
 Ex.Ed. 527 Guidance of Children Who Are Exceptional 2 Sem. Hrs.  
 Ex.Ed. 538 Understanding the Problem Child in the Classroom 2 Sem. Hrs.  
 Ex.Ed. 591 Nature and Needs of Children Who Present Exceptional Problems of Learning 2 Sem. Hrs.

ACADEMIC COURSES 12 SEM. HRS.  
 Required English and/or Social Studies 6 Sem. Hrs.  
 Electives 6 Sem. Hrs.

RESEARCH 2-6 SEM. HRS.  
 Ed. 575 Research Methods and Techniques 2-3 Sem. Hrs.  
 El.Ed. 550 Research Project 4 Sem. Hrs.  
 El.Ed. 525 Master's Thesis 6 Sem. Hrs.

UNRESTRICTED ELECTIVES 5-9 SEM. HRS.

*Education of Children with Speech Impairment:*

REQUIRED COURSES IN THE FIELD OF SPECIALIZATION 12 SEM. HRS.

*By advisement, from the following:*

- Ex.Ed. 503 Clinical Procedures in Speech Correction 3 Sem. Hrs.  
 Ex.Ed. 513 Seminar in Speech Science 3 Sem. Hrs.  
 Ex.Ed. 520 Speech Correction for Elementary School Teachers 2 Sem. Hrs.  
 Ex.Ed. 523 Applied Phonetics 2 Sem. Hrs.  
 Ex.Ed. 524 Introduction to Audiology 2 Sem. Hrs.  
 Ex.Ed. 527 Guidance of Children Who Are Exceptional 2 Sem. Hrs.  
 Ex.Ed. 533 Seminar in Speech Pathology 2 Sem. Hrs.

- Ex.Ed. 538 Understanding the Problem Child in the Classroom 2 Sem. Hrs.  
 Ex.Ed. 591 Nature and Needs of Children Who Present Exceptional Problems of Learning 2 Sem. Hrs.

ACADEMIC COURSES 12 SEM. HRS.  
 Required English and/or Social Studies 6 Sem. Hrs.  
 Electives 6 Sem. Hrs.

RESEARCH 2-6 SEM. HRS.  
 Ed. 575 Research Methods and Techniques 2-3 Sem. Hrs.  
 El.Ed. 550 Research Project 4 Sem. Hrs.  
 El.Ed. 525 Master's Thesis 6 Sem. Hrs.

UNRESTRICTED ELECTIVES 5-9 SEM. HRS.

*Education of Children with Hearing Impairment:*

REQUIRED COURSES IN THE FIELD OF SPECIALIZATION 12 SEM. HRS.

- Ex.Ed. 506 Workshop in Education of Children with Hearing Impairment 6 Sem. Hrs.  
 Ex.Ed. 524 Introduction to Audiology 2 Sem. Hrs.  
 Ex.Ed. 527 Guidance of Children Who Are Exceptional 2 Sem. Hrs.  
 Ex.Ed. 538 Understanding the Problem Child in the Classroom 2 Sem. Hrs.  
 Ex.Ed. 542 Speech Reading 2 Sem. Hrs.  
 Ex.Ed. 591 Nature and Needs of Children Who Present Problems of Learning 2 Sem. Hrs.

ACADEMIC COURSES 12 SEM. HRS.  
 Required English and/or Social Studies 6 Sem. Hrs.  
 Electives 6 Sem. Hrs.

RESEARCH 2-6 SEM. HRS.  
 Ed. 575 Research Methods and Techniques 2-3 Sem. Hrs.  
 El.Ed. 550 Research Project 4 Sem. Hrs.  
 El.Ed. 525 Master's Thesis 6 Sem. Hrs.

UNRESTRICTED ELECTIVES 5-9 SEM. HRS.

*Education of Children with Visual Impairment:*

REQUIRED COURSES IN THE FIELD OF SPECIALIZATION 12 SEM. HRS.

- Ex.Ed. 527 Guidance of Children Who Are Exceptional 2 Sem. Hrs.  
 Ex.Ed. 532 Workshop in Education of Children with Visual Handicap 6 Sem. Hrs.  
 Ex.Ed. 538 Understanding the Problem Child in the Classroom 2 Sem. Hrs.  
 Ex.Ed. 591 Nature and Needs of Children Who Present Exceptional Problems in Learning 2 Sem. Hrs.

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## ACADEMIC COURSES

Required English and/or Social Studies  
Electives

12 SEM. HRS.  
6 Sem. Hrs.  
6 Sem. Hrs.

## RESEARCH

Ed. 575 Research Methods and Techniques  
El.Ed. 550 Research Project  
El.Ed. 525 Master's Thesis

2-6 SEM. HRS.  
2-3 Sem. Hrs.  
4 Sem. Hrs.  
6 Sem. Hrs.

## UNRESTRICTED ELECTIVES

5-9 SEM. HRS.

*Total requirements: 32 semester hours.*

## HOME ECONOMICS EDUCATION

### COURSES IN TECHNICAL AND RELATED FIELDS 20-23 SEM. HRS.

#### *Technical Courses:*

Family Life (including Home Management, etc.) 2-6 Sem. Hrs.  
Foods and Nutrition and/or Clothing and Textiles 2-6 Sem. Hrs.

#### *Courses in Related Fields:*

Seminar in Home Economics Ed. (required) 3 Sem. Hrs.  
Workshop in Home Economics Ed. or 3-6 Sem. Hrs.  
Electives (by advisement) 2-6 Sem. Hrs.

#### *Research:*

Ed. 575 Research Techniques 2 Sem. Hrs.  
H.Ec 550 Project 4 Sem. Hrs.  
H.Ec. 525 Thesis 6 Sem. Hrs.

(Each candidate, after conference with her adviser, may select one of the above requirements. Credit may be applied to technical or related area or may be divided between them depending upon the nature of the work done.)

### GENERAL EDUCATION GRADUATE ELECTIVES 9-12 SEM. HRS.

Social Studies 2 Sem. Hrs.  
Science and/or Art 2-4 Sem. Hrs.  
Unrestricted Elective 4-6 Sem. Hrs.

*Total requirements: 32 semester hours.*

## INDUSTRIAL ARTS EDUCATION

### COURSES IN TECHNICAL AND RELATED FIELDS 20-23 SEM. HRS.

#### *Technical Courses:*

Specialization in Shop Laboratory 12 Sem. Hrs.  
Workshop in Industrial Arts Education 2-4 Sem. Hrs.  
Seminar in Industrial Arts Education 2-4 Sem. Hrs.  
Field Studies in Industrial Areas 3-6 Sem. Hrs.

