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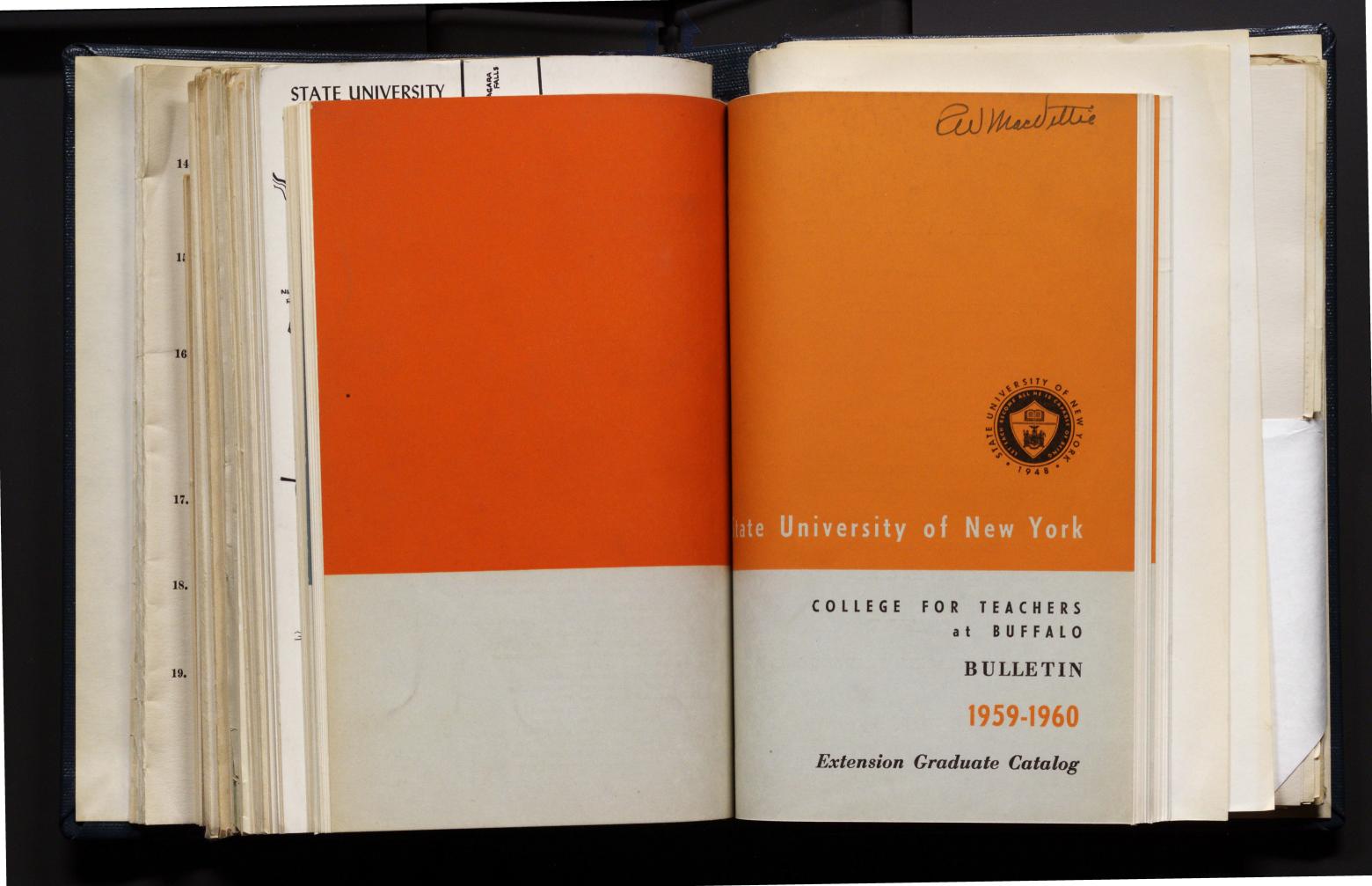
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GRADUATE PROGRAMS

leading to the

MASTER OF SCIENCE DEGREE

with specialization in

ART EDUCATION

ELEMENTARY EDUCATION

ELEMENTARY SCHOOL ADMINISTRATION AND SUPERVISION

EARLY SECONDARY SCHOOL CERTIFICATION (English, Mathematics, Science, Social Studies)

EXCEPTIONAL CHILDREN EDUCATION

HOME ECONOMICS EDUCATION

INDUSTRIAL ARTS EDUCATION

INTENSIVE TEACHER TRAINING PROGRAM

STATE UNIVERSITY OF NEW YORK

COLLEGE FOR TEACHERS AT BUFFALO

BULLETIN

August 1959

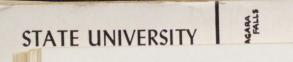
EXTENSION—GRADUATE CATALOG 1959-1960

> GRADUATE DIVISION and UNDERGRADUATE CLASSES

STATE UNIVERSITY COLLEGE FOR TEACHERS BULLETIN VOLUME XXVII NUMBER 4

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

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STATE UNIVERSITY OF NEW YORK

The State University of New York was established by the State Legislature in 1948. It comprises forty-six colleges. Twenty-eight of them are State colleges and eighteen 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 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."

STATE UNIVERSITY OF NEW YORK

BOARD OF TRUSTEES

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Executive	$D\epsilon$	an f	or Teacher Education	OPER,
			A.B., Mus.B., A.M., Ph.D., I	LL.D.

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THE COLLEGE

TOCAT	COUNCIL
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JOSEPH F. HIGGINS	
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Director of Industrial Arts Education Division

STEVEN GITTLER, A.B., M.A.

Director of Summer Session and Associate Director of Graduate and Extension Education

EXTENSION DIVISION

ADMINISTRATIVE STAFF

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ROBERT E. ALBRIGHT, A.B., M.A., Ph.DDirector of Extension, Director of Graduate Division
Steven Gittler, A.B., M.A
Frances G. Hepinstall, B.S., M.S
DOROTHY E. EELLS, B.S., M.A
MORTON R. LANE, B.S Senior Financial Secretary

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1959-60

SATURDAY, JAN. 9

SATURDAY, JAN. 23

CALENDAR ON-CAMPUS **EXTENSION CLASSES**

FIRST SEMESTER

SATURDAY, SEPT. 19	Registration for all on-campus classes; (Saturday and Tuesday); 8:45 A.M 1:00 P.M.
	NO REGISTRATION AFTER THIS DAY
Tuesday, Sept. 22	First Tuesday class sessions; no registrations accepted
SATURDAY, SEPT. 26	First Saturday class sessions; no registrations accepted; only registration day, Saturday, September 19
SATURDAY, Nov. 28	Thanksgiving recess
SATURDAY, DEC. 26	Christmas recess
SATURDAY, JAN. 2	Christmas recess

SECOND SEMESTER

Saturday classes resume

Final examinations

SATURDAY, FEB. 6	Registration for all on-campus classes (Satur day and Tuesday); 8:45 A.M 1:00 P.M.
	NO REGISTRATION AFTER THIS DAY
Tuesday, Feb. 9	First Tuesday class sessions; no registration accepted
SATURDAY, FEB. 13	First Saturday class sessions; no registration accepted; only registration day, Saturday, February 6
SATURDAY, APRIL 16 AND	Easter recess
SATURDAY, APRIL 23	Easter recess
SATURDAY, APRIL 30	Saturday classes resume
SATURDAY, JUNE 4	Final Examinations

SUNDAY, JUNE 12 | Commencement

ON-CAMPUS CLASSES

REGISTRATION PROCEDURES

NOTE: On-campus registration is limited to ONE DAY each semester; Camirday, September 19, and Saturday, February 6, only.

FIRST SEMESTER

Saturday, September 19 8:45 A.M. - 1:00 P.M. Registration day. Registration for all on-campus Extension classes (Tuesday 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 at the College Gymnasium and follow directions as indicated.
- (2) Students who have not filed Application for Admission blank report to Graduate Division office, Room Adm. 113, and complete this application form before going to the Gymnasium to register.

8:45 A.M. UNDERGRADUATE STUDENTS

Report to Assembly in Room Adm. 200 before going to the Gymnasium to register. This Assembly is important as enrollment in undergraduate classes is checked at this time. Absence from this Assembly may help to cause discontinuance of the class which you want or need if enrollment seems insufficient to warrant offering the course. After Assembly, secure instruction sheet at College Gymnasium and follow registration instructions as indicated.

1:00 P.M. REGISTRATION CLOSES

Students must be registered and fees paid before leaving the College Gymnasium Saturday, September 19. There will be no later regis-

lussday, September 22, and Saturday, September 26, all on-campus classes will meet in their first regular sessions as scheduled. No registrations will be received.

SECOND SEMESTER

aturday, February 6 8:45 A.M.-1:00 P.M. Registration day. Registration for all on-campus Extension classes (Tuesday and Saturday). No registration after Saturday, February 6.

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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 Gymnasium Saturday, February 6. There will be no later registration period.

Tuesday, February 9 and Saturday, February 13, 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.
- 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 eighteen 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 College for Teachers Buffalo 22, New York.

SPECIAL INFORMATION FOR UNDERGRADUATE STUDENTS

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.

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.

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 campus in regular College Session, summer session or extension courses.

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.

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. After certification has been granted an evaluation of all college credits must be made before status in the Bachelor of Science degree program can be established.

