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1962

College Catalog, 1962-1963, Graduate-Summer

Buffalo State College

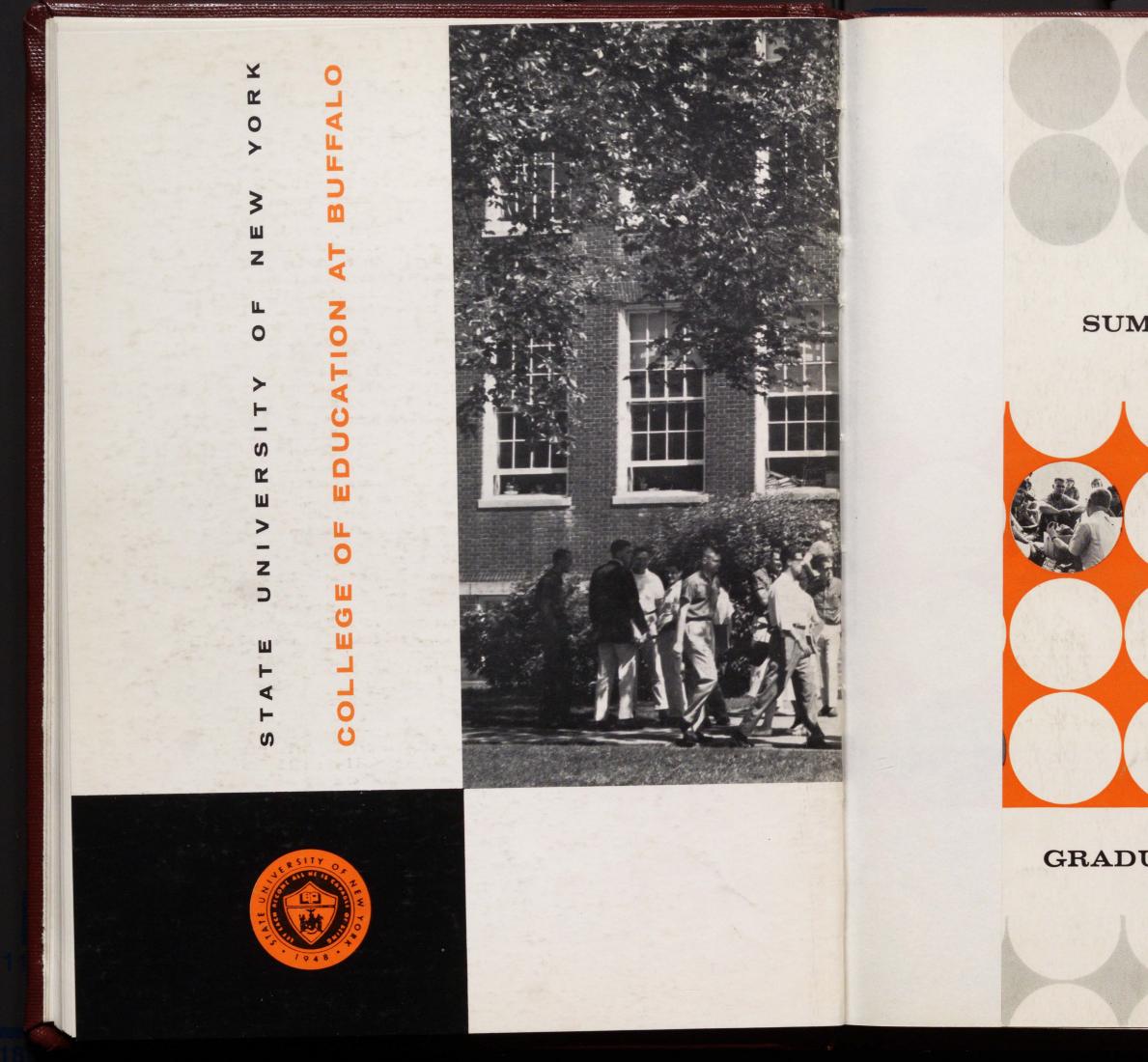
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SUMMER SESSIONS 1962

BUTLER LIBRARY STATE UNIVERSITY COLLEGE AT BUFFALO BUFFALO 22, NEW YORK



GRADUATE EXTENSION 1962-63

at BUFF College University State

THE COLLEGE CALENDAR

1962 SUMMER SESSION

Tuesday, May 1 Monday, July 2

Tuesday, July 3 Wednesday, July 4 Saturday, July 7 Wednesday, August 1 Friday, August 10 Monday, August 13 Friday, August 24 Pre-registration—Summer Session and Post Session begins Registration—Summer Session and Post Session Graduate Students 8:00-12:00—Rockwell Hall Undergraduate Students 1:00-4:00—Rockwell Hall Instruction begins No classes Classes meet Pