

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

1960

College Catalog, 1960-1961, Extension

Buffalo State College

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



Part of the [History Commons](#)

Recommended Citation

"College Catalog, 1960-1961, Extension." Academic Catalogs, 1871-2018. Archives & Special Collections Department, E. H. Butler Library, SUNY Buffalo State.

<https://digitalcommons.buffalostate.edu/buffstatecatalogs/122>

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

GARA
FALLS

1.

15.

16.

17.

18.

19.

F
GRAD.
DIV.



State University of New York

COLLEGE OF EDUCATION

at BUFFALO

BULLETIN

1960-1961

Extension Graduate Catalog

STATE UNIVERSITY OF NEW YORK

The State University of New York was established by the State Legislature in 1948. It comprises 47 colleges. Twenty-eight of them are State colleges and 19 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; science, mathematics, and engineering; 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. Students should write directly to the institution in which they are interested for admission forms.

Although State University of New York is one of the largest state universities 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."

TABLE OF CONTENTS

STATE UNIVERSITY OF NEW YORK

COLLEGE OF EDUCATION
AT BUFFALO

BULLETIN

August 1960

EXTENSION--GRADUATE CATALOG

1960-1961

GRADUATE DIVISION

and

UNDERGRADUATE CLASSES

STATE UNIVERSITY COLLEGE OF EDUCATION BULLETIN
VOLUME XXVIII NUMBER 4

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

Registered 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

	Page
STATE UNIVERSITY OF NEW YORK	2
Board of Trustees	3
State University	3
THE COLLEGE	4
Local Council	4
Administration	4
THE EXTENSION DIVISION	5
Administrative Staff	5
Calendar 1960-61	6
Registration Procedures	7
General Information	8
Special Information for Undergraduate Students	9
THE GRADUATE DIVISION—EXTENSION SESSION 1960-1961	10
Requirements for Admission to Graduate Division	10
Procedures before Registration	11
Appointment of Adviser	11
Admission to Candidacy	12
Requirements for Master of Science Degree	12
Special Students	13
Tuition Fees	13
GRADUATE CURRICULA	14
Art Education	14
Early Secondary Education	14
Elementary Education	18
Elementary Principalship and/or Supervision	19
Exceptional Children Education	19
Home Economics Education	21
Industrial Arts Education	22
Intensive Teacher Training Program	22
EXTENSION DIVISION SCHEDULE	25
Graduate Division Classes 1960-61	25
Proposed Graduate Division Classes 1961-62	28
Undergraduate Course Offerings 1960-61	31
Course Descriptions	32
Off-Campus Extension	63

STATE UNIVERSITY OF NEW YORK

BOARD OF TRUSTEES

FRANK C. MOORE, LL.B., L.H.D., LL.D., <i>Chairman</i>	Buffalo
MRS. JOHN A. WARNER, <i>Vice-Chairman</i>	New York City
ALGER B. CHAPMAN, A.B., LL.B.	Pawling
MRS. BETTY HAWLEY DONNELLY	New York City
CHARLES GARSIDE, B.S., LL.B., L.H.D., LL.D.	New York City
BOYD E. GOLDER	Utica
LESTER B. GRANGER, A.B., D.H.L., LL.D.	New York City
FREDERICK F. GREENMAN, A.B., LL.B.	New York City
JAMES GREENOUGH, A.B., M.D.	Cooperstown
SAMUEL HAUSMAN	Great Neck
MORRIS IUSHEWITZ	Mount Vernon
JOSEPH J. MYLER, B.A., M.A.	Rochester
JOHN A. ROOSEVELT, A.B.	Hyde Park
JAMES J. WARREN	Albany
DON J. WICKHAM, B.S.	Hector

President of the University

THOMAS H. HAMILTON, AB., A.M., Ph.D.

Secretary of the University

J. LAWRENCE MURRAY

*Executive Dean for Teacher Education*HERMANN COOPER, A.B.,
Mus.B., A.M., Ph.D.,
LL.D.

THE COLLEGE

LOCAL COUNCIL

	Term Expires
MRS. JAMES H. RICHTER, <i>Chairman</i>	1963
JOSEPH L. FINK	1961
JOSEPH F. HIGGINS	1966
PATRICK HODGSON	1967
DAVID J. LAUB	1960
MRS. JAMES C. LYTLE	1965
PHILIP W. PATTI	1964
MRS. HENRY Z. URBAN	1968
MRS. GEORGE V. WALKER	1962

ADMINISTRATION

PAUL G. BULGER, B.S., M.S., Ed.D.	<i>President</i>
ROBERT W. MACVITTIE, B.E., M.A., Ed.D.	<i>Dean</i>
STANLEY A. CZURLES, B.F.A., M.F.A., Ph.D.	<i>Director of Art Education</i>
KATHERYNE T. WHITTEMORE, A.B., A.M., Ph.D.	<i>Director of Arts and Sciences</i>
LORRAINE A. LANGE, A.B., M.A., Ph.D.	<i>Acting Director of Elementary and Secondary Education Division</i>
HORACE MANN, A.B., A.M., Ph.D.	<i>Director, Exceptional Children Education Division</i>
WILLIAM D. BAKER, B.A., M.A., Ph.D.	<i>Director of General Education Division</i>
ROBERT E. ALBRIGHT, A.B., M.A., Ph.D.	<i>Director of Graduate and Extension Education</i>
MARGARET A. GRANT, B.S., M.S., Ed.D.	<i>Director of Home Economics Education Division</i>

KENNETH W. BROWN, B.S., M.S., Ph.D.
Director of Industrial Arts Education Division

STEVEN GITTLER, B.A., M.A.
*Director of Summer Session and Associate
Director of Graduate and Extension Education*

WILTON PRUITT, B.A., M.A., Ed.D. *Acting Dean of Students*

RUTH SUGARMAN, B.S., M.A., Ed.D. *Principal of Campus School*

DOROTHY E. EELLS, B.S., M.A. *Senior Registrar*

MORTON R. LANE, B.S. *Senior Financial Secretary*

EXTENSION DIVISION

ADMINISTRATIVE STAFF

PAUL G. BULGER, B.S., M.S., Ed.D. *President*

ROBERT E. ALBRIGHT, A.B., M.A., Ph.D. *Director of Extension,
Director of Graduate Division*

STEPHEN GITTLER, B.A., M.A. *Associate Director of
Graduate and Extension Education*

DOROTHY E. EELLS, B.S., M.A. *Senior Registrar*

MORTON R. LANE, B.S. *Senior Financial Secretary*

1960-61 CALENDAR ON-CAMPUS EXTENSION CLASSES

FIRST SEMESTER

Saturday, Sept. 17	Registration for all on-campus classes; Saturday, Tuesday and Wednesday); 8:45 A.M.-1:00 P.M.
	NO REGISTRATION AFTER THIS DAY
Tuesday, Sept. 20	First Tuesday class sessions; no registrations accepted
Saturday, Sept. 24	First Saturday class sessions; no registrations accepted; only registration day, Saturday, September 17
Saturday, Nov. 26	Thanksgiving recess
Saturday, Dec. 24	Christmas recess
Saturday, Dec. 31	Christmas recess
Saturday, Jan. 7	Saturday classes resume
Saturday, Jan. 21	Final examinations

SECOND SEMESTER

Saturday, Feb. 4	Registration for all on-campus classes; (Saturday, Tuesday and Wednesday); 8:45 A.M.-1:00 P.M.
	NO REGISTRATION AFTER THIS DAY
Tuesday, Feb. 7	First Tuesday class sessions; no registrations accepted
Saturday, Feb. 11	First Saturday class sessions; no registrations accepted; only registration day, Saturday, February 4
Saturday, April 1 & Saturday, April 8	Easter recess
Saturday, April 15	Saturday classes resume
Saturday, June 3	Final Examinations
Sunday, June 11	Commencement

ON-CAMPUS CLASSES REGISTRATION PROCEDURES

NOTE: On-campus registration is limited to ONE DAY each semester; Saturday, September 17 and Saturday, February 4, only.

FIRST SEMESTER

Saturday, September 17 8:45 A.M.—1:00 P.M. *Registration Day*
Registration for all on-campus Extension classes (Tuesday, Wednesday and Saturday).

8:45 A.M. GRADUATE DIVISION

(1) Students who have registered in Graduate courses previously, or have filed the *Application for Admission blank*, to begin work this semester, secure instruction sheet on 2nd Floor Ad. Bldg. and follow directions as indicated.

(2) Students who have not filed *Application for Admission blank* must report to Graduate Division office, Room Adm. 114-5, and complete this application form *before* going to register.

8:45 A.M. UNDERGRADUATE STUDENTS

(1) Undergraduate students must have a written permit to register for courses from the Director of Elementary and Secondary Education. This permit should be obtained before the day of registration and must be presented to be admitted to the registration line.

(2) No undergraduate student may register without this permit.

(3) Undergraduate students who have obtained this permit should then report to the second floor of the Administration Building and follow registration instructions.

1:00 P.M. REGISTRATION CLOSES

Students must be registered and fees paid before leaving the College Saturday, September 17. *There will be no later registration period.* Tuesday, September 20, Wednesday, September 21, and Saturday, September 24, all on-campus classes will meet in their first regular sessions as scheduled. *No registrations will be received.*

SECOND SEMESTER

Saturday, February 4 8:45 A.M.-1:00 P.M. *Registration Day*
Registration for all on-campus Extension classes (Tuesday, Wednesday and Saturday). No registration after Saturday, February 4.

8:45 A.M.-1:00 P.M.

GRADUATE and UNDERGRADUATE students please follow instructions and schedule of registration as listed above for FIRST semester. Students must be registered and fees paid before leaving the College Saturday, February 4. *There will be no later registration period.*

Tuesday, February 7, Wednesday, February 8 and Saturday, February 11, all on-campus classes will meet in their first regular sessions as scheduled. *No registrations will be received.*

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. Extension classes are open to anyone qualified for teaching and to persons seeking certification in the State of New York.
3. Credit granted for the completion of any course in Extension which is to be applied toward the Bachelor of Science or the Master of Science degree, is subject to the approval of the Director of the Division concerned.
4. Extension credit is transferable to other academic institutions in accordance with the regulations of the individual college or university receiving the credit.
5. Off-campus extension classes will be organized in convenient centers when requests received indicate sufficient interest to warrant establishing them. Teacher groups interested in the formation of off-campus courses should contact the Director of Extension as far in advance as possible. A minimum registration of twenty fee paying students will be required for the organization of such off-campus classes.
6. The right is reserved to make, without notice, any necessary changes in the course offerings listed in this bulletin.
7. General questions relating to the Extension program of this College should be sent to Dr. Robert E. Albright, Director of Graduate and Extension Education, State University of New York, Buffalo 22, New York.

SPECIAL INFORMATION FOR
UNDERGRADUATE STUDENTS

1. Formal admission to the College is required of any Extension student who wishes to become a candidate for the Bachelor of Science degree. Application for Admission blanks, as well as an evaluation of the student's record must be secured from the Director of Elementary and Secondary Education. This evaluation is necessary before undergraduate courses can be credited toward the Bachelor's degree and it becomes a planned schedule for the remainder of the student's degree program.
2. Graduates of a two or three year elementary education curriculum in another college should note that off-campus courses offered by this college are not acceptable toward residence requirements for the Bachelor's degree from this College. A minimum of twenty-four semester hours must be earned on campus in Summer Session, Extension program, or regular College session. Any student wishing to attend the regular College session in order to meet residence requirements must apply to the Director of Elementary and Secondary Education Division for admission to the College with advanced credit standing.
3. Graduates of a two or three year elementary education curriculum in *this* College must arrange to register for the last twelve hours of the fourth year on campus in regular College Session, summer session or extension courses.
4. Only students who have graduated from a two or three year elementary education curriculum may complete all of the remaining requirements for the Bachelor's degree through extension classes.
5. Students wishing to register for undergraduate courses to meet certification requirements may enroll in extension classes as *Special Students*. However, credit earned will not necessarily be accepted toward a degree program.
6. A *permit to register* must be secured by all undergraduate students in Elementary Education from the Director of Elementary and Secondary Education before registration in any extension or summer session courses.
7. Undergraduate students in the extension program are held to all academic regulations of the college.