A permit to register must be secured by all undergraduate students from the Director of Elementary and Secondary Education before registration in any extension or summer session courses.

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THE GRADUATE DIVISION EXTENSION SESSION

1959 - 1960

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 teacher college, liberal arts college, or university which is accredited to 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, or registration in the Summer Session; before September 1, for registration in first semester Extension; and before January 1, for registation 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 raduates of this college.)
- 4. Filing of the Application for Admission blank in the Graduate Mice constitutes a *permit to register* for a student beginning graduate udy.

Full graduate status, however, is dependent upon: (a) comeion of all credentials required for admission to the Graduate vision, 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 manted. Full graduate status is dependent upon the completion of all redentials required for admission to the Graduate Division.
- 2. An adviser must be appointed as soon as 6 semester hours of whit is earned. Therefore, the student should complete credentials and secure full graduate status as soon as possible after application tradmission to the Graduate Division is filed.

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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, the Director of the Division, or (in the case of Elementary Education students) 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

courses.

A limited amount of transfer credits can be accepted for course legree requirements. taken at another college:

- those offered by this college.
- C. If they have been completed within seven years prior to regitration at this 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 course Not more than nine hours of C, and no work of D grade, will accepted.
 - 3. Completion of residence requirements. A course shall satisfy Graduate Division fees are \$15.00 per credit hour.

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 he 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 first course. Five summer sessions of six weeks each is regarded the sual period of attendance. However, this time may be shortened by oistration 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.

pecial Students

- 1. Students not intending to apply for admission to candidacy with Master's degree, may be permitted to register for courses in the 1. Completion of thirty-two semester hour program of graduate Division as special students, with the understanding that redits earned will not necessarily count toward fulfillment of Master's
- 2. A special student deciding to matriculate for the Master's A. If they are evaluated as being equal in scope and content to large must request an evaluation of all graduate credits earned, comete credentials for full graduate status, and follow a program of B. If they form a coherent part of the required program of study, raduate study planned by the Director of the Graduate Division to et curriculum, grade and time-limit requirements.
- 3. Not more than twelve semester hours may be earned by a D. If they are of A or B grade. Credits earned at another college pocial student unless a statement that he does not intend to become candidate for the Master's degree is filed with the Director of the aduate Division.
 - 4. An application must be secured and filed in the office of the luate Division before registration as a special student.

ition Fees

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GRADUATE CURRICULA ART EDUCATION

Technical Con	NICAL AND RELATED FIELDS
Art 501	Workshop in Art Education Materials, Proc-
7111 301	esses, 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 Organ-
	ization
Art 509	Graduate Studio in Crafts2-6 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 Study2-4 Sem. Hrs.
Graduate	Courses in the Practical Arts2-6 Sem. Hrs.
Courses in Re	olated 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 Study2-4 Sem. Hrs.
	e Courses in Psychology and Education2-6 Sem. Hrs.
Research:	
**Fd 575	Research Techniques 2 Sem. Hrs.
Art 550	10 **
Art 525	6 C . II
(Each o	andidate, after a conference with his adviser, may select one
of the a	bove requirements. Credit may be applied to the technical or
related	area, or may be divided between them depending upon the
nature o	f the work done.)
	RTS AND SCIENCES9-12 SEM. HRS.
LECTIVES IN AF	urses in Music, English, Social Studies, Science,
Graduate co	atics. By advisement.
and Mathem	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

ortificate to extend the validity of such certificate to include teaching the early secondary (junior high) schools of New York State.

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

A teacher preparing for early secondary (junior high) school eaching who wishes also to become a candidate for the Master of Sience degree must complete thirty-two semester hours of graduate Admission, candidacy, and Master's degree requirements will found under Graduate Program in this bulletin.

Preparation for teaching in the early secondary grades is offered four subject matter fields: English, Mathematics, Science, Social

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

Written Composition..... 6 Sem. Hrs. Speech 6 Sem. Hrs. Literature (English, American, Contemporary)..... 9 Sem. Hrs.

GRAI	DUATE PROGRAM
I	Required Courses: (by advisement) within the area of specialization:
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, 527.

^{*30} semester hours for certification; 32 semester hours for the Master's

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

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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:
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 Techniques2—3 Sem. Hrs. Ed. 550 Project
THE TEACHING OF MATHEMATICS IN EARLY SECONDARY (JUNIOR HIGH) SCHOOL
Prerequisites
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 Program30-32 Sem. Hrs.**
Required courses: within the area of specialization, Math. 503, 504, 505, 506
Elective Courses: (by advisement) in the area of specialization or other academic field9-10 Sem. Hr.
Professional Courses:
Elective Courses: Ed. 506, 519, 523, 533, 537, 538, 541, 542.
Research: Required of all students who are candidates for the Master's

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

degree, (2-5 Sem. Hrs.). Each candidate, after conference with his adviser, may select one of the following requirements in research:

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

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

PREREQUISITES
Earth Science 6 Sem. Hrs. Biology 6 Sem. Hrs. Physics 6 Sem. Hrs. Chemistry 6 Sem. Hrs.
THE GRADUATE PROGRAM
Required Courses within the area of specialization Sci. 501, 518
Elective Courses (by advisement) to be chosen from: Sci. 502, 503, 504, 505, 523, 527, 5286-9 Sem. Hrs.
Elective Courses: (by advisement) within the area of specialization or other academic fields:9-10 Sem. Hrs.
Professional Courses:
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 Techniques2–3 Sem. Hrs. Ed. 550 Project

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

PREREQUISITES
American History
Sociology 6 Sem. Hrs. (Substitution may be made for individual requirements provided the deficiency is corrected on the graduate level.)
The Graduate Program
Required Courses: (by advisement) within the area of specialization: 12 Sem. Hrs.

^{*30} semester hours for certification; 32 semester hours for the Master's

^{##} Reserve place three months before registration: Graduate Division Office.



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a. In related fields: Political Science such as: S.S. 503, 519 \ Minimum of 2 hours Economics such as: S.S. 505 Sociology such as: S.S. 506, 521 6 Sem. Hrs. (If this requirement has been met by electives on the undergraduate level the student may substitute Social Studies graduate electives.) b. Concentration in 1 of 3 areas..... 6 Sem. Hrs. Community and New York State Studies such as: S.S. 506, 507, 509, 510, 519. American Studies such as: S.S. 500, 502, 504, 512, 513, 515, 521. World Studies such as: S.S. 501A, 501B, 508, 511, 516, 518; Geog. 500, 501. Elective Courses: (by advisement) within the area of specialization or other academic fields......9-10 Sem. Hrs. Required courses: Ed. 532, (by advisement) Ed. 529, 536, 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) El. Ed. 501 Seminar in Elementary Education..... 3 Sem. Hrs. El. Ed. Electives (by advisement)...... 6 Sem. Hrs. English and/or Social Studies...... 6 Sem. Hrs. Academic Electives 6 Sem. Hrs. *Ed. 575 Research Methods and Techniques...... 3 Sem. Hrs. (Each candidate, after a conference with his adviser, may select one of the above requirements.) 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

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.

۱	mentary school supervision, in courses such as El. Ed. 321 and 331.			
	REQUIRED PROFESSIONAL COURSES			
1	El. Ed. 500 Workshop in Elementary Education 6 Sem. Hrs.			
1	El. Ed. 503 Organization of the Elementary School 3 Sem. Hrs.			
1	El. Ed. 504 Administration of the Elementary School 3 Sem. Hrs.			
1	or			
1	El. Ed. 530 Principles of Supervision 3 Sem. Hrs.			
1	El. Ed. 531 Supervision of Teaching 3 Sem. Hrs.			
1	REQUIRED COURSES IN ARTS AND SCIENCES8-10 SEM. Hrs.			
English and/or Social Studies 6 Sem. Hrs.				
1	Academic Electives2–4 Sem. Hrs.			
-	RESEARCH2-6 SEM. Hrs.			
	*Ed. 575 Research Methods and Techniques2-3 Sem. Hrs.			
	Ed. 550 Research Project 4 Sem. Hrs.			
	Ed. 525 Master's Thesis 6 Sem. Hrs.			
	(Each candidate, after conference with his adviser, may select one			
	of the above requirements.)			
	UNRESTRICTED ELECTIVES			
	Total requirements: 32 semester hours.			

EXCEPTIONAL CHILDREN EDUCATION

Education of Children with Mental Retardation

EQUIRED COURSES IN	THE FIELD OF SPECIALIZATION	12	SEM. I	HRS.
By advisement, from	m the following:			
Ex. Ed. 520	Speech Correction for Elementary School			
	Teachers	2	Sem.	Hrs.
Ex. Ed. 527	Guidance of Children who are Excep-			
	tional	2	Sem.	Hrs.
Ex. Ed. 535	Mental Measurement	2	Sem.	Hrs.
The state of the state of the state of				

^{*}Reserve place three months in advance of registration: Graduate Division ice.

