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State University of New York

COLLEGE FOR TEACHERS
at BUFFALO

BULLETIN

1957

Summer Session Catalog

1957 SUMMER SESSION CALENDAR

Regular Session

- July 1 (Monday)—Registration for six-weeks session in Gymnasium
Morning—Graduate Students register according to alphabetical listing as follows:
8:00- 9:00 A through E
9:00-10:00 F through L
10:00-11:00 M through R
11:00-12:00 S through Z
Afternoon—Undergraduate Students register according to alphabetical listing as follows:
1:00- 2:00 A through H
2:00- 3:00 I through P
3:00- 4:00 Q through Z
- July 1 (Monday)—Classes begin for eight-weeks session
July 2 (Tuesday)—Classes begin for six-weeks session
July 4 (Thursday)—Independence Day; classes not in session
July 6 (Saturday)—Classes in session
Last day for course changes and tuition refunds
- July 11 (Thursday)—9:30 A. M.—Convocation
August 1 (Thursday)—11:00 A. M.—Convocation
August 9 (Friday)—Six-weeks session ends
August 23 (Friday)—Eight-weeks session ends

Special and Post-Session Programs

- June 26 through August 23—Humanities in Europe
July 1 through August 9—Workshop in Community Resources at the University of Buffalo
July 1 through 19—Human Relations Workshop
July 10, 11, 12—Guidance Conference
July 15 through 26—Retired Teachers Workshop
August 11 through 24—Science Camp at Allegany State Park
August 12 through 23—Workshop in the Folk Arts
Workshop in Mathematics
Workshop in Methods and Materials in Social Studies

State University of New York
COLLEGE FOR TEACHERS

BUFFALO

BULLETIN

—♦—
Volume XXV
Number 3

1957 SUMMER SESSION
CATALOG ISSUE

Buffalo, New York
April, 1957

One of four publications issued four times yearly: March, April, August, and October by State University of New York College for Teachers, Buffalo 22, New York.

Entered as second class mail matter, November 3, 1932, at the Post Office of Buffalo, N. Y. under the Act of August 24, 1912. Acceptance for mailing at special rate authorized December 13, 1932.

STATE UNIVERSITY OF NEW YORK

The State University of New York was established by the State Legislature in 1948. It comprises thirty-eight colleges. Twenty-seven of them are state-operated and eleven are locally-sponsored community colleges. Although 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. Several of its colleges offer graduate programs.

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 college 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 relatively small colleges.

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

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 School 32

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OBJECTIVES OF THE COLLEGE

The State University of New York College for Teachers 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.

The College achieves its primary purpose, the education of teachers for the public schools of New York State, by observing the following objectives:

- a. To give the student a broad cultural background in the principal fields of organized knowledge.
- b. To give the student a mastery of the field to be taught and a supporting knowledge of related fields.
- c. To help the student understand the important position of the teacher in the relationship between education and society.
- d. To aid the student to develop a personality that will prepare him for leadership in the school and the community.
- e. To help the student acquire a knowledge of child growth and development.
- f. To help the student understand and master the professional knowledges and skills needed for successful teaching.
- g. To encourage the student to develop a guiding philosophy of education and of life.

LOCATION OF THE COLLEGE

Buffalo, the Queen City of the Lakes, is an ideal location for a summer school. The climate, tempered by westerly winds from Lake Erie, is usually cooler and more comfortable than that of any other Eastern city.

Buffalo is easily accessible by bus, train, air, or automobile; the College can be reached easily by bus or taxicab within the city. Across the street from the College are the Albright Art Gallery and the Buffalo Historical Museum, imposing works of architecture. Across Elmwood Avenue from the College is Delaware Park, a large municipal recreation center with a lake, golf course, bridle path, tennis courts and baseball diamonds. One of the finest concert halls in the world, the Kleinhans Music Hall, and a nationally famous symphony orchestra, the Buffalo Philharmonic, serve those who enjoy fine music. Several nearby summer theatres, operated by professional and semi-professional groups, produce plays throughout the summer.

ADMISSION AND REGISTRATION

Undergraduate

Admission to this College and to all other colleges of the State University of New York is based on the academic qualifications of the respective applicants, and is made without regard to the race, color, creed, or national origin of individuals.

The Summer Session is open to anyone qualified for teaching, and students attending the College for Teachers at Buffalo or any other accredited college.

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

An undergraduate who has not previously registered at this College should request permission from the Director of Admissions well in advance of registration.

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 1, 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 1957 Summer Session is as follows:

Tuition

Undergraduate residents.	\$15.00 a Semester hour credit
Undergraduate, out-of-state	\$15.00 a Semester hour credit
Graduate, all students.	\$15.00 a Semester hour credit
College Union Fee.	\$ 1.75 a credit hour, maximum \$10.00
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 \$1.75 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.

Critic (master) teachers who are entitled to reductions in fees should obtain statement of such waiver from their college supervisor and present it at the time of fee payment.

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.

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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.

All fees are payable on the day of registration.

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

Classes meet daily except Saturday.

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 \$6.50 a week; a few single rooms are available at \$9.00 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 and Regulations

The academic standards and regulations 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.

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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.

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 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. An acceptable academic and teaching record. An applicant must be able to present an undergraduate scholastic average of 2.3 or higher, an acceptable teaching record testified by a confidential statement from the administrator of the school wherein employed, and recommendations concerning academic and personal qualifications supplied by three persons in a position to make valid statements.

B. One of the following:

1. An approved Bachelor's Degree and eligibility to teach in the elementary school or in a field of specialization in New York State.

An *approved* Bachelor's Degree is one granted by a teachers college, liberal arts college, or university which is accredited by the American Association of Colleges for Teacher Education, an appropriate regional accrediting agency, a State Board of Education, or a State University.