#### *Courses in Related Fields:*

Workshop in Industrial Art Education 10 Sem. Hrs.  
Contemporary Labor Problems and Legislation 2-4 Sem. Hrs.  
Occupational Activities for the Handicapped 2-6 Sem. Hrs.  
Electives (by advisement) 2-6 Sem. Hrs.

#### *Research:*

Ed. 575 Research Techniques 2 Sem. Hrs.  
I.A. 550 Project 4 Sem. Hrs.  
I.A. 525 Thesis 6 Sem. Hrs.

(Each candidate, after conference with his adviser, may select one of the above requirements. Credit may be applied to technical or related fields or divided between them depending upon the nature of the work done.)

### GENERAL EDUCATION GRADUATE ELECTIVES 9-12 SEM. HRS.

English 2-4 Sem. Hrs.  
Mathematics and/or Science 3-6 Sem. Hrs.  
Social Studies 2-4 Sem. Hrs.  
Unrestricted Electives 3-6 Sem. Hrs.

*Total requirements: 32 semester hours.*

## INTENSIVE TEACHER TRAINING PROGRAM ELEMENTARY TEACHING CERTIFICATION FOR LIBERAL ARTS COLLEGE GRADUATES

To help relieve the extreme shortage of elementary teachers the College offers an intensive training program through which graduates of other colleges may prepare for elementary school teaching. The completion of a minimum of thirty semester hours, on the graduate level, twenty-four hours of which shall be in education courses approved for elementary school teaching, and evidence of satisfactory teaching, as determined by an approved evaluation program, will entitle the student to a permanent certificate to teach in the elementary grades.

To enter this program college graduates register in the Graduate Division for certain specified Summer Session or Extension courses. Completion of prescribed courses in a Summer Session will entitle the college graduate to a renewable certificate valid for one year. Additional renewals will be granted upon evidence of continued Summer Session study and satisfactory teaching.

For students wishing to complete the requirements for the Master of Science degree, six hours of graduate study, elected under the guidance of the Graduate Division of the College, will be required *in addition to the twenty-six hours of required courses in Elementary Education. Regulations relating to admission to candidacy must be followed.* All college graduates interested in this program for certification in elementary school teaching, should secure application blanks and complete instructions for registration as soon as possible.



1. Intermediate and Upper Grade Group

- Workshop in Elementary Education (Summer Session only) 8 Sem. Hrs.
- Seminar in Elementary School Problems (Emphasis on Science, Mathematics and Language Arts) 3 Sem. Hrs.
- Music and Art in Elementary Education 3 Sem. Hrs.
- Workshop in Child Development (Summer Session only) 6 Sem. Hrs.
- Problems in Elementary School Curriculum 3 Sem. Hrs.
- Seminar in Elementary Education 3 Sem. Hrs.
- Electives 4 Sem. Hrs.

2. Kindergarten-Primary Group

- Workshop in Elementary Education (Summer Session only) 8 Sem. Hrs.
- Kindergarten Education 3 Sem. Hrs.
- Psychology of the Pre-School Child 3 Sem. Hrs.
- Seminar in Elementary School Problems (Emphasis on Language Arts, Science, Mathematics) 3 Sem. Hrs.
- Music and Art in Elementary Education 3 Sem. Hrs.
- Workshop in Child Development (Summer Session only) 6 Sem. Hrs.
- Electives 4 Sem. Hrs.

## Course Descriptions

All courses are listed alphabetically by departments and catalog number. The number preceding each course designates the year level: 500 and above are graduate courses, 400 to 499 are senior courses; 300 to 399 junior courses, 200 to 299 sophomores courses, and 100 to 199 freshman courses.

A limited number of graduate courses are open to undergraduates of advanced standing and special training or interest. Permission must be obtained from the instructor.

*Credit:* Unless otherwise specified, all courses carry credit of three semester hours.

*Class Meetings:* Unless otherwise specified, courses meet daily for six weeks, from July 2 through August 10. A three-credit course meets eighty minutes each day.

Courses in the accelerated (eight weeks) program meet daily for fifty minutes with an additional fifty minute period one day each week.

In courses involving studio or laboratory work, additional hours are arranged. These courses are identified in the schedule below with an asterisk.

### ART EDUCATION

#### Undergraduate

ART 256s. ART IN EVERYDAY LIFE. Art as related to personal life, home, school, community, industry, and commerce; architectural and interior design, costume design, consumer education, interrelationship of the arts; directed observations and participation in secondary school art education. Required of Art Education sophomores. *Lofgren 8:00-9:20*

ART 400s. WORKSHOP IN CRAFTS I. Various crafts: leather work, metal work, ceramics and jewelry; class and individual instruction and election of creative projects. *Credit: two or three semester hours. Winebrenner 9:30-10:50\**

ART 420s. ART CAMP. (See Art 520s.)

ART 458s. THEATRE DESIGN. Philosophy, techniques, and practices in design for the dramatic arts; scenery, costume, makeup, lighting and allied stage crafts; model sets and production work. Required of all Art Education seniors. *Credit: two semester hours. Dakin 12:30-1:20*

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## Graduate

ART 508s. GRADUATE STUDIO IN DESIGN AND SPATIAL ORGANIZATION. Individualized work in designing with paint and materials; specialization may be in commercial designing of textiles, wall paper, etc.; layout for publications; home planning and furnishing; costume, stage design, industrial design, or other functional or decorative art.

*Credit: two or three semester hours.*

*Hubler 11:00-12:20\**

ART 509s. GRADUATE STUDIO IN CRAFTS. Individualized work in textiles, jewelry, leather, woodcarving, sculpture, plastics, pottery and metal.

*Credit: two or three semester hours.*

*Winebrenner 9:30-10:50\**

ART 510s. GRADUATE STUDIO IN PHOTOGRAPHY. Photographic processes; black-and-white and color photography as a form of expression, as commercial art, as a form of recording, and as used in the making of teaching aids and publications.

*Squeri 9:30-10:50*

ART 511s. ART IN THE ELEMENTARY CURRICULUM. The use of art materials, processes, and procedures in the elementary school; developing creative and expressive activities of children.

*Heyman 9:30-10:50*

ART 512s. STUDIO IN SCULPTURE. Sculpture as a means of individual and group expression; theory and processes using media such as wood, stone, plaster, cement block, and metal.

*Credit: two or three semester hours.*

*Bolinsky 11:00-12:20\**

ART 513s. GRADUATE STUDIO IN GRAPHICS. Individually programmed activities in one or more of the following media: lithography, wood engraving, etching, serigraphy, dry paint, engraving.

*Credit: two or three semester hours.*

*O'Connell 8:00-9:20\**

ART 514s. WORKSHOP IN THE FOLK ARTS. A course providing folk-art experiences that can be applied to work with children. The course will cover the folk arts, music, dancing, foods, and crafts of cultural groups significant to teachers in the Western New York area.

