

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

Digital Commons at Buffalo State

Academic Catalogs, 1871-2018

Buffalo State Archives: History of the Institution

1957

College Catalog, 1957-1958, Extension

Buffalo State College

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



Part of the [History Commons](#)

Recommended Citation

"College Catalog, 1957-1958, Extension." Academic Catalogs, 1871-2018. Archives & Special Collections Department, E. H. Butler Library, SUNY Buffalo State.

<https://digitalcommons.buffalostate.edu/buffstatecatalogs/120>

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



State University of New York

COLLEGE FOR TEACHERS
at BUFFALO

BULLETIN

1957-1958

Extension Graduate Catalog

BUFFALO LIBRARY
STATE UNIVERSITY
OF NEW YORK

4.

COLLEGE FOR TEACHERS
AT BUFFALO

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."

STATE UNIVERSITY OF NEW YORK

COLLEGE FOR TEACHERS AT BUFFALO

BULLETIN

August 1957

EXTENSION—GRADUATE CATALOG
1957-1958

GRADUATE DIVISION
and
UNDERGRADUATE CLASSES

STATE UNIVERSITY COLLEGE FOR TEACHERS BULLETIN
VOLUME XXV NUMBER 4

One of Four Publications Issued Four Times Yearly: March, April, August, and October by State University College for Teachers, Buffalo 22, N. Y.

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.

TABLE OF CONTENTS

| | <i>Page</i> |
|---|-------------|
| STATE UNIVERSITY OF NEW YORK..... | 4 |
| Board of Trustees..... | 4 |
| Central Administrative Staff..... | 4 |
| THE COLLEGE..... | 5 |
| Local Council..... | 5 |
| Officers of Administration..... | 5 |
| THE EXTENSION DIVISION..... | 6 |
| Administrative Staff..... | 6 |
| Calendar 1957-58..... | 6 |
| Registration Fees..... | 7 |
| General Information..... | 7 |
| Registration Procedures..... | 9 |
| THE GRADUATE DIVISION—EXTENSION SESSION 1957-1958 | |
| Graduate Curricula..... | 10 |
| Admission Requirements..... | 10 |
| Admission Procedures..... | 11 |
| Admission to Candidacy..... | 11 |
| Requirements for Master of Science Degree..... | 12 |
| Special Students..... | 12 |
| Registration Fees..... | 12 |
| GRADUATE CURRICULA..... | 13 |
| Art Education..... | 13 |
| Early Secondary Education..... | 13 |
| The Teaching of English..... | 14 |
| The Teaching of Mathematics..... | 15 |
| The Teaching of Science..... | 16 |
| The Teaching of Social Studies..... | 16 |
| Elementary Education..... | 17 |
| Elementary Principalship and/or Supervision..... | 18 |
| Exceptional Children Education..... | 18 |

| | <i>Page</i> |
|--|-------------|
| Home Economics Education..... | 21 |
| Industrial Arts Education..... | 22 |
| Intensive Teacher Training Program..... | 23 |
| EXTENSION DIVISION SCHEDULE..... | 24 |
| Graduate Division Classes 1957-1958..... | 24 |
| First Semester..... | 24 |
| Second Semester..... | 25 |
| Proposed Graduate Division Classes 1958-1959..... | 26 |
| First Semester..... | 26 |
| Second Semester..... | 27 |
| Undergraduate Course Offerings 1957-1958..... | 28 |
| First Semester..... | 28 |
| Second Semester..... | 29 |
| Proposed Undergraduate Course Offerings 1958-1959..... | 29 |
| First Semester..... | 29 |
| Second Semester..... | 29 |
| COURSE DESCRIPTIONS..... | 30 |
| Graduate Courses..... | 30 |
| Art Education..... | 30 |
| Education..... | 31 |
| Elementary Education..... | 32 |
| English..... | 33 |
| Exceptional Children Education..... | 35 |
| Geography..... | 36 |
| Home Economics..... | 36 |
| Industrial Arts..... | 36 |
| Mathematics..... | 38 |
| Science..... | 38 |
| Social Studies..... | 38 |
| Undergraduate Courses..... | 40 |
| Art Education..... | 40 |
| English..... | 41 |
| Geography..... | 42 |
| Science..... | 42 |
| Social Studies..... | 42 |
| OFF-CAMPUS EXTENSION..... | 44 |

STATE UNIVERSITY OF NEW YORK

BOARD OF TRUSTEES

FRANK C. MOORE, LL.B., L.H.D., LL.D., *Chairman*.....Buffalo
 MRS. JOHN A. WARNER, *Vice-Chairman*.....New York City
 ALGER B. CHAPMAN, A.B., LL.B.....Pawling
 MRS. BETTY HAWLEY DONNELLY.....New York City
 WALTER D. FLETCHER, A.B., M.A., LL.B.....Glen Head
 CHARLES GARSIDE, B.S., LL.B., L.H.D., LL.D.....New York City
 NORMAN S. GOETZ, A.B., LL.B.....New York City
 BOYD E. GOLDER.....Utica
 FREDERICK F. GREENMAN, A.B., LL.B.....New York City
 SAMUEL HAUSMAN.....Great Neck
 KEITH S. MCHUGH, B.S., LL.D., Eng.D.....New York City
 PETER MARSHALL MURRAY, A.B., M.D., D.Sc.....New York City
 JOSEPH J. MYLER, B.A., M.A.....Rochester
 DON J. WICKHAM, B.S.....Hector

*Secretary of the University and Assistant to the Chairman
 of the Board of Trustees*....JOHN H. SLOCUM, A.B., M.A., Ph.D.
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.

THE COLLEGE

LOCAL COUNCIL

| | Term Expires |
|--------------------------------------|-----------------|
| REID S. MOULE, <i>Chairman</i> | 1960 |
| JOSEPH L. FINK..... | 1961 |
| MRS. JAMES C. LYTLE..... | 1965 |
| HAMILTON B. MIZER..... | 1958 |
| PHILIP W. PATTI..... | 1964 |
| MRS. JAMES H. RIGHTER..... | 1963 |
| MRS. JEAN B. ROGERS..... | 1959 |
| STANLEY P. TURKIEWICZ..... | 1957 |
| MRS. HERBERT J. VOGELSANG..... | 1962 |

OFFICERS OF ADMINISTRATION

HARVEY M. RICE, A.B., M.A., Ph.D.....*President*
 RALPH HORN, A.B., M.A., Ph.D.....*Dean*
 STANLEY A. CZURLES, B.F.A., M.F.A., Ph.D.
Director of Art Education
 ROBERT W. MACVITTIE, B.E., M.A., Ed.D.
Director of Elementary Education
 HORACE MANN, A.B., A.M., Ph.D.
Director of Exceptional Children Education
 WILLIAM D. BAKER, B.A., M.A., Ph.D...*Director of General Education*
 ROBERT E. ALBRIGHT, A.B., M.A., Ph.D.
Director of Graduate and Extension Education
 MARGARET A. GRANT, B.S., M.S., Ed.D.
Director of Home Economics Education
 KENNETH W. BROWN, B.S., M.S., Ph.D.
Director of Industrial Arts Education
 WALTER B. GREENWOOD, A.B., M.A., Ph.D.
Director of Summer Session
 GORDON J. KLOPF, B.S., Ph.M., Ph.D.....*Dean of Students*
 CHARLES P. LA MORTE, B.A., M.A., Ed.D...*Assistant to the President*
 RUTH SUGARMAN, B.S., M.A., Ed.D.....*Principal of Campus School*
 NICHOLAS J. CARRIERO, B.S.....*Registrar*
 MORTON R. LANE, B.S.....*Senior Financial Secretary*