2. An approved Bachelor's Degree and a desire to become certified to teach in New York State under the requirements of the Office of Teacher Certification.
3. An approved Bachelor's Degree and a teaching certificate from another state. Completion of the Master's Degree requirements does not guarantee New York State certification. Applicants interested in New York State certification should secure an evaluation of credit and a statement of prescribed work necessary from the Office of Teacher Certification, State Education Department, Albany 1, New York.

Admission Procedures

A. Complete the admission blank which is obtained from the Director of the Graduate Division.

B. Return blank before June 1, for registration in Summer Session, before September 1 for registration in first semester, and before January 1 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 student after he has completed a minimum of six hours. At the completion of twelve semester hours of graduate work he *must* apply for candidacy *or* file with the Director of the Graduate Division a statement that he does not intend to become a candidate for a degree. If subsequently he decides to file for candidacy, he must at that time have an evaluation made of all work completed for the purpose of formulating a program leading to the Master's degree.

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. Completion of thirty-two semester hour program of graduate courses.

A limited amount of transfer credits can be accepted for courses taken at another college:

1. If they are evaluated as being equal in scope and content to those offered by this college.
2. If they form a coherent part of the required program of study.
3. If they have been completed within seven years prior to registration at this college.

B. Completion of residence requirements. A course shall satisfy the requirements for residence if it is offered on the Campus, within the city of Buffalo, at a College Camp, or at a branch established by the College.

1. For graduates of this college—a minimum of twenty hours *in-residence* out of the total thirty-two.
2. For graduates of another college—a minimum of twenty-four credit hours *in-residence* out of the total thirty-two.

C. Completion of all course work within six years of registration in first course. Five summer sessions of six weeks each is regarded the usual period of attendance. However, this time may be shortened by registration in Evening and Saturday Extension Classes.

1. Students holding full-time teaching positions are limited to a maximum of four credits per semester or eight per academic year in Extension Classes. No credit will be given for work taken beyond this maximum at this college or elsewhere.
2. In summer session students are permitted to earn a maximum of two credits for a two-weeks program, six credits for a six-weeks program, and eight credits for an eight-weeks program.

Special Students

Students not intending to apply for admission to candidacy must receive permission to register for courses from the Director of the Graduate Division.

Registration Fees

Graduate Division fees are \$15.00 a credit hour.

GRADUATE CURRICULA

ART EDUCATION

Total requirements 32 Semester Hours

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 Sem. Hrs.
Art 550	Project	4 Sem. Hrs.
Art 525	Master's Thesis	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.)

ELECTIVES IN ARTS AND SCIENCES.....9-12 SEM. HRS.

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

EARLY SECONDARY EDUCATION

The College, responding to the growing demand for teachers in the seventh, eighth, and ninth grades, has developed a program which enables the holder of a Bachelor's degree earned before 1958 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.

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 must complete *thirty-two* semester hours of graduate work. Admission, candidacy, and Master's degree requirements will be found 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..... 30-32 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.

*30 semester hours for certification; 32 semester hours for the Master's degree.

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Elective Courses: (by advisement) within the area of specialization or other academic fields: 9-10 Sem. Hrs.
Professional Courses: 8-11 Sem. Hrs.
 Required courses: Ed. 532; (by advisement) Ed. 529, 536.
 Elective Courses: Ed. 506, 519, 523, 533, 537, 538, 541, 542.
 Research: Required of all students who are candidates for the Master's degree, (2-5 Sem. Hrs.). Each candidate, after conference with his adviser, may select *one* of the following requirements in research:
 Ed. 575 Research Methods and Techniques 2-3 Sem. Hrs.
 Ed. 550 Project 4 Sem. Hrs.
 Ed. 525 Master's Thesis 5 Sem. Hrs.

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 30-32 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: 8-11 Sem. Hrs.
 Required Courses: Ed. 532; (by advisement) Ed. 529, 536.
 Elective Courses: Ed. 506, 519, 523, 533, 537, 538, 541, 542.
 Research: Required of all students who are candidates for the Master's degree, (2-5 Sem. Hrs.). Each candidate, after conference with his adviser, may select *one* of the following requirements in research:
 Ed. 575 Research Methods and Techniques 2-3 Sem. Hrs.
 Ed. 550 Project 4 Sem. Hrs.
 Ed. 525 Master's Thesis 5 Sem. Hrs.

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.

* 30 semester hours for certification; 32 semester hours for the Master's degree

THE GRADUATE PROGRAM 30-32 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: 8-11 Sem. Hrs.
 Required Courses: Ed. 532; (by advisement) Ed. 529, 536.
 Elective Courses: Ed. 506, 519, 523, 533, 537, 538, 541, 542.
 Research: Required of all students who are candidates for the Master's degree, (2-5 Sem. Hrs.). Each candidate, after conference with his adviser, may select *one* of the following requirements in research:
 Ed. 575 Research Methods and Techniques 2-3 Sem. Hrs.
 Ed. 550 Project 4 Sem. Hrs.
 Ed. 525 Master's Thesis 5 Sem. Hrs.

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 30-32 SEM. HRS.*
Required Courses: (by advisement) within the area of specialization: 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

* 30 semester hours for certification; 32 semester hours for the Master's degree.

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Elective Courses: (by advisement) within the area of specialization or other academic fields..... 9-10 Sem. Hrs.

Professional Courses: 8-11 Sem. Hrs.

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

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

Research: Required of all students who are candidates for the Master's degree, (2-5 Sem. Hrs.). Each candidate, after conference with his adviser, may select *one* of the following requirements in research:

Ed. 575 Research Methods and Techniques..... 2-3 Sem. Hrs.