THE GRADUATE DIVISION
EXTENSION SESSION

1960 - 1961

Graduate Curricula

Graduate courses lead to the Master of Science degree with majors in Art Education, Early Secondary Education, Elementary Education, Elementary Administration or Supervision, 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.

Requirements for Admission to Graduate Division

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

1. 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.
2. One of the following:
 - A. 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, or a State University.

- B. An approved Bachelor's Degree and a desire to become certified to teach in New York State under the requirements of the Bureau of Teacher Certification.
- C. 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 Bureau of Teacher Certification, State Education Department, Albany 1, New York.

Procedure Before Registration

1. Secure an Application for Admission blank from the Director of the Graduate Division.
2. Return application, with all data required, before June 1, for registration in the Summer Session; before September 1, for registration in first semester Extension; and before January 1, for registration in the second semester Extension session.
3. Furnish the Graduate Office with an official transcript from the college which granted the Bachelor's degree. (Not necessary for graduates of this college.)
4. Filing of the Application for Admission blank in the Graduate Office constitutes a *permit to register* for a student beginning graduate study.

Full graduate status, however, is dependent upon: (a) completion of all credentials required for admission to the Graduate Division, and (b) approval of the Director of the Graduate Division.

Appointment of an Adviser

1. An adviser cannot be appointed until full graduate status is granted. Full graduate status is dependent upon the completion of all credentials required for admission to the Graduate Division.
2. An adviser must be appointed as soon as 6 semester hours of credit is earned. Therefore, the student should complete credentials and secure full graduate status as soon as possible after application for admission to the Graduate Division is filed.

Admission to Candidacy

Filing an application for admission to candidacy for the Master's degree 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:

1. A cumulative average of B or better in courses presented for graduate credit. No work of D grade will be accepted.
2. A recommendation from the adviser of the candidate to the Director of the Graduate Division.
3. 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

1. 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:

 - A. If they are evaluated as being equal in scope and content to those offered by this college.
 - B. If they form a coherent part of the required program of study.
 - C. If they have been completed within seven years prior to registration at this college.
 - D. If they are of A or B grade. Credits earned at another college with grades of C or D are not accepted for transfer to this college.
2. A cumulative average of B or better in all graduate courses completed in this college. Not more than nine hours of C, and no work of D grade, will be accepted toward the Master's degree.
3. 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.

- A. For graduates of this college—a minimum of twenty hours *in-residence* is required out of the total thirty-two.
- B. For graduates of another college—a minimum of twenty-four credit hours *in-residence* is required out of the total thirty-two.
4. 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.
 - A. 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.
 - B. In Summer Session students are permitted to earn a maximum of two credits for a two-weeks program; three credits for a three-weeks program; six credits for a six-weeks program and eight credits for an eight-weeks program.

Special Students

1. Students not intending to apply for admission to candidacy for the Master's degree, may be permitted to register for courses in the Graduate Division as *special students*, with the understanding that credits earned will not necessarily count toward fulfillment of Master's degree requirements.
2. A special student deciding to matriculate for the Master's degree must request an evaluation of all graduate credits earned, complete the credentials required for full graduate status, and follow a program of graduate study planned by the Director of the Graduate Division to meet curriculum, grade and time-limit requirements.
3. Not more than twelve semester hours may be earned by a special student unless a statement that he does not intend to become a candidate for the Master's degree is filed with the Director of the Graduate Division.
4. An application must be secured and filed in the office of the Graduate Division before registration as a special student.

Tuition Fees

Graduate Division fees are \$15.00 per credit hour.

GRADUATE CURRICULA
ART EDUCATION

COURSES IN TECHNICAL AND RELATED FIELDS.....20-23 SEM. HOURS

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 and an elementary teaching

* Required for Master's degree in Art Education.
** Reserve place three months before registration: Graduate Division Office.

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 provisional 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. 502, 503, 510, 518, 519, 522, 524.

3 hour course in general literature to be chosen from:
Eng. 506, 507, 508, 512, 515, 519.

* 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. Eng. 527 (Required of students extending certification to include Early Secondary English, who have not had English 213.)

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

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

- *Ed. 575 Research Methods and Techniques 2-3 Sem. Hrs.
- Ed. 550 Project 4 Sem. Hrs.
- Ed. 525 Master's Thesis 5 Sem. Hrs.

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

PREREQUISITES 12 SEM. HRS.

Twelve or more semester hours of undergraduate mathematics (chosen by advisement) from the following:

General Mathematics, College Algebra, Plane Trigonometry, Plane Analytic Geometry, Differential Calculus, Integral Calculus.

THE GRADUATE PROGRAM 30-32 SEM. HRS.**

Required Courses: within the area of specialization, Math. 503, 504, 506, 507 12 Sem. Hrs.

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

Professional Courses: 8-11 Sem. Hrs.

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

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

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

- *Ed. 575 Research Methods and Techniques 2-3 Sem. Hrs.
- Ed. 550 Project 4 Sem. Hrs.
- Ed. 525 Master's Thesis 5 Sem. Hrs.

* Reserve place three months before registration: Graduate Division Office.
** 30 semester hours for certification; 32 semester hours for the Master's degree.

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

PREREQUISITES 24 SEM. HRS.

Earth Science 6 Sem. Hrs.

Biology 6 Sem. Hrs.

Physics 6 Sem. Hrs.

Chemistry 6 Sem. Hrs.

THE GRADUATE PROGRAM 30-32 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, Sci. 510.

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

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

- **Ed. 575 Research Methods and Techniques 2-3 Sem. Hrs.
- Ed. 550 Project 4 Sem. Hrs.
- Ed. 525 Master's Thesis 5 Sem. Hrs.

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

PREREQUISITES 21 SEM. HRS.

American History 6 Sem. Hrs.

European History 6 Sem. Hrs.

Geography 3 Sem. Hrs.

Political Science } Minimum of 2 hrs.

Economics } each in 2 fields.

Sociology } 6 Sem. Hrs.

(Substitution may be made for individual requirements provided the deficiency is corrected on the graduate level.)

THE GRADUATE PROGRAM 30-32 SEM. HRS.*

Required Courses: (by advisement) within the area of specialization: 12 Sem. Hrs.

* 30 semester hours for certification; 32 semester hours for the Master's degree.
** Reserve place three months before registration: Graduate Division Office.

- a. In related fields:
 Political Science such as: S.S. 503, 519
 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
 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. 529, Ed. 532 or Ed. 536 (by advisement), S.S. 520
 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

(Effective for students matriculating September 1, 1959. Students registered before September 1, 1959 follow former curriculum)

- REQUIRED PROFESSIONAL COURSES 9 SEM. HRS.
 El. Ed. 501 Seminar in Elementary Education 3 Sem. Hrs.
 El. Ed. Electives (by advisement) 6 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 3-6 SEM. HRS.
 *Ed. 575 Research Methods and Techniques 3 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 8 SEM. HRS.
 Maximum of 16 hours in education courses permitted including research, project, or thesis. *Total requirements: 32 semester hours.*

* Reserve place three months in advance of registration: Graduate Division Office.

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, in courses such as El. Ed. 521 and 551.

REQUIRED PROFESSIONAL COURSES

- El. Ed. 500 Workshop in Elementary Education 12 SEM. HRS.
 El. Ed. 503 Organization of the Elementary School 6 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

- English and/or Social Studies 8-10 SEM. HRS.
 Academic Electives 6 Sem. Hrs.

RESEARCH

- *Ed. 575 Research Methods and Techniques 2-4 Sem. Hrs.
 Ed. 550 Research Project 2-6 SEM. HRS.
 Ed. 525 Master's Thesis 2-3 Sem. Hrs.
 (Each candidate, after conference with his adviser, may select one of the above requirements.) 4 Sem. Hrs.
 6 Sem. Hrs.

UNRESTRICTED ELECTIVES

4-10 SEM. HRS.
Total requirements: 32 semester hours.

EXCEPTIONAL CHILDREN EDUCATION

EDUCATION OF CHILDREN WITH MENTAL RETARDATION

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

- By advisement, from the following:
 Ex. Ed. 520 Speech Correction for Elementary School Teachers 2 Sem. Hrs.
 Ex. Ed. 527 Guidance of Children who are Exceptional 2 Sem. Hrs.
 Ex. Ed. 535 Mental Measurement 2 Sem. Hrs.

* Reserve place three months in advance of registration: Graduate Division Office.

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. 520	Speech Correction for Elementary School Teachers	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.

* Reserve place three months in advance of registration: Graduate Division Office.

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 AND HEARING IMPAIRMENT

PREREQUISITES		16 SEM. HRS.
	Science of Speech and Hearing	3 Sem. Hrs.
	Phonetics	2-3 Sem. Hrs.
	Speech Pathology	6 Sem. Hrs.
	Speech Correction	3 Sem. Hrs.
	Introduction to Audiology	3 Sem. Hrs.
(Substitution may be made for individual requirements provided the deficiency is corrected on the graduate level.)		

THE GRADUATE PROGRAM 32 SEM. HRS.

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

By advisement from the following:

Ex. Ed. 556	Advanced Seminar in Voice and Articulation Disorders	2 Sem. Hrs.
Ex. Ed. 557	Audiometry and Hearing Aids	3 Sem. Hrs.
Ex. Ed. 558	Neuropathologies of Speech	2 Sem. Hrs.
Ex. Ed. 559	Seminar in Stuttering	2 Sem. Hrs.
Ex. Ed. 543	Speech Reading and Auditory Training	3 Sem. Hrs.
Ex. Ed. 560	Advanced Clinic in Speech-Hearing Disorders	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		9-12 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.

HOME ECONOMICS EDUCATION

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

Technical Courses:

- Family Life
- Foods and Nutrition
- Clothing and Textiles
- Equipment

* Reserve place three months in advance of registration: Graduate Division Office.

Management
Housing
Family Finance

Related Courses:
H. Ec. 500 (required)
Evaluation
Electives (by advisement)

****Research:**
*Ed. 575 Research Methods and Techniques, or
H. Ec. 550 Project, or
H. Ec. 525 Thesis

COURSES IN ARTS AND SCIENCES 9-12 SEM. HRS.
Art
English
Science
Social Science
Unrestricted Electives (in Arts and Sciences only)

INDUSTRIAL ARTS EDUCATION

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

Technical Courses: 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 2-6 Sem. Hrs.
Field Studies in Industrial Areas 2-6 Sem. Hrs.

Courses in Related Fields: 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 2-3 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.

* Reserve place three months prior to registration: Graduate Division Office.

** Ed. 575, Research Methods and Techniques, 2-3 Semester Hours; H. Ec. 550, 4 Semester Hours; H. Ec. 525, 6 Semester Hours.

INTENSIVE TEACHER TRAINING PROGRAM

ELEMENTARY TEACHING CERTIFICATION FOR COLLEGE GRADUATES

To help relieve the shortage of elementary teachers the College offers an Intensive Teacher Training Program through which four-year graduates from accredited colleges and universities with little or no teacher training preparation may prepare for teaching in the elementary school. Completion of The Elementary Education Workshop in one Summer Session will entitle the college graduate to a provisional elementary certificate which will be valid so long as the study program is continued. Attendance at two summer sessions in succession is required. Remainder of credits may be completed in either Extension or Summer Session classes. To complete the requirements for the permanent form of elementary certification 30 semester hours of study is required as well as two years of successful full time teaching experience in public elementary schools.