*Credit: two semester hours.*

*Tallmadge, et. al. (August 13-24)*

ART 520s. ART CAMP. A two-week Post-Summer Session camp; intensive creative activity in casein, oil, and watercolor painting; photography; mobile, plaster, stone, wire, and wood sculptures; sketching; or contemporary art study; or a combination of the above. Enrollment limited to twenty students. Open to undergraduate, graduate, special non-credit students, and recent high school graduates.

*Credit: two semester hours.*

*Dakin (August 13-24)*

## Undergraduate

### EDUCATION

ED. 152s. HUMAN GROWTH AND DEVELOPMENT. Emotional development and learning; motivation; personal and social growth; effect of home, school, and community; personality development; evaluating human growth and development; directed observation. Required of all Elementary Education and Home Economics freshmen; required of Art Education sophomores.

*Carroll 11:00-12:20*

EL.ED. 307s. PSYCHOLOGY OF THE PRE-SCHOOL CHILD. (See EL.ED. 522s.)

EL.ED. 308Cs. SEMINAR IN EARLY CHILDHOOD EDUCATION. (See EL.ED. 515s.)

EL.ED. 402s. SEMINAR IN ELEMENTARY SCHOOL TEACHING. Science and philosophy in elementary school teaching; special problems of the classroom teacher in the State of New York; scientific methods of research in solving educational problems. Required of all Elementary Education seniors.

*Moss 12:30-1:50*

Eight weeks: section A

*Barnett 8:00-8:50 daily; 1:00-1:50 Thursday*

Eight weeks: section B

*Barnett 10:00-10:50 daily; 12:00-12:50 Wednesday*

ED. 461s. SAFETY EDUCATION. (See Ed. 566s.)

ED. 463s. DRIVER EDUCATION. (See Ed. 567s.)

ED. 465s. AUDIO-VISUAL EDUCATION. Basic audio-visual knowledge and skills for effective teaching; use of equipment; films, and other materials; orientation; co-ordinating the audio-visual program in the school; teacher and pupil produced materials; photography.

*Truesdale 2:00-3:20*

EL.ED. 485s. READING CLINIC. (See EL.ED. 585s.)

EL.ED. 486s. METHODS AND MATERIALS IN THE ELEMENTARY SCHOOL. (See EL.ED. 516s.)

ED. 489s. SEMINAR IN INTERNATIONAL STUDIES. (See Ed. 540s.)

## Graduate

EL.ED. 500s. WORKSHOP IN ELEMENTARY EDUCATION. Work on individual problems encountered in actual practice; individual counselling on projects; general seminar and wide use of the Campus School. Required of all students registered for the degree of Master of Science.

*Credit: six semester hours.*

*Sherrie, et. al. 8:30-3:30*

EL.ED. 500As. WORKSHOP IN ELEMENTARY EDUCATION. (For Intensive Teacher Training Program Students only.) Emphasizes child development, elementary school methods and materials; includes preparation of an individual report; experience with children in the Campus School. Required of all students in the Intensive Training Program.

*Credit: eight semester hours.*

*Gover, et. al. 8:00-3:00*

EL.ED. 501s. SEMINAR IN ELEMENTARY EDUCATION. Scientific aspects of educational research; study of special problems by individual students from their own teaching experiences. Required of students registered for the degree of Master of Science.

*Crayton 8:00-9:20*

EL.ED. 504s. ADMINISTRATION OF THE ELEMENTARY SCHOOL. New York State educational system; legal aspects; school board; educational finance; responsibilities of the principal; business management, school plant management; plant maintenance; pupil transportation; pupil accounting; pupil counselling; teacher recruitment, selection, employment, assignment, orientation; evaluation, tenure and dismissal. May precede or follow EL.Ed. 503s. Open to experienced teachers, principals, and supervisors. *MacVittie* 12:30-1:50

ED. 506s. PHILOSOPHY OF EDUCATION. Principles underlying educational practices; changing concepts of education; education in a democratic society; teaching procedures as determined by a democratic concept of education. *Sloan* 11:00-12:20

EL.ED. 512s. SEMINAR IN CHILD DEVELOPMENT. (For Intensive Teacher Training Program students who have taken EL.Ed. 500A.) Study of growth and development of elementary school children; understanding and guiding child growth in the mental, social, physical and emotional areas; individual and group work on specialized problems; field trips and observations in classrooms. *Credit: six semester hours.* *Martorana* 8:00-12:00

EL.ED. 515s. SEMINAR IN EARLY CHILDHOOD EDUCATION. Current trends affecting the curriculum for children from three to eight years of age; materials, organization, techniques and significant procedures with attention to child-parent-community relationships. *Jamison* 9:30-10:50

EL.ED. 516s. METHODS AND MATERIALS IN THE ELEMENTARY SCHOOL. Recent trends in the elementary school curriculum; detailed studies of language arts, social studies, numbers, science, and evaluation. *Eddins* 11:00-12:20

EL.ED. 522s. PSYCHOLOGY OF THE PRE-SCHOOL CHILD. Important phases of development from infancy through the pre-school and early school years; consideration of the motor, language, social, emotional and intellectual development of the growing child in relation to his physical, social and cultural environment; observation of children. *Jamison* 8:00-9:20

ED. 529s. ADVANCED ADOLESCENT PSYCHOLOGY. Social, emotional, mental, physical, and personality development of adolescents; relationship of behavior to preadolescent and post-adolescent development; educational adjustments and vocational interests; guidance program in junior high school. Required of all 1956 Summer Session students who are preparing for early-secondary teaching. *Carroll* 9:30-10:50

EL.ED. 530s. PRINCIPLES OF SUPERVISION. Historical developments and changing concepts of supervision; principles of effective supervisory programs; types of administrative organization; maintaining staff morale. Open to experienced teachers, principals, and supervisors. *Lange* 9:30-10:50

ED. 533s. WORKSHOP IN AUDIO-VISUAL EDUCATION. Audio-visual teaching methods; basic skills and knowledge in use of equipment; films, filmstrips, slides and other materials available; sources of materials and equipment; audio-visual programs in the schools; housing; ordering of materials; budgets, administration, evaluation; and film libraries. *Truesdale* 12:30-1:05

ED. 536s. EARLY SECONDARY SCHOOL PROBLEMS AND METHODS. Objectives of early secondary school education; basic principles of learning and motivation; curriculum concepts; organizing learning experiences; providing for individual differences; teacher-pupil planning; selecting and organizing learning materials; audio-visual aids to learning; utilizing school, civic and community resources; status and practice of the core curriculum; nature and purposes of resource units; evaluating pupil growth. For students preparing for early secondary school teaching. *Durnin* 11:00-12:20