Ed. 550 Project 4 Sem. Hrs.

Ed. 525 Master's Thesis 5 Sem. Hrs.

ELEMENTARY EDUCATION

Total requirements 32 semester hours

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 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

Total requirements 32 semester hours

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.

or

El. Ed. 530 Principles of Supervision 3 Sem. Hrs.

El. Ed. 531 Supervision of Teaching..... 3 Sem. Hrs.

REQUIRED COURSES IN ARTS AND SCIENCES..... 8-10 SEM. HRS.

English and/or Social Studies 6 Sem. Hrs.

Academic 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.

EXCEPTIONAL CHILDREN EDUCATION MENTAL RETARDATION

Total requirements 32 semester hours

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.

REQUIRED COURSES IN ARTS AND SCIENCES..... 12 SEM. HRS.

English and/or Social Studies 6 Sem. Hrs.

Academic Electives 6 Sem. Hrs.

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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.
(Each candidate, after conference with his adviser, may select one of the above requirements.)	
UNRESTRICTED ELECTIVES	5-9 SEM. HRS.

**EXCEPTIONAL CHILDREN EDUCATION
ORTHOPEDIC HANDICAP**

Total requirements 32 semester hours

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.

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 Methods and Techniques ...	2-3 Sem. Hrs.
El. Ed. 550 Research Project	4 Sem. Hrs.
El. Ed. 525 Master's Thesis	6 Sem. Hrs.
(Each candidate, after conference with his adviser, may select one of the above requirements.)	

UNRESTRICTED ELECTIVES	5-9 SEM. HRS.
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**EXCEPTIONAL CHILDREN EDUCATION
SPEECH IMPAIRMENT**

Total requirements 32 semester hours

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.

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 Methods and Techniques ...	2-3 Sem. Hrs.
El. Ed. 550 Research Project	4 Sem. Hrs.
El. Ed. 525 Master's Thesis	6 Sem. Hrs.
(Each candidate, after conference with his adviser, may select one of the above requirements.)	

UNRESTRICTED ELECTIVES	5-9 SEM. HRS.
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**EXCEPTIONAL CHILDREN EDUCATION
VISUAL IMPAIRMENT**

Total requirements 32 semester hours

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 of Learning	2 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 Methods and Techniques....	2-3 Sem. Hrs.
El. Ed. 550 Research Project	4 Sem. Hrs.
El. Ed. 525 Master's Thesis	6 Sem. Hrs.
(Each candidate, after conference with his adviser, may select one of the above requirements.)	

UNRESTRICTED ELECTIVES	5-9 SEM. HRS.
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EXCEPTIONAL CHILDREN EDUCATION HEARING IMPAIRMENT

Total requirements 32 semester hours

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 Exceptional Problems of Learning.....	2 Sem. Hrs.
English and/or Social Studies.....	6 Sem. Hrs.
Academic 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.
(Each candidate, after conference with his adviser, may select one of the above requirements.)	
UNRESTRICTED ELECTIVES	5-9 SEM. HRS.

HOME ECONOMICS EDUCATION

Total requirements 32 semester hours

COURSES IN TECHNICAL AND RELATED FIELDS. 20-23 SEM. HRS.	
<i>Technical Courses:</i>	
Family Life (including Home Management, etc.)	2-6 Sem. Hrs.
Foods and Nutrition and/or Clothing and Textiles...	2-6 Sem. Hrs.
<i>Courses in Related Fields:</i>	
Seminar in Home Economics Ed. (required)	3 Sem. Hrs.
Workshop in Home Economics Ed.	3-6 Sem. Hrs.
or	
Electives (by advisement)	2-6 Sem. Hrs.
<i>Research:</i>	
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.)	

REQUIRED COURSES IN ARTS AND SCIENCES.....	9-12 SEM. HRS.
Social Studies	2 Sem. Hrs.
Science and/or Art	2-4 Sem. Hrs.
Unrestricted Elective	4-6 Sem. Hrs.

INDUSTRIAL ARTS EDUCATION

Total requirements 32 semester hours

COURSES IN TECHNICAL AND RELATED FIELDS. 20-23 SEM. HRS.	
<i>Technical Courses:</i>	
Specialization in Shop Laboratory.....	2-4 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.
<i>Courses in Related Fields:</i>	
Workshop in Industrial Art Education	2-4 Sem. Hrs.
Contemporary Labor Problems and Legislation.....	2-4 Sem. Hrs.
Occupational Activities for the Handicapped.....	2-6 Sem. Hrs.
Elective (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.)	

REQUIRED COURSES IN ARTS AND SCIENCES.....	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.

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

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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. The student in the Intensive Teacher Program is permitted to teach while fulfilling the requirements for elementary certification.

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.

Intermediate and Upper Grade Group

Workshop in Elementary Education (Summer Session only)	8 Sem. Hrs.
Seminar in Elementary School Problems.....	3 Sem. Hrs.
(Emphasis on Science, Mathematics and Language Arts)	
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.
	—
	30 Sem. Hrs.

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.....	3 Sem. Hrs.
(Emphasis on Language Arts, Science, Mathematics)	
Music and Art in Elementary Education.....	3 Sem. Hrs.
Workshop in Child Development (Summer Session only)	6 Sem. Hrs.
Electives	4 Sem. Hrs.
	—
	30 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 sophomore 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 Director of the Graduate Division.

Unless otherwise specified, courses meet daily for six weeks, from July 1 through August 9. 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.

ART EDUCATION

Undergraduate

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.