Students in the Intensive Teacher Training Program may earn the Master of Science degree by following regulations for admission to candidacy and meeting all requirements of the Master's degree curriculum in Elementary Education as outlined in this catalog.

All college graduates interested in this program for certification in elementary school teaching, should make application, complete credentials and have a personal interview before May 25, 1961.

Intermediate Grade Group

El. Ed. 500A Workshop in Elementary Education
(Summer Session only) 8 Sem. Hrs.
El. Ed. 510 Seminar in Elementary School Problems 3 Sem. Hrs.
(Emphasis on Science, Mathematics and Language Arts)
El. Ed. 511 Music and Art in the Elementary School 3 Sem. Hrs.
El. Ed. 512 Seminar in Child Development (Summer Session only) 6 Sem. Hrs.
El. Ed. 516 Methods and Materials in the Elementary School 3 Sem. Hrs.
El. Ed. 501 Seminar in Elementary Education 3 Sem. Hrs.
Electives 4 Sem. Hrs.

..... 30 Sem. Hrs.**
*El. Ed. 575 Research Methods and Techniques
(for Master's Degree Candidates) 2 Sem. Hrs.
..... 32 Sem. Hrs.**

* Reserve place three months in advance of registration: Graduate Division Office.
** 30 semester hours for certification; 32 semester hours for the Master's degree.

Kindergarten-Primary Group

El. Ed. 500A	Workshop in Elementary Education (Summer Session only)	8 Sem. Hrs.
El. Ed. 515	Seminar in Early Childhood Education	3 Sem. Hrs.
El. Ed. 522	Psychology of the Pre-School Child	3 Sem. Hrs.
El. Ed. 510	Seminar in Elementary School Problems (Emphasis on Science, Mathematics and Language Arts)	3 Sem. Hrs.
El. Ed. 511	Music and Art in the Elementary School	3 Sem. Hrs.
El. Ed. 512	Seminar in Child Development (Sum- mer Session only)	6 Sem. Hrs.
	Electives	4 Sem. Hrs.
		30 Sem. Hrs.**
*El. Ed. 575	Research Methods and Techniques (for Master's Degree Candidates)	2 Sem. Hrs.
		32 Sem. Hrs.**

* Reserve place three months in advance of registration: Graduate Division Office.

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

EXTENSION DIVISION SCHEDULE
(Saturday—Tuesday—Wednesday)GRADUATE DIVISION CLASSES
1960-1961

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. Dakin
Art 509x	Graduate Studio in Crafts	Dr. Winebrenner
Art 513x	Graduate Studio in Graphic Arts	Mr. O'Connell
El. Ed. 501x	Seminar in Elementary Education	Dr. Crayton
El. Ed. 503x	Organization of the Elementary School	Dr. Kopp
El. Ed. 542x	Seminar in Early Secondary School Curriculum	Dr. King

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

Art 508x	Graduate Studio in Design and Spatial Organization	Mr. Dakin
Art 509x	Graduate Studio in Crafts	Dr. Winebrenner
Art 513x	Graduate Studio in Graphic Arts	Mr. O'Connell
El. Ed. 516x	Methods and Materials in the Elementary School	
El. Ed. 575x	Research Methods and Techniques	Dr. Penn
Eng. 505x	Studies in the Novel	Dr. Gronewold
Ex. Ed. 535x	Mental Measurement	
I.A. 501x	Seminar in Industrial Arts	Dr. Neuthardt
I.A. 509x	History of Industrial Arts Education	Dr. Russell
I.A. 513x	Workshop in Ceramics	Mr. Zielinski
Sci. 527x	Current Research in Science	Dr. Harman
S.S. 512x	United States in Contemporary World Affairs	Dr. Peterson Dr. Rogers
S.S. 521x	Contemporary Social Problems	Dr. Weaver

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

El. Ed. 575x	Research Methods and Techniques	Dr. Barnett
El. Ed. 533x	Workshop in Audio-Visual Education	Dr. Steffen
Eng. 519x	Literature and the World Today	Dr. Baker
Eng. 524x	Realism in American Literature	Dr. Fried
Ex. Ed. 571x	Occupational Skills	Dr. Waagen
H.Ec. 506x	Seminar in Home Management	Miss Adams
H.Ec. 510x	Problems of Housing and Home Furnishing	Dr. Roudebush
I.A. 517Ax	Electronics	Dr. Cook
I.A. 520x	Design in Industrial Arts	

I.A. 524x	Evaluation in Industrial Arts	Dr. Peters
Sci. 501x	Field Studies in Science I	Dr. Laug
S.S. 504x	History of the American Frontier	Dr. Robison
S.S. 519x	Case Studies in Local Government and Politics	Mr. Stone

TUESDAY AFTERNOON: 4:20 P.M. — 6:00 P.M. (2 hours credit)
Ex. Ed. 543x Speech Reading

TUESDAY EVENING: 6:30 P.M. — 8:10 P.M. (2 hours credit)
El. Ed. 575x Research Methods and Techniques Dr. Martorana

TUESDAY EVENING: 6:30 P.M. — 9:00 P.M. (3 hours credit)
Art 505x Seminar in Art Education Dr. Squeri
El. Ed. 505x Evaluation Techniques in the Elementary
School Dr. Sherrie
El. Ed. 510x Seminar in Elementary School Problems
(ITTP students only) Miss Cancannon
Mrs. Sterrett

El. Ed. 546x Teaching of Reading Dr. Lange
Eng. 512Cx Literature of Continental Europe: The
19th Century Dr. Messner
Eng. 514x Children's Literature Mrs. Ganey
Math. 503x The Function Concept Dr. Montgomery
Sci. 500x Science in the Elementary Curriculum Dr. Lampkin
S.S. 515x Studies in American Colonial History Dr. Roesser
S.S. 501Ax Twentieth Century European History: The
Soviet Union Dr. Mason

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 507x Graduate Studio in Drawing and Painting Miss Case
Art 510x Graduate Studio in Photography Mr. Bailey
Art 511x Art in the Elementary Curriculum Mr. McCracken
El. Ed. 501x Seminar in Elementary Education
El. Ed. 521x Elementary School Curriculum (Will
apply toward Permanent Form Certification in
Principalship or Supervision) Dr. Milanovich
El. Ed. 531x Supervision of Teaching Dr. Hedden
Ed. 532x Early Secondary School Education Dr. Carroll
Sci. 510x Teaching of Science in the Secondary
Schools Mr. Scheffler

SATURDAY MORNING: 9:00 A.M. — 10:40 A.M. (2 hours credit)
Art 507x Graduate Studio in Drawing and Painting Miss Case
El. Ed. 575x Research Methods and Techniques Dr. Penn

Eng. 511Ax Studies in the Poetry of the Victorian
Period Dr. Gragg
Eng. 518x Major American Poets Dr. Klomp
I.A. 502x Field Studies Related to Industrial Arts Education
I.A. 519x New Methods and Techniques in Wood-
working Dr. Callan
I.A. 528x Industrial Arts Curriculum
Geo. 503x Studies in Resource Conservation Dr. Eckert
Sci. 518x Human Biology Miss Dupre
Sci. 531x Historic Geology of New York State Dr. Tesmer
S.S. 501x Studies in Twentieth Century European
History Dr. Rogers

SATURDAY MORNING: 10:50 A.M. — 12:30 P.M. (2 hours credit)
El. Ed. 517x Teaching of Language Arts in the Ele-
mentary School Dr. Eddins
El. Ed. 575x Research Methods and Techniques Dr. Barnett
Eng. 527x Early Secondary Literature Dr. Sherwin
H.Ec. 500x Seminar in Home Economics Education
H.Ec. 512x Workshop in Household Equipment
I.A. 507x School Shop Planning Dr. Ball
I.A. 521x New Methods and Techniques in Metal
Working Dr. Fontanna
I.A. 530x New Techniques in Graphic Arts Mr. Bowers
S.S. 505x Studies in Contemporary Economic Problems Mr. Falk
S.S. 506x Minority Groups in American Culture Dr. Hollister

TUESDAY AFTERNOON: 4:20 P.M. — 6:00 P.M. (2 hours credit)
Ex. Ed. 539x The Gifted Child
Ex. Ed. 591x Nature and Needs of Children who Present
Exceptional Problems of Learning

TUESDAY EVENING: 6:30 P.M. — 8:10 P.M. (2 hours credit)
El. Ed. 575x Research Methods and Techniques Dr. Quaal
Ex. Ed. 561x Occupational Education

TUESDAY EVENING: 6:30 P.M. — 9:00 P.M. (3 hours credit)
Art 506x Seminar in Contemporary Art Mr. Green
Ed. 506x Philosophy of Education Dr. Wells
El. Ed. 511x Music and Art in the Elementary School
(ITTP students only)
El. Ed. 527x Problems in Educational Services for Young
Children Miss Jamison
Eng. 502x Studies in American Literature Dr. Gronewold
Eng. 506x Studies in the Modern Drama Dr. Greenwood
S.S. 509x Local History: Research Methods and
Techniques Dr. Brunger
S.S. 516x International Relations and the World
Today Dr. E. Brown

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

PROPOSED GRADUATE DIVISION CLASSES
1961-1962

First Semester

- SATURDAY MORNING: 9:00 A.M. — 11:30 A.M. (3 hours credit)
- Art 507x Graduate Studio in Drawing and Painting Mr. Davidson
Art 508x Graduate Studio in Design and Spatial Organization Mr. Brett
Art 512x Graduate Studio in Sculpture Mr. Stark
El. Ed. 501x Seminar in Elementary Education Dr. Crayton
El. Ed. 504x Administration in the Elementary School Dr. Kopp
El. Ed. 507x General School Administration Dr. Milanovich
Ed. 536x Early Secondary School Problems
- SATURDAY MORNING: 9:00 A.M. — 10:40 A.M. (2 hours credit)
- Art 508x Graduate Studio in Design and Spatial Organization Mr. Brett
El. Ed. 516x Methods and Materials in the Elementary School Dr. Penn
El. Ed. 575x Research Methods and Techniques Dr. Klomp
Eng. 526x The English Language Dr. Klomp
Ex. Ed. 535x Mental Measurement Dr. Neuhardt
I.A. 501x Seminar in Industrial Arts Mr. Steinzor
I.A. 513x Workshop in Ceramics Dr. Russell
I.A. 523x Industrial Arts in the Elementary School Dr. Russell
Sci. 500x Science in the Elementary Curriculum
Sci. 527x Current Research in Science Dr. Roesser
S.S. 515x Studies in American Colonial History Dr. Roesser
S.S. 518x Contemporary European Political Movements Dr. E. Brown
- SATURDAY MORNING: 10:50 A.M. — 12:30 P.M. (2 hours credit)
- El. Ed. 575x Research Methods and Techniques Dr. Barnett
Eng. 523x Shakespearean Comedy Dr. Fried
Ex. Ed. 571x Occupational Skills Dr. Stewart
H.Ec. 503x Family Relationships Dr. Roudebush
H.Ec. 516x Family Clothing Dr. Peters
I.A. 524x Evaluation in Industrial Arts Mr. Capiello
I.A. 526x Advanced Drafting
I.A. 528x Industrial Arts Curriculum
Sci. 501x Field Studies in Science I
S.S. 501Ax Studies in Twentieth Century European History (The German Problem) Dr. Mason
S.S. 520x Workshop in Methods and Materials in the Social Studies Dr. Sexton
- TUESDAY AFTERNOON: 4:20 P.M. — 6:00 P.M. (2 hours credit)
- Ex. Ed. 538x Understanding the Problem Child Mr. Hallowitz
- TUESDAY EVENING: 6:30 P.M. — 8:10 P.M. (2 hours credit)
- El. Ed. 575x Research Methods and Techniques Dr. Martorana
Ex. Ed. 558x Neuropathologies of Speech