ED. 540s. SEMINAR IN INTERNATIONAL STUDIES. Scheduled trips to International Educational Organizations, Swiss schools and camps; week-end excursions; individual research projects; participation at annual International Education Conference at the Palace Wilson and International School at Geneva. *Credit: two to six semester hours.* *Neuhardt*

ED. 546s. 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 teaching reading; developmental levels of reading; reading in the content areas; methods and materials; evaluation and guidance of pupil growth in reading. *Lange* 8:00-9:20

ED. 566s. SAFETY EDUCATION. A study of the areas responsible for most accidents in the home, the school, the shop, the playground and the community; water, traffic, fire, and recreational safety; teaching safety in the elementary and secondary schools; integration and correlation of safety education in the school curriculum. *Meyer* 11:00-12:20

ED. 567s. DRIVER EDUCATION. Meets certifying requirements for teaching Driver Education in New York; behind-the-wheel training, psycho-physical testing equipment; motor vehicle laws, traffic engineering, insurance, accident statistics, accident prevention, automobile maintenance, administering high school driver education course. Students admitted must have met, or intend to meet, certifying requirements to teach on the secondary school level; they also must have had a valid driver's license for at least 60 days. Four class hours and six driving hours a week. Special fee—\$4.00. *Meyer* 2:00-2:40\*

ED. 575s. RESEARCH METHODS AND TECHNIQUES. Methods and types of research in studying educational problems; research literature on problems for study; bibliographical resources pertinent to a problem; collecting, handling, and interpreting evidence; tables, graphs and charts, statistical terminology. Required of all graduate students not writing a project or a thesis. Section A. *Moss* 9:30-10:50  
Section B. *Sloan* 8:00-9:20

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EL.ED. 585s. READING CLINIC. Effective teaching procedures to achieve competence in comprehension, facility, word recognition, and spelling; identification of reading needs; remedial instruction for specific problems and maladjustments related to reading disability.  
*Credit: six semester hours.*

*Dunklin* 9:00-1:00

### Undergraduate

### ENGLISH

ENG. 101s. ENGLISH COMPOSITION. Principles of clear and effective writing; the sentence, the paragraph, the whole composition; dictionary drill and vocabulary building; research paper. Required of all freshmen.  
Eight weeks: section A. *Trueblood* 8:00-8:50 daily; 11:00-11:50 Monday  
Eight weeks: section B. *Trueblood* 9:00-9:50 daily; 11:00-11:50 Friday

ENG. 204s. ENGLISH LITERATURE. English prose and poetry from the beginning through the Victorian period. Required of Elementary Education sophomores and Home Economics seniors, elective for others.

*Gragg* 12:30-1:50

Eight weeks: section A. *McRae* 9:00-9:50 daily; 2:00-2:50 Thursday  
Eight weeks: section B. *McRae* 11:00-11:50 daily; 9:00-9:50 Friday

ENG. 205s. GENERAL LITERATURE. Literary masterpieces of Western civilization; English and American poetry and prose; translations from the Greek, Latin, French, German and Russian. Required of all Art Education sophomores.

Eight weeks: *Messner* 11:00-11:50 daily; 1:00-1:50 Tuesday

ENG. 210s. CHILDREN'S LITERATURE. (See Eng. 514s.)

ENG. 301s. PLAY DIRECTION. Play selection and analysis; casting; rehearsals; student productions. Elective for sophomores, juniors, and seniors.  
Eight weeks: *Goossen* 9:00-9:50 daily; 8:00-8:50 Tuesday

ENG. 304s. AMERICAN LITERATURE. Survey of American literature; major authors and literary developments of the 19th Century; the Romanticists: Irving, Bryant, Poe, Emerson, Thoreau, Hawthorne, Whitman; the Realists: Howells, Clemens, Harte, Dickinson. Required of Elementary Education and Industrial Arts juniors.

*Greenwood* 9:30-10:50

Eight weeks: section A. *Klomp* 9:00-9:50 daily; 1:00-1:50 Tuesday  
Eight weeks: section B. *Klomp* 10:00-10:50 daily; 11:00-11:50 Friday

ENG. 306s. ADVANCED SPEECH. Informative talks; individual and group reading of poetry; story-telling. Required of all Elementary Education juniors.

*Goossen* 11:00-12:20

ENG. 402s. CONTEMPORARY LITERATURE. British and American Literature of the twentieth century, with emphasis on poetry and fiction. Required of Elementary Education seniors.

*Drew* 8:00-9:20

### Graduate

ENG. 500s. STUDIES IN THE STRUCTURE AND FUNCTION OF LANGUAGE. Fundamental principles basic to all languages; theories of the origin of language; the nature and psychology of language; phonetics and phonetic change; alphabets and systems of writing; language types and families; the Indo-European family and its branches; the history of the English language; word origins and changes in meaning; speech standards.

*Messner* 8:00-9:20

ENG. 514s. CHILDREN'S LITERATURE. Types of children's literature; criteria of book selection; reading interests of children; preparation of bibliography.

*Eddins* 12:30-1:50

ENG. 520s. SHAKESPEAREAN TRAGEDY. Esthetic and philosophic qualities of Shakespeare tragedy studied in the playwright's mature plays: Hamlet, Othello, Lear, Macbeth; readings in Shakespeare criticism.

*Gragg* 9:30-10:50

ENG. 522s. STUDIES IN MODERN AMERICAN POETRY. Trends and outstanding figures in American poetry since 1912; emphasis upon the work of two writers from the following: Robinson, Frost, Millay, Eliot, and Benet.

*Drew* 11:00-12:20

### EXCEPTIONAL CHILDREN EDUCATION

#### Graduate

EX.ED. 551s. PRACTICUM. Observation and individual participation in a class for children with mental retardation: group discussions and experimentation in techniques and materials.

*Credit: six semester hours*

*Mann, Blatt* 8:00-12:20

EX.ED. 591s. 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.

*Bloustein* 12:30-1:50

### GEOGRAPHY

#### Undergraduate

GEOG. 301s. GENERAL GEOGRAPHY I. Geography of the world organized by climatic regions: the low latitudes, the high latitudes, arid and semi-arid regions of intermediate latitudes; physical, cultural and economic conditions of each region; interpretation of maps. Required of Elementary Education juniors.

Eight weeks: section A. *Langdon* 1:00-1:50 daily; 2:00-2:50 Wednesday

Eight weeks: section B. *Langdon* 11:00-11:50 daily; 8:00-8:50 Tuesday

GEOG. 402s. GENERAL GEOGRAPHY II. Second half of world geography; regions of intermediate latitudes: physical backgrounds; mining, manufacturing, trade, transportation and agriculture; inter-dependence of regions; distribution of world population. Required of Elementary Education seniors.