Jiskra 8:00-9:20

(additional time arranged)

ART 406s. CREATIVE ART WORKSHOP. Activities and art materials suitable for the elementary grades; individual experiment in various media; watercolor, powder paint, finger paint, tempera, inks, dyes, crayons, paper, cardboard, wood, cloth, soap, clay, plaster, rubber, plastics, wire, thin metals, yarn and other materials. Elective for all students except Art Education majors.

Credit: three semester hours.

Reinholtz 9:30-10:50

(additional time arranged)

ART 408s. PAINTING I. (See Art 507s.)

ART 483s. WORKSHOP IN THE FOLK ARTS. (See Art 514s.)

I.A. 103s. MECHANICAL DRAWING. (See I.A. 103s under Industrial Arts.)

Graduate

ART 505s. SEMINAR IN ART EDUCATION. Problems and projects in teaching and supervising art in various types of communities and schools; contemporary philosophy, psychology, principles, and practices in art and general education; research and scientific methods in determining programs, policies, and procedures for the art teacher and supervisor. Required of all Art Education majors. Prerequisite: one or more years of teaching.

Credit: three semester hours. Reinholz 11:00-12:20

ART 507s. GRADUATE STUDIO IN DRAWING, PAINTING. Individual activities with a variety of drawing and painting media determined for each individual according to his background and needs; studio and outdoor problems, field and gallery trips.

Credit: two or three semester hours. Busa 11:00-12:20
(additional time arranged)

ART 508s. GRADUATE STUDIO IN DESIGN AND SPATIAL ORGANIZATION. Individualized designing with paint and materials; specialization may be in home planning and furnishing, costume, textile, stage, commercial or industrial design.

Credit: two or three semester hours. Dakin 8:00-9:20
(additional time arranged)

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

Credit: two or three semester hours. Jiskra 9:30-10:50
(additional time arranged)

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.

Credit: three semester hours. Squeri 9:30-10:50

ART 513s. GRADUATE STUDIO IN GRAPHIC ARTS. Individualized work in lithography, wood engraving, etching, serigraphy, dry paint, engraving.

Credit: two or three semester hours. O'Connell 12:30-1:50
(additional time arranged)

ART 514s. WORKSHOP IN THE FOLK ARTS. Folk arts of music, dance, drama, arts and crafts, and folk lore of other countries; their relationship to history and geography of the countries, and their relationship to the American culture. Resource materials and organization of folk art studies in elementary and secondary schools, and in community activities.

Credit: two semester hours. August 12-23

EDUCATION

Undergraduate

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.

Credit: three semester hours. Edmund 12:30-1:50

ELE.D. 308Cs. SEMINAR IN EARLY CHILDHOOD EDUCATION. (See ELE.D. 515s.)

ELE.D. 402s. SEMINAR IN ELEMENTARY SCHOOL TEACHING. Philosophic needs in elementary school teaching; teaching problems; research methods in solving educational problems. Required of all Elementary Education seniors.

Credit: three semester hours. Sloan 12:30-1:50

ED. 465s. 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.

Credit: two semester hours. Truesdale 9:30-10:20

ELE.D. 486s. METHODS AND MATERIALS IN THE ELEMENTARY SCHOOL. (See ELE.D. 516s.)

ELE.D. 487s. TEACHING THE LANGUAGE ARTS IN THE ELEMENTARY SCHOOL. (See ELE.D. 517s.)

ED. 488s. HUMAN RELATIONS WORKSHOP. (See Ed. 528s.)

Graduate

ELE.D. 500s. WORKSHOP IN ELEMENTARY EDUCATION. Problems encountered in the elementary schools, selected by members of workshop, general seminar technique, observation in the Campus School. Required of Elementary Education candidates for Master of Science degree. Enrollment limited.

Credit: six semester hours. Crayton, et al. 8:30-3:30

ELE.D. 500As. WORKSHOP IN ELEMENTARY EDUCATION. (For Intensive Teacher Training Program students only.) Child development; elementary school methods and materials; preparation of an individual report; experience with children in the Campus School. Required of students in the Intensive Teacher Training Program.

Credit: eight semester hours. Gover et al. 8:00-4:00

EL.ED. 501s. SEMINAR IN ELEMENTARY EDUCATION. Research in elementary education; study of specific problems by individual students in their field of teaching. Required of Elementary Education candidates for the Master of Science degree.
Credit: three semester hours. Sloan 9:30-10:50

EL.ED. 503s. ORGANIZATION OF THE ELEMENTARY SCHOOL. Major concepts in Elementary Education; administration of the elementary school; the curriculum; grouping of pupils; the school plant; trends in school building design; co-curricular activities; pupil safety measures. Open to experienced teachers, principals, and supervisors.
Credit: three semester hours. Milanovich 8:00-9:20

EL.ED. 512s. SEMINAR IN CHILD DEVELOPMENT. Growth and development of elementary school children; guiding child growth in the mental, social, physical and emotional areas; individual and group work on specialized problems; field trips; observations in classrooms. Required of all students in the Intensive Teacher Training Program.
Credit: six semester hours. Carroll 8:00-12:00

EL.ED. 515s. SEMINAR IN EARLY CHILDHOOD EDUCATION. Curriculum development for children from three to eight; current problems and research; instructional materials and procedures; equipment; school, home, and community relationships; evaluating children's progress: "action research" on individual school problems. Open to graduate students and undergraduate experienced teachers.
Credit: three semester hours. Jamison 9:30-10:50

EL.ED. 516s. METHODS AND MATERIALS IN THE ELEMENTARY SCHOOL. School curriculum in language arts, social studies, numbers, science; evaluation procedures. Open to graduate students and undergraduate experienced teachers.
Credit: three semester hours. Hemink 8:00-9:20