EXTENSION DIVISION

ADMINISTRATIVE STAFF

HARVEY M. RICE, Ph.D.....*President*
RALPH HORN, Ph.D.....*Dean of the College*
ROBERT E. ALBRIGHT, Ph.D.....*Director of Extension,*
Director of Graduate Division
FRANCES G. HEPINSTALL, M.S.....*Librarian*
NICHOLAS J. CARRIERO, B.S.....*Registrar*
MORTON R. LANE, B.S.....*Senior Financial Secretary*

ON-CAMPUS EXTENSION CLASSES

Saturday—Tuesday—Wednesday

CALENDAR 1957-58

First Semester:

Saturday, September 14—Registration for all classes (Saturday—
Tuesday—Wednesday).
Saturday, September 21—Last day for registration and payment
of fees.
Saturday, November 30—Thanksgiving recess.
Saturday, December 28—through Saturday, January 4, Christmas
recess.
Saturday, January 11—Classes resume.
Saturday, January 18—Final examinations.

Second Semester:

Saturday, February 1—Registration for all classes (Saturday—
Tuesday—Wednesday).
Saturday, February 8—Last day for registration and payment of
fees.
Saturday, April 5—through Saturday, April 12, Easter recess.
Saturday, April 19—Classes resume.
Saturday, May 24—Final examinations.

Commencement:

Sunday, June 8—Commencement.

REGISTRATION FEES

ON-CAMPUS AND OFF-CAMPUS COURSES

All Undergraduate and Graduate Extension fees \$15.00 per credit hour. Fees for both On-Campus and Off-Campus courses are payable at registration. No refunds made unless course is discontinued.

Faculty members have been instructed to require receipt for payment of fees or veterans authorization slip and class enrollment card from students before completing class registration. No student will be admitted after the second class session until these conditions are fulfilled.

GENERAL INFORMATION

1. 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.
2. Teachers in service and properly qualified undergraduates will be admitted to Extension courses.
3. A student wishing to become a candidate for a Bachelor of Science degree should secure an evaluation of his academic record and proposed program from the Director of the Elementary Education Division to assure proper accrediting and satisfactory course selection.
4. Credit granted for the completion of any course is subject to the approval of the Division Director when applied to the specific program of any student.
5. Extension credit is transferable to other academic institutions in accordance with the regulations of the individual college or university concerned.
6. Off-Campus courses will be organized in convenient centers when requests are sufficient to establish them. Teacher groups interested in such courses should inform the Director of Extension as soon as possible.
7. A minimum registration of twenty students will be required for the continuance of any proposed Extension class.

8. Graduates of a three-year elementary education curriculum in another college should note that off-campus courses are not acceptable as part of the residence requirement for the Bachelor of Science degree from this college. In this case a minimum of twenty-four semester hours must be earned on campus in the Summer Session, Extension Program, or Regular Session. Those who wish to attend as full-time students during the regular session must enroll for at least twelve semester hours in a particular semester.
9. Undergraduate students who have questions relative to courses, evaluation, or degree requirements should write to Dr. Robert W. MacVittie, Director of Elementary Education, State University College for Teachers, Buffalo 22, New York.
10. Graduates of a two or three-year curriculum in this college must register for the last twelve hours of the fourth year in on-campus Summer Session or Extension courses.
11. An application for graduation is required of each student of all divisions who will complete the requirement for the Bachelor of Science or Master of Science degree. This application must be filed with the Registrar before November 1 if graduation is expected in January or June of the academic year; it must be filed before the close of Summer Session if requirements are to be completed by that time. The College assumes no responsibility for the graduation of students who omit this application procedure.
12. The right is reserved to make any necessary alterations in the course offerings listed in this catalog without notice.
13. General questions relating to the Extension program, schedules of classes or Graduate study should be sent to Dr. Robert E. Albright, Director of Extension, State University College for Teachers, Buffalo 22, New York.

REGISTRATION PROCEDURES

FIRST SEMESTER

- Saturday, September 14 Registration Day
 All On-Campus Extension Classes
 Saturday—Tuesday—Wednesday
- 8:45-9:15 A. M. Secure instruction sheet in foyer of Administration Building.
 Graduate students follow directions as indicated.
 Undergraduate students attend Assembly in Room Ad. 200 to receive announcements and to check enrollment of classes to be offered. (Absence from this Assembly may cause the discontinuance of the class you wanted due to insufficient registration.)
- 9:15-11:00 A. M. Registration and payment of fees* for all On-Campus Courses. (Saturday—Tuesday—Wednesday).
- 11:00-11:55 A. M. First hour Saturday classes meet.
- 12:00-12:55 P. M. Second hour Saturday classes meet.

SECOND SEMESTER

- Saturday, February 1 Registration Day
 All On-Campus Extension Classes
 Saturday—Tuesday—Wednesday
- 8:45-9:15 A. M. Secure instruction sheet in foyer of Administration Building.
 Graduate students follow directions as indicated.
 Undergraduate students attend Assembly in Room Ad. 200 to receive announcements and to check enrollment of classes to be offered. (Absence from this Assembly may cause the discontinuance of the class you wanted due to insufficient registration.)
- 9:15-11:00 A. M. Registration and Payment of fees* for all On-Campus Courses. (Saturday—Tuesday—Wednesday).
- 11:00-11:55 A. M. First hour Saturday Classes meet.
- 12:00-12:55 P. M. Second hour Saturday Classes meet.

* Pay no fees until classes desired are assured of continuance—no refunds can be made this year.

GRADUATE DIVISION —
EXTENSION SESSION
1957 - 1958

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 Education, Industrial Arts Education.

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 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 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. A cumulative average of B or better in all graduate courses. Not more than nine hours of C, and no work of D grade, will be accepted.

C. 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.

D. 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 may receive permission to register for courses in the Graduate Division.

Registration Fees

Graduate Division fees are \$15.00 per 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 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.

Total requirements: 32 semester hours.

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.

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

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:.....8-11 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

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

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

PREREQUISITES12 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

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

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

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

PREREQUISITES24 SEM. HRS.

| | |
|--------------------|-------------|
| Earth Science..... | 6 Sem. Hrs. |
| Biology | 6 Sem. Hrs. |
| Physics | 6 Sem. Hrs. |
| Chemistry | 6 Sem. Hrs. |

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

PREREQUISITES21 SEM. HRS.

| | |
|-----------------------|-------------|
| American History..... | 6 Sem. Hrs. |
| European History..... | 6 Sem. Hrs. |
| Geography | 3 Sem. Hrs. |

| | | |
|-------------------|--|-------------|
| Political Science | } Minimum of 2 hrs. each in 2 fields. | 6 Sem. Hrs. |
| Economics | | |
| Sociology | | |

(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.

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

- a. In related fields:
- | | |
|--|---|
| Political Science such as: S.S. 503, 519 | } Minimum of 2 hours each in 2 fields. |
| Economics such as: S.S. 505 | |
| Sociology such as: S.S. 506, 521 | |

(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:.....8-11 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

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. |

RESEARCH2-6 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 re-
search, project, or thesis.

Total requirements: 32 semester hours.