*Alexander* 9:30-10:50  
 Eight weeks: section A. *Alexander* 8:00-8:50 daily; 11:00-11:50 Monday  
 Eight weeks: section B. *Long* 10:00-10:50 daily; 9:00-9:50 Monday  
 Eight weeks: section C. *Long* 11:00-11:50 daily; 8:00-8:50 Monday

### Graduate

GEOG. 501s. STUDIES IN INDUSTRIAL GEOGRAPHY. Selected topics of current importance such as petroleum and world politics, Niagara power development, coffee in world trade, chemical industry of the Niagara Frontier, production and distribution of strategic materials; field studies of a local area industry.

*Redden* 8:00-9:20

GEOG. 503s. STUDIES IN RESOURCE CONSERVATION. Principles of conservation of natural resources; selected topics such as soil erosion in Western New York, pollution on the Erie-Niagara Watershed, Great Lakes fisheries, flood control and stream improvement, management of farm woodlands, the New York State Forest Preserve, recreational resources and wildlife management programs in Western New York.

*Eckert* 11:00-12:20

## HEALTH AND PHYSICAL EDUCATION

### Undergraduate

H.E.D. 201s. HEALTH EDUCATION. Personal hygiene, nutrition, respiration, circulation, excretion, grooming, vision, hearing, mental health, communicable diseases, and safety. Required of Elementary Education sophomores and Art Education freshmen.

*Credit: two semester hours.*

Eight weeks: section A. *Spaulding* 8:00-8:50 daily except Friday  
 Eight weeks: section B. *Spaulding* 11:00-11:50 daily except Friday

P.E.D. 301s. PHYSICAL EDUCATION. Principles of physical education; physical education in the elementary school; teaching motor skills; fundamental play, relays, lead-up games; rhythms, stunts and classroom games; selection of activities; safety in physical education. Required of Elementary Education juniors.

*Credit: two semester hours.*

Eight weeks. *Spaulding* 1:00-1:50 daily except Friday

H.E.D. 315s. ELEMENTARY SCHOOL HEALTH PROBLEMS. Health needs of the growing child; home, school and community health needs; planning for health education in the schools and classroom; prevention of serious health problems.

*Credit: two semester hours.*

*Katzman* 12:30-1:50

H.E.D. 402s. HEALTH PROTECTION. School and community health problems; school health service; communicable disease control; water supply and sewage disposal; food sanitation; safety education. Required for Elementary Education seniors.

*Credit: two semester hours.*

*Katzman* 2:00-2:50

### Undergraduate Graduate

## HOME ECONOMICS

H.E.C. 500s. SEMINAR IN HOME ECONOMICS EDUCATION. Recent research and problems in the field of Home Economics Education; special problems selected by individual students from the area of Home Economics Education.

*Grant* 9:30-10:50

H.E.C. 503s. FAMILY RELATIONSHIPS. A study of the family viewed longitudinally with emphasis on the developmental tasks of family members at each stage of the family life cycle. The research on success in marriage and family crisis will be considered.

*Stewart* 8:00-9:20

H.E.C. 522s. ISSUES IN THE MODERN AMERICAN FAMILY. Current educational, psychological, and social issues and concerns of the modern American family examined and related to changing cultural values.

*Stewart* 11:00-12:20

### Undergraduate

## INDUSTRIAL ARTS

I.A. 101s. ELECTRICITY. Basic electrical and electronic principles; generation, transmission, and use of electric power; electro-chemistry; transportation and communication; operation, service, and repair of electrical devices and appliances; experimental circuit work and construction of projects suitable for the junior-senior high school. Required of Industrial Arts sophomores.

*Credit: five semester hours.*

Eight weeks. *Cook* 7:30-10:00; 11:30-2:00

I.A. 102s. WOODWORK. Benchwork, cabinet making, pattern making, upholstery, carpentry, wood finishing, model making, boat building, aircraft construction; hand and machine tool methods; care, and maintenance of equipment. Required of Industrial Arts freshmen.

*Credit: five semester hours.*

Eight weeks. *Callan* 7:30-10:00; 11:30-2:00

I.A. 201s. TRANSPORTATION. Common means of transportation; the bicycle, motorcycle, automobile, airplane, railroad, and ship; projects involving construction, planning, designing, trouble-hunting, periodic adjustment, maintenance; teaching methods and techniques. Required of all Industrial Arts students.

*Credit: five semester hours.*

Eight weeks. *Staff* 7:30-10:00; 11:30-2:00

I.A. 202s. METALWORK. Fundamentals of foundry work, sheet metal, art metal, oxy-acetylene welding, brazing, silver soldering, forging, and heat treatment; machine-tool operation on lathes, milling machines, shaper, band saw, surface grinder, and necessary bench work; related lessons in metalwork. Required of Industrial Arts freshmen.

*Credit: five semester hours.*

Eight weeks.

*Fontana 7:30-10:00; 11:30-2:00*

I.A. 303s. INDUSTRIAL ARTS FOR THE ELEMENTARY SCHOOL. Hand-tool processes in woodworking, metalwork, textiles, ceramics, leather, and handicrafts. Group and individual projects. Required of Elementary Education juniors and seniors.

Eight weeks: section A.

*Russell 8:00-9:50 daily except Monday*

Eight weeks: section B.

*Waagen 8:00-9:50 daily except Monday*

Eight weeks: section C.

*Waagen 10:00-11:50 daily except Monday*

I.A. 311s. PRINCIPLES AND PRACTICES OF INDUSTRIAL ARTS II. Methods of teaching, instructional materials, evaluation of pupil growth, library and planning centers, museums, exhibits, records, personnel systems. Required of Industrial Arts juniors.

Eight weeks.

*Morrice 10:00-10:50 daily; 2:00-2:50 Monday*

I.A. 406s. CERAMICS. Materials, processes and products of the ceramic field, clay preparation, mold making, slip casting, throwing and turning, tile making, decorating and glazing, firing. Required of Industrial Arts students.

Eight weeks.

*Steinzor 7:30-10:00*

I.A. 407s. TEXTILES. Fibers, processes and products of the textile industry; weaving; dyeing; surface treatment and finishing of fabrics. Required of Industrial Arts students.

Eight weeks.

*Steinzor 12:00-2:00*

### Graduate

I.A. 500s. WORKSHOP IN INDUSTRIAL ARTS. Organizing and operating the Industrial Arts program at the elementary school, high school, and adult levels.

*Russell 12:30-1:50*

I.A. 502s. FIELD STUDIES RELATED TO INDUSTRIAL ARTS EDUCATION. Individual and group studies of industrial activities on the Niagara Frontier; the woodworking and fabricating trades; metal industries; plastic and fibre products; graphic arts; electrical, ceramic, airplane and automotive manufacture; conferences with representatives of industry and various labor organizations.