EL.ED. 517s. TEACHING THE LANGUAGE ARTS IN THE ELEMENTARY SCHOOL. Recent research in spelling, written communication, oral communication, reading, creative writing, listening skills; implications for creating learning experiences for children; developing a language arts program. Open to graduate students and undergraduate experienced teachers.
Credit: three semester hours. Eddins 11:00-12:20

ED. 528s. HUMAN RELATIONS WORKSHOP. Inter-group problems relating to race, religion, or national origin; slow and rapid learners; old and new residents; "fringers" and participants; competitive practices in school; dividing and integrating factors affecting learning. Open to graduate and advanced undergraduate students. Enrollment limited.
Credit: three semester hours. Burrell July 1-19

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.
Credit: three semester hours. Milanovich 11:00-12:20

ED. 532s. EARLY SECONDARY EDUCATION. Origin and functions of early secondary education; curriculum patterns; guidance and exploratory programs; articulation between elementary school and senior high school; extra-curricular activities; evaluation in the early secondary school; research methods in solving problems listed above and others suggested by students. Required of all students preparing for early secondary school teaching. Prerequisite: baccalaureate degree.
Credit: three semester hours. Moss 8:00-9:20

ED. 533s. WORKSHOP IN AUDIO-VISUAL EDUCATION. Basic audio-visual teaching methods; knowledges and skills in use of equipment; films, filmstrips, slides, and other materials; sources of material and equipment; audio-visual programs in the school; film libraries; ordering of materials; budgets and administration; evaluation of the program.
Credit: three semester hours. Truesdale 11:00-12:20

ED. 542s. SEMINAR IN THE EARLY SECONDARY SCHOOL CURRICULUM. Curricular and extra-curricular programs related to social, economic, and community changes; relationship of principles and procedures of curriculum development to educational objectives; relationship of extra-curricular activities to curriculum areas; adaption of the curriculum to adolescent abilities, needs, and interests; various patterns of curriculum development; financing, organizing, scheduling, and supervising extra-curricular activities; bases for determining extent and type of student participation in school management.
Credit: three semester hours. Moss 9:30-10:50

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 the teaching of reading; developmental levels of reading in the content areas; methods and materials; evaluation and guidance of pupil growth in reading.
Credit: three semester hours. Eddins 12:00-1:50

ED. 549s. WORKSHOP IN COMMUNITY RESOURCES. In this workshop, experienced elementary and secondary school personnel will focus their attention on becoming acquainted with and planning to utilize the potential teaching resources of the community. Members may wish to investigate such resources as educational, cultural, economic, and governmental institutions and what these may offer to a teaching situation. It is contemplated that visits to important resource sites and lectures by outstanding community leaders be included. The specific organization of the workshop will revolve around the expressed needs and interests of the members.
Credit: six semester hours. Sexton, Kean, Plesur, Penetar

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ED. 575s. RESEARCH TECHNIQUES. Various research techniques; collecting, classifying, evaluating data. Required of all candidates for Master of Science degree not writing a thesis, or completing a project.
Credit: three semester hours.

Section A Hertzberg 9:30-10:50
Section B Hertzberg 12:30-1:50

ENGLISH

Undergraduate

ENG. 304s. AMERICAN LITERATURE. Major writers and literary movements of the United States from the Colonial Period to recent times. Required of Elementary Education and Industrial Arts juniors.
Credit: three semester hours.

Fried 8:00-9:20

ENG. 349s. 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.
Credit: two semester hours.

Smith 11:00-11:50

ENG. 402s. CONTEMPORARY LITERATURE. British and American literature of the twentieth century; poetry, the novel, the drama.
Credit: three semester hours.

Cochnower 9:30-10:50

ENG. 466s. HUMANITIES IN EUROPE. (See Eng. 516s.)

Graduate

ENG. 501s. THE MODERN AMERICAN NOVEL. Outstanding American twentieth century novels; their social and artistic significance.
Credit: three semester hours.

Fried 9:30-10:50

ENG. 504s. ORIGIN AND DEVELOPMENT OF ENGLISH DRAMA. Liturgical beginnings of English Drama—miracle and morality plays, interludes; rise of English comedy and tragedy; forerunners and contemporaries of Shakespeare, progress of drama to 1642.
Credit: three semester hours.

Bradford 8:00-9:20

ENG. 511As. STUDIES IN THE POETRY OF THE VICTORIAN PERIOD. Major Victorian poets, with emphasis on Tennyson and Browning; social, political, and intellectual background of the times.
Credit: three semester hours.

Bradford 11:00-12:20

ENG. 516s. HUMANITIES IN EUROPE. Offered in connection with State University foreign study program, "Humanities in Europe". (See Special Features for detailed description.)
Credit: six or eight semester hours

Gronewold June 26-August 23

EXCEPTIONAL CHILDREN EDUCATION

Graduate

EX.ED. 520s. SPEECH CORRECTION FOR ELEMENTARY SCHOOL TEACHERS. Types and causes of speech defects and disorders found in elementary school children; methods of treatment of minor disorders by the classroom teacher; some phonetics and speech science; observation of children presenting various speech problems.
Credit: three semester hours.

Dickson 9:30-10:50

EX.ED. 524s. INTRODUCTION TO AUDIOLOGY. The clinical treatment of hearing problems designed particularly to assist the speech correctionist. Hearing testing, hearing aid construction, and research in the field of audiology.
Credit: three semester hours.

Dickson 11:00-12:20

EX.ED. 561s. OCCUPATIONAL EDUCATION FOR CHILDREN WITH MENTAL RETARDATION. Curriculum development, based upon a philosophy of occupational education and curricular cores, designed for special class teachers and administrators of classes of children with mental retardation and for teachers of regular classes who must provide adjustments for slow learning children.
Credit: three semester hours.