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Ex. Ed. 538 Understanding the Problem Child in the Classroom 2 Sem. Hrs.
the Classroom
Ex. Ed. 561 Occupational Education for Children with Mental Retardation 2 Sem. Hrs.
Ex. Ed. 571 Occupational Skills for Children with Mental Retardation
Ex. Ed. 591 Nature and Needs of Children who Pre- sent Exceptional Problems of Learning 2 Sem. Hrs.
REQUIRED COURSES IN ARTS AND SCIENCES
English and/or Social Studies 6 Sem. Hrs. Academic Electives 6 Sem. Hrs.
Research2-6 Sem. Hrs.
*Ed. 575 Research Methods and Techniques2-3 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
EDUCATION OF CHILDREN WITH ORTHOPEDIC HANDICAP
REQUIRED COURSES IN THE FIELD OF SPECIALIZATION
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
Ex. Ed. 520 Speech Correction for Elementary School Teachers
Ex. Ed. 527 Guidance of Children who are Exceptional
Ex. Ed. 538 Understanding the Problem Child in the Classroom
Ex. Ed. 591 Nature and Needs of Children who Present Exceptional Problems of Learning 2 Sem. Hrs.
Required Courses in Arts and Sciences
English and/or Social Studies
Academic Electives
Research
*Ed. 575 Research Methods and Techniques2–3 Sem. Hrs.
El. Ed. 550 Research Project
II. Id. 000 2000

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

EDUCATION OF CHILDREN WITH SPEECH AND HEARING IMPAIRMENT

EREQU	JISITES
	Science of Speech and Hearing 3 Sem. Hrs
	Phonetics
	Speech Pathology 6 Sem Hrs
	Speech Correction 3 Sem Hrs
	Introduction to Audiology

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.

HOME ECONOMICS EDUCATION

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

^{*}Reserve place three months in advance of registration: Graduate Division

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Courses in Related Fields:

INDUSTRIAL ARTS EDUCATION

Courses in Technical and Related Fields20-23 Sem. Hrs.
Technical Courses:
*Ed. 575 Research Techniques
REQUIRED COURSES IN ARTS AND SCIENCES. 9-12 SEM. Hrs. English
* Reserve place three months in advance of registration: Graduate Division

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

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 secure application blanks and complete instructions for registration as soon as possible.

Intermediate Grade Group

ermediate Grade	Group
El. Ed. 500A	Workshop in Elementary Education (Summer Session only) 8 Sem. Hrs.
El. Ed. 510	Seminar in Elementary School Prob-
	lems
El. Ed. 511	Music and Art in the Elementary School 3 Sem. Hrs.
El. Ed. 512	Seminar in Child Development (Sum-
El. Ed. 516	mer Session only)
	tary School 3 Sem. Hrs.
El. Ed. 501	Seminar in Elementary Education 3 Sem. Hrs.
	Electives
*El. Ed. 575	30 Sem. Hrs.** Research Methods and Techniques
	(for Master's Degree Candidates) 2 Sem. Hrs.
* Reserve place thre	32 Sem. Hrs.**

^{*} Reserve place three months in advance of registration: Graduate Division

^{** 30} semester hours for certification; 32 semester hours for the Master's legree.

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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 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. 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.

Office.

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

EXTENSION DIVISION SCHEDULE

(Saturday — Tuesday)

GRADUATE DIVISION CLASSES 1959 - 1960

First Semester

First Semester	
SATURDAY MORNING: 9:00 A. M 11:30 A. M. (3 hours cree	dit)
Art 509x Graduate Studio in Crafts Art 513x Graduate Studio in Graphic Arts	Mr. Cataldo
Art 515x Graduate Studio in Community and Home Planni	ng
	Dr. Tetkowski
El. Ed. 501x Seminar in Elementary Education El. Ed. 504x Administration of the Elementary School El. Ed. 520x Workshop in Elementary Administration an	Dr. Crayton Dr. Kopp
Ed. 537x Evaluation in the Early Secondary School	Dr. Sherrie
MURDAY MORNING: 9:00 A. M 10:40 A. M. (2 hours cred	lit)
Art 509x Graduate Studio in Crafts Art 513x Graduate Studio in Graphic Arts	Mr. Cataldo
Ed. 533x Workshop in Audio Visual Education	
El. Ed. 575x Research Methods and Techniques	Dr. Penn
Eng. 502x Studies in American Literature	Dr. Fried
Ex. Ed. 535x Mental Measurement	
I.A. 501x Seminar in Industrial Arts	Dr. Neuthardt
I.A. 513Ax Workshop in Ceramics	Mr. Steinzor
I.A. 523x Industrial Arts in the Elementary School	Dr. Russell
Sci 500x Science in the Elementary Curriculum	Dr. Lampkin
Sci. 531x Geology of New York State	Dr. Tesmer
S.S. 503x History of Political Theory	Dr. Mason
S.S. 506x Minority Groups in American Culture	Dr. Hollister
MTURDAY MORNING: 10:50 A. M 12:30 P. M. (2 hours cree	dit)
El. Ed. 575x Research Methods and Techniques	Dr. Quaal
Eng. 511Bx Studies in the Prose of the Victorian Period	Dr. McRae
Eng. 527x Early Secondary School Literature	Dr. Sherwin
Ex. Ed. 571x Occupational Skills for Children with Menta	
H P. 507 P. 1	Dr. Waagen
H. Ec. 507x Evaluation in Home Economics Education	Dr. Cawley
I.A. 514x Techniques and Devices for Shop Laboratory I.A. 515x Transportation Laboratory	Dr. Steffen
I.A. 517x Electronics	Dr. Cook
I.A. 524x Evaluation in Industrial Arts	Dr. Peters
Sci. 501x Field Studies in Science I	Dr. Eckert
S.S. 500x Studies in Twentieth Century American History	Dr. R. Brown



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Tuesday afternoon: 4:20 P.M6:00 P.M. (2 hours	credit)
Ex. Ed. 538x Understanding the Problem Child in the C	lassroom
	Mr. Hallowitz
Tuesday evening: 6:30 P.M8:10 P.M. (2 hours cree	dit)
Ex. Ed. 543x Speech Reading	
El. Ed. 575x Research Methods and Techniques	Dr. Martorana
Tuesday evening: 6:30 P.M 9:00 P.M. (3 hours cred	it)
Art 511x Art in the Elementary Curriculum	Mrs. Heyman
Ed. 506x Philosophy of Education	Dr. Wells
El. Ed. 510x Seminar in Elementary School Problems	
(I.T.T.P. Students only)	Miss Concannon
El. Ed. 546x The Teaching of Reading	Dr. Lange
Eng. 515x Philosophic Aspects of Literature	Dr. Bradford
Eng. 522x Studies in Modern American Poetry	Dr. Drew
Math. 507x Foundations of Mathematics	Dr. Montgomery
S.S. 511x Problems of Contemporary England	Dr. Robison
S.S. 515x Studies in American Colonial History	Dr. Roesser
Second Semester	
SATURDAY MORNING: 9:00 A. M 11:30 A. M. (3 hours	credit)
Art 507x Graduate Studio in Drawing and Painting	Mr. Wise
Art 512x Graduate Studio in Sculpture	Mr. Bolinsky
Ed. 529x Adolescent Psychology	Dr. Carroll
	M. II 11

(Open only to students holding provisional certification in Administration or Supervision. Credit will apply toward permanent form certificate in

Mr. Hedden

Dr. Milanovich

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

El. Ed. 530x Principles of Supervision

El. Ed. 551x Problems in Elementary School Supervision

Art 507x Graduate Studio in Drawing and Painting	Mr. Wise
Art 512x Graduate Studio in Sculpture	Mr. Bolinsky
El. Ed. 516x Methods and Materials in the Elementary	School
El. Ed. 575x Research Methods and Techniques	Dr. Penn
Eng. 514x Children's Literature	Mrs. Ganey
Eng. 520x Shakespearean Tragedy	Dr. Gragg
I.A. 502x Field Studies Related to Industrial Arts Edu	ication
1.A. 502X Field Studies Related to Industrial	Dr. Russell
I.A. 509x History of Industrial Arts Education	
I.A. 513Bx Workshop in Ceramics	Mr. Steinzor
I.A. 519x New Methods and Techniques in Woodworking	g Dr. Callan
Math. 500x Mathematics in the Elementary Curriculum	
Sci. 518x Human Biology	Miss Dupre
S.S. 518x Contemporary European Political Movements	Dr. E. Brown
5.5. Jiox Contemporary European Tonton	

SATURDAY MORNING: 10:50 A. M 12:30 P. M. (2 hours	credit)
El. Ed. 517x Teaching the Language Arts in the Eler	
71 575 D 1 16 1 1 1 7 1 1	Dr. Eddins
El. Ed. 575x Research Methods and Techniques	Dr. Barnett
Eng. 526x The English Language	Dr. Klomp
Geog. 502x Map Interpretation for Teachers H.Ec. 504x Problems in Foods and Nutrition	Dr. Whittemore
I.A. 528x Industrial Arts Curriculum	Iiss Buddenhagen
I.A. 507x School Shop Planning	D D 11
I.A. 530x New Techniques in Graphic Arts	Dr. Ball
I.A. 521x New Methods and Techniques in Metalworki	Mr. Bowers
Sci. 503x Ecology	Dr. Urban
Sci. 510x Teaching of Science in Secondary School	Dr. Heidgerd
S.S. 505x Studies in Contemporary Economic Problem	ms Mr. Falk
S.S. 513x Social and Intellectual History of the Unite	d States
	Dr. Weaver
Tuesday afternoon: 4:20 P.M6:00 P.M. (2 hours of	redit)
Ex. Ed. 539x The Gifted Child	Dr. Wagner
Ex. Ed. 556x Advanced Seminar in Voice and Articula	tion Problems
Ex. Ed. 561x Occupational Education for Children w	ith Mental Re-
tardation	
Tuesday evening: 6:30 P. M 8:10 P. M. (2 hours cred	i+)
El. Ed. 575x Research Methods and Techniques	
Ex. Ed. 527x Research Methods and Techniques Ex. Ed. 527x Guidance of Children who are Exceptional	Dr. Quaal
Ex. Ed. 591x Nature and Needs of Children who Pres	P
Problems of Learning	sent Exceptional
Trootom or Dourning	
Tuesday evening: 6:30 P.M9:00 P.M. (3 hours cred	
Art 508x Graduate Studio in Design and Spatial Orga	nization
	Dr. Hubler
Art 510x Graduate Studio in Photography	Dr. Truesdale
El. Ed. 511x Music and Art in the Elementary School	Mr. Bailey and
(I.T.T.P. Students only) Mr. Haberer
El. Ed. 527x Problems in Educational Services for Yo	
F 507- Th- M-J N- 1	Miss Jamison
Eng. 500x The Modern Novel	Dr. Greenwood
Eng. 509x Studies in the Prose and Poetry of Milton	Dr. Gronewold
S.S. 520x Workshop in Methods and Materials in Soci-	
S.S. 521x Contemporary Social Problems	Dr. Sexton
Contemporary Bociar Fronting	Dr. Hollister