- TUESDAY EVENING: 6:30 P.M. — 9:00 P.M. (3 hours credit)
- Art 511x Art in the Elementary Curriculum Mr. Glover
El. Ed. 510x Seminar in Elementary School Problems (ITTP students only) Miss Concannon
Mrs. Sterrett
El. Ed. 523x Principles and Practices of Guidance
Eng. 503x American Regional Literature Dr. Sherwin
Eng. 521x Studies in Modern British Poetry Dr. Drew
S.S. 505x Studies in Contemporary Economic Problems Mr. Boyd
S.S. 521x Contemporary Social Problems Mr. Foladare

Second Semester

- SATURDAY MORNING: 9:00 A.M. — 11:30 A.M. (3 hours credit)
- Art 509x Graduate Studio in Crafts
Art 516x Graduate Studio in Advertising and Design Mr. Wise
El. Ed. 501x Seminar in Education
El. Ed. 530x Principles of Supervision Dr. Kopp
El. Ed. 551x Problems in Supervision Dr. Hedden
Ed. 529x Adolescent Psychology Dr. Carroll
Ed. 536x Early Secondary School Problems and Methods
- SATURDAY MORNING: 9:00 A.M. — 10:40 A.M. (2 hours credit)
- Art 509x Graduate Studio in Crafts
Art 516x Graduate Studio in Advertising and Design Mr. Wise
El. Ed. 517x Teaching the Language Arts Dr. Ware
El. Ed. 533x Workshop in Audio-Visual Education Dr. Steffen
El. Ed. 575x Research Methods and Techniques Dr. Penn
Eng. 509x Studies in Prose and Poetry of Milton Dr. Gronewold
Eng. 524x Realism in American Literature Dr. Fried
I.A. 517Bx Electronics Dr. Cook
I.A. 519x New Methods and Techniques in Woodworking Dr. Callan
I.A. 530x New Techniques in Graphic Arts Mr. Bowers
Math. 500x Mathematics in the Elementary School
Sci. 518x Human Biology Miss Dupre
Sci. 531x Historical Geology of New York State Dr. Tesmer
S.S. 511x Problems of Contemporary England Dr. Robison
S.S. 513x Social and Intellectual History of the United States Dr. Weaver
- SATURDAY MORNING: 10:50 A.M. — 12:30 P.M. (2 hours credit)
- El. Ed. 575x Research Methods and Techniques Dr. Barnett
Eng. 514x Children's Literature Mrs. Ganey
H.Ec. 504x Problems in Food and Nutrition Miss Buddenhagen
H.Ec. 515x Homemaking Education for Adults
I.A. 507x School Shop Planning Dr. Ball
I.A. 520x Design in Industrial Arts
I.A. 521x New Methods and Techniques in Metal Working Dr. Fontanna

Math. 500x Mathematics in the Elementary Curriculum
 Sci. 503x Ecology _____ Dr. Urban
 S.S. 506x Minority Groups in American Culture _____ Dr. Hollister

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

Ex. Ed. 520x Speech Problems of Children
 Ex. Ed. 591x Nature and Needs of Children who Present
 Exceptional Problems of Learning

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

El. Ed. 575x Research Methods and Techniques _____ Dr. Quaal
 Ex. Ed. 539x The Gifted Child
 Ex. Ed. 556x Advanced Seminar in Voice and Articulation
 Problems
 Ex. Ed. 561x Occupational Education

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

Art 502x Art Education Today _____ Mr. Lofgren
 Art 515x Graduate Studio in Community and Home
 Planning _____ Dr. Lindemann
 El. Ed. 506x Philosophy of Education _____ Dr. Wells
 El. Ed. 511x Music and Art in the Elementary School
 El. Ed. 527x Problems in the Educational Services for
 Young Children _____ Miss Jamison
 El. Ed. 546x The Teaching of Reading _____ Mr. Edwards
 Eng. 507x The Modern Novel _____ Dr. Greenwood
 Eng. 520x Shakespearean Tragedy _____ Dr. Gragg
 S.S. 500x Studies in Twentieth Century American
 History _____ Dr. R. Brown
 S.S. 519x Case Studies in Local Government and Politics

UNDERGRADUATE COURSE OFFERINGS 1960-1961

(Additional classes will be organized if need arises)
 First Semester

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

Eng. 348x Creative Dramatics _____ Miss Piquette
 G.S. 104x Ways of Knowing _____ Dr. La Morte
 Mus. 305x Music for Children II
 S.S. 306x American History 1865-1960 _____ Dr. Brunger

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

Art 400x Workshop in Crafts _____ Mr. Jiskra
 Ed. 310x Evaluation _____ Mr. Dodd
 Eng. 304x American Literature _____ Miss Norenberg
 Sci. 410x Field Studies in Science _____ Dr. Laug

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

Eng. 402x Contemporary Literature _____ Dr. Drew

Second Semester

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

I.A. 303x Industrial Arts for the Elementary
 School _____ Mr. Romaniuk
 Math. 303x Mathematics in the Elementary Grades _____ Dr. Rodney
 Sci. 306x Botany
 S.S. 402x Sociology _____ Mr. Foladare

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

Ed. 402x Seminar in Elementary Education _____ Mr. McComb
 Eng. 210x Children's Literature _____ Miss Piquette
 H.Ed. 402x Health Protection _____ Mr. Katzman
 S.S. 202x Contemporary Civilization _____ Mr. Robison

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

S.S. 301x American Civilization and Government _____ Dr. Roesser

COURSE DESCRIPTIONS

The following is a complete list of graduate courses offered at this College. Credit hours for courses listed will be indicated only for special Workshops and Seminars. In all other cases credit will be three semester hours in Summer Session and two or three semester hours in on-campus and off-campus extension. For exact credit to be earned see summer session and extension schedules for the term in question.

GRADUATE COURSES IN ART EDUCATION

ART 501. WORKSHOP IN ART EDUCATION MATERIALS, PROCESSES, AND PROCEDURES—Analysis and experiment with materials and processes significant to community, school, and group activities.

ART 502. ART EDUCATION TODAY—Study of contemporary programs, beliefs, practices, problems in art education and their relationship to trends in general education.

ART 503. WORKSHOP IN USING THE VISUAL LANGUAGE—Psychological basis of composition with the visual elements: lines, forms, colors, textures, lights and motions; visual composition in any material for any given purpose such as: photography; the designing of projects for class, shop or home; production of visual aids; layout of school publications; arrangement of displays.

ART 504. 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.

ART 505. 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.

ART 506. 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.

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

ART 508. 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.

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

ART 510. 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.

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

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

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

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

ART 515. GRADUATE STUDIO IN COMMUNITY AND HOME PLANNING—Functional, aesthetic, geographic, economic, social and political factors affecting design of home, school and community; designing and re-designing homes, special facilities, communities.

ART 516. GRADUATE STUDIO IN ADVERTISING AND ILLUSTRATION—Development of explicit communications in illustration and design using realistic, experimental, and expressive approaches; preparation of art work for illustration, reproduction, and publication in magazines, newspapers or books; investigation of materials and techniques in black and white, color, line and tone, particularly suited to reproduction standards.

ART 517. HISTORIC AND CONTEMPORARY ART IN EUROPE—Architecture, painting, sculpture, crafts, and city planning in Germany, France, Austria, Italy, the Netherlands and Belgium; given in conjunction with the Experiment in International Living; to include three weeks in residence with a European family. *Eight weeks. Credit: eight semester hours.*

ART 520. ART CAMP—A two-week post-summer session camp; creative activity in casein, oil and watercolor painting; photography; mobile, plaster, stone, wire and wood sculpture; sketching. Elective for students of all Divisions. Twenty-five hours a week for two weeks.

ART 525. THESIS—An individual investigation of an original problem to be submitted in typewritten form according to the directions given by the Graduate Division.

ART 526. SPECIAL PROJECT—Research along a particular line of one's specialization.

ART 550. PROJECT—A study undertaken by one or more individuals on a problem of special interest; must be submitted in acceptable form according to directions given by the graduate Division.

GRADUATE COURSES IN EDUCATION

EL.ED. 500. WORKSHOP IN ELEMENTARY EDUCATION—Problems encountered in the elementary schools, selected by members of workshop general seminar technique, observation in the Summer Demonstration School. Required of Elementary Education students for Master of Science. Enrollment limited.

EL.ED. 500A. WORKSHOP IN ELEMENTARY EDUCATION—Child development; elementary school methods and materials; preparation of an individual report; experience with children in the Campus School. Required of students in the Intensive Teacher Training Program.

EL.ED. 501. 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.

EL.ED. 503. 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.

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

EL.ED. 505. 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.

ED. 506. 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.

ED. 507. GENERAL SCHOOL ADMINISTRATION—Principles of school administration; historical beginnings; national, state, and local responsibilities for education; district, township, and county administrative units; boards of education; school services: health, supervision, research, library, and attendance; teacher selection, salary, tenure, in-service education; school building programs.

ED. 508. SUPERVISION OF STUDENT TEACHING—Responsibilities of elementary school sponsor teachers; lesson and unit planning; supervision, observation, participation, conferences; teacher-pupil relationships; teacher evaluation. Elective for sponsor teachers. *Credit: two semester hours.*

ED. 509. PERSONALITY ADJUSTMENT IN THE ELEMENTARY SCHOOL—Dynamics of human behavior; prevention of maladjustment; corrective programs; formation of habits and attitudes; recent clinical research. Open to graduate students and undergraduate experienced teachers.

EL.ED. 510. 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.

EL.ED. 511. 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.

EL.ED. 512. SEMINAR IN CHILD DEVELOPMENT—Growth and development of elementary school children; guiding child growth in the mental, social, physical and emotional areas; individual and group work on specialized problems; field trips; observations in classrooms. Required of all students in the Intensive Teacher Training Program. Prerequisite: EL.Ed. 500A.

ED. 513. ELEMENTARY STATISTICAL METHODS—Discussion of measurement, continuous series, frequency distribution and graphic description, presentation of data in tables, measures of relative position, symbolism averages, measures of variability, and normal distribution.

ED. 514. DIAGNOSTIC AND REMEDIAL TECHNIQUES IN ELEMENTARY SCHOOL SUBJECTS—Studies of current practices, concepts and principles governing individual problems of learning in elementary school subjects; tests, research techniques of diagnosing children's abilities, procedures to remedy learning problems.

EL.ED. 515. SEMINAR IN EARLY CHILDHOOD EDUCATION—Curriculum development for children from three to eight; current problems and research; instructional materials and procedures; equipment; school, home, and community relationships; evaluating children's progress: "action research" on individual school problems. Open to graduate student and undergraduate experienced teachers.

EL.ED. 516. METHODS AND MATERIALS IN THE ELEMENTARY SCHOOL—School curriculum in language arts, social studies, numbers, science; evaluation procedures. Open to graduate students and undergraduate experienced teachers.

EL.ED. 517. TEACHING THE LANGUAGE ARTS IN THE ELEMENTARY SCHOOL—Recent research in spelling, written communication, oral communication, reading, creative writing, listening skills; implications for creating learning experiences for children; developing a language arts program. Open to graduate students and undergraduate experienced teachers.