*Brossman 8:00-11:00*

### MATHEMATICS

#### Undergraduate

MATH. 102s. GENERAL MATHEMATICS. Number; processes; formulas; equations; graphs; functionality; exponents; radicals; precision and accuracy in measurement; applications and problems.

Eight weeks.

*Morrice 11:00-11:50 daily; 2:00-2:50 Tuesday*

### Graduate

MATH. 500s. MATHEMATICS IN THE ELEMENTARY CURRICULUM. Development of number; rationale of processes; relationships; generalizations; meaning and significance of number and processes; mathematics as a language; measurement; problem solving; visual aids; professional literature; analyses and reports of reading; individual research and project.

*Ebert 8:00-9:20*

MATH. 501s. WORKSHOP IN MATHEMATICS. Selected topics in the field of elementary mathematics analysis of research; individual study of a problem and written report of findings; committee study and reports on problems.

*Credit: two semester hours.*

*Ebert (August 13-24)*

### MUSIC

#### Undergraduate

MUS. 101. ESSENTIALS OF MUSIC. Elements of music: rhythmic, melodic, and harmonic; sight-singing; ear training; writing; playing. Required of Elementary Education freshmen.

*Credit: two semester hours.*

Eight weeks: section A.

*Bailey 8:00-8:50 daily*

Eight weeks: section B.

*Bailey 9:00-9:50 daily*

### SCIENCE

#### Undergraduate

SCI. 101s. PHYSICAL SCIENCE I. Survey of the physical sciences; the scientific method of inquiry as exemplified in astronomy, geology and meteorology; the size and organization of our solar system and the starry heavens; processes which have modified and continue to modify the earth's surface; factors which determine weather and climate. Required of all Elementary Education freshmen.

Eight weeks: section A.

*Arthur 10:00-10:50 daily; 11:00-11:50  
Tuesday, Wednesday, Thursday*

Eight weeks: section B.

*Arthur 1:00-1:50 daily; 2:00-2:50  
Tuesday, Wednesday, Thursday*

SCI. 201s. BIOLOGY. Principles and theories which explain the structure, taxonomy, physiology, ecology, reproduction, genetics, and evolution of plants and animals. Required of all Elementary Education sophomores.

Eight weeks: section A.

*Dupre 8:00-8:50 daily; 9:00-9:50 Tuesday,  
Wednesday, Thursday*

Eight weeks: section B.

*Dupre 1:00-1:50 daily; 2:00-2:50 Monday,  
Wednesday, Friday*

SCI. 310s. SCIENCE IN THE ELEMENTARY GRADES. (See Sci. 500s.)

SCI. 312s. METEOROLOGY. The atmosphere; methods of observing and recording weather elements; explanation of weather changes; interpretation of the weather map; basic principles of forecasting; relation of weather to man and his activities.

*Lampkin 9:30-10:50*

SCI. 410s. FIELD STUDIES IN SCIENCE. (See Sci. 501s.)

SCI. 421s. HUMAN ANATOMY AND PHYSIOLOGY. Structure and function of the human body, including metabolism, nutrition, and disease.

*Laug* 12:30-1:50

SCI. 425s. REGIONAL STUDIES IN SCIENCE. (See Sci. 504s.)

SCI. 426s. SCIENCE IN TRANSPORTATION. (See Sci. 523s.)

### Graduate

SCI. 500s. SCIENCE IN THE ELEMENTARY CURRICULUM. Background, purposes and present scope of science in the elementary schools; professional review of subject matter with demonstrations, experiments, audio-visual aids, readings.

*Urban* 11:00-12:20

SCI. 501s. FIELD STUDIES IN SCIENCE I. Biological and geological field work; selected field studies, both group and individual; intensive studies of one or more areas. Elective for seniors with an average of C in science completed to date and to graduates with six hours of undergraduate science.

*Eckert* 8:00-9:20

SCI. 503s. ECOLOGY. Scientific nature study, including consideration of the relationships between living things and their physical environment; biological relationships between and within species; man's relationship with the natural environment. Lectures, discussions, readings.

*Urban* 9:30-10:50

SCI. 504s. REGIONAL STUDIES IN SCIENCE. Field work at Allegheny State Park; out-of-doors science for the elementary school teacher; identification of wild flowers, trees, birds, insects, and other living things; relationships between living things and their environment; geology of the Park, and of western New York. Open to graduate students, and to undergraduates who have credit for six hours of general biology and three hours of physical science, or the equivalent.

*Credit: two semester hours.*

*Urban, et. al.* (August 13-24)

SCI. 523s. SCIENCE IN TRANSPORTATION. Application of scientific principles in various methods of transportation; the science involved in such problems as safety, comfort, governmental aid and regulation.

*Lampkin* 11:00-12:20

### SOCIAL STUDIES

#### Undergraduate

S.S. 101s. HISTORY OF CIVILIZATION. Persistent problems of civilization as background for contemporary world issues; relationships of man and the state; reform and revolution; religion and other aspects of man's spiritual and intellectual development; changing methods and organization of economic life; imperialism and the problems of empire; growth of nationalism and internationalism.

Eight weeks: section A. *Robison* 10:00-10:50 daily; 2:00-2:50 Monday  
Eight weeks: section B. *Rogers* 1:00-1:50 daily; 11:00-11:50 Friday

S.S. 201s. CONTEMPORARY CIVILIZATION. Continuation of S.S. 101-102; problems of political and economic organization; recent nationalism and imperialism; revolutions and the pattern of dictatorship; attempts at world organization; chief developments of major European and Asiatic countries. Required of Elementary Education sophomores.

Eight weeks: section A. *Mason* 9:00-9:50 daily; 8:00-8:50 Tuesday  
Eight weeks: section B. *Rogers* 10:00-10:50 daily; 2:00-2:50 Tuesday  
Eight weeks: section C. *Mason* 10:00-10:50 daily; 8:00-8:50 Friday

S.S. 302s. AMERICAN CIVILIZATION AND GOVERNMENT. Establishment of the American republic; growth of American civilization; relations between the government and the people; place of the nation in the modern world. Required of Elementary, Home Economics, and Industrial Arts Education juniors.

Eight weeks: section A. *Robison* 11:00-11:50 daily; 8:00-8:50 Monday  
Eight weeks: section B. *R. Brown* 1:00-1:50 daily; 2:00-2:50 Monday

S.S. 306s. AMERICAN HISTORY SINCE 1865. Economic, political, and social problems of the post-Civil War era; recognition of the United States as a world power; its part in the two World Wars; recent developments in international affairs.

*Brunger* 9:30-10:50

S.S. 402s. SOCIOLOGY. Rise and development of culture; cultural change; social organization and social institutions. Required of Elementary Education and Art Education seniors.