Mann 8:00-9:20

EX.ED. 591s. NATURE AND NEEDS OF CHILDREN WHO PRESENT EXCEPTIONAL PROBLEMS OF LEARNING. Study of the nature and needs of children with mental retardation; examination of the causes and implications of mental deficiency as they affect the home, school and community adjustment of the retarded.
Credit: three semester hours.

Bloustein 9:30-10:50

GEOGRAPHY

Undergraduate

GEOG. 301s. GENERAL GEOGRAPHY I. First half of world geography: the low latitudes, the high latitudes, the arid and semi-arid regions of intermediate latitudes; physical environment, cultural and economic geography of each area; interpretation of maps.
Credit: three semester hours.

Redden 9:30-10:50

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

Alexander 8:00-9:20

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HEALTH EDUCATION

Undergraduate

H.ED. 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. Wegner 12:30-1:20

H.ED. 402s. HEALTH PROTECTION. School and community health problems; school health service; communicable disease control; water supply and sewage disposal; food sanitation; safety education. Required of Elementary Education seniors.
Credit: two semester hours Wegner 2:00-2:50

HOME ECONOMICS

Graduate

H.EC. 501s. WORKSHOP IN HOME ECONOMICS EDUCATION. Problems in teaching of Home Economics based upon individual needs and interests of workshop participants. Individual conferences; group discussion; joint activities.
Credit: three semester hours. Barkley 8:00-9:20

H.EC. 504s. PROBLEMS IN FOODS AND NUTRITION. Recent research developments in foods and nutrition; problems in teaching foods and nutrition to elementary and high school groups; problems related to the individual's teaching situation.
Credit: three semester hours. Buddenhagen 9:30-10:50

INDUSTRIAL ARTS

Undergraduate

I.A. 103s. MECHANICAL DRAWING. Sketching; working, schematic and pictorial drawings; sections, auxiliaries, developments, and cams. Required of Industrial Arts freshmen.
Credit: three semester hours. Hubler 8:00-9:20

I.A. 507s. SCHOOL SHOP PLANNING. Problems involved in planning new industrial arts shops or the remodeling of older shops; space allotments, area planning, service features, selection and placement of equipment, writing specifications, shop plans.
Credit: three semester hours. Harlan 8:00-9:20

I.A. 524s. EVALUATION IN INDUSTRIAL ARTS. General principles of evaluation; construction and use of various informal devices and techniques of evaluation; observation, rating scales, anecdotal records, personnel systems, and the industrial arts project; interpreting, recording and using the results of evaluation for the improvement of instruction.
Credit: three semester hours. Harlan 9:30-10:50

MATHEMATICS

Undergraduate

MATH. 411s. WORKSHOP IN MATHEMATICS. (See Math. 501s.)

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 readings; individual research and project.
Credit: three semester hours. Cherkauer 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. August 12-23

MUSIC

Undergraduate

MUS. 304s. 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. Elective for sophomores, juniors, and seniors.
Credit: two semester hours. Tallmadge 8:00-8:50

Graduate

MUS. 500s. MUSIC IN EDUCATION. Public school music education; contributions of various composers to public school music and to general culture; required attendance at concerts; observation in the Campus School.
Credit: three semester hours. Tallmadge 9:30-10:50

SCIENCE

Undergraduate

SCI. 303-304s. INORGANIC CHEMISTRY. Laws governing the composition of matter; changes in composition; structure of the atom; energy relationships in chemical changes. Elective for Elementary Education sophomores, juniors, and seniors. Required for junior high school science teaching certification. Prerequisite: Sci. 101 or its equivalent.
Credit: six semester hours. *Sheel 8:00-12:00*

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

SCI. 313s. DESCRIPTIVE ASTRONOMY. The solar system, Milk Way Galaxy, and other celestial systems and objects. Observation of stars and planets; use of simple instruments; field trips; selected teaching aids.
Credit: three semester hours. *Harman 11:00-12:20*

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

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

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.
Credit: three semester hours. *Harman 8:00-9:20*

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
Credit: three semester hours. *Laug 9:30-10:50*

SCI. 504s. REGIONAL STUDY IN SCIENCE. Field work at Allegany State Park; out-of-doors science for the 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 and undergraduate students.
Credit: two semester hours. *Urban et al. August 11-24*

SCI. 518s. HUMAN BIOLOGY. Origin and development of the human species; human anatomy and physiology; reproduction, embryology, and life cycle; genetics of man; conservation of human resources; new problems in human biology. Required of all candidates for extension of certification to include the teaching of science in the early secondary school.
Credit: three semester hours. *Laug 11:00-12:20*

SOCIAL STUDIES

Undergraduate

S.S. 304s. AMERICAN HISTORY TO 1789. Early American history from the discovery and settlement of the New World to the formation of the Constitution; European influences; growth and development of the English Colonies; the Revolution; establishment of the new nation.
Credit: two semester hours. *R. Brown 12:30-1:20*

S.S. 402s. SOCIOLOGY. Rise and development of culture; cultural change; social organization and social institutions. Required of Elementary Education seniors.
Credit: three semester hours. *Weaver 11:00-12:20*

S.S. 408s. TWENTIETH CENTURY EUROPEAN DIPLOMACY. Causes and diplomatic problems of World Wars I and II; intervening diplomatic history; Paris Peace Conference of 1919; present world diplomatic situation.
Credit: three semester hours. *Mason 9:30-10:50*

S.S. 440s. WORKSHOP IN METHODS AND MATERIALS IN SOCIAL STUDIES IN THE ELEMENTARY SCHOOL. (See S.S. 520s.)