ED. 518. STUDIES IN HUMAN GROWTH AND DEVELOPMENT—Research in child and adolescent growth; changing concepts in mental, emotional, social and personality growth; planning, executing and evaluating "action research." Open to graduate students and undergraduate experienced teachers.

ED. 519. APPLIED MENTAL HYGIENE—Principles of mental hygiene and their application to personality development, emotional and social adjustment, and human relationships; application of mental hygiene principles to the processes of teaching, pupil learning, classroom management, and conduct of the teacher in lay and professional relationships.

EL.ED. 520. WORKSHOP IN ELEMENTARY SCHOOL ADMINISTRATION AND SUPERVISION—Selection, induction and guidance of new teachers; development of school-community relations; curriculum improvement; adjustment of school facilities to increasing enrollments; in-service education of staff personnel; elementary school problems suggested by the group. Open to principals, supervisors and experienced teachers preparing for certification.

EL.ED. 521. THE ELEMENTARY SCHOOL CURRICULUM—Review of child nature, learning processes, purposes of the elementary school; conflicting philosophies and principles of curriculum development; types of curriculum organization; transitional steps; methods and materials, creative activities; mental health; community resources; individual differences. Will apply toward permanent form of certification in Principalship or Supervision.

EL.ED. 522. PSYCHOLOGY OF THE PRE-SCHOOL CHILD—Motor, language, social, emotional and intellectual development from infancy through early school years; influence of physical, social and cultural environment; observation of children. Open to graduate students and undergraduate experienced teachers.

EL.ED. 523. PRINCIPLES AND PRACTICES OF GUIDANCE—A basic course designed for teachers, guidance directors and counselors; basic guidance services and techniques.

ED. 524. TECHNIQUES OF COUNSELING—Factors in the counseling situation, tools and techniques of counseling, types of interviews and related aspects of counseling programs.

EL.ED. 525. THESIS—An individual investigation of an original problem to be submitted in typewritten form according to directions given by the Graduate Division.

ED. 526. SPECIAL PROJECT—Work planned and carried out by student with guidance of instructor.

ED. 527. PROBLEMS IN EDUCATIONAL SERVICES FOR 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 instructor.

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

ED. 529. 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. Prerequisite: six semester hours in Child Development or its equivalent and the baccalaureate degree.

EL.ED. 530. 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.

EL.ED. 531. SUPERVISION OF TEACHING—Principles of supervision; classroom observation; evaluating teaching; effect of teacher's 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.

ED. 532. 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.

ED. 533. 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 materials and equipment; audio-visual programs in the school; film libraries; ordering of materials; budgets and administration; evaluation of the program.

ED. 536. 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. Prerequisite: baccalaureate degree.

ED. 537. EVALUATION IN THE EARLY SECONDARY SCHOOL—Relationship of evaluation to instructional objectives; selecting, administering, scoring, recording and interpreting standardized and teacher-made instru-

ments for evaluating mental abilities, educational achievements, personality characteristics, interests and aptitudes; diagnosis, guidance, counseling, and improving instruction; organizing programs to provide for individual differences; modern practices in reporting pupil progress; statistical concepts and methods of collecting, tabulating and interpreting data.

ED. 538. COMPARATIVE EDUCATION—Educational problems in a global setting; education as an institution in world affairs; variations in cultural heritage and consequent educational differences; study of education in Great Britain, France, Germany, Mexico, Canada and other major nations in Europe and Asia; services of UNESCO in the field of education.

EL.ED. 539. WORKSHOP IN TEACHING SPANISH IN THE ELEMENTARY GRADES—Spanish conversation; Spanish civilization; observation and participation in a Spanish demonstration class in the Campus School; evaluation of text materials and other teaching aids. Open to qualified graduates and undergraduates.

ED. 540. SEMINAR IN INTERNATIONAL EDUCATION—Scheduled trips to International Educational organizations, Swiss schools and camps; week end excursions; individual research projects; participation at annual International Education Conference at the Palace Wilson and International School at Geneva. Open to graduate and advanced undergraduate students.

ED. 541. SOCIAL FOUNDATIONS OF EDUCATION—Relationships of school to society; contemporary social problems affecting education, social groups and institutions; school and community relations; national, state and community organizations affecting educational programs and the development of social understandings in pupils.

ED. 542. 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 development; financing, organizing, scheduling, and supervising extra-curricular activities; bases for determining extent and type of student participation in school management.

ED. 546. 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.

ED. 547. CORE PROGRAMS IN THE EARLY SECONDARY SCHOOL—Nature of block-of-time and core programs, teacher-pupil planning,

preparation of resource units, guidance and evaluation procedures. Open to experienced teachers and graduate students.

ED. 548. WORKSHOP IN FRENCH IN THE ELEMENTARY GRADES—French conversation, French civilization, observation and participation in a French demonstration class in the Summer Campus School. Open to graduates and qualified undergraduates with consent of the director.

ED. 549. WORKSHOP IN COMMUNITY RESOURCES—Study of the utilization of the potential teaching resources of the community; educational, cultural, economic, and governmental institutions and what these may offer to a teaching situation; field trips and lectures by community leaders.

ED. 550. PROJECT—A study undertaken by one or more individuals on a problem of special interest; must be submitted in acceptable form according to directions given by the Graduate Division.

EL.ED. 551. PROBLEMS IN ELEMENTARY SCHOOL SUPERVISION—Designed to help the student specializing in supervision gain depth in understanding the problems involved in supervision and to gain greater insight in regard to the use of related skills and knowledge in solving them, as well as to broaden his knowledge of the literature and research in the field of supervision. Will apply toward permanent form of certification in Supervision.

ED. 566. SAFETY EDUCATION—Kinds and frequency of accidents; psychology in accident prevention; safety in home, school, shop, playground and community; water, traffic and fire safety; recreation safety; poisons and emergency treatment; effect of narcotics; teaching safety in the public schools.

ED. 567. DRIVER EDUCATION—Behind-the-wheel instruction of a trainee driver; traffic and pedestrian safety; psycho-physical testing; traffic law; accident statistics; accident prevention; traffic engineering; liability; insurance interpretation; effects of alcohol; maintenance of an automobile; cooperating agencies; special research project. Required for certification to teach Driver Education in New York.

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

EL. ED. 585. READING CLINIC—Effective teaching procedures to achieve competence in comprehension, facility, word recognition and spelling; identification of reading needs; maladjustments related to reading disability; remedial instruction for specific problems. Open to graduate students and undergraduate experienced teachers.

EL.ED. 590. THE PREPARATION OF LABORATORY SCHOOL TEACHERS—Practical experience in the Summer Campus School in directing work of student teachers through demonstration teaching, planning instruction, conferences, and teacher evaluation; lectures and readings; conferences with staff members and Campus School; preparation of a term paper. Not open to students with credit for EL.ED. 508.

GRADUATE COURSES IN ENGLISH

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

ENG. 501. THE MODERN AMERICAN NOVEL—Outstanding American twentieth century novels; their social and artistic significance.

ENG. 502. 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.

ENG. 503. AMERICAN REGIONAL LITERATURE—Literature of certain geographical and cultural areas of the United States—New England and Eastern, Southern, Western, folkways in American letters, local color and the use of regional materials, particularly in fiction.

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

ENG. 505. STUDIES IN THE NOVEL—The novel in England, especially in the Nineteenth Century; major novelists.

ENG. 506. STUDIES IN THE MODERN DRAMA—Renascence of drama in Europe and America: Ibsen and the play of ideas; realism, naturalism, symbolism, sociological drama.

ENG. 507. THE MODERN NOVEL—Outstanding American and English twentieth century novels; their social and artistic significance.

ENG. 508. LITERATURE OF GREECE AND ROME—Reading in English translation and discussion of selected masterpieces; relationship to later literature in English and other modern languages.

1
ENG. 509. STUDIES IN THE PROSE AND POETRY OF MILTON—An intensive study of the most important prose and poetry of Milton with particular emphasis on *Paradise Lost*; the background of Milton's writings. Consent of instructor required.

11
ENG. 510. EMERSON, THOREAU AND THE TRANSCENDENTALISTS—Writings of Emerson and Thoreau against the background of European and American transcendentalism.

16
ENG. 511A. STUDIES IN THE POETRY OF THE VICTORIAN PERIOD—Major Victorian poets, with emphasis on Tennyson and Browning; social, political, and intellectual background of the times.

ENG. 511B. 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.

17.
ENG. 512A. LITERATURE OF CONTINENTAL EUROPE: THE MIDDLE AGES—Reading in English translation representative works of the Middle Ages; importance of this literature as source material for more recent writers.

ENG. 512B. LITERATURE OF CONTINENTAL EUROPE: THE RENAISSANCE—Petrarch, Boccaccio, Machiavelli, Castiglione, Ariosto, and their relation to the literature of England.

18.
ENG. 512C. LITERATURE OF CONTINENTAL EUROPE: THE NINETEENTH CENTURY—Reading in English translation of selected masterpieces; Rousseau and his disciples; romantic poetry, fiction and drama; realism, naturalism and symbolism in the various types of literature.

19.
ENG. 513. SEMINAR-TOUR IN AMERICAN LITERATURE—Study of major American writers before 1900 including a tour of locales associated with their lives and work. Study four weeks; tour two weeks. *Credit: two or three semester hours.*

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

ENG. 515. PHILOSOPHIC ASPECTS OF LITERATURE—Major movements in English and American literature from the perspective of philosophy; literature as a source of ideas; the representation of social, political, religious, and ethical ideals in poetry, fiction, and drama.

ENG. 516. STUDYTOUR OF WESTERN EUROPE—Six weeks study-tour including Holland, Germany, Austria, Italy, Switzerland and France. Graduate credit may be earned by writing reports on certain aspects of the studytour.

ENG. 518. 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.

ENG. 519. 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.

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

ENG. 521. 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, Masfield, and Thomas.

ENG. 522. STUDIES IN MODERN AMERICAN POETRY—Significant trends and figures in American poetry since 1912; emphasis upon the work of two writers from the following group: Robinson, Frost, Millay, Eliot, Crane, Benet, and Jeffers.

ENG. 523. 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.

ENG. 524—REALISM IN AMERICAN LITERATURE—Realistic writers of the late 19th century; Howells, James, Clemens, Crane, Norris and others.

ENG. 525. THESIS—An individual investigation of an original problem to be submitted in typewritten form according to directions given by the Graduate Division.

ENG. 526. THE ENGLISH LANGUAGE—Historical development of the English language since the 14th century; political and social influences for change; growth of grammatical science and lexicography; contemporary problems of usage; semantics; trends in American English.

ENG. 527. EARLY SECONDARY SCHOOL LITERATURE—Readings in prose and poetry appropriate to the early secondary school; examination of the function of "literature for adolescents" in the early secondary English program. Required of students extending certification to include English in Early Secondary schools who have not had English 213.

ENG. 532. LITERARY CRITICISM—A survey of literary criticism past and present, with exercises in applying the student's critical skill to the study of specific works; individual student emphasis upon the study of a period, author, idea, or literary form.

ENG. 550. PROJECT—Study undertaken by one or more individuals on a problem of special interest; must be submitted in acceptable form according to directions given by the Graduate Division.

ED. 575. RESEARCH METHODS AND TECHNIQUES—See description under Graduate Division, Education Department.

GRADUATE COURSES IN EXCEPTIONAL CHILDREN EDUCATION

EX.ED. 502. WORKSHOP IN EDUCATION OF CHILDREN WITH ORTHOPEDIC HANDICAP—Observation and individual participation in class and orthopedically handicapped children; techniques and materials for academic and non-academic curriculum; class discussions and reports.