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PROPOSED 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 Organ	Dr Ray			
D. C. I'- i- Crofts	Dr. Bauer r. Winebrenner			
All Josh Gladari	r. witheotenner			
Art 513x Graduate Studio in Graphic Arts	D. C.			
El. Ed. 501x Seminar in Elementary Education	Dr. Crayton			
El. Ed. 503x Organization of the Elementary School				
El. Ed. 505x Evaluation Techniques in the Elementary	School			
	Dr. Sherrie			
Ed. 542x Seminar in Early Secondary School Curricul	um			
SATURDAY MORNING: 9:00 A. M 10:40 A. M. (2 hours cr	redit)			
Art 508x Graduate Studio in Design and Spatial Organiza	ation Dr. Bauer			
Art 513x Graduate Studio in Graphic Arts				
Ed. 533x Workshop in Audio Visual Education				
El. Ed. 575x Research Methods and Techniques	Dr. Penn			
Ex. Ed. 535x Mental Measurement				
Eng. 505x Studies in the Novel	Dr. Gronewold			
Eng. 518x Major American Poets	Dr. Klomp			
I.A. 501x Seminar in Industrial Arts	Dr. Neuthardt			
I.A. 509x History of Industrial Arts Education	Dr. Russell			
	Mr. Steinzor			
I.A. 513x Workshop in Ceramics				

Math. 500x Mathematics in the Elementary Curriculum Sci. 500x Science in the Elementary Curriculum Sci. 527x Current Research in Science

and Dr. Albright Dr. Weaver

S.S. 521x Contemporary Social Problems

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

El. Ed. 575x Research Methods and Techniques Dr. Barnett Ex. Ed. 571x Occupational Skills for Children with Mental Retardation Eng. 506x Studies in the Modern Drama Dr. Greenwood H.Ec. 512x Workshop in Household Equipment for Home Economics

Teachers

I.A. 515x Transportation Laboratory I.A. 517Ax Electronics I.A. 520x Design in Industrial Arts

I.A. 524x Evaluation in Industrial Arts Sci. 502x Field Studies in Science II

S.S. 504x History of the American Frontier

THESDAY AFTERNOON: 4:20 P. M. - 6:00 P. M. (2 hours credit) Fx. Ed. 538x Understanding the Problem Child in the Classroom

Mr. Hallowitz

Ex. Ed. 559x Seminar in Stuttering

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

El Ed. 575x Research Methods and Techniques Dr. Martorana

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

Art 505x Seminar in Art Education Dr. Squeri Ed. 506x Philosophy of Education Dr. Wells

El. Ed. 510x Seminar in Elementary School Problems

(I.T.T.P. Students only) Miss Concannon El. Ed. 546x The Teaching of Reading Mr. Edwards Eng. 520x Shakespearean Tragedy Dr. McRae Eng. 502x Studies in American Literature Dr. Drew S.S. 501Ax Studies in Twentieth Century European History: The German Dr. Mason

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

S.S. 514x Workshop in Human Relations Dr. Burrell

S.S. 519x Case Studies in Local Government and Politics Mr. Leh

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. Haberer El. Ed. 501x Seminar in Elementary Education El. Ed. 521x Elementary School Curriculum Dr. Milanovich S.S. 512x United States in Contemporary World Affairs Dr. Peterson Will apply toward permanent form certification in principalship or supervision) El. Ed. 531x Supervision of Teaching Mr. Hedden Ed. 532x Early Secondary School Education

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

Art 507x Graduate Studio in Drawing and Painting Miss Case El. Ed. 575x Research Methods and Techniques Dr. Penn Eng. 514x Children's Literature Mrs. Ganey

I.A. 502x Field Studies related to Industrial Arts Education

I.A. 528x Industrial Arts Curriculum

Miss Swayne

Dr. Cook

Dr. Peters

Dr. Steffen

Dr. Robison

I.A. 519x New Methods and Techniques in Woodworking Dr. Callan Sci. 518x Human Biology Miss Dupre

S.S. 500x Studies in Twentieth Century American History Dr. R. Brown

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

El. Ed. 517x Teaching the Language Arts in the Elementary School Dr. Lange

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El. Ed. 575x Research Methods and Techniques Eng. 503x American Regional Literature Geog. 500x Geography of Eastern Asia H.Ec. 506x Seminar in Home Management I.A. 507x School Shop Planning I.A. 530x New Techniques in Graphic Arts I.A. 521x New Methods and Techniques in Metalworking I.A. 526x Advanced Drafting, Problems and Techniques Math. 500x Mathematics in the Elementary Curriculum Sci. 503x Ecology Dr. Bradford Dr. Whittemore Miss Adams Mr. Bowers Dr. Fontana Dr. Steffen
Sci. 528x Seminar in Science Education S.S. 505x Studies in Contemporary Economic Problems S.S. 506x Minority Groups in American Culture Dr. Boyd Dr. Hollister
Cuesday Afternoon: 4:20 P. M 6:00 P. M. (2 hours credit) Ex. Ed. 539x The Gifted Child Ex. Ed. 561x Occupational Education for Children with Mental Retardation
Fuesday evening: 6:30 P. M 8:10 P. M. (2 hours credit) El. Ed. 575x Research Methods and Techniques Ex. Ed. 520x Speech Correction for Elementary School Teachers Ex. Ed. 556x Advanced Seminar in Voice and Articulation Problems Ex. Ed. 591x Nature and Needs of Children who Present Exceptional Problems of Learning
Tuesday evening: 6:30 P. M 9:00 P. M. (3 hours credit) Art 506x Seminar in Art Education El. Ed. 511x Music and Art in the Elementary School (I.T.T.P. Students only) Ed. 527x Problems in Educational Services for Young Children Eng. 511Ax Studies in the Poetry of the Victorian Period Eng. 524x Realism in American Literature S.S. 509x Local History: Research Methods and Techniques Dr. Brunge

S.S. 516x International Relations and the World Today Dr. E. Brown

Dr. Burrell

Wednesday Afternoon: 4:20 P. M. - 6:00 P. M. (2 hours credit)

S.S. 514Ax Advanced Workshop in Human Relations

UNDERGRADUATE COURSE OFFERINGS

1959 - 1960

(Additional classes will be organized if need arises)

First Semester

SATURDAY MORE	NING:	9:00 A	. M	10:40	A. M.	(2	hours	credit)	
Art 256x	Art in	Everyda	y Life						

Art 256x Art in Everyday Life	
Eng. 210x Children's Literature	Miss Piquette
Sci. 306x Botany	Mr. Nadolinski
S.S. 304x American History to 1789	Dr. Brunger

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

ATURDAL MORNING. (2 House	ars credit,
El. Ed. 487x Teaching the Language Arts in the	Elementary School
Eng. 205x General Literature	Miss Norenberg
Sci. 421x Human Anatomy and Physiology	Miss Dupre
S.S. 343x Cultural Anthropology	Dr. Weaver
P. Ed. 301x Physical Education	Miss Spaulding

Second Semester

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

	Art 406x	Creative Arts Workshop	
	Eng. 402x	Contemporary Literature	Mr. Schuck
1	Sci. 310x	Science in the Elementary Curriculum	Dr. Zingaro
	S.S. 426x	Contemporary Economic Problems	

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

Eng. 309x Public Discussion	Mr. Trueblood
H.Ed. 402x Health Protection	
Mus. 304x Music for Children I	
S.S. 408x Twentieth Century European Diplomacy	

PROPOSED UNDERGRADUATE COURSE OFFERINGS

1960 - 1961

(Additional classes will be organized if need arises)

First Semester

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

Miss Norenberg
Dr. Roesser

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

Eng. 348x Creative Dramatics

S.S. 335x Principles and Problems of Economics

Mt. Falk

Second Semester

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

Art 400x Workshop in Crafts

Eng. 345x Radio and Television in Education

or

Eng. 306x Advanced Speech

S.S. 402x Sociology

Mr. Foladare

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

Eng. 407x The Romantic Movement
Sci. 306x Botany

Dr. Rogers

S.S. 303x Europe Since 1914

or
S.S. 202x Contemporary Civilization

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 tends in general education.

ART 503. WORKSHOP IN USING THE VISUAL LANGUAGE—
hychological 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
tome; 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 motions, propagating individual and group attitudes, beliefs, ceremonials, and matrices.