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. |
| 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. |
| <i>Total requirements: 32 semester hours.</i> | |

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. |

| | |
|--|--------------|
| 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. |
|-----------------------------|---------------|

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. |

| | |
|---|--------------|
| 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. |
|-----------------------------|---------------|

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.

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

- English and/or Social Studies..... 6 Sem. Hrs.
- Academic Electives..... 6 Sem. Hrs.

RESEARCH2-6 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.

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 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.

RESEARCH2-6 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.

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 Exceptional Problems of Learning 2 Sem. Hrs.

REQUIRED COURSES IN ARTS AND SCIENCES

- English and/or Social Studies..... 6 Sem. Hrs.
- Academic Electives..... 6 Sem. Hrs.

RESEARCH2-6 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.

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.)

| | |
|--|----------------|
| 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. |

Total requirements: 32 semester hours.

INDUSTRIAL ARTS EDUCATION

| | |
|--|-----------------|
| COURSES IN TECHNICAL AND RELATED FIELDS..... | 20-23 SEM. HRS. |
| <i>Technical Courses:</i> | 12 Sem. Hrs. |
| 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> | 10 Sem. Hrs. |
| 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. |
| 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.)

| | |
|--|----------------|
| 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. |

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. 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..... (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. |

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. |
| <hr/> | |
| | 30 Sem. Hrs. |

EXTENSION DIVISION SCHEDULE

(Saturday — Tuesday — Wednesday)

GRADUATE DIVISION CLASSES

1957 - 1958

First Semester

SATURDAY MORNING: 9:00 A. M. - 11:30 A. M. (3 hours credit)

| | |
|--|---|
| Art 509x Graduate Studio in Crafts | <i>Dr. Winebrenner</i> |
| Art 511x Art in the Elementary Curriculum | <i>Mrs. Heyman</i> |
| El. Ed. 501x Seminar in Elementary Education | <i>Dr. Crayton</i> |
| El. Ed. 504x Administration of the Elementary School | <i>Dr. Hemink</i> |
| El. Ed. 510x Seminar in Elementary School Problems (I.T.T.P. students only) | <i>Miss M. Pratt</i> <i>Miss Concannon</i> |
| Ed. 529x Adolescent Psychology | <i>Dr. Carroll</i> |

SATURDAY MORNING: 9:00 A. M. - 10:40 A. M. (2 hours credit)

| | |
|---|------------------------|
| Art 509x Graduate Studio in Crafts | <i>Dr. Winebrenner</i> |
| Ed. 533x Workshop in Audio-Visual Education | <i>Dr. Trubow</i> |
| Ed. 575x Research Methods and Techniques | <i>Dr. Penn</i> |
| Eng. 518x Major American Poets | <i>Dr. Gronewold</i> |
| I.A. 513x Workshop in Ceramics | <i>Mr. Steinzor</i> |
| I.A. 523x Industrial Arts in the Elementary School | <i>Dr. Russell</i> |
| Sci. 500x Science in the Elementary Curriculum | <i>Dr. Harman</i> |
| S.S. 519x Case Studies in Local Government and Politics | <i>Dr. R. Brown</i> |

SATURDAY MORNING: 10:50 A. M. - 12:30 P. M. (2 hours credit)

| | |
|---|----------------------|
| El. Ed. 517x Teaching the Language Arts in the Elementary School | <i>Dr. Eddins</i> |
| Ed. 575x Research Methods and Techniques | <i>Dr. Hertzberg</i> |
| Eng. 520x Shakespearean Tragedy | <i>Dr. McRae</i> |
| H.Ec. 512x Workshop in Household Equipment for Home Economics Teachers | |
| I.A. 517Ax Electronics | <i>Dr. Cook</i> |
| I.A. 520x Design in Industrial Arts | <i>Dr. Steffen</i> |
| Sci. 501x Field Studies in Science I | <i>Dr. Eckert</i> |
| S.S. 510Ax Studies in Twentieth Century European History: The German Problem | <i>Dr. Mason</i> |

OR

| | |
|---|-------------------|
| S.S. 501x Studies in Twentieth Century European History | <i>Dr. Rogers</i> |
|---|-------------------|

TUESDAY AFTERNOON: 4:20 P. M. - 6:00 P. M. (2 hours credit)

| | |
|--|----------------------|
| Ex. Ed. 538x Understanding the Problem Child in the Classroom | <i>Mr. Hallowitz</i> |
| Ex. Ed. 571x Occupational Skills and Analysis of Job Areas for Chil- dren with Mental Retardation | <i>Miss Cleaves</i> |

TUESDAY EVENING: 6:30 P. M. - 8:10 P. M. (2 hours credit)

| | |
|--|--|
| Ex. Ed. 513x Seminar in Speech Science | |
|--|--|

TUESDAY EVENING: 6:30 P. M. - 9:00 P. M. (3 hours credit)

| | |
|---|----------------------|
| Art 510x Graduate Studio in Photography | <i>Dr. Truesdale</i> |
| Ed. 506x Philosophy of Education | <i>Dr. Sloan</i> |
| Eng. 519x Literature and the World Today | <i>Dr. Greenwood</i> |
| S.S. 506x Minority Groups in American Culture | <i>Dr. Hollister</i> |

WEDNESDAY AFTERNOON: 4:20 P. M. - 6:00 P. M. (2 hours credit)

| | |
|---------------------------------------|--------------------|
| S.S. 514x Workshop in Human Relations | <i>Dr. Burrell</i> |
|---------------------------------------|--------------------|

Second Semester

SATURDAY MORNING: 9:00 A. M. - 11:30 A. M. (3 hours credit)

| | |
|---|--|
| Art 508x Graduate Studio in Design and Spatial Organization | <i>Mr. Cataldo</i> |
| Art 513x Graduate Studio in Graphic Arts | <i>Mr. Dakin</i> |
| El. Ed. 505x Evaluation Techniques in the Elementary School | |
| El. Ed. 511x Music and Art in the Elementary School (I.T.T.P. students only) | <i>Dr. Sherrie</i> <i>Mrs. Heyman</i> |
| El. Ed. 530x Principles of Supervision | <i>Mr. Bailey</i> <i>Dr. Milanovich</i> |
| Ed. 536x Early Secondary School Problems and Methods | <i>Dr. Edmund</i> |

SATURDAY MORNING: 9:00 A. M. - 10:40 A. M. (2 hours credit)

| | |
|---|----------------------|
| Art 508x Graduate Studio in Design and Spatial Organization | <i>Mr. Cataldo</i> |
| Art 513x Graduate Studio in Graphic Arts | <i>Mr. Dakin</i> |
| Ed. 575x Research Methods and Techniques | <i>Dr. Penn</i> |
| Eng. 505x Studies in the Novel | <i>Dr. Gragg</i> |
| I.A. 512x Workshop in Textiles | <i>Mr. Ball</i> |
| I.A. 501x Seminar in Industrial Arts Education | <i>Dr. Neuthardt</i> |
| Math. 500x Mathematics in the Elementary Curriculum | <i>Dr. Cherkauer</i> |
| Sci. 503x Ecology | <i>Dr. Urban</i> |
| S.S. 512x The United States in Contemporary World Affairs | <i>Dr. Peterson</i> |

and

SATURDAY MORNING: 10:50 A. M. - 12:30 P. M. (2 hours credit)

| | |
|--|--|
| Ed. 575x Research Methods and Techniques | |
| Eng. 500x Studies in the Structure and Function of Language | <i>Dr. Messner</i> |
| Geog. 502x Map Interpretation for Teachers | <i>Dr. Whittemore</i> |
| H.Ec. 510x Practical Problems of Housing and Home Furnishing | |
| I.A. 521x New Methods and Techniques in Metalworking | <i>Dr. Fontana</i> |
| I.A. 502x Field Studies Related to Industrial Arts Education | |
| Sci. 518x Human Biology | <i>Mr. Brossman</i> <i>Miss Dupre</i> |
| S.S. 505x Studies in Contemporary Economic Problems | |