EX.ED. 503. CLINICAL PROCEDURES IN SPEECH CORRECTION—An advanced practicum, work under supervision with severely speech handicapped children. Prerequisite: Ex.Ed. 308, 513, 523, 533, or equivalent. *Credit: six semester hours.*

EX.ED. 504. WORKSHOP IN CURRICULUM FOR CEREBRAL PALSIED CHILDREN—Structured to encourage formulation of realistic curriculum for slow-learning cerebral palsied children in the elementary school grade range. Participants will be required to originate curricular proposals, working under guidance provided by workshop specialists. Prerequisites: Ex.Ed. 328 or equivalent. *Credit: six semester hours.*

EX.ED. 506. WORKSHOP IN EDUCATION OF CHILDREN WITH HEARING IMPAIRMENT—Practicum work under supervision with class of children having varying degrees of hearing impairment—from moderate to profound loss. Observation and participation; experimentation in techniques and materials. Summer Session.

EX.ED. 512. SEMINAR IN EDUCATION OF CHILDREN WITH ORTHOPEDIC HANDICAP—Problems of class organization, grouping and

curriculum; educational psychology for the crippled; psychological tests and their interpretation.

EX.ED. 513. SEMINAR IN SPEECH SCIENCE—Anatomy, physics, and physiology of speech, stressing research and experimental studies in the field. Prerequisite: Ex.Ed. 204, 305, 306 and 308 or equivalent.

EX.ED. 520. SPEECH PROBLEMS OF CHILDREN—Types and causes of speech defects and disorders found in elementary school children; methods of treatment of minor disorders by the classroom teacher; some phonetic and speech science; observation of children presenting various speech problems.

EX.ED. 523. 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.

EX.ED. 524. 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. 308 or equivalent.

EX.ED. 525. THESIS—An individual investigation of an original problem to be submitted in typewritten form according to directions given by the Graduate Division.

EX.ED. 527. GUIDANCE OF CHILDREN WHO ARE EXCEPTIONAL—Educational, social and vocational guidance of children who are exceptional because of intelligence, physical development, behavior, speech and hearing.

EX.ED. 530. SURVEY OF EYE CONDITIONS (A)—Consideration and attention given to ocular problems, including the anatomy, physiology and hygiene of the eye together with a study of common eye diseases and refractive errors.

EX.ED. 531. SURVEY OF EYE CONDITIONS (B)—Continuation of Eye Conditions (A); emphasis placed on physiology of the eye and diseases which affect the eye. Prerequisite: Ex.Ed. 530.

EX.ED. 532. WORKSHOP IN EDUCATION OF CHILDREN WITH VISUAL HANDICAP—Practicum work under supervision with class of children having varying degrees of visual impairment—from moderate to profound loss. Observation and participation; experimentation in techniques and materials.

EX.ED. 533. SEMINAR IN SPEECH PATHOLOGY—Research studies in the areas of stuttering, voice defects, cleft palate, and cerebral palsy. Prerequisite: Ex.Ed. 308 or equivalent.

EX.ED. 535. MENTAL MEASUREMENT—Presentation use and interpretation of mental and performance tests; demonstrations; student participation in giving psychometric examinations.

EX.ED. 538. 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.

EX.ED. 539. THE GIFTED CHILD—Study of the nature and needs of children who are gifted; examination of such provisions as acceleration, partial-segregation, enrichment, special classes; criteria for identifying; implications for classroom teacher.

EX.ED. 541. PSYCHOLOGY OF EXCEPTIONAL CHILDREN—Study of common tendencies found in fields of mental retardation and physical handicap; characteristics and implications of tendencies are developed with view to enhancing understandings in these fields.

EX.ED. 543. SPEECH READING—A consideration of the most important methods of teaching speech reading to the hard of hearing child, together with practice in the various techniques. Elective for graduates and undergraduates interested in the child with hearing impairment.

EX.ED. 550. PROJECT—A study undertaken by one or more individuals on a problem of special interest; must be submitted in acceptable form according to directions given by the Graduate Division.

EX.ED. 551. PRACTICUM IN EDUCATION OF CHILDREN WITH MENTAL RETARDATION. (FORMERLY EX.ED. 501. WORKSHOP IN EDUCATION OF CHILDREN WITH RETARDED MENTAL DEVELOPMENT)—Observation and individual participation in a class for children with mental retardation; group discussions and experimentation in techniques and materials.

EX.ED. 556. ADVANCED SEMINAR IN VOICE AND ARTICULATION PROBLEMS—Etiology and treatment of more severe voice and articulation problems. Cleft palate and esophageal speech. Investigation of current research.

EX.ED. 557. AUDIOMETRY AND HEARING AIDS—Study and measurement of hearing. Administration of individual audiometric, speech dis-

crimination and speech reception tests; interpretation audiograms; principles of construction, fitting and use of individual hearing aids.

EX.ED. 558. NEUROPATHOLOGIES OF SPEECH—Neuropathologies of speech etiology and clinical treatment of cerebral palsy, dysarthria, aphasia, and aphasic speech problems.

EX.ED. 559. SEMINAR IN STUTTERING—Investigation of recent research in stuttering. Prerequisite: Speech Disorders II or equivalent.

EX.ED. 560. ADVANCED CLINIC IN SPEECH AND HEARING DISORDERS—Experience in the clinical diagnosis of speech problems and in the application of therapeutic procedures to severe speech problems.

EX.ED. 561. OCCUPATIONAL EDUCATION FOR CHILDREN WITH MENTAL RETARDATION. (FORMERLY EX.ED. 511, SEMINAR IN EDUCATION OF CHILDREN WITH RETARDED MENTAL DEVELOPMENT)—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.

EX.ED. 571. OCCUPATIONAL SKILLS FOR CHILDREN WITH MENTAL RETARDATION. (FORMERLY EX.ED. 521. GUIDANCE OF CHILDREN WITH RETARDED MENTAL DEVELOPMENT)—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.

ED. 575. RESEARCH METHODS AND TECHNIQUES—See description under Education Department, Graduate Courses.

EX.ED. 591. NATURE AND NEEDS OF CHILDREN WHO PRESENT EXCEPTIONAL PROBLEMS OF LEARNING—Examination of the causes, characteristics and implications—educational, social and vocational—of children who are exceptional because of intelligence, physical development, behavior, speech and hearing.

GRADUATE COURSES IN GEOGRAPHY

GEOG. 500. GEOGRAPHY OF EASTERN ASIA—Economic, social and political geography of China, Japan, Korea, eastern U.S.S.R., the Indo-China Peninsula, and the East Indies.

GEOG. 501. STUDIES IN INDUSTRIAL GEOGRAPHY—Selected topics of current importance such as petroleum and world politics, Niagara

power development, coffee in world trade, chemical industry of the Niagara Frontier, production and distribution of strategic materials; field studies of a local area industry.

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

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

GEOG. 504. STUDIES IN THE GEOGRAPHY OF NORTH AMERICA—Utilization of mineral, water, and forest resources; geography of agriculture, manufacturing, transportation, recreation, hemisphere defense, power production; selected topics pertaining to recent changes and current developments.

S.S. 507. FIELD COURSE IN THE HISTORY AND GEOGRAPHY OF NEW YORK—See listing under Social Studies, Graduate Courses.

S.S. 508. FIELD COURSE IN MEXICAN CULTURE—See listing under Social Studies, Graduate Courses.

GEOG. 525. THESIS—An individual investigation of an original problem to be submitted in typewritten form according to directions given by the Graduate Division.

GEOG. 550. PROJECT—A study undertaken by one or more individuals on a problem of special interest; must be submitted in acceptable form according to directions given by the Graduate Division.

ED. 575. RESEARCH METHODS AND TECHNIQUES—See listing under Education Department, Graduate Courses.

GRADUATE COURSES IN HOME ECONOMICS

H.EC. 500. 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.

H.EC. 501. WORKSHOP IN HOME ECONOMICS EDUCATION—Problems in teaching of Home Economics based upon individual needs and interests of workshop participants. Individual conferences; group discussion; joint activities. Prerequisite: one year of teaching experience. *Credit: six semester hours.*

H.EC. 502. THE INDIVIDUAL AND THE FAMILY—A study of personality development in contemporary American family life. Emphasis on the family as an important factor in shaping the growth and adjustment of children, adolescents and adults. Recent research on child development in the family is considered. Designed for teachers who wish a greater understanding of their students and themselves.

H.EC. 503. 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 crisis; attitudes, values, and standards regarding family living.

H.EC. 504. PROBLEMS IN FOODS AND NUTRITION—Recent research developments in foods and nutrition; problems in teaching foods and nutrition to elementary and high school groups; problems related to the individual's teaching situation.

H.EC. 506. SEMINAR IN HOME MANAGEMENT—Newer developments in the field of managing the home; problems met in teaching management in secondary and adult classes; individual work on problems in accordance with student needs.

H.EC. 507. EVALUATION IN HOME ECONOMICS EDUCATION—Techniques and instruments for identifying and appraising progress toward goals in home economics; methods of teaching appropriate to the achievements of these objectives; individual work on problems of evaluation encountered in teaching.

H.EC. 508. WORKSHOP IN ADVANCED CLOTHING—Pattern making and dress design with particular reference to alteration problems met in clothing classes; garments made in class.

H.EC. 509. SEMINAR IN TEXTILES—A study of the newer developments in the field of textiles with particular emphasis on information for the consumer with regard to the selection, utilization and care of modern textiles.

H.EC. 510. PRACTICAL PROBLEMS OF HOUSING AND HOME FURNISHING—Problems related to housing and home furnishings; planning and construction furnishings; field trips.

H.EC. 511. METHODS AND MATERIALS IN THE TEACHING OF FAMILY RELATIONSHIPS—Role playing, panels, types of discussion, appropriate use of films, etc.; collection, critical evaluation, and use of materials for teaching family relationships at the secondary school level. Prerequisite or concomitant: A functional course in family relationships such as H.Ec. 503—Family Relationships.

H.EC. 512. 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.

H.EC. 515. HOMEMAKING EDUCATION FOR ADULTS—A study of recent developments in homemaking education for adults. Discussion of problems which arise in adapting facilities, resources and in the organization of such groups.

H.EC. 516. FAMILY CLOTHING—Purchase, selection, care, and construction of clothing for the family; management of time and money as they relate to clothing problems; trips, speakers, discussions, demonstrations, and work on problems for which the individual feels a definite need.

H.EC. 517. TRENDS IN TEACHING CLOTHING—Interpretation, use and evaluation of present trends in the teaching of clothing construction; emphasis on recent techniques and the importance of time and energy management; equipment which can simplify various construction processes.

H.EC. 519. WORKSHOP IN HOME MANAGEMENT—Consideration of problems of the family in relation to the management of the home; speakers and consultants; home management house will serve as the laboratory.

H.EC. 520. FAMILY FINANCIAL PLANNING—Consideration of family financial problems; alternate choices in the light of family goals and values; examination and evaluation of available materials for use in teaching.

H.EC. 521. WORKSHOP IN JUNIOR HIGH SCHOOL HOMEMAKING CURRICULUM—Offers an opportunity to study the planning of junior high school homemaking curriculum; study of special needs of youth in this age group; discussion of processes in achieving learning at this age level.