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

ART 506. SEMINAR IN HISTORY OF ART—CONTEMPORARY WEMLENTS IN ART—Trends in the arts of painting, sculpture, graphic at architecture, industrial art, commercial art, and crafts, related to developments in music, drama, and literature; lectures, readings, experiments and monstrations; visits to galleries, studios, and plays.

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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 OR-GANIZATION—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—Fold 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 redesigning 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 at 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 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, wenty-five hours a week for two weeks.

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

ART 526. SPECIAL PROJECT—Research along a particular line of

ART 550. PROJECT—A study undertaken by one or more individuals 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—Probins encountered in the elementary schools, selected by members of workshop, separal seminar technique, observation in the Summer Demonstration School. Sequired of Elementary Education students for Master of Science. Enrollment sequired.

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

ELED. 501. SEMINAR IN ELEMENTARY EDUCATION—Research elementary education; study of specific problems by individual students in the field of teaching. Required of Elementary Education candidates, for the later of Science.

ELED. 503. ORGANIZATION OF THE ELEMENTARY SCHOOL lipor concepts in Elementary Education; administration of the elementary thol; the curriculum; grouping of pupils; the school plant; trends in school adding design; co-curricular activities; pupil safety measures. May precede or the ELEd. 504. Open to experienced teachers, principals, and supervisors.

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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 educa-

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 ELECTRICAL and mathematics for Electrical and materials in language arts, science and mathematics for Electrical and materials in language arts, graduates in the Intensive where mentary School teachers. Open only to liberal arts graduates in the Intensive unders. 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.

FL.ED. 512. SEMINAR IN CHILD DEVELOPMENT—Growth and larglopment of elementary school children; guiding child growth in the mental. orial, physical and emotional areas; individual and group work on specialized amblems; 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 passirement, continuous series, frequency distribution and graphic description, resentation of data in tables, measures of relative position, symbolism averages, essures of variability, and normal distribution.

ED. 514. DIAGNOSTIC AND REMEDIAL TECHNIQUES IN ELE-ENTARY SCHOOL SUBJECTS—Studies of current practices, concepts and miciples governing individual problems of learning in elementary school subetts; tests, research techniques of diagnosing children's abilities, procedures to medy learning problems.

ELED. 515. SEMINAR IN EARLY CHILDHOOD EDUCATION urriculum development for children from three to eight; current problems research; instructional materials and procedures; equipment; school, home, od community relationships; evaluating children's progress: "action research" n individual school problems. Open to graduate students and undergraduate perienced teachers.

ELED. 516. METHODS AND MATERIALS IN THE ELEMEN-ARY SCHOOL—School curriculum in language arts, social studies, numbers, ence; evaluation procedures. Open to graduate students and undergraduate perienced teachers.

EL.ED. 517. TEACHING THE LANGUAGE ARTS IN THE ELE-ENTARY SCHOOL—Recent research in spelling, written communication. communication, reading, creative writing, listening skills; implications for rating learning experiences for children; developing a language arts prom, 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. EL.ED. 510. SEMINAR IN ELEMENTARY SCHOOL PROBLEMS— actional, social and personality growth; planning, executing and evaluating

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

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EL.ED. 520. WORKSHOP IN ELEMENTARY SCHOOL ADMINIS. TRATION 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 certifi-

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 egree. relating to race, religion, or national origin; slow and rapid learners; old and new residents; "fringers" and participants; competitive practices in school; new residents; Tringers and participants, Open to graduate and Adationship of evaluation to instructional objectives; selecting, administering, dividing and integrating factors affecting learning. advanced undergraduate students. Enrollment limited,

ED. 529. ADOLESCENT PSYCHOLOGY-Social, emotional, mental, dusical, and personality development of adolescents; relationshp of adolescent behavior to pre-adolescent and post-adolescent development; educational adinterests; guidance program in early secondary school. for students preparing for early secondary school teaching. Prerequisite: semester hours in Child Development or its equivalent and the baccalaureate

FLED. 530. PRINCIPLES OF SUPERVISION—Historical developents and changing concepts of supervision; principles of effective supervisory mygrams; types of administrative organization; maintaining staff morale. Open experienced teachers, principals and supervisors.

FLED. 531. SUPERVISION OF TEACHING-Principles of superviclassroom observation; evaluating teaching; effect of teachers' purposes research on choice of subject matter and teaching procedures; teachermil relationships; group and individual conferences; induction of new teachinter-visitation; demonstration teaching; teachers' meetings; bulletins; orkshops; evaluation of program. Open to experienced teachers, principals

ED. 532. EARLY SECONDARY SCHOOL EDUCATION-Origin and actions of early secondary education; curriculum patterns; guidance and exratory programs; articulation between elementary school and senior high mool; extra-curricular activities; evaluation in the early secondary school; search methods in solving problems listed above and others suggested by dents. Required of all students preparing for early secondary school teach-Prerequisite: baccalaureate degree.

ED. 533. WORKSHOP IN AUDIO-VISUAL EDUCATION-Basic lio-visual teaching methods; knowledges and skills in use of equipment; ms, filmstrips, slides, and other materials; sources of material and equipent; audio-visual programs in the school; film libraries; ordering of materials; dgets and administration; evaluation of the program.

ED. 536. EARLY SECONDARY SCHOOL PROBLEMS AND ETHODS—Objectives of early secondary school education; basic principles learning and motivation; curriculum concepts; organizing learning experms; providing for individual differences; teacher-pupil planning; selecting dorganizing learning materials; audio-visual aids to learning; utilizing school, and community resources; status and practice of the core curriculum; me and purposes of resource units; evaluating pupil growth. For students maring for early secondary school teaching. Prerequisite: baccalaureate

ED. 537. EVALUATION IN THE EARLY SECONDARY SCHOOL

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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 coltural 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 ELE MENTARY GRADES-Spanish conversation; Spanish civilization; observation and participation in a Spanish demonstration class in the Campus Schoolevaluation of text materials and other teaching aids. Open to qualified graduates and undergraduates.

ED. 540. SEMINAR IN INTERNATIONAL EDUCATION-Sched. uled 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 at community; water, traffic and fire safety; recreation safety; poisons and

ED. 542. SEMINAR IN THE EARLY SECONDARY SCHOOL ED. 567. DRIVER EDUCATION—Behind-the-wheel instruction of a CURRICULUM—Curricular and extra-curricular programs related to social, since driver; traffic and pedestrian safety; psycho-physical testing; traffic law; economic, and community changes; relationship of principles and procedure of curriculum development to educational objectives; relationship of extracurricular activities to curriculum areas; adaptation of the curriculum to adoles cent abilities, needs, and interests; various patterns of curriculum development financing, organizing, scheduling, and supervising extra-curricular activities bases for determining extent and type of student participation in school management.

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; adial instruction for specific problems. Open to graduate students and

ED. 547. CORE PROGRAMS IN THE EARLY SECONDARY @HOOL—Nature of block-of-time and core programs, teacher-pupil planning, reparation of resource units, guidance and evaluation procedures. Open to exprenced teachers and graduate students.

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

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

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

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

ED. 566. SAFETY EDUCATION—Kinds and frequency of accidents; schology in accident prevention; safety in home, school, shop, playground engency treatment; effect of narcotics; teaching safety in the public schools.

ident statistics; accident prevention; traffic engineering; liability; insurance expretation; effects of alcohol; maintenance of an automobile; cooperating mies; special research project. Required for certification to teach Driver

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

EL. ED. 585. READING CLINIC—Effective teaching procedures to two competence in comprehension, facility, word recognition and spelling; atheation of reading needs; maladjustments related to reading disability; degraduate experienced teachers.

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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

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, es pecially in the Nineteenth Century; major novelists.

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

ENG. 507. THE MODERN NOVEL-Outstanding American an 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.

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.

ENG. 510. EMERSON, THOREAU AND THE TRANSCENDEN-ALISTS-Writings of Emerson and Thoreau against the background of furopean and American transcendentalism.

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

ENG. 511B. STUDIES IN THE PROSE OF THE VICTORIAN MRIOD—Major Victorian essayists with reference to the intellectual backmund of nineteenth-century England: Carlyle, Newman, Macaulay, J. S. Mill,

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

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

and Eastern, Southern, Western, folkways in American letters, local color and Eastern, Southern, Western, folkways in fiction pieces; Rousseau and his disciples; romantic poetry, fiction and drama; ism, naturalism and symbolism in the various types of literature.

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

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

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

ENG. 516. STUDYTOUR OF WESTERN EUROPE—Six weeks studyincluding Holland, Germany, Austria, Italy, Switzerland and France. Gradcredit may be earned by writing reports on certain aspects of the studytour.

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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, Masefield, 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. SHAKESPEAREAR Countries and the severely speech Shakespeare's early and experimental work; later mature achievements with with six semester hours. the comic idea in farce, high comedy, bitter comedy, drama and idealistic romance.

others.

ENG. 525. THESIS—An individual investigation of an original problem ENG. 525. THESIS—All literatures form according to directions given by the ERING IMPAIRMENT—Practicum work under supervision with class of Graduate Division.

ENG. 526. THE ENGLISH LANGUAGE—Historical development of smaterials. Summer Session. 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—Read exinterpretation. ings in prose and poetry appropriate to the early secondary school; examinate of the function of "literature for adolescents" in the early secondary English program.