Graduate

S.S. 516s. INTERNATIONAL RELATIONS AND THE WORLD TODAY. "The community of nations": self-determination; international organization; international law; world government; human rights; mutual security; foreign policy; military power; world trade; social problems; economic assistance; communications; the role of social science; the United States in relationship to other nations and to international organization; dangers and responsibilities attendant to power and relationship.
Credit: three semester hours. *Mason 8:00-9:20*

S.S. 519s. CASE STUDIES IN LOCAL GOVERNMENT AND POLITICS. Structure and practice; revenues and expenditures; public housing, health, and welfare; planning and zoning; educational-political relationships; topics selected in accordance with student needs and interests. Open to qualified seniors with consent of instructor.
Credit: three semester hours. *R. Brown 11:00-12:20*

S.S. 520s. WORKSHOP IN METHODS AND MATERIALS IN SOCIAL STUDIES IN THE ELEMENTARY SCHOOL. 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 12-23*

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S.S. 521s. CONTEMPORARY 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 needs and interests. Open to qualified seniors with consent of instructor.

Credit: three semester hours.

Weaver 9:30-10:50

SPECIAL FEATURES

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

Humanities in Europe

The State University of New York, in cooperation with the Experiment in International Living, will offer in the summer of 1957 a foreign study program for teachers and students training to be teachers. Director of the program is Dr. Benjamin F. Gronewold, Professor of English, and director of Buffalo State's European Studytour, 1951-1954.

The primary goals of this program are:

1. To develop international understanding at the personal level through a family-living experience in another culture.
2. To improve the participant's academic mastery of a subject such as art, music, political science or the humanities.
3. To provide the classroom teacher with a variety of experiences in other cultures which can be translated into more effective teaching.

The program begins when the group sails on the *S.S. Columbia* from Quebec on June 26 and ends when the group returns from Paris late in August. England, Holland, Germany, Italy, Switzerland, and France are the countries to be visited. Two weeks will be set aside for the experience of living as a member of an English-speaking family in Berlin. During these weeks the participants will have an opportunity to know the foreign culture in a situation which minimizes the usual language barriers.

Excursions will be made to major historic, artistic, and scenic landmarks and the groups will be taken to a variety of musical and theatrical performances. Considerable free time will be set aside for individual students to pursue their own interests in an effort to derive maximum benefit from the opportunities to study other cultures.

Each registrant will carry on general and special projects. Reports of these projects will be made before October 15.

For details of the program write Dr. Benjamin Gronewold.

Workshop in Community Resources

The Workshop in Community Resources for elementary and secondary school personnel sponsored by local business and industry in cooperation with Canisius College, the University of Buffalo, and the State University of New York College for Teachers at Buffalo, offers for the second year an unusual opportunity for selected school personnel to explore the rich educational resources of the area. Financial support for this project is being furnished once again by local business and industry as a contribution to better civic understanding. Full tuition scholarships are available to members of the workshop. Application may be made through the Director of Summer Session.

This community resources workshop is one in which educators will acquaint themselves with available teaching resources in the community and determine how these resources can be utilized more efficiently in their teaching. It may also include the production of teaching units, resource files, or other materials which implement effective use of community resources in teaching.

Community resources include any persons, places, organizations, activities, or things in the community having educational value. Activities of the workshop will include group planning and discussion, individual research, off-campus visits, guest speakers, and project-reports. Participants choose the problems to be investigated. Consultants and advisers will be available to assist members in pursuing programs of their own choosing.

Sessions will be held each day from 9:00 A.M. to 3:00 P.M., July 1 to August 9. Six hours graduate credit will be granted by the institution of the candidate's choice. In 1957 the workshop headquarters will be on the campus of the University of Buffalo.

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 12 to 23. 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 Czurlies at the College.

Guidance Conference

The Second Annual Guidance Conference will be held at the College on July 10, 11, and 12 with Professor Louis Rath of New York University as visiting specialist. The theme of the 1957 Conference will be "Social and Emotional Development of Children and Youth."

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 three-day meeting will stimulate greater interest in this growing subject and will suggest some procedures for solving the many problems of the guidance counselor.

The Conference is open to those persons who would find it professionally helpful. Further information may be obtained from Dr. Gordon J. Klopf, Dean of Students.

Extra-Class Activities

During the summer there will be offered suitable opportunities for recreation, entertainment, and intellectual stimulation. Two 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 partici-

tion 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.

Science Camp

The Seventh Science Camp, sponsored by the Science Department, will be held at Allegany State Park during the two weeks immediately following Summer Session, August 11 to 22, 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 \$83.00. 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 4:00 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 six. 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.

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.

Retired Teachers

The Third Annual Workshop for Retired Teachers will be conducted on the campus from July 15 through July 26. Thirty or more senior teachers are expected to renew their professional interests with lectures, round-table discussions and instruction in various crafts.

Charges are made only for food and lodging at the usual rate.

The workshop is sponsored by the New York State Retired Teachers Association and is under the direction of M. Smith Thomas.

Human Relations Workshop

A Human Relations Workshop has been arranged for the three weeks from July 1 through July 19 in cooperation with the National Conference of Christians and Jews and other interested groups. This workshop permits elementary and secondary school personnel, as well as interested community members, to use the facilities of the College and selected community agencies in solving problems of an intergroup nature.

The emphasis in the workshop will be on studying and developing integrative techniques which can be translated into projects of an on-going nature when participants return to their schools and other positions. Members of the workshop will explore the tensions within a school or community and study methods of eliminating them.

Additional information may be obtained from Dr. Anna P. Burtgell, Professor of Education.

Post-Session Courses

The College will conduct its usual program of short courses during the post-session period, from August 12 through 23. In addition to the Science Camp and Workshop in the Folk Arts, there will be given concentrated courses in the teaching of mathematics, and the teaching of social studies. Two credits, graduate or undergraduate may be earned in any one of these courses. Detailed descriptions may be found under the academic department concerned.