H.EC. 523. FIELD EXPERIENCE IN HOME ECONOMICS EDUCATION—Study of the function of home experiences, criteria for evaluating directed home experiences; relationship of homemaking teacher, parents and pupils; community relationships; guidance and evaluation. Prerequisite: The student must be a teacher and must have taught at least one of the courses in the basic sequence, Homemaking 1, 2, 3 (preferably Homemaking 3) the year prior or be a newly hired teacher who is to teach at least one course in the basic sequence the following year. *Credit: two semester hours.*

H.EC. 525—THESIS—An individual investigation of an original problem to be submitted in typewritten form according to directions given by the Graduate Division. *Credit: six semester hours.*

H.EC. 550. PROJECT—An undertaking pursued by one or more students on some problem closely related to the field of special interest. The project must be approved by the student's advisor and by the head of the division or department concerned. *Credit: four semester hours.*

ED. 575. RESEARCH METHODS AND TECHNIQUES—See description under Education Department.

GRADUATE COURSES IN INDUSTRIAL ARTS

I.A. 500. WORKSHOP IN INDUSTRIAL ARTS—Problems in organizing and operating Industrial Arts programs at the elementary, junior, senior high school and adult levels.

I.A. 501. 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.

I.A. 502. 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.

I.A. 503. GUIDANCE SEMINAR IN LIFE ADJUSTMENT EDUCATION—Survey and evaluation of the educational movements leading to the Prosser Resolution; effects of the Life Adjustment Movement upon the schools in the various subject matter areas; implementation of the movement; reports of adaptation plans made in teaching situations.

I.A. 505. WORKSHOP IN INDUSTRIAL ARTS ADULT EDUCATION—A study of the adult education program including the objectives; state and local regulations; reimbursements; establishment of the needs of the community; the part that industrial arts plays in adult education.

I.A. 506. SUPERVISION OF INDUSTRIAL ARTS—Problems and techniques concerning administration and supervision of elementary, secondary and adult programs in industrial arts education at the federal, state, and local levels.

I.A. 507. SCHOOL SHOP PLANNING—Problems involved in planning new industrial arts shops or the remodeling of older shops: space allotments, area planning, service features, selection and placement of equipment, writing specifications, shop plans.

I.A. 508. WELDING—Essentials of metallurgy for ferrous and non-ferrous metals as related to welding; proficiency in gas and electric arc welding, cutting, brazing, silver soldering and hard surfacing with special emphasis on certain non-ferrous metals, high carbon and special alloy steels, stainless and high chromium steels; inspecting and testing welds.

I.A. 509. HISTORY OF INDUSTRIAL ARTS—European antecedents; attempts to introduce technical instruction into American education; Russian Manual Training; Swedish Sloyd System of instruction; the Arts and Crafts Movement; the Manual Arts movement; growth of the vocational concept in America; Industrial Arts as pre-vocational training; the social-economic concept for Industrial Arts; Industrial Arts as the study of industry; Industrial Arts as the study of technology.

I.A. 511. SEMINAR IN INDUSTRIAL COOPERATIVE TRAINING—The organization and development of industrial part-time programs. Determining needs; advisory boards; employment opportunities; analyzing training; training outlines; related work.

I.A. 512. 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.

I.A. 513A. 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.

I.A. 513B. WORKSHOP IN CERAMICS—Advanced design in individual and duplicate methods of production; decoration, glazing and firing; clays, glazes and kilns; individual problems; the school ceramics program. Elective for all students. Prerequisite: I.A. 406 or equivalent, I.A. 513A.

I.A. 514. TECHNIQUES AND DEVICES FOR SHOP LABORATORY—Methods and devices for teaching shop subjects; demonstrations and discussions, conferences, group dynamics; audio-visual equipment; research; and production of devices.

I.A. 515. TRANSPORTATION LABORATORY—Specialized areas of transportation; planning, organization and techniques of operation; projects and problems; evaluation; models, mock-ups and other visual aids.

I.A. 517. 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. 517A, I.A. 517B.

I.A. 519. NEW METHODS AND TECHNIQUES IN WOODWORK—Carving, appliques and inlays; plastic finishes, wood substitutes, wood bleaches and other more recent materials and techniques of the wood industries; individual problems of the in-service teacher.

I.A. 520. 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.

I.A. 521. 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.

I.A. 523. 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.

I.A. 524. 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.

I.A. 525. THESIS—An individual investigation of an original problem to be submitted in typewritten form according to directions given by the Graduate Division. *Credit: six semester hours.*

I.A. 526. ADVANCED DRAFTING—PROBLEMS AND TECHNIQUES—Technical proficiency in specific areas of drafting; the program of drafting in the junior and senior high schools; governmental and industrial drafting standards; conventional and simplified drafting practices; evaluation of pupil progress in technical drawing. Prerequisite: Graduate standing.

I.A. 528. CURRICULUM DEVELOPMENT IN INDUSTRIAL ARTS—Philosophical foundation of Industrial Arts; current social, economic and technological conditions; curriculum patterns and curriculum controls; course of study construction; approaches to teaching; program structure and evaluation.

I.A. 530. NEW TECHNIQUES IN GRAPHIC ARTS—Experimentation in papermaking, ink, photography, half-tones, color separation, photo-engraving; technical proficiencies in offset printing, publications, letterpress printing, silk-screen printing, book-binding. Prerequisite: Graduate standing.

I.A. 550. PROJECT—A study undertaken by one or more individuals on a problem of special interest; must be submitted in acceptable form according to directions given by the Graduate Division. *Credit: four semester hours.*

EL.ED. 575. RESEARCH METHODS AND TECHNIQUES—See description under Education Department.

GRADUATE COURSES IN MATHEMATICS

MATH. 500. 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.

MATH. 502. WORKSHOP IN MATHEMATICS—Selected topics in the field of elementary mathematics analysis of research; individual study of a problem and written report of findings; committee study and reports on problems.

MATH. 503. THE FUNCTION CONCEPT—Relationships, dependence, and the functional approach; linear and quadratic functions; graphs and elementary curve tracing; trigonometric, exponential, and logarithmic functions; linear and exponential trends; differential and integral functions; applications and related problems.

MATH. 504. MATHEMATICS OF FINANCE—Theory and application of formulas; simple and compound interest; annuities; amortization and sinking funds; depreciation; bonds; life annuities and life insurance; related problems.

MATH. 506. HISTORY OF MATHEMATICS—Chronological study of the development of elementary mathematics; national achievements of ages or periods; selected biographies; appraisals and critiques; problem studies.

MATH. 507. FOUNDATIONS OF MATHEMATICS—The axiomatic method; theory of sets and infinite sets; real number system and linear continuum; the complex number system; groups and their significance for the foundations; development of various viewpoints on foundations. Prerequisite: Function Concept.

MATH. 525. THESIS—An individual investigation of an original problem to be submitted in typewritten form according to directions given by the Graduate Division. *Credit: six semester hours.*

MATH. 550. PROJECT—A study undertaken by one or more individuals on a problem of special interest; must be submitted in acceptable form according to directions given by the Graduate Division. *Credit: four semester hours.*

EL.ED. 575. RESEARCH METHODS AND TECHNIQUES—See description under Graduate Division, Education Department.

GRADUATE COURSES IN MUSIC

MUS. 500. MUSIC IN EDUCATION—Public school music education; contributions of various composers and music educators to public school music and to general culture; required readings; listening to records; ideas on school assemblies.

GRADUATE COURSES IN SCIENCE

SCI. 500. 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.

SCI. 501. FIELD STUDIES IN SCIENCE I—Biological and geological field work; selected field studies, both group and individual; intensive studies of one or more areas. Elective for seniors with an average of C in science completed to date. Prerequisites: Biology, 5 sem. hrs., Sci. 191 or G.S. 203-204.

SCI. 502. FIELD STUDIES IN SCIENCE II—Application of scientific principles in a metropolitan community to problems of health and sanitation; industrial and technological applications of science; scientific research on the Niagara Frontier. Required of persons specializing in the teaching of general science; others with permission of instructor. Prerequisite: 18 sem. hrs. credit in biology, chemistry, and physics.

SCI. 503. ECOLOGY—Scientific nature study, including consideration of the relationships between living things and their physical environment; biological relationships between and within species; man's relationships with the natural environment. For graduate students in Elementary Education; others by permission of instructor. Prerequisites: Sci. 101, 201-202, or the equivalent. Lectures, discussion, readings.

SCI. 504. REGIONAL STUDY IN SCIENCE—Field work at Allegheny State Park; out-of-doors science for the teacher; identification of wild flowers, trees, birds, insects, and other living things; relationships between living things and their environment; geology of the Park, and of western New York. Open to graduate and undergraduate students. Prerequisites: Sci. 101, 201-202, or the equivalent.

SCI. 505. CONSERVATION WORKSHOP—A two-week workshop for teachers and administrators; problems of soil, water, forest, wildlife, and mineral conservation; consultation with experts from the State Conservation Department, federal bureaus, and elementary school education; elementary school problems in conservation education; field trips, lectures, discussions, individual research. Open to graduates and undergraduates.

SCI. 508. SCIENCE AND TECHNOLOGY AND THE WORLD TODAY—Selected areas will be studied which exemplify ways in which science profoundly affects the world today and which involve the international relations of the United States.

SCI. 509. RECENT ADVANCES IN SCIENCE AS APPLIED TO HOME ECONOMICS—New developments in control of food poisonings; study of research in nutritive values of proteins; bacteriology and chemistry of frozen foods; effects of food processing on nutrition; recent research in other areas affecting home economics. For graduate students in Division of Home Economics Education only. Lecture, laboratory work.

SCI. 510. TEACHING OF SCIENCE IN SECONDARY SCHOOLS—Current objectives of secondary school science education; selection of subject matter content; methods of teaching; demonstration techniques pupil experimentation and other activities; analysis of textbooks laboratory manuals, audio-visual aids; the role of laboratory and field trip experiences; problems in evaluation. Required for state certification in secondary school science teaching. Prerequisites: Bachelor's degree, 18 sem. hrs. in science.

SCI. 518. 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.

SCI. 523. SCIENCE IN TRANSPORTATION—Application of the principles of physics and chemistry to transportation friction, momentum, inertia, acceleration, fluid pressure, Bernoulli's principle, types of engines, types of fuels, combustion of fuels, atomic energy, and other factors involved in the movement of objects. Prerequisites: Sci. 203-204, 303-304.

SCI. 524. SCIENCE IN OUTDOOR EDUCATION—Application of science to problems in cookery, sanitation, shelter, selection of campsite, safety; emergency foods, map reading and map making; day and night orienteering; ecological interpretation of the environment; conservation of natural resources. Integration of science and outdoor education in the public schools. Prerequisites: Sci. 101, 201-2, or the equivalent. *Several overnight trips.*

SCI. 525. THESIS—An individual investigation of an original problem to be submitted in typewritten form according to directions given by the Graduate Division. *Credit: six semester hours.*

SCI. 526. INDIVIDUAL INVESTIGATION OF AN ORIGINAL PROBLEM IN SCIENCE OR ELEMENTARY SCHOOL SCIENCE EDUCATION—No required class attendance; work to be planned and carried out by student, with consultation and guidance from instructor. For graduate students only.

SCI. 527. CURRENT RESEARCH IN SCIENCE—Study of current research in the various sciences; implications of such research on present and future living; implications of research in science for the early secondary school science curriculum. Prerequisites: Sci. 101, 201-202, 203-204, 303-304, 518.

SCI. 528. SEMINAR IN SCIENCE EDUCATION—Current trends in science education in the public schools; study of research in science education; study of special problems by individual students from their own teaching experience in the early secondary school. Prerequisites: candidacy for extension of certificate to include science teaching in the early secondary school; two years experience teaching science in the early secondary school.

SCI. 531. GEOLOGY OF NEW YORK STATE—Physiography, Stratigraphy, palontology, glacial geology and economic geology of New York State; geologic history of the region. Prerequisites: Sci. 101, or three semester hours in an earth science. Two hours per week, with several field trips.