- TUESDAY AFTERNOON: 4:20 P. M. - 6:00 P. M. (2 hours credit)
- Ex. Ed. 523x Applied Phonetics
 Ex. Ed. 561x Occupational Education for Children with Mental Retardation
- TUESDAY EVENING: 6:30 P. M. - 8:10 P. M. (2 hours credit)
- Ex. Ed. 591x Nature and Needs of Children who Present Exceptional Problems of Learning
 I.A. 519x New Methods and Techniques in Woodworking *Dr. Callan*
- TUESDAY EVENING: 6:30 P. M. - 9:00 P. M. (3 hours credit)
- Art 506x Seminar in History of Art—Contemporary Movements in Art *Mr. Green*
 Ed. 527x Problems in Educational Services for Young Children *Miss Jamison*
 Ed. 546x The Teaching of Reading *Dr. Lange*
 Eng. 521x Studies in Modern British Poetry *Dr. Drew*
 S.S. 511x Problems of Contemporary England *Dr. Robison*
- WEDNESDAY AFTERNOON: 4:20 P. M. - 6:00 P. M. (2 hours credit)
- S.S. 514Ax Advanced Workshop in Human Relations *Dr. Burrell*

PROPOSED GRADUATE DIVISION CLASSES
 1958-1959

First Semester

- SATURDAY MORNING: 9:00 A. M. - 11:30 A. M. (3 hours credit)
- Art 508x Graduate Studio in Design and Spatial Organization *Mr. Tetkowski*
- Art 510x Graduate Studio in Photography
 El. Ed. 501x Seminar in Elementary Education *Dr. Crayton*
 El. Ed. 503x Organization of the Elementary School *Dr. Hemink*
 El. Ed. 510x Seminar in Elementary School Problems (I.T.T.P. students only) *Miss M. Pratt*
 Ed. 542x Seminar in Early Secondary School Curriculum *Dr. Edmund*
- SATURDAY MORNING: 9:00 A. M. - 10:40 A. M. (2 hours credit)
- Art 508x Graduate Studio in Design and Spatial Organization *Mr. Tetkowski*
- Art 510x Graduate Studio in Photography
 Ed. 575x Research Methods and Techniques *Dr. Penn*
 Eng. 507x The Modern Novel *Dr. Fried*
 I.A. 513x Workshop in Ceramics *Mr. Steinzor*
 I.A. 524x Evaluation in Industrial Arts *Dr. Harlan*
 Sci. 500x Science in the Elementary Curriculum *Dr. Harman*
 S.S. 509x Local History: Research Methods and Techniques *Dr. Brunger*
- SATURDAY MORNING: 10:50 A. M. - 12:30 P. M. (2 hours credit)
- Ed. 533x Workshop in Audio-Visual Education *Dr. Trubov*
 Ed. 575x Research Methods and Techniques

- Eng. 523x Shakespearean Comedy *Dr. McRae*
 H.Ec. 500x Seminar in Home Economics Education *Dr. Barkley*
 I.A. 517Ax Electronics *Dr. Cook*
 I.A. 520x Design in Industrial Arts *Dr. Steffen*
 Math. 500x Mathematics in the Elementary Curriculum
 Sci. 501x Field Studies in Science I *Dr. Eckert*
 S.S. 501Bx Studies in Twentieth Century European History: The History and Institutions of the Soviet Union *Dr. Mason*
- TUESDAY AFTERNOON: 4:20 P. M. - 6:00 P. M. (2 hours credit)
- Ex. Ed. 538x Understanding the Problem Child in the Classroom
 Ex. Ed. 533x Seminar in Speech Pathology
- TUESDAY EVENING: 6:30 P. M. - 8:10 P. M. (2 hours credit)
- Ex. Ed. 535x Mental Measurement
- TUESDAY EVENING: 6:30 P. M. - 9:00 P. M. (3 hours credit)
- Art 504x Seminar in Art in Human Affairs
 Ed. 506x Philosophy of Education
 Eng. 502x Studies in American Literature *Dr. Gronewold*
 S.S. 513x Social and Intellectual History of the U. S. *Dr. Weaver*
- WEDNESDAY AFTERNOON: 4:20 P. M. - 6:00 P. M. (2 hours credit)
- S.S. 514x Workshop in Human Relations *Dr. Burrell*

Second Semester

- SATURDAY MORNING: 9:00 A. M. - 11:30 A. M. (3 hours credit)
- Art 505x Seminar in Art Education *Mr. Lofgren*
 Art 507x Graduate Studio in Drawing and Painting *Mr. Grossman*
 El. Ed. 511x Music and Art in the Elementary School (I.T.T.P. students only) *Mrs. Heyman*
 El. Ed. 531x Supervision of Teaching *Dr. Milanovich*
 Ed. 532x Early Secondary School Education *Dr. Moss*
- SATURDAY MORNING: 9:00 A. M. - 10:40 A. M. (2 hours credit)
- Art 507x Graduate Studio in Drawing and Painting *Mr. Grossman*
 Ed. 575x Research Methods and Techniques *Dr. Penn*
 Eng. 511Bx Studies in the Prose of the Victorian Period *Dr. Gragg*
 I.A. 501x Seminar in Industrial Arts *Dr. Neuthardt*
 I.A. 512x Workshop in Textiles *Mr. Ball*
 Sci. 503x Ecology *Dr. Sengbusch*
 S.S. 516x International Relations and the World Today *Dr. E. Brown*
- SATURDAY MORNING: 10:50 A. M. - 12:30 P. M. (2 hours credit)
- El. Ed. 517x Teaching the Language Arts in Elementary School *Dr. Eddins*
- Ed. 575x Research Methods and Techniques
 Eng. 519x Literature and the World Today *Dr. Greenwood*
 H.Ec. 503x Family Relationships *Dr. Stewart*
 I.A. 502x Field Studies Related to Industrial Arts Education *Mr. Brossman*

I.A. 521x New Methods and Techniques in Metalworking *Dr. Fontana*
 Sci. 518x Human Biology *Miss Dupre*
 S.S. 515x Studies in American Colonial History *Dr. Robison*

TUESDAY AFTERNOON: 4:20 P. M. - 6:00 P. M. (2 hours credit)
 Ex. Ed. 561x Occupational Education for Children with Mental Retardation
 Ex. Ed. 524x Introduction to Audiology
 I.A. 519x New Methods and Techniques in Woodworking *Dr. Callan*

TUESDAY EVENING: 6:30 P. M. - 8:10 P. M. (2 hours credit)
 Ex. Ed. 591x Nature and Needs of Children who Present Exceptional Problems of Learning
 I.A. 515x Transportation Laboratory