ENG. 532. LITERARY CRITICISM—A survey of literary criticism and present, with exercises in applying the student's critical skill to the 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 problem of special interest; must be submitted in acceptable form according directions given by the Graduate Division.

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

GRADUATE COURSES IN EXCEPTIONAL CHILDREN EDUCATION

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

EXAD. 503. CLINICAL PROCEDURES IN SPEECH CORREC-ENG. 523. SHAKESPEAREAN COMEDY—Principal comedies from JON—An advanced practicum, work under supervision with severely speech

EX.ED. 504. WORKSHOP IN CURRICULUM FOR CEREBRAL ISIED CHILDREN—Structured to encourage formulation of realistic ENG. 524. REALISM IN AMERICAN LITERATURE—Realistic riculum for slow-learning cerebral palsied children in the elementary school ENG. 524. REALISM IN AMERICAN Clemens, Crane, Norris and the range. Participants will be required to originate curricular proposals, writers of the late 19th century; Howells, James, Clemens, Crane, Norris and the range. Participants will be required to originate curricular proposals, Bor equivalent. Credit: six semester hours.

> EX.ED. 506. WORKSHOP IN EDUCATION OF CHILDREN WITH hen having varying degrees of hearing impairment-from moderate to found loss. Observation and participation; experimentation in techniques

> EX.ED. 512. SEMINAR IN EDUCATION OF CHILDREN WITH HOPEDIC HANDICAP-Problems of class organization, grouping and culum; educational psychology for the crippled; psychological tests and

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

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

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 EXCEP. TIONAL-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 effect the eye. Prerequisite: Ex.Ed. 530.

EX.ED. 532. WORKSHOP IN EDUCATION OF CHILDREN WITH Trent research. 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 mate. Experiment of hearing. Administration of individual audiometric, speech dis-

EX.ED. 533. SEMINAR IN SPEECH PATHOLOGY—Research studies in the areas of stuttering, voice defects, cleft palate, and cerebral palsy. Pre- EX.ED. 558. NEUROPATHOLOGIES OF SPEECH—Neuropatholo-

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

EX.ED. 538. UNDERSTANDING THE PROBLEM CHILD IN THE MASSROOM—Personal and social factors as related to the problem child; 138 study of an individual pupil and group discussion of report. Enrollment ented to fifteen. Open to graduate students in any division.

EX.ED. 539. THE GIFTED CHILD—Study of the nature and needs of didren who are gifted; examination of such provisions as acceleration, partialeffegation, enrichment, special classes; criteria for identifying; implications

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

EX.ED. 543. SPEECH READING-A consideration of the most immant methods of teaching speech reading to the hard of hearing child, gether with practice in the various techniques. Elective for graduates and adergraduates interested in the child with hearing impairment.

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

EX.ED. 551. PRACTICUM IN EDUCATION OF CHILDREN WITH ENTAL RETARDATION. (FORMERLY EX.ED. 501. WORKSHOP IN CATION OF CHILDREN WITH RETARDED MENTAL DEVELOP-ENT)—Observation and individual participation in a class for children with mial retardation; group discussions and experimentation in techniques and

EX.ED. 556. ADVANCED SEMINAR IN VOICE AND ARTICU-ATION PROBLEMS—Etiology and treatment of more severe voice and inlation problems. Cleft palate and esophageal speech. Investigation of

EX.ED. 557. AUDIOMETRY AND HEARING AIDS-Study and amation and speech reception tests; interpretation audiograms; principles of struction, fitting and use of individual hearing aids.

of speech etiology and clinical treatment of cerebral palsy, dysarthria, asia, and aphasoid speech problems.

EX.ED. 559. SEMINAR IN STUTTERING—Investigation of recent earth 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 DE. VELOPMENT)—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 de. scription under Education Department, Graduate Courses.

EX.ED. 591. NATURE AND NEEDS OF CHILDREN WHO PRE. and to directions given by the Graduate Division. SENT 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. 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 Niagan

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

GEOG. 503. STUDIES IN RESOURCE CONSERVATION—Principles of conservation of natural resources; selected problems such as soil erosion

Western New York, pollution on the Erie-Niagara Watershed, Great Lakes sheries, flood control and stream improvement, management of farm woodands, the New York State Forest Preserve, recreational resources and wildlife management programs in Western New York.

GEOG. 504. STUDIES IN THE GEOGRAPHY OF NORTH MERICA—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 de-

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 mder Social Studies, Graduate Courses.

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

GEOG. 550. PROJECT—A study undertaken by one or more individuals n a problem of special interest; must be submitted in acceptable form ac-

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

GRADUATE COURSES IN HOME ECONOMICS

HEC. 500. SEMINAR IN HOME ECONOMICS EDUCATION—Re-GEOG. 500. GEOGRAPHY OF EASTERN ASIA—Economic, social at research and problems in the field of Home Economics Education; special GEOG. 500. GEOGRAPHY OF EASTERN TOTAL AND ADDRESS SELECTED BY INCIDENTIAL ADDRESS SELECTED BY INCIDENTIAL AND ADDRESS SELECTED BY INCIDENTIAL ADDRESS SELE

H.EC. 501. WORKSHOP IN HOME ECONOMICS EDUCATION iblems in teaching of Home Economics based upon individual needs and power development, coffee in world trade, chemical and distribution of strategic materials; field studies of a statistic on workshop participants. Individual conferences; group discussion; and distribution of strategic materials; field studies of a statistic one year of teaching experience. Credit: six

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

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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 constructing furnishings; field trips.

H.EC. 511. METHODS AND MATERIALS IN THE TEACHING OF in or department concerned. Credit: four semester hours. 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 continued Education Department. comitant: 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 development in large and small equipment used in homes and schools; field trips, laborator and demonstrations.

H.EC. 516. FAMILI GEOTITAL ARTS—Discussion, research, struction of clothing for the family; management of time and money as the motion individual and group problems in Industrial Arts education. Required struction of clothing for the raining, making discussions, demonstrations, and industrial Arts students registered for the degree of Master of Science. work on problems for which the individual feels a definite need.

HEC. 517. TRENDS IN TEACHING CLOTHING-Interpretation, and evaluation of present trends in the teaching of clothing construction: enhasis on recent techniques and the importance of time and energy manageequipment which can simplify various construction processes.

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

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

HEC. 521. WORKSHOP IN JUNIOR HIGH SCHOOL HOMEMAK-GCURRICULUM—Offers an opportunity to study the planning of junior school homemaking curriculum; study of special needs of youth in this age discussion of processes in achieving learning at this age level.

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

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

H.EC. 550. PROJECT-An undertaking pursued by one or more stuats on some problem closely related to the field of special interest. The meet must be approved by the student's advisor and by the head of the divi-

ED. 575. RESEARCH METHODS AND TECHNIQUES—See descrip-

GRADUATE COURSES IN INDUSTRIAL ARTS

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

H.EC. 516. FAMILY CLOTHING—Purchase, selection, care, and con-

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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 in Industrial Arts textile unit; study of fibers and materials; techniques of immonies.

I.A. 513A. WORKSHOP IN CERAMICS—The Industrial Arts ceramics mogram; basic forming techniques; advanced processes of production in thrownsition; design of ceramic products.

I.A. 513B. WORKSHOP IN CERAMICS—Advanced design in indidual and duplicate methods of production; decoration, glazing and firing; days, glazes and kilns; individual problems; the school ceramics program. Herive 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 pro
methods and devices.

I.A. 515. TRANSPORTATION LABORATORY—Specialized areas of problems; 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 amount and senior high ammunications; 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 substitutes, wood substitutes, wood substitutes and techniques of the wood industries;

I.A. 520. DESIGN IN INDUSTRIAL ARTS—Graduate study of design applied to industrial arts. Research, discussion and practice in originating signs for all areas of industrial arts technical study. Analysis of designs with sussions for suggested redesign.

I.A. 521. NEW METHODS AND TECHNIQUES IN METALWORK—New materials and their possibilities for industrial arts activities; investigate teaching of Industrial Arts.

I.A. 523. INDUSTRIAL ARTS IN THE ELEMENTARY SCHOOL—
motions of Industrial Arts in the elementary school; study of activities for the
motions grade levels; problems of equipment, organization, supplies; planning
motions are executing units of work.

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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 TECH-NIQUES—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. 530. NEW TECHNIQUES IN GRAPHIC ARTS-Experimen tation in papermaking, ink, photography, half-tones, color separation, photoengraving; technical proficiencies in offset printing, publications, letterpres 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

LUM—Development of number; rationale of processes; relationships; generalise zations; 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.

the field of elementary mathematics analysis of research; individual study of a mid, purposes and present scope of science in the elementary schools; proproblem and written report of findings; committee study and reports on problem and written report of findings; committee study and reports on problem and written report of findings; committee study and reports on problem and written report of findings; committee study and reports on problem and written report of findings; committee study and reports on problem and written report of findings; committee study and reports on problem and written report of findings; committee study and reports on problem and written report of findings; committee study and reports on problem and written report of findings; committee study and reports on problem and written report of findings; committee study and reports on problem and written report of findings. lems.

ence, and the functional approach; linear and quadratic functions; graphs and elementary curve tracing; trigonometric, exponential, and logarithmic func elementary curve tracing, disconnected, and integral functions; applicated to date. Prerequisites: Biology, 5 sem. hrs., Sci. 191 or G.S. 203-204. cations and related problems.

MATH. 504. MATHEMATICS OF FINANCE—Theory and applicaof formulas; simple and compound interest; annuities; amortization and sking funds; depreciation; bonds; life annuities and life insurance; related

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

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

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

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

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

GRADUATE COURSES IN MUSIC

MUS. 500. MUSIC IN EDUCATION—Public school music education: ntributions of various composers and music educators to public school MATH. 500. MATHEMATICS IN THE ELEMENTARY CURRICU. and to general culture; required readings; listening to records; ideas

GRADUATE COURSES IN SCIENCE

MATH. 502. WORKSHOP IN MATHEMATICS—Selected topics in SCI. 500. SCIENCE IN THE ELEMENTARY CURRICULUM—Back-

MATH. 503. THE FUNCTION CONCEPT—Relationships, depend- SCI. 501. FIELD STUDIES IN SCIENCE I—Biological and geological work; selected field studies, both group and individual; intensive studies one or more areas. Elective for seniors with an average of C in science

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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 Alle-SCI. 504. REGIONAL STORM of the teacher; identification of wild gany State Park; out-of-doors science for the teacher; identification of wild gany State Park; out-of-doors science for the teacher; identification of wild gany State Park; out-of-doors science for the teacher; identification of wild gany State Park; out-of-doors science for the teacher; identification of wild gany state park; out-of-doors science for the teacher; identification of wild gany state park; out-of-doors science for the teacher; identification of wild gany state park; out-of-doors science for the teacher; identification of wild gany state park; out-of-doors science for the teacher; identification of wild gany state park; out-of-doors science for the teacher; identification of wild gany state park; out-of-doors science for the teacher; identification of wild gany state park; out-of-doors science for the teacher; identification of wild gany state park; out-of-doors science for the teacher; identification of wild gany state park; out-of-doors science for the teacher; identification of wild gany state park; out-of-doors science for the teacher; identification of wild gany state park; out-of-doors science for the teacher; identification of wild gany state park; out-of-doors science for the teacher; identification of wild gany state park; out-of-doors science for the teacher; identification of the gany State Park; out-or-doors and other living things; relationships between decical interpretation of the environment; conservation of natural resources. living things and their environment; geology of the Park, and of western New York. Open to graduate and undergraduate students. Prerequisites: Sci. [101, 201-2, or the equivalent. Several overnight trips. 101, 201-202, or the equivalent.

teachers and administrators; problems of soil, water, forest, wildlife, and stuate Division. Credit: six semester hours. 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 TO-DAY—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 subjectives matter content; methods of teaching; demonstration techniques; pupil experimentation and other activities; analysis of textbooks, laboratory manuals, audiomentation and other activities; analysis of textbooks, laboratory and field trip experiences; problems in evaluate, paleontology, glacial geology and economic geology of New York State; visual aids; the role of laboratory and field trip experience teaching this history of the region. visual aids; the role of laboratory and neid trip experiences, problem and neid trip experiences and neid trip experiences. The neid trip experiences are tripled and neid trip experiences are tripled and neid trip experiences. The neid trip experiences are tripled and neid trip experiences are tripled and neid trip experiences. The neid tripled are tripled and neid tripled and Prequisites: Bachelor's degree, 18 sem. hrs. in science.

SCI. 518. HUMAN BIOLOGY-Origin and development of the human is; human anatomy and physiology; reproduction, embryology, and life genetics of man; conservation of human resources; new problems in biology. Required of all candidates for extension of certification to inthe teaching of science in the early secondary school. Prerequisites: Sci. .202, 303-304.

SCI_523. SCIENCE IN TRANSPORTATION—Application of the onles of physics and chemistry to transportation; friction, momentum, acceleration, fluid pressure, Bernouilli's principle, types of engines, types fiels, combustion of fuels, atomic energy, and other factors involved in the wement of objects. Prerequisites: Sci. 203-204, 303-304.

SCI. 524. SCIENCE IN OUTDOOR EDUCATION-Application of are to problems in cookery, sanitation, shelter, selection of campsite, safety;

SCI. 525. THESIS—An individual investigation of an original problem SCI. 505. CONSERVATION WORKSHOP—A two-week workshop for by submitted in typewritten form according to directions given by the

> SCI. 526 INDIVIDUAL INVESTIGATION OF AN ORIGINAL BLEM IN SCIENCE OR ELEMENTARY SCHOOL SCIENCE EDU-NON—No required class attendance; work to be planned and carried out udent, with consultation and guidance from instructor. For graduate stu-

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

OI. 528. SEMINAR IN SCIENCE EDUCATION—Current trends in me education in the public schools; study of research in science education; f special problems by individual students from their own teaching exme in the early secondary school. Prerequisites: candidacy for extension rificate to include science teaching in the early secondary school; two sperience teaching science in the early secondary school.

II. 531. GEOLOGY OF NEW YORK STATE—Physiography, Strati-

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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,

EL.ED. 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 HIS. \$5.5.506. MINORITY GROUPS IN AMERICAN CULTURE—Major TORY—Aspects of American life since 1900; significant trends, policies, and bitoxical and family, and religious minority groups in America treated from the ideas in politics, diplomacy, and national culture; topics for study dictated by dural, historical, and familial points of view; current anthropological and

S.S. 501A. STUDIES IN TWENTIETH CENTURY EUROPEAN HIS. SS. 507. FIELD COURSE IN THE HISTORY AND GEOGRAPHY TORY: THE GERMAN PROBLEM—Political thought and institutions in NEW YORK STATE—Characteristics of the geographic regions (Allegheny Germany prior to 1914; development of the Weimar Republic; the Hitler Juan, Catskills, Hudson and Champlain Lowlands, Adirondacks, Mohawk movement; structure and ideology of the Nazi Party and state; foreign policy liey, Tug Hill and Black River Valley, St. Lawrence Lowland, and Lake leading to World War II; Nazi rule and defeat in Europe; post-war German [188]; colonial and pioneer settlement; present population pattern; trans-

TORY: THE HISTORY AND INSTITUTIONS OF THE SOVIET UNION ments. Offered only in Summer Session. -Chief factors in tsarist Russia; Revolution of 1917; coming of the Bol-—Chief factors in tsarist Russia; Revolution of sheviks to power; political and social ideology; government and the Com- S.S. 509. LOCAL HISTORY: RESEARCH METHODS AND TECHmunist party; economic system; peasant problem; Soviet foreign policy and its QUES—Research involved in the study and presentation of local history, munist party; economic system; peasant problem, some study and presentation of local history, relation to international organization; impact of the Soviet Union upon the aspecial reference to the Niagara Frontier and New York State; community

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. Prereq sites: 15 hours in Social Studies, including six in American History and si in European History.

S.S. 503. HISTORY OF POLITICAL THEORY—Chief modern co tributors to the political ideologies of democracy, liberalism, conservatism tributors to the political ideologies of democracy, increasing, conservations, career of the Labor Party; pronationalism, socialism, communism, Fascism, and Nazism. Prerequisites: 15 hour social democracy; the changing world position of England. Regis-

S.S. 504. HISTORY OF THE AMERICAN FRONTIER—Progress of SS. 512. THE UNITED STATES IN CONTEMPORARY WORLD S.S. 504. HISTORY OF THE AMERICAN TROUBLE STATES IN CONTEMPORARY WORLD settlement from the Atlantic to the Pacific; transmission of culture; develop-AIRS—United States foreign policy; United States and the United Na-

authan communities; social, economic, and political effects of the westward upon the United States as a whole. Prerequisites: 15 hours in Social endies, including six in American History and six in European History.

§.S. 505. STUDIES IN CONTEMPORARY ECONOMIC PROBLEMS International trade; international finance; inflation; labor legislation; probof labor and management; price levels. Registration with consent of in-

student needs and interests. Prerequisites: 15 hours in Social Studies, including student needs and interests, differences, prejudices, and discrimination. requisites: 15 hours in Social Studies.

questions. Prerequisites: 15 hours in Social Studies, including nine in European entation routes and facilities; forts and battlefields of three wars; industrial relopment; conservation practices; places associated with famous people and mements. One day on campus for orientation and travel arrangements; S.S. 501B. STUDIES IN TWENTIETH CENTURY EUROPEAN HIS. day trip by chartered bus. Open to graduate and upperclass undergraduate

western world. Prerequisites: 15 hours in Social Studies, including nine in cities; discovery, examination, and use of original materials. Prerequisites: hours in Social Studies, including six in American History.

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

S.S. 511. PROBLEMS OF CONTEMPORARY ENGLAND—Rise of & unions; industrial and labor relations; career of the Labor Party; pro-

ments in transportation; the process of state-making; transition from agranta, Atlantic and Pacific commitments; internal problems such as defense action, inflation, and taxation. Registration with consent of the instructor.

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UNITED STATES—Social roots of systems of thought; effects of ideas upon American society; continuing patterns of thought, such as Puritanism: liberal. ism, 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 or ganization; international law; world government; human rights; mutual security; foreign policy; military power; world trade; social problems; econom assistance; communications; the role of social science; the United States relationship to other nations and to international organization; dangers and responsibilities attendant to power and leadership.

S.S. 518. CONTEMPORARY EUROPEAN POLITICAL MOVE MENTS-Organization, campaigns, propaganda, electoral geography, parlia mentary tactics, and national political parties, especially the Commi Socialist, Christian Democratic, Radical Democratic, Peasant, Conservative, and Socialist, Christian Democratic, Reaction Social Studies, including six in European design, consumer Nec-Fascist. Prerequisites: 15 hours in Social Studies, including six in European design, consumer Nec-Fascist. Prerequisites: 15 hours in Social Studies, including six in European design, consumer Nec-Fascist. History.