SCI. 550 PROJECT—A study undertaken by one or more individuals on a problem of special interest; must be submitted in acceptable form according to directions given by Graduate Division. *Credit: four semester hours.*

ELED. 575. RESEARCH METHODS AND TECHNIQUES—See description under Graduate Division, Education Department.

GRADUATE COURSES IN SOCIAL STUDIES

S.S. 500. STUDIES IN TWENTIETH CENTURY AMERICAN HISTORY—Aspects of American life since 1900; significant trends, policies, and ideas in politics, diplomacy, and national culture; topics for study dictated by student needs and interests. Prerequisites: 15 hours in Social Studies, including six in American History and six in European History.

S.S. 501A. 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.

S.S. 501B. STUDIES IN TWENTIETH CENTURY EUROPEAN HISTORY: THE HISTORY AND INSTITUTIONS OF THE SOVIET UNION—Chief factors in tsarist Russia; Revolution of 1917; coming of the Bolsheviks 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.

S.S. 502. THE UNITED STATES AND ITS INTER-AMERICAN RELATIONS—American policies toward the Latin American Republics and the Dominion of Canada: recognition; Monroe Doctrine; imperialism; peaceful settlement; cultural interchange; hemisphere security; regionalism. Prerequisites: 15 hours in Social Studies, including six in American History and six in European History.

S.S. 503. HISTORY OF POLITICAL THEORY—Chief modern contributors to the political ideologies of democracy, liberalism, conservatism, nationalism, socialism, communism, Fascism, and Nazism. Prerequisites: 15 hours in Social Studies, including nine in European History.

S.S. 504. HISTORY OF THE AMERICAN FRONTIER—Progress of settlement from the Atlantic to the Pacific transmission of culture; developments in transportation; the process of state-making; transition from agrarian to urban communities; social, economic, and political effects of the westward march upon the United States as a whole. Prerequisites: 15 hours in Social Studies, including six in American History and six in European History.

S.S. 505. STUDIES IN CONTEMPORARY ECONOMIC PROBLEMS—International trade; international finance; inflation; labor legislation; problems of labor and management; price levels. Registration with consent of instructor.

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

S.S. 507. FIELD COURSE IN THE HISTORY AND GEOGRAPHY OF NEW YORK STATE—Characteristics of the geographic regions (Allegheny Plateau, Catskills, Hudson and Champlain Lowlands, Adirondacks, Mohawk Valley, Tug Hill and Black River Valley, St. Lawrence Lowland, and Lake Plains); colonial and pioneer settlement; present population pattern; transportation routes and facilities; forts and battlefields of three wars; industrial development; conservation practices; places associated with famous people and movements. One day on campus for orientation and travel arrangements; 14-day trip by chartered bus. Open to graduate and upperclass undergraduate students. Offered only in Summer Session.

S.S. 509. 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.

S.S. 510. SELECTED PROBLEMS OF URBAN LIFE—Cultural groups and their backgrounds, attitudes, problems, culture traits, and culture patterns as found in the local community; racial, nationality, religious, and social class groups; talks by guest representatives of intergroup education agencies and of the cultural groups studied.

S.S. 511. PROBLEMS OF CONTEMPORARY ENGLAND—Rise of trade unions; industrial and labor relations; career of the Labor Party; programs for social democracy; the changing world position of England. Registration with consent of instructor.

S.S. 512. 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.

S.S. 513. SOCIAL AND INTELLECTUAL HISTORY OF THE UNITED STATES—Social roots of systems of thought; effect 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.

S.S. 514. WORKSHOP IN HUMAN RELATIONS—Exploration of means to more productive human relations in classrooms; development of constructive social attitudes in children; particular difficulties faced by children of various groups; talks by guest speakers on local problems. Open to graduate and upperclass undergraduates.

S.S. 514A. ADVANCED WORKSHOP IN HUMAN RELATIONS—Materials and methods in individual and group work in human relations; individual situations in a school or community. Open to graduate and upperclass undergraduates.

S.S. 515. STUDIES IN AMERICAN COLONIAL HISTORY—Comparison of colonial policies pursued by European powers in the New World; modification in a new environment of such transplanted elements as the family, church, schools, economy, and government. Prerequisite: 15 hours in Social Studies.

S.S. 516 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.

S.S. 518. CONTEMPORARY EUROPEAN POLITICAL MOVEMENTS—Organization, campaigns, propaganda, electoral geography, parliamentary tactics, and national political parties, especially the Communist, Socialist, Christian Democratic, Radical Democratic, Peasant, Conservative, and Nec-Fascist. Prerequisites: 15 hours in Social Studies, including six in European History.

S.S. 519. CASE STUDIES IN LOCAL GOVERNMENT AND POLITICS—Structure and practice; revenues and expenditures; public housing, health, and welfare; planning and zoning; educational-political relationships; topics selected in accordance with student needs and interests. Prerequisites: 15 hours in Social Studies, including six in American History and/or Government. Open to qualified seniors with consent of instructor.

S.S. 520. WORKSHOP IN METHODS AND MATERIALS IN SOCIAL STUDIES—Consideration of unit, topic, discussion, project, problem.

UNDERGRADUATE COURSES OFFERED IN EXTENSION 1960 - 1961

ART 400. WORKSHOP IN CRAFTS I—Creative experiences in a variety of crafts such as leather, metal, ceramics, and jewelry; individual projects. Elective for all students except Art Education majors.

ED. 310. EVALUATION IN EDUCATION—Principles and procedures of evaluation; the effective use of observation in appraising pupil growth; the use and construction of teacher-made measurement instruments; selection,

administration, scoring and interpretation of various types of standardized tests; basic statistical concepts; cumulative records and their uses; effective methods of determining and reporting pupil progress. Open to experienced teachers.

EL.ED. 402. SEMINAR IN ELEMENTARY EDUCATION—Philosophic needs in elementary school teaching; teaching problems; research methods in solving education problems. Required of all Elementary Education and Early Childhood Education seniors including those extending elementary certificate to teach in Early Secondary School. Prerequisites: for Elementary Education: EL.Ed. 401; for Early Childhood Education: EL.Ed. 401C; for Early Secondary School: EL.Ed. 315; Ed. 316, Ed. 317, Ed. 318, or Ed. 319.

ENG. 210. CHILDREN'S LITERATURE—Types of children's literature; folklore, modern informative material, fiction, biography, and poetry; principles of book selection; illustration, format of books; reading interests of children; story telling; bibliography. Elective for sophomores, juniors, and seniors.

ENG. 304. AMERICAN LITERATURE—Major writers and literary movements of the United States from the Colonial Period to recent times. Elective for sophomores, juniors, and seniors.

ENG. 348. CREATIVE DRAMATICS—History, philosophy, methods, and materials of informal playmaking with children; observation and participation in Campus School. Elective for juniors, and seniors.

ENG. 402. CONTEMPORARY LITERATURE—British and American literature of the twentieth century: poetry, the novel, and the drama. Required of all Elementary Education seniors.

G.S. 104. WAYS OF KNOWING—The more important ways of answering the question, "How do you know?"; voting, or polling opinions; discussing, as in forum; intuition; revealed truth; or mystic experience; consistency with common sense and ideas previously accepted; dogmatic authority; and the scientific method of inquiry, education and expert authority. Methodological problems; the functions of concepts, or propositions, and of evidence for propositions.

H.ED. 402. HEALTH PROTECTION—School and community health problems; school health service; communicable disease control; water supply and sewage disposal; food sanitation; safety education. Prerequisite: H.Ed. 201.

I.A. 303. INDUSTRIAL ARTS FOR THE ELEMENTARY SCHOOL—Child growth through construction activities; units of study and individual projects in various grade levels; industry and technology as part of the culture and environment of the child; recreational outlets for individual students; development of teaching aids.

MATH. 303. MATHEMATICS IN THE ELEMENTARY GRADES—History of number and processes; relationships; generalizations; meanings; measurement; problem solving; professional literature and research; development of a philosophy of teaching mathematics; analysis of arithmetic textbooks; visual aids and techniques. Elective for juniors and seniors. Prerequisite: Math. 101 or its equivalent.

MUS. 305. MUSIC FOR CHILDREN II—Music experiences for intermediate grades; activities: unison and part singing, folk dances, rhythms, listening, creating, playing instruments, music reading; enrichment to other areas of elementary school curriculum; broad use of all types of materials and equipment. Elective for sophomores, juniors, and seniors.

SCI. 306. BOTANY—Structure and physiology of plants in relation to practical problems; observations, experiments, and laboratory work center around control of plant life. Elective for students who have had Sci. 201-2 or its equivalent.

SCI. 410. FIELD STUDIES IN SCIENCE I—Biological and geological field work; selected field studies, both group and individual; intensive studies of one or more areas. Elective.

S.S. 202. CONTEMPORARY CIVILIZATION—Problems of political and economic organization; recent nationalism and imperialism; revolutions and the pattern of dictatorship; attempts at world organization; chief developments of major European and Asiatic countries.

S.S. 301. AMERICAN CIVILIZATION AND GOVERNMENT—Establishment of the American republic; growth of American civilization; relations between the government and the people.

S.S. 306. AMERICAN HISTORY 1865-1960—Economic, political, and social problems of the post-Civil War era; recognition of the United States as a world power; its part in two World Wars; recent developments in international affairs.

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

OFF-CAMPUS EXTENSION

Proposed courses First Semester

1960 - 1961

Angola	To be announced
Arcade	Ed. 546 The Teaching of Reading
Eden	Ed. 517 Teaching the Language Arts in the Elementary School
Elma	E.S. 531 Geology of New York State
Gates - Chili	I.A. 507 School Shop Planning I.A. 528 Curriculum I.A. 506 Supervision
Newfane	Ed. 505 Evaluation Techniques in the Elementary School
Niagara Falls	Ed. 546 The Teaching of Reading S.S. 515 Studies in American Colonial History S.S. 520 Workshop in Methods and Ma- terials in Social Studies
Niagara-Wheatfield	To be announced
Orchard Park	Sci. 500 Science in the Elementary Cur- riculum
Wilson	Ed. 529 Adolescent Psychology

1

1

16

17.

18.

19.

STATE UNIVERSITY OF NEW YORK

Central Administrative Office: Albany 1, N. Y.

LIBERAL ARTS COLLEGE

Harpur College at Endicott

MEDICAL COLLEGES

Downstate Medical Center in Brooklyn (New York City)
Upstate Medical Center in Syracuse

COLLEGES OF EDUCATION

College of Education at Albany
College of Education at Brockport
College of Education at Buffalo
College of Education at Cortland
College of Education at Fredonia
College of Education at Geneseo
College of Education at New Paltz
College of Education at Oneonta
College of Education at Oswego
College of Education at Plattsburgh
College of Education at Potsdam

OTHER PROFESSIONAL COLLEGES

College of Forestry at Syracuse University
Maritime College at Fort Schuyler
College on Long Island at Oyster Bay
College of Ceramics at Alfred University
College of Agriculture at Cornell University
College of Home Economics at Cornell University
School of Industrial and Labor Relations at Cornell University
Veterinary College at Cornell University

AGRICULTURAL AND TECHNICAL INSTITUTES

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

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
Dutchess Community College at Poughkeepsie
Erie County Technical Institute at Buffalo
Fashion Institute of Technology at New York City
Hudson Valley Community College at Troy
Jamestown Community College at Jamestown
Mohawk Valley Technical Institute at Utica
Nassau Community College at Mineola
New York City Community College of Applied Arts and Sciences
Orange County Community College at Middletown
Queensborough Community College at New York City
Rockland Community College at Suffern
Staten Island Community College at New York City
Suffolk County Community College
Ulster County Community College
Warren-Washington Community College
Westchester Community College at Valhalla