TUESDAY EVENING: 6:30 P. M. - 9:00 P. M. (3 hours credit)
 Art 501x Workshop in Art Education, Materials, Processes and Procedures *Mrs. Lindemann*
 Ed. 527x Problems in Educational Services for Young Children *Miss Jamison*
 Eng. 502x Studies in American Literature *Dr. Bradford*
 S.S. 521x Contemporary Social Problems *Dr. Hollister*

WEDNESDAY AFTERNOON: 4:20 P. M. - 6:00 P. M. (2 hours credit)
 S.S. 514Ax Advanced Workshop in Human Relations *Dr. Burrell*

UNDERGRADUATE COURSE OFFERINGS 1957-1958

(Additional classes will be organized if need arises)

First Semester

SATURDAY MORNING: 9:00 A. M. - 11:30 A. M. (3 hours credit)
 *Sci. 203x Physics

SATURDAY MORNING: 9:00 A. M. - 10:40 A. M. (2 hours credit)
 Art 256x Art in Everyday Life *Mr. Tetkowski*
 Eng. 210x Children's Literature *Mrs. Ganey*
 Sci. 305x Zoology *Mr. Nadolinski*
 OR
 Sci. 306x Botany *Mr. Nadolinski*
 S.S. 312x The History and Government of New York State *Dr. Brunger*

SATURDAY MORNING: 10:50 A. M. - 12:30 P. M. (2 hours credit)
 Eng. 304x American Literature *Mr. Sherwin*
 Sci. 421x Human Anatomy and Physiology *Mr. Laug*
 S.S. 343x Cultural Anthropology *Dr. Weaver*

* Open to all extension students. Teachers seeking to extend elementary certification to include junior high school science but who lack prerequisites in physics are urged to contact Dr. John Urban relative to these courses.

Second Semester

SATURDAY MORNING: 9:00 A. M. - 11:30 A. M. (3 hours credit)
 *Sci. 204x Physics

SATURDAY MORNING: 9:00 A. M. - 10:40 A. M. (2 hours credit)
 Eng. 203x Modern Drama *Mr. Schuck*
 Sci. 401x Genetics *Mr. Laug*
 S.S. 305x American History from 1789-1865 *Dr. Sexton*

SATURDAY MORNING: 10:50 A. M. - 12:30 P. M. (2 hours credit)
 Art 406x Creative Art Workshop *Mr. Hoffa*
 Eng. 349x Speech Activities in the Elementary School *Miss Piquette*
 Geog. 403x Geography of Europe *Dr. Prudhomme*
 S.S. 225x Historical Influences on Modern Society *Dr. E. Brown*

PROPOSED UNDERGRADUATE COURSE OFFERINGS 1958-1959

(Additional classes will be organized if need arises)

First Semester

SATURDAY MORNING: 9:00 A. M. - 10:40 A. M. (2 hours credit)
 Art 458x Theatre Design I *Mr. Dakin*
 Eng. 407x The Romantic Movement *Mr. Schuck*
 Sci. 311x Geology *Mr. Sheel*
 S.S. 306x American History Since 1865 *Dr. Sexton*

SATURDAY MORNING: 10:50 A. M. - 12:30 P. M. (2 hours credit)
 Eng. 408x The Short Story *Miss Norenberg*
 Sci. 305x Zoology *Mr. Nadolinski*
 OR
 Sci. 306x Botany *Mr. Nadolinski*
 S.S. 417x Juvenile Delinquency *Mr. Thorsell*

Second Semester

SATURDAY MORNING: 9:00 A. M. - 10:40 A. M. (2 hours credit)
 Art 400x Workshop in Crafts *Miss Norenberg*
 Eng. 405x Short Writings in the Familiar Style *Dr. R. Brown*
 S.S. 347x American Political Institutions and Problems

SATURDAY MORNING: 10:50 A. M. - 12:30 P. M. (2 hours credit)
 Eng. 348x Creative Dramatics *Miss Piquette*
 Sci. 313x Descriptive Astronomy *Dr. Lampkin*
 S.S. 310x History of the Far East *Dr. Rogers*

* Open to all extension students. Teachers seeking to extend elementary certification to include junior high school science but who lack prerequisites in physics are urged to contact Dr. John Urban relative to these courses.

COURSE DESCRIPTIONS

GRADUATE COURSES IN ART EDUCATION

ART 501X. WORKSHOP IN ART EDUCATION MATERIALS, PROCESSES, AND PROCEDURES. Analysis and experiment with materials and processes significant to community, school, and group activities. Credit: three semester hours.

ART 504X. SEMINAR IN ART IN HUMAN AFFAIRS. Art activity as a dynamic force in the life of an individual and society; psychology of creative activities; creative activity as a way of clarifying thought, attaining control of emotions, propagating individual and group attitudes, beliefs, ceremonials, and practices. Credit: three semester hours.

ART 505X. 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.

ART 506X. SEMINAR IN HISTORY OF ART. CONTEMPORARY MOVEMENTS IN ART. Trends in the arts of painting, sculpture, graphic arts, architecture, industrial art, commercial art, and crafts, related to developments in music, drama, and literature; lectures, readings, experiments and demonstrations; visits to galleries, studios, and plays. Credit: three semester hours.

ART 507X. GRADUATE STUDIO IN DRAWING AND PAINTING. Individual activities with a variety of graphic 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.

ART 508X. 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.

ART 509X. GRADUATE STUDIO IN CRAFTS. Individualized work in textiles, jewelry, leather, woodcarving, sculpture, plastics, pottery, and metal. Credit: two or three semester hours.

ART 510X. 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. Credit: two or three semester hours.

ART 511X. 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.

ART 513X. GRADUATE STUDIO IN GRAPHIC ARTS. 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.

GRADUATE COURSES IN EDUCATION

ED. 506X. 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. Credit: three semester hours.

ED. 527X. PROBLEMS IN EDUCATIONAL SERVICES OF YOUNG CHILDREN. Current social and economic trends affecting the lives of young children; curriculum contributions for developing individual and group living; educational problems confronting teachers in this specialized field. Open to undergraduates with consent of the instructor. Credit: three semester hours.

ED. 529X. ADOLESCENT PSYCHOLOGY. Social, emotional, mental, physical and personality development of adolescents; relationship of adolescent behavior to pre-adolescent and post-adolescent development; educational adjustments and vocational interests; guidance program in early secondary school. For students preparing for early secondary school teaching. Prerequisites: six semester hours in Child Development or its equivalent and the baccalaureate degree. Credit: three semester hours.

ED. 532X. EARLY SECONDARY SCHOOL 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.

ED. 533X. 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: two semester hours.

ED. 536X. 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. Prerequisites: baccalaureate degree. Credit: three semester hours.

ED. 542X. 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; adaptation 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.

ED. 546X. 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; reading in the content areas; methods and materials; evaluation and guidance of pupil growth in reading. Credit: three semester hours.

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

GRADUATE COURSES IN ELEMENTARY EDUCATION

EL. ED. 501X. 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.

EL. ED. 503X. 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. May precede or follow El. Ed. 504. Open to experienced teachers, principals, and supervisors. Credit: three semester hours.

EL. ED. 504X. 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 counseling; teacher re-

cruitment, selection, employment, assignment, orientation, evaluation, tenure and dismissal. May precede or follow El. Ed. 503. Open to experienced teachers, principals, and supervisors. Credit: three semester hours.