Eight weeks. *Hollister* 12:30-1:50  
*R. Brown* 10:00-10:50 daily; 9:00-9:50 Monday

S.S. 405s. INTERNATIONAL RELATIONS. Rise of the state system; economic and political nationalism; imperialism; diplomacy and the settlement of international disputes; League of Nations and the United Nations.

*E. Brown* 8:00-9:20

S.S. 436s. FIELD COURSE IN THE HISTORY AND GEOGRAPHY OF NEW YORK STATE. (See S.S. 507s.)

#### Graduate

S.S. 506s. MINORITY GROUPS IN AMERICAN CULTURE. Major racial, nationality, and religious minority groups in America treated from the cultural, historical, and familial points of view; current anthropological and psychological data on uniformities, differences, prejudices, and discrimination. Prerequisites: fifteen hours in Social Studies.

*Hollister* 11:00-12:20

S.S. 507s. FIELD COURSE IN THE HISTORY AND GEOGRAPHY OF NEW YORK STATE. Characteristics of the geographic regions (Allegheny Plateau, Catskills, Hudson and Champlain Lowlands, Adirondacks, Mohawk Valley, Tug Hill and Black River Valley, St. Lawrence Lowland and Seaway, and Lake Plains); colonial and pioneer settlement; present population pattern; transportation routes and facilities; forts and battlefields of three wars; industrial development; conservation practices; places associated with famous people and movements. One day is spent on campus for orientation and travel arrangements.

*Credit: two semester hours.*

*Redden, Brunger* (August 12-24)

S.S. 513s. SOCIAL AND INTELLECTUAL HISTORY OF THE UNITED STATES. Social roots of systems of thought; effects of ideas upon American society; continuing patterns of thought, such as Puritanism, liberalism, democracy; contributions of intellectual leaders. Prerequisites: fifteen hours in Social Studies, including six in American History. *Brunger* 8:00-9:20

S.S. 518s. CONTEMPORARY EUROPEAN POLITICAL MOVEMENTS. Organization, campaigns, propaganda, electoral geography, parliamentary tactics, and national political parties, especially the Communist, Socialist, Christian Democratic, Peasant, Conservative, and Neo-Fascist. Prerequisites: fifteen hours in Social Studies, including six in European History. *E. Brown* 9:30-10:50

S.S. 520s. WORKSHOP IN METHODS AND MATERIALS IN SOCIAL STUDIES. Consideration of unit, topic, discussion, project, problem, and laboratory methods; teaching aids such as film strips, pictures, models and library reference materials; types of evaluation. *Credit: two semester hours.* *Sexton* (August 13-24)

## SPECIAL FEATURES

The College Summer Session offers varied educational experiences in addition to regular classroom activities. Some of these are:

### Community Resources Workshop

In cooperation with Canisius College, the University of Buffalo, and the Buffalo Chamber of Commerce, the College this summer will sponsor a six-weeks workshop in Community Resources. Through it, teachers will discover how the life, culture, industry, and activity of the Buffalo area can be made to have real educational meaning for youngsters in the classroom.

For this summer the workshop will meet on the campus of Canisius College. Three instructors, one from each of the participating institutions, will lead the group. The course will occupy a student's full time and carry six semester hours credit.

Through the generosity of the Buffalo Chamber of Commerce scholarships paying tuition costs will be available to some students.

Additional information about the course may be obtained from Dr. Allen G. Sexton at the College.

### Folk Arts

Growing interest in the cultural life of other peoples has given impetus to a post-session course the College will offer this summer in the Folk Arts. Many teachers have found that the customs, costumes,

songs, dances, and crafts of various ethnic groups provide excellent resource material for classroom use.

The folk-arts workshop will be held on the campus from August 13 to 24. Graduate credit of two semester hours will be offered.

In the two weeks the students will be given an insight to a variety of forms of self-expression used by various peoples of the world. Major emphasis will be given those national groups which are significant in the culture of the Buffalo area.

Although the workshop will provide personal pleasure for the students participating, it is also designed to enable a teacher to use the folk-arts material in her own classroom.

Further information may be obtained from Dr. Stanley Czurles at the College.

### Guidance Conference

The College will be host on July 18 and 19 to guidance leaders and other teachers interested in student personnel services.

As the need for understanding the function of guidance increases, and the need for it becomes more apparent even in the elementary grades, it has been felt that the College could serve the teachers of the area by providing a conference on the subject.

Specialists will lead discussions and persons active in counselling work will participate throughout. It is hoped that the two-day meeting will stimulate greater interest in this growing subject and will suggest some procedures for solving the many problems of the guidance counselor.

### Driver Education Scholarships

For the second year, a substantial grant from the Allstate Foundation of Chicago permits the College to offer scholarships to teachers training in Driver Education. The course of study to be followed is described earlier in this bulletin under Education 567s.

At least thirty-six scholarships valued at one hundred dollars each will be awarded to persons training in the program. Each scholarship pays all tuition and other fees for the regular six-weeks session and provides a small additional amount for personal expenses.

The Driver Education program is one answer to the growing problem of automobile-accident destruction. Teachers are needed in many high schools to supervise programs in safety education and driver

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training for young men and women learning to drive. The College uses the grant to encourage qualified teachers to take the training necessary to qualify them for such leadership.

Applications for the scholarships, and further information, may be obtained from Howard J. Meyer, at the College.

#### Extra-Class Activities

During the summer there will be offered suitable opportunities for recreation, entertainment, and intellectual stimulation. Four convocations during the summer will offer well-known speakers; panel discussions, informal seminars, exhibits, and demonstrations will supplement the formal educational program. There will be tours and field trips arranged for those interested in seeing the historical and scenic features of the Niagara Frontier; there will also be organized participation in the cultural programs of the vicinity. Motion pictures of merit and lasting interest will be shown frequently; swimming, dancing, tennis, badminton, canoeing, teas and the general sociability of the College Union round out the opportunities for relaxation. The extra-class program will be under the supervision of Dr. Gordon Klopf, Dean of Students, and his staff. Specific reminders of the features will be announced in the college newspaper, published weekly through the summer.

Four convocations are held each summer. In 1955 the students were addressed by Willard Goslin, U. S. Commissioner Samuel Brownell, May Hill Arbuthnot, and Harrison Salisbury. Scheduled for 1956 are Jessica Dragonette, Harvey M. Rice, and Norman Cousins.

#### Field Course in the History and Geography of New York State

Insistent demand from teachers who have found this trip, providing first-hand experience with the history and geography of New York State, invaluable in their classrooms has led the College to conduct the course again in 1956.

From August 12 to August 24 a group will tour by comfortable bus the points in this state of greatest historical, cultural, and geographic interest. Places visited and studied will include the Mount Morris Dam, the Genesee Valley, Watkins Glen, Corning, Elmira, the Hudson Valley, West Point, Albany, Ticonderoga, Ausable Chasm, Plattsburgh, the Mohawk Valley, Cooperstown, etc.