Eight-Weeks (Accelerated) Program

A summer program restricted to accelerated undergraduates will last from July 1 through August 23. Regularly-enrolled degree candidates are assigned to these classes by the director of the two College divisions, Elementary Education and Industrial Arts, which have established a sequence of courses that enable some students to complete their college requirements in less than four years. Registration for these courses is completed before the opening of the Summer Session; classes meet on Monday, July 1.

All other undergraduates should register in the six-weeks program. A few "non-accelerated" students may be admitted to the eight-weeks courses if their needs can not be met in the shorter session. Such students must have written permission from the Summer Session Office.

The following courses will be offered in 1957; descriptions of them can be found in the College's General Catalog, 1957-58.

Education 402	(Seminar in Elementary School Teaching)
English 204	(English Literature)
English 304	(American Literature)
General Education 101	(Man and His Institutions)
General Education 105	(Effective Communication)
Geography 301	(General Geography I)
Geography 402	(General Geography II)

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- Physical Education 301 (Physical Education)
- Health Education 402 (Health Protection)
- Industrial Arts 101 (Electricity)
- Industrial Arts 102 (Woodwork)
- Industrial Arts 202 (Metalwork)
- Industrial Arts 301 (Graphic Arts)
- Industrial Arts 302 (General Shop)
- Industrial Arts 303 (Industrial Arts for the Elementary Schools)
- Industrial Arts 311 (Principles and Practices of Industrial Arts)
- Industrial Arts 312 (Principles and Practices of Industrial Arts)
- Industrial Arts 406 (Ceramics)
- Industrial Arts 407 (Textiles)
- Music 101 (Essentials of Music)
- Science 201 (Biology)
- Social Studies 201 (Contemporary Civilization)
- Social Studies 302 (American Civilization and Government)
- Social Studies 402 (Sociology)

APPLICATION FOR PERMIT TO REGISTER (FOR NEW STUDENTS)

Any student who intends to register for courses and who *has not* previously attended this College must submit this form in order to receive a Permit to Register. Mail the form *promptly* to the Director of Admissions, State University College for Teachers at Buffalo, 1300 Elmwood Avenue, Buffalo 22, N. Y.

Name

Address

Telephone

FOR GRADUATE STUDENTS

College degree held (if any)

Institution and date

Purpose in taking graduate work at this college

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FOR UNDERGRADUATE STUDENTS

College you now attend

Purpose in taking undergraduate work at this 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 Community College 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

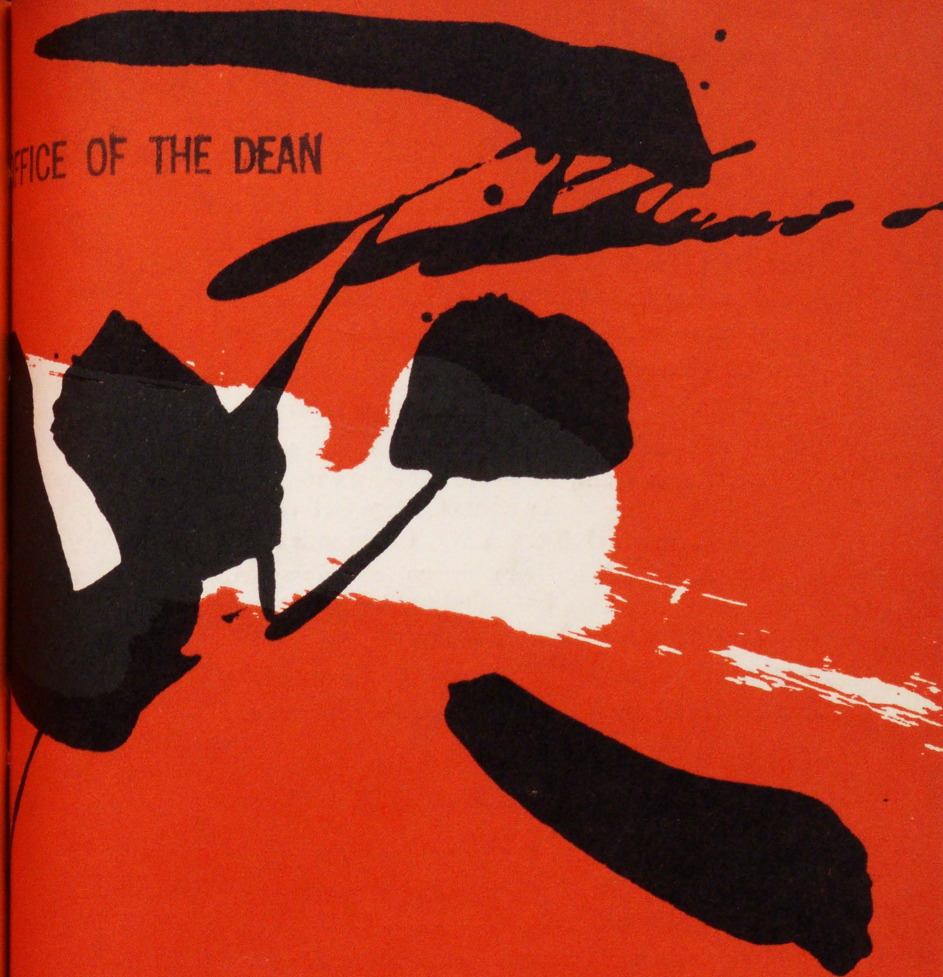
Orange County Community College at Middletown

Staten Island Community College at Staten Island

Westchester Community College at White Plains

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