EL. ED. 505X. EVALUATION TECHNIQUES IN THE ELEMENTARY SCHOOL. Evaluating educational growth of pupils; evaluation related to teaching objectives; informal, objective, and essay type tests; selection, administration, and scoring of measuring instruments (for evaluating and diagnosing mental abilities, educational achievements and personality characteristics of pupils); statistical methods in handling and interpreting data; organization of remedial programs. Credit: three semester hours.

EL. ED. 510X. SEMINAR IN ELEMENTARY SCHOOL PROBLEMS. Methods and materials in language arts, science and mathematics for Elementary School teachers. Open only to liberal arts graduates in the Intensive Teacher Training Program. Credit: three semester hours.

EL. ED. 511X. MUSIC AND ART IN THE ELEMENTARY SCHOOL. Activities and experiments in various art materials suitable for elementary grades with emphasis on new processes and procedures; meets the classroom teacher's need in the field of music. Open only to liberal arts graduates in the Intensive Teacher Training Program. Credit: three semester hours.

EL. ED. 517X. TEACHING THE LANGUAGE ARTS IN 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: two semester hours.

EL. ED. 530X. 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.

EL. ED. 531X. SUPERVISION OF TEACHING. Principles of supervision; classroom observation; evaluating teachers; effect of teachers' purposes and research on choice of subject matter and teaching procedures; teacher-pupil relationships; group and individual conferences; induction of new teachers; inter-visitation; demonstration teaching; teachers' meetings; bulletins; workshops; evaluation of program. Open to experienced teachers, principals and supervisors. Credit: three semester hours.

GRADUATE COURSES IN ENGLISH

ENG. 500X. 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; alpha-

bets 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.

ENG. 502X. STUDIES IN AMERICAN LITERATURE. Literary culture in America from the Colonial Period to the present; religious and political influences upon early writings; the Romantic Movement and Transcendentalism; realism and regional literature. Credit: three semester hours.

ENG. 505X. STUDIES IN THE NOVEL. The novel in England, especially in the Nineteenth Century; major novelists; research. Credit: two semester hours.

ENG. 507X. THE MODERN NOVEL. Outstanding American and English twentieth century novels, their social and artistic significance. Credit: two semester hours.

ENG. 511Bx. STUDIES IN THE PROSE OF THE VICTORIAN PERIOD. Major Victorian essayists with reference to the intellectual background of nineteenth-century England: Carlyle, Newman, Macaulay, J. S. Mill, Ruskin, and Arnold. Credit: two semester hours.

ENG. 518X. MAJOR AMERICAN POETS. Nineteenth century poets of first rank and their contributions to a national literature; some attention to chief figures in the poetry revival of the 20th century. Credit: three semester hours.

ENG. 519X. LITERATURE AND THE WORLD TODAY. Current ideas expressed through novels, plays, and critical reports; contribution of the magazine, newspaper and motion picture to the world's view of America. Credit: two semester hours.

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

ENG. 521X. STUDIES IN MODERN BRITISH POETRY. Significant trends and figures in British poetry since 1890; emphasis upon the work of two writers from the following group: Hardy, Hopkins, Housman, Yeats, and Masefield. Credit: three semester hours.

ENG. 523X. SHAKESPEAREAN COMEDY. Principal comedies from Love's Labour's Lost to The Tempest. Backgrounds of Elizabethan comedy; Shakespeare's early and experimental work; later mature achievements with the comic idea in farce, high comedy, bitter comedy, drama and idealistic romance. Credit: two semester hours.

GRADUATE COURSES IN EXCEPTIONAL CHILDREN EDUCATION

EX. ED. 513X. SEMINAR IN SPEECH SCIENCE. Anatomy, physics, and physiology of speech, stressing research and experimental studies in the field. Prerequisites: Ex. Ed. 204, 305, 306 and 308 or equivalent. Credit: two semester hours.

EX. ED. 523X. APPLIED PHONETICS. The application of phonetics to the teaching of speech in the elementary and secondary school; the teaching of speech to the deaf; speech correction including foreign dialects. Open to graduate and qualified undergraduate students. Required for certification in Speech Correction and Education of Deaf and Hard of Hearing. Credit: two semester hours.

EX. ED. 524X. 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. Prerequisite: Ex. Ed. 204, 305, 306, and 308 or equivalent. Credit: two semester hours.

EX. ED. 533X. SEMINAR IN SPEECH PATHOLOGY. Research studies in Speech: stuttering, voice defects, cleft palate, and cerebral palsy. Prerequisite: Ed. Ex. 204, 305, 306 and 308 or equivalent. Credit: two semester hours.

EX. ED. 535X. MENTAL MEASUREMENT. Presentation use and interpretation of mental and performance tests; demonstrations; student participation in giving psychometric examinations. Credit: two semester hours.

EX. ED. 538X. UNDERSTANDING THE PROBLEM CHILD IN THE CLASSROOM. Personal and social factors as related to the problem child; case study of an individual pupil and group discussion of report. Enrollment limited to fifteen. Open to graduate students in any division. Credit: two semester hours.

EX. ED. 561X. 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: two semester hours.

EX. ED. 571X. OCCUPATIONAL SKILLS AND ANALYSIS OF JOB AREAS FOR CHILDREN WITH MENTAL RETARDATION. Instruction in the manual skills needed by children with retarded mental development; experience in the techniques needed in making job analyses in the job areas in which the retarded find employment. Credit: two semester hours.

EX. ED. 591X. 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: two semester hours.

GRADUATE COURSES IN GEOGRAPHY

GEOG. 502. MAP INTERPRETATION FOR TEACHERS. History of maps; map interpretation; methods of developing map-reading skills; maps in the elementary and secondary school. Credit: two semester hours.

GRADUATE COURSES IN HOME ECONOMICS

H. EC. 500X. 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. Credit: two semester hours.

H. EC. 503X. FAMILY RELATIONSHIPS. The family viewed longitudinally; developmental tasks of family members at each stage of the family life cycle; research on marriage success and family crises; attitudes, values, and standards regarding family living. Credit: two semester hours.

H. EC. 510X. PRACTICAL PROBLEMS OF HOUSING AND HOME FURNISHING. Problems related to housing and home furnishings; planning and constructing furnishings; field trips. Credit: two semester hours.

H. EC. 512X. WORKSHOP IN HOUSEHOLD EQUIPMENT FOR HOME ECONOMICS TEACHERS. Survey and evaluation of developments in large and small equipment used in homes and schools; field trips, laboratory and demonstrations. Credit: two semester hours.

GRADUATE COURSES IN INDUSTRIAL ARTS

I.A. 501X. SEMINAR IN INDUSTRIAL ARTS. Discussion, research, reports on individual and group problems in Industrial Arts Education. Required of Industrial Arts students registered for the degree of Master of Science. Credit: two semester hours.

I.A. 502X. FIELD STUDIES RELATED TO INDUSTRIAL ARTS EDUCATION. Individual and group studies of industrial activities in 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. Credit: two semester hours.

I.A. 512X. WORKSHOP IN TEXTILES. Organization and operation of an Industrial Arts textile unit; study of fibers and materials; techniques of fabric construction; dyeing; surface finishing and treatment; color and pattern harmonies. Credit: two semester hours.

I.A. 513X. WORKSHOP IN CERAMICS. The Industrial Arts ceramics program; basic forming techniques; advanced processes of production in throwing and casting; decoration; firing and kiln construction; body and glaze composition; design of ceramic products. Credit: two semester hours.

I.A. 515X. TRANSPORTATION LABORATORY. Specialized areas of transportation; planning, organization and techniques of operation; projects and problems; evaluation; models, mock-ups and other visual aids. Credit: two semester hours.