Two instructors, Mr. Redden of the Geography Department, and Mr. Brunger, a historian, will conduct the tour and integrate the knowledge gained in this on-the-spot experience.

Further information may be obtained from Robert Redden at the College.

#### Science Camp

The Sixth Science Camp, sponsored by the Science Department, will be held at Allegany State Park during the two weeks immediately following Summer Session, August 12 to 24, inclusive.

Any elementary school teacher or principal may enroll. Both graduate and undergraduate students are eligible. Prerequisites are six semester hours of college biology and three semester hours of physical science, or the equivalent. Exceptions can be made for those engaged in teaching who have not had the prerequisites.

Activities will include: learning to recognize wild flowers, birds, trees, insects, mosses, ferns, etc.; studying the habitats of various forms of life; and studying the rock formations and fossils of the region. Instruction is in the field, weather permitting. All work will be closely related to the elementary school and to the interests of individual teachers. Several evening sessions are planned with consultants in conservation, nature study and wildlife management.

Facilities include: 20 cabins, a large recreation building with fireplace, separate dining room, shower rooms with hot and cold running water, and telephone. A post office, ranger station, and telephone are located nearby. Food will be plentiful, tasty, and well-balanced.

Total cost, including tuition, room, board and laboratory charges will be about \$82.00 for graduate students and \$77.00 for undergraduate students. Enrollment will be limited to fifty students.

#### The Intensive Teacher Training Program

The College, in cooperation with the State University, has planned a special program for graduates of Liberal Arts Colleges enabling them to gain the professional background and preparation necessary for permanent certification for teaching in the elementary schools and to qualify for the Master of Science degree.

Those beginning this program should enroll for the Workshop in Elementary Education, El.Ed. 500As. The hours extend from 8:00 A.M. to 3:00 P.M., with individual conferences in the afternoon. The students will be divided into seminar groups of 15 or 20 each, under

the guidance of an experienced elementary teacher. Provision is made for observation and participation in the Campus School from kindergarten through grade seven. Classroom management and instructional methods are emphasized.

Eight semester hours of graduate credit may be earned. Fees are charged according to regular rates. Those desiring to register should file an application with the Director of the Graduate Division.

Liberal Arts graduates who have previously registered and completed the Workshop will find a sequential offering among the Graduate courses.

#### Accelerated Program

The Elementary Education and Industrial Arts Divisions will offer the accelerated program to qualified students being graduated from high school in June, 1956.

The accelerated program is a regular four-year program leading to the Bachelor of Science degree and to teaching certification, completed in three calendar years.

No tuition is charged students approved for this program. The courses designed to meet the needs of accelerating students are shown in this catalog and are labeled eight-weeks courses.

Students interested in the program should confer with Dr. Allan P. Bradley, Director of the Elementary Education Division, or Dr. Kenneth W. Brown, Director of the Industrial Arts Division.

#### Campus School

A Campus School Program with children from kindergarten through grade six is an integral part of the Summer Session program. This type of school experience affords enrichment for the children who attend and provides an opportunity for Summer Session students to work with pupils under the supervision of master teachers.

Summer Session students may observe in the classrooms of the Campus School, where they can participate in children's activities.

#### Practicum in Mental Retardation

In the summer of 1956 the offerings of the Exceptional Children Education Division have been expanded to include a practice-teaching situation for those interested in mentally retarded children.

A group of children with mental retardation has been formed in the Campus School to give prospective teachers experience with the

latest materials and methods to be used in teaching such special groups. Dr. Horace Mann, Director of the Division, will be responsible for the practicum. He will be assisted by Burton Blatt of Pennsylvania State University.

#### Study Abroad

For the fourth year, the College is offering courses in Geneva, Switzerland. Aspects of international education can be studied under the experienced guidance of Dr. Emerson Neuthardt, who has conducted courses at the International School for many years.

These seminars offer a summer of resident study at the International School, Geneva, Switzerland, and provide professionally enriching visits to the following: 1. International Education Conference for the World at the Palace Wilson, Geneva; 2. School of Rousseau; 3. Pestalozzi School; 4. Public and private schools of Switzerland (including the Swiss outdoor education program in summer camps); 5. International Bureau of Education; 6. Educational Exhibits at the Palace Wilson; 7. Headquarters of the International Red Cross; 8. International Labor Office; 9. International Union of Child Welfare; 10. World Health Organization; 11. United Nations sessions; and 12. Voice of America broadcasts.

The courses permit American teachers to live in close contact with those of other nations and discuss the many common problems facing society. This seminar presents a speaker daily from each of the major international organizations and includes visits to each organization headquarters.

College credit at the rate of one semester hour for each week of residence may be earned. Further information may be obtained from Dr. Emerson Neuthardt at the College.

#### Art Camp

Two weeks of painting, sculpture and other art studies are provided at the Art Camp being held this summer from August 13 to 24. Students interested in graduate or undergraduate credit are admitted. A few non-credit students will be accepted by the instructor. Inquiries for the Art Camp should be addressed to Eugene L. G. Dakin at the College.

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## STATE UNIVERSITY OF NEW YORK

### LIBERAL ARTS COLLEGE

Harpur College at Endicott

### MEDICAL COLLEGES

Downstate Medical Center in New York City  
Upstate Medical Center in Syracuse

### TEACHERS COLLEGES

College for Teachers at Albany  
Teachers College at Brockport  
College for Teachers at Buffalo  
Teachers College at Cortland  
Teachers College at Fredonia  
Teachers College at Geneseo  
Teachers College at New Paltz  
Teachers College at Oneonta  
Teachers College at Oswego  
Teachers College at Plattsburgh  
Teachers College at Potsdam

### OTHER PROFESSIONAL COLLEGES

College of Forestry in Syracuse  
Maritime College at Fort Schuyler  
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 INSTITUTES

Agricultural and Technical Institute at Alfred  
Agricultural and Technical Institute at Canton  
Agricultural and Technical Institute at Cobleskill  
Agricultural and Technical Institute at Delhi  
Agricultural and Technical Institute at Farmingdale  
Agricultural and Technical Institute at Morrisville

### LOCALLY-SPONSORED TWO-YEAR COLLEGES

(Under the program of the State University of New York)

Auburn Community College at Auburn  
Broome County Technical Institute at Binghamton  
Erie County Technical Institute at Buffalo  
Fashion Institute of Technology at New York City  
Hudson Valley Technical Institute at Troy  
Jamestown Community College at Jamestown  
Mohawk Valley Technical Institute at Utica  
New York City Community College of Applied Arts and Sciences  
Orange County Community College at Middletown  
Staten Island Community College at Staten Island  
Westchester Community College at White Plains

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*BULLETIN*

**1957**

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