S.S. 519. CASE STODIES IN BOOM and expenditures; public housing the latter of the students except Art Education majors.

TICS—Structure and practice; revenues and expenditures; public housing the latter of the students except Art Education majors. health, and welfare; planning and zoning; educational-political relationship health, and welfare; planning and bounds, health, and welfare; planning and bounds, and interests. Prerequisites: if ART 406. CREATIVE ART WORKSHOP—Activities and art mate-topics selected in accordance with student needs and interests. Prerequisites: if ART 406. CREATIVE ART WORKSHOP—Activities and art matehours in Social Studies, including six in American History and/or Government Open to qualified seniors with consent of instructor.

SOCIAL STUDIES—Consideration of unit, topic, discussion, project, problem imajors.

S.S. 513. SOCIAL AND INTELLECTUAL HISTORY OF THE alaboratory methods; teaching aids such as film strips, pictures, models

SS 521. CONTEMPORARY SOCIAL PROBLEMS-Problem areas of orican society; sources of information; techniques for discovering and analyzgocial problems; analysis of several major problems, selected in accordance student needs and interests. Prerequisites; course in elementary Sociology. ben to qualified seniors with consent of instructor.

\$5, 525. THESIS-An individual investigation of an original problem be submitted in typewritten form according to directions given by the induate Division. Credit: six semester hours.

\$8, 550. PROJECT-A study undertaken by one or more individuals a problem of special interest; must be submitted in acceptable form accordin directions given by the Graduate Division. Credit: four semester hours.

FLED. 575. RESEARCH METHODS AND TECHNIQUES—See deention under Graduate Division, Education Department.

NDERGRADUATE COURSES OFFERED IN EXTENSION 1959-1961

The following list of undergraduate courses includes only those rses scheduled to be given during the extension years 1959-1960, 1961. For complete list of undergraduate courses consult general

Art Division

ART 256. ART IN EVERYDAY LIFE-Art as related to personal home, school, community, industry, and commerce; architectural and indesign, costume design, consumer education, interrelationship of the arts.

ART 400. WORKSHOP IN CRAFTS I-Creative experiences in a S.S. 519. CASE STUDIES IN LOCAL GOVERNMENT AND POlicy of crafts such as leather, metal, ceramics, and jewelry; individual

watercolor, powder paint, finger paint, tempera, inks, dyes, crayon, cardboard, wood, cloth, soap, clay, plaster, rubber, plastics, wire, thin S.S. 520. WORKSHOP IN METHODS AND MATERIALS It says and other materials. Elective for all students except Art Educa1!

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ART 458. THEATRE DESIGN I-Philosophy, techniques, and practices in design for the dramatic arts; scenery, costume, makeup, lighting and allied stage crafts; model sets and production work. Required of all Art Education seniors.

Education Department

EL.ED. 487. TEACHING THE LANGUAGE ARTS IN THE ELE-MENTARY SCHOOL—Recent research in spelling, written communication, oral communication, reading, creative writing, listening skills; implications oral communication, reaching, stunts and class-room for creating learning experiences for children; developing a language arts selection of activities; safety in physical education. Required of Eleprogram. Open to undergraduate experienced teachers.

English Department

ENG. 205. GENERAL LITERATURE—Literary masterpieces of West. ern civilization: English and American poetry and prose: translations from ern civilization: English and American personal required of all Art Education swage disposal; food sanitation; safety education. Prerequisite: H.Ed. 201. sophomores.

ENG. 210. CHILDREN'S LITERATURE—Types of children's literature: folklore, modern informative material, fiction, biography, and poetry; MUS. 304. MUSIC FOR CHILDREN I—Music experiences for the ture: Tolkiore, modern interests of books; reading interests of sery, kindergarten, and primary grades; activities: singing, rhythms, listenprinciples of book selection, industry. Suppose the principles of book selection, industry, and principles of book selection, industry, instending of book selections, instending of boo seniors.

ENG. 306. ADVANCED SPEECH—Informative talks; individual and group reading of poetry; story telling. Elective for sophomores, juniors, and seniors.

bate; parliamentary procedure; panel presentations; interview techniques; oral cure for students who have had Sci. 201-2; other by permission of inreports. Elective for juniors, and seniors.

ENG. 345. RADIO AND TELEVISION IN EDUCATION—Broad casting and its history; program evaluation; recordings; radio and televisi in the classroom; tours of broadcasting facilities; research paper. Elective for sophomores, juniors, and seniors.

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

ENG. 402. CONTENTS of the novel, and the drama Required elective for other Elementary Education juniors, and seniors. Other classes literature of the twentieth century: poetry, the novel, and the drama Required elective for other Elementary Education juniors, and seniors. of all Elementary Education seniors.

ENG. 405. SHORT WRITINGS IN THE FAMILIAR STYLEformal writings of Beerbohm, Leacock, Thurber, Lewis Allen, Heywood Bronn E. B. White and others.

FNG. 407. ROMANTIC MOVEMENT—Romantic poetry and prose: . Wordsworth, Coleridge, Scott, Byron, Shelley, Keats; critics of the Elective for sophomores, juniors, and seniors.

Health and Physical Education Department

PED. 301. PHYSICAL EDUCATION—Principles of physical eduphysical education in the elementary school; teaching motor skills; Jamental play, relays, lead-up games; rhythms, stunts and class-room Education and Exceptional Children Education juniors. Prerequisite: Ed. 101 and 102.

HED. 402. HEALTH PROTECTION—School and community health dlems; school health service; communicable disease control; water supply

Music Department

s of materials and equipment. Elective for sophomores, juniors, and seniors.

Science Department

SCI. 305. ZOOLOGY-Morphology, physiology, adaptation, reproduc-ENG. 309. PUBLIC DISCUSSION—Group discussion, including de agenetics and ecology of animals. Lectures, demonstrations, laboratory work.

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

SCI. 310. SCIENCE IN THE ELEMENTARY GRADES—Background unction of elementary school science together with its subject matter; instrations, experiments, visual and other materials used in elementary ENG. 402. CONTEMPORARY LITERATURE—British and America of science. Required of juniors in the Elementary School Science Sequence r their equivalent.

> SCI. 421. HUMAN ANATOMY AND PHYSIOLOGY—Structure and tion of the human body, including metabolism, nutrition, and disease.

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Social Studies Department

- 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. 303. HISTORY OF EUROPE SINCE 1914—Causes, events, and results of World War I; treaty settlements; post-war developments and problems; areas of friction; the League of Nations; World Court; Fascism; events leading to World War II; important developments to the present time. Offered in Extension only.
- S.S. 304. AMERICAN HISTORY TO 1789—Early American history from the discovery and settlement of the New World to the formation of the Constitution; European influences; growth and development of the English colonies; the Revolution; establishment of the new nation. Elective for sophomores, juniors, and seniors.
- S.S. 305. AMERICAN HISTORY FROM 1789-1865—Adoption of the Constitution; formation and growth of political parties; rise of national spirit Jacksonian democracy; westward movement; sectionalism; the Civil Wat
- S.S. 335. PRINCIPLES AND PROBLEMS OF ECONOMICS—Basic principles; contemporary problems and trends; labor-management relations; prices and inflation; pre-war, war-time and post-war adjustments.
- S.S. 343. CULTURAL ANTHROPOLOGY—Man as a physical form; culture in its relation to society, to the individual, and to personality; pre-historic developments of culture; universals and variations in cultures; cultural traits and institutions; dynamics of cultural change. Elective for sophomore, juniors, and seniors.
- S.S. 402. SOCIOLOGY—Rise and development of culture; culture change; social organization and social institutions. Required of Elementar Education seniors.
- S.S. 408. TWENTIETH CENTURY EUROPEAN DIPLOMACY-Causes and diplomatic problems of World Wars I and II; intervening diplomatic history; Paris Peace Conference of 1919; present world diplomatic situation. Elective for sophomores, juniors, and seniors.
- S.S. 426. CONTEMPORARY ECONOMIC PROBLEMS—Price more ments; business trends; labor and management; trade; agriculture in the mental economy. Elective for sophomores, juniors, and seniors.

OFF-CAMPUS EXTENSION

Proposed courses First Semester 1959-1960

ec	Mathematics in the Elementary Curriculum
	Marker Eng. 501x The Modern American Nove
ry	Theektowaga Ed 505 E
he	CheektowagaEd. 505x Evaluation Techniques in the
sh	Flementary Calant
10-	MenSci. 500x Science in the Elementary Curriculary
	ImaGeog. 505x Geography of the Mediterranean Lands
he	incaster El El Teatre Meatterranean Lands
it;	IncasterEl. Ed. 516x Methods and Materials in the
II.	Llementary Charl
	MedinaEx. Ed. 591x Nature and Needs of Children Who
ic	Present Exception 1 P. di
S;	Present Exceptional Problems of Learning
	magata FallsEl. Ed. 546x The Togghing to
11	The International Relations and the World Today
e.	Expoint Central School (Lockport) S.S. 515x Studies in American
al	(Lockport) S.S. 515x Studies in American
. 1	Colonial History
-	Math. 501x Workshop in Mathematica
-	Son
1	Floring The Edward Arts in the
	Elementary School