I.A. 517xA—I.A. 517xB. ELECTRONICS. Electronics in the junior and senior high school industrial arts program; advanced electronic theory and practice in communications; development of instructional materials, demonstration equipment, projects, and visual aids. I.A. 517xA, Credit: two semester hours. I.A. 517xB, Credit: two semester hours.

I.A. 519X. NEW METHODS AND TECHNIQUES IN WOODWORKING. Carving, appliques and inlays; plastic finishes, wood substitutes, wood bleaches, other recent materials and techniques of the wood industries; individual problems of the in-service teacher. Credit: two semester hours.

I.A. 520X. DESIGN IN INDUSTRIAL ARTS. Graduate study of design as applied to industrial arts. Research, discussion and practice in originating designs for all areas of industrial arts technical study. Analysis of designs with discussions for suggested redesign. Credit: two semester hours.

I.A. 521X. NEW METHODS AND TECHNIQUES IN METALWORKING. New materials and their possibilities for industrial arts activities; investigation of modern industrial processes in metalworking and their implications for the teaching of Industrial Arts. Credit: two semester hours.

I.A. 523X. INDUSTRIAL ARTS IN THE ELEMENTARY SCHOOL. Functions of Industrial Arts in the elementary school; study of activities for the various grade levels; problems of equipment, organization, supplies; planning and executing units of work. Credit: two semester hours.

I.A. 524X. EVALUATION IN INDUSTRIAL ARTS. General principles of evaluation; construction and use of various informal devices and techniques of evaluation applicable to industrial arts; selection and use of appropriate standardized instruments 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: two semester hours.

GRADUATE COURSES IN MATHEMATICS

MATH. 500X. 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: two semester hours.

GRADUATE COURSES IN SCIENCE

SCI. 500X. 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: two semester hours.

SCI. 501X. FIELD STUDIES IN SCIENCE I. Biological and geological field work; selected field studies, group and individual; intensive studies of one or more areas. Elective for seniors with an average of C or higher in science and for graduates with six hours of undergraduate science. Credit: two semester hours.

SCI. 503X. ECOLOGY. Scientific nature study, the relationships between living things and their physical environment; biological relationships between and within species; man's relationship with the natural environment. Lectures, discussion, readings. Credit: two semester hours.

SCI. 518X. 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. Prerequisites: Sci. 201-202; 303-304. Credit: two semester hours.

GRADUATE COURSES IN SOCIAL STUDIES

S.S. 501X. STUDIES IN TWENTIETH CENTURY EUROPEAN HISTORY. Lectures, class discussions and student reports on one or two subjects such as modern political ideologies, problems of modern Germany, recent developments in Russia, or international relations. Prerequisites: 15 hours in Social Studies, including nine in European History. Credit: two semester hours.

S.S. 501Ax. STUDIES IN TWENTIETH CENTURY EUROPEAN HISTORY. The "German Problem"; political thought and institutions in Germany prior to 1914; development of the Weimar Republic; the Hitler movement; structure and ideology of the Nazi Party and state; foreign policy leading to World War II; Nazi rule and defeat in Europe; post-war German questions. Prerequisites: 15 hours in Social Studies, including nine in European History. Credit: two semester hours.

S.S. 501Bx. STUDIES IN TWENTIETH CENTURY EUROPEAN HISTORY. The history and institutions of the Soviet Union; chief factors in tsarist Russia; Revolution of 1917; the Bolsheviks' rise to power; political and social ideology; government and the Communist party; economic system; peasant problem; Soviet foreign policy and its relation to international organization; impact of the Soviet Union upon the western world. Prerequisites: 15 hours in Social Studies, including nine in European History. Credit: two semester hours.

S.S. 505X. STUDIES IN CONTEMPORARY ECONOMIC PROBLEMS. International trade; international finance; inflation; labor legislation; problems of labor and management; price levels. Registration by consent of instructor. Credit: two semester hours.

S.S. 506X. MINORITY GROUPS IN AMERICAN CULTURE. Major racial, nationality, and religious minority groups in America studied from the cultural, historical, and familiar points of view; current anthropological and psychological data on uniformities, differences, prejudices, and discrimination. Prerequisites: 15 hours in Social Studies. Credit: three semester hours.

S.S. 509X. LOCAL HISTORY: RESEARCH METHODS AND TECHNIQUES. Research involved in the study and presentation of local history, with special reference to the Niagara Frontier and New York State; community facilities; discovery, examination, and use of original materials. Prerequisites: 15 hours in Social Studies, including six in American History. Credit: two semester hours.

S.S. 511X. PROBLEMS OF CONTEMPORARY ENGLAND. Rise of trade unions; industrial and labor relations; history of the Labor Party; programs for social democracy; the changing world position of England. Credit: three semester hours.

S.S. 512X. THE UNITED STATES IN CONTEMPORARY WORLD AFFAIRS. United States foreign policy; United States and the United Nations; Atlantic and Pacific commitments; internal problems such as defense production, inflation, and taxation. Registration with consent of the instructor. Credit: two semester hours.

S.S. 513X. 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: 15 hours in Social Studies, including six in American History. Credit: three semester hours.

S.S. 514X. WORKSHOP IN HUMAN RELATIONS. Improvement of human relations in classrooms; development of constructive social attitudes in children; particular difficulties faced by children of various groups; guest speakers on local problems. Credit: two semester hours.

S.S. 514Ax. **ADVANCED WORKSHOP IN HUMAN RELATIONS.** Materials and methods in individual and group work in human relations; individual studies of community agencies and organizations; techniques for reducing tensions in a changing neighborhood; specific situations within a classroom or school causing tensions. Credit: two semester hours.

S.S. 515X. **STUDIES IN AMERICAN COLONIAL HISTORY.** Comparison of colonial policies of European powers in the new world; modification in a new environment of transplanted elements such as the family, church, schools, economy, and government. Prerequisites: 15 hours in Social Studies. Credit: two semester hours.

S.S. 516X. **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 leadership. Credit: two semester hours.

S.S. 519X. **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 according to student needs and interests. Prerequisites: 15 hours in Social Studies, including six in American History, and/or Government. Open to qualified seniors with consent of instructor. Credit: two semester hours.

S.S. 521X. **CONTEMPORARY SOCIAL PROBLEMS.** Problem areas of American society; sources of information; techniques for discovering and analyzing social problems; analysis of several major problems, selected according to student needs and interests. Prerequisites: course in elementary Sociology. Open to qualified seniors with consent of instructor. Credit: three semester hours.

UNDERGRADUATE ART COURSES

ART 256X. **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. Credit: two semester hours.

ART 400X. **WORKSHOP IN CRAFTS I.** Various crafts: leather work, metal work, ceramics and jewelry; group and individual instruction; election of creative projects. Credit: two semester hours.

ART 406X. **CREATIVE ART WORKSHOP.** Activities and art material suitable for the elementary grades; individual experiments in various media; watercolor, powder paint, finger paint, tempera, inks, dyes, crayon, 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: two semester hours.

ART 458X. **THEATRE DESIGN I.** 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.

UNDERGRADUATE COURSES IN ENGLISH

ENG. 203X. **MODERN DRAMA.** Chief modern dramatists of Continental Europe, England and America from Ibsen to the present time. Credit: two semester hours.

ENG. 210X. **CHILDREN'S LITERATURE.** Types of children's literature; criteria of book selection; reading interests of children; preparation of bibliography. Credit: two semester hours.

ENG. 304. **AMERICAN LITERATURE.** Major writers and literary movements of the United States from the Colonial Period to recent times. Credit: two semester hours.

ENG. 348X. **CREATIVE DRAMATICS.** History, philosophy, methods, and materials of informal playmaking with children; observation and participation in Campus School. Credit: two semester hours.

ENG. 349X. **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.

ENG. 405X. **SHORT WRITINGS IN THE FAMILIAR STYLE.** Informal writings of Beerbohm, Leacock, Thurber, Lewis Allen, Heywood Broun, E. B. White, and others. Credit: two semester hours.

ENG. 407X. **ROMANTIC MOVEMENT.** Romantic poetry and prose: Burns, Wordsworth, Coleridge, Scott, Byron, Shelley, Keats; critics of the period. Credit: two semester hours.

ENG. 408X. **THE SHORT STORY.** Development of the short story; Hawthorne, Poe, Bierce, W. D. Steele, Susan Glaspell, Ring Lardner, O. Henry, Hemingway, and others. Credit: two semester hours.

UNDERGRADUATE COURSES IN GEOGRAPHY

GEOG. 403X. GEOGRAPHY OF EUROPE. Physiographic and climatic regions related to human use; agriculture, manufacturing, transportation; development of major cities; geographic background of current problems. Credit: two semester hours.

UNDERGRADUATE COURSES IN SCIENCE

SCI. 203-204. PHYSICS. Mechanics, heat, sound, light and electricity; the nature, behavior and transformation of energy; man's control of energy. Elective for Elementary Education sophomores, juniors, and seniors. Required for early secondary school science teaching certification. Prerequisite: Sci. 101 or its equivalent. Credit: three to six semester hours.

SCI. 305X. ZOOLOGY. Morphology, physiology, adaptation, reproduction, genetics and ecology of animals; lectures, demonstrations, laboratory work. Credit: two semester hours.

SCI. 306X. BOTANY. Structure and physiology of plants; observations, experiments, and laboratory work centered around control of plant life. Elective for students who have had Science 201-2 or its equivalent. Credit: two semester hours.

SCI. 311X. GEOLOGY. Geologic processes during past ages; life and activity in the various eras; local fossils, rock formations, and geologic history; museum and field trips. Prerequisite: Sci. 101 or its equivalent. Credit: two semester hours.

SCI. 313. DESCRIPTIVE ASTRONOMY. The solar system, Milky Way Galaxy, and other celestial systems and objects. Observation of stars and planets; use of simple instruments; field trips; selected teaching aids. Credit: two semester hours.

SCI. 401X. GENETICS. Principles of heredity; inheritance of specific plant, animal, and human traits. Prerequisite: Sci. 201-202, or its equivalent. Credit: two semester hours.

SCI. 421X. HUMAN ANATOMY AND PHYSIOLOGY. Structure and function of the human body, including metabolism, nutrition, and disease. Credit: two semester hours.

UNDERGRADUATE COURSES IN SOCIAL STUDIES

S.S. 225X. HISTORICAL INFLUENCES ON MODERN SOCIETY. Impact of significant forces in civilization upon present-day culture: medieval scholasticism; Renaissance individualism and humanism; the scientific spirit; 18th century

rationalism; revolutionary doctrine; evolution of the democratic idea; imperialism; nationalism; recent rise of oriental peoples; growth of international organizations. Credit: two semester hours.

S.S. 305X. AMERICAN HISTORY FROM 1789-1865. Development of American political, social, and economic institutions under the Constitution, from its adoption in 1789 to its final acceptance in 1865. Credit: two semester hours.

S.S. 306 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. Credit: two semester hours.

S.S. 310X. HISTORY OF THE FAR EAST. Selected topics in the history of China and Japan from the fourteenth century to the present; emphasis on the period after 1800. Credit: two semester hours.

S.S. 312X. HISTORY AND GOVERNMENT OF NEW YORK STATE. Aboriginal background; development of the colony; establishment of the state; rise of political parties; past and present structure and problems of New York State government; economic and social growth to the present time. Credit: two semester hours.

S.S. 343X. CULTURAL ANTHROPOLOGY. Man as a physical form; culture in its relation to society, to the individual, and to personality; prehistoric developments of culture; universals and variations in cultures; cultural traits and institutions; dynamics of cultural change. Credit: two semester hours.

S.S. 347. AMERICAN POLITICAL INSTITUTIONS AND PROBLEMS. Meanings of politics; substance of democracy; techniques of democratic government; separation of powers; legislative process; role of the executive; judicial review; whither federalism?; greater fruition of democratic ideals. Credit: two semester hours.

S.S. 417. JUVENILE DELINQUENCY. Current trends in juvenile delinquency; causes, nature, and extent of deviant behavior; resources of the clinician; children's court; methods of treatment. Credit: two semester hours.

OFF-CAMPUS EXTENSION

- Batavia.....*Ed. 546x The Teaching of Reading*
Lake Shore Central School (Angola)....*Ed. 518x Studies in Human Growth and Development*
Newfane...*Ed. 516x Methods and Materials in the Elementary School*
Niagara Falls.....*Ed. 546x The Teaching of Reading; Eng. 506x Studies in the Modern Drama*
Lewiston-Porter Central School (Youngstown)...*Math. 500x Mathematics in the Elementary Curriculum*
Cheektowaga.....*Sci. 500x Science in the Elementary Curriculum*
East Pembroke.....*Sci. 501x Field Studies in Science I*
Williamsville.....*Sci. 500x Science in the Elementary Curriculum*
Iroquois Central School (Elma).....*S.S. 521x Contemporary Social Problems*
West Seneca.....*S.S. 515x Studies in American Colonial History*

STATE UNIVERSITY OF NEW YORK Central Administrative Office: Albany 1, N. Y.

LIBERAL ARTS COLLEGE Harpur College at Endicott

MEDICAL COLLEGES State University Downstate Medical Center in New York City State University Upstate Medical Center in Syracuse

TEACHERS COLLEGES State University College for Teachers at Albany State University Teachers College at Brockport State University College for Teachers at Buffalo State University Teachers College at Cortland State University Teachers College at Fredonia State University Teachers College at Geneseo State University Teachers College at New Paltz State University Teachers College at Oneonta State University Teachers College at Oswego State University College on Long Island at Oyster Bay State University Teachers College at Plattsburgh State University Teachers College at Potsdam

OTHER PROFESSIONAL COLLEGES State University College of Forestry at Syracuse University State University Maritime College at Fort Schuyler State University College of Ceramics at Alfred University New York State College of Agriculture at Cornell University New York State College of Home Economics at Cornell University New York State School of Industrial and Labor Relations at Cornell University New York State Veterinary College at Cornell University

AGRICULTURAL AND TECHNICAL INSTITUTES State University Agricultural and Technical Institute at Alfred State University Agricultural and Technical Institute at Canton State University Agricultural and Technical Institute at Cobleskill State University Agricultural and Technical Institute at Delhi State University Agricultural and Technical Institute at Farmingdale State University Agricultural and Technical Institute at Morrisville

COMMUNITY COLLEGES (Locally-sponsored two-year colleges under the program of State University) Auburn Community College at Auburn Bronx Community College at New York City Broome Technical Community College at Binghamton Corning Community College at Corning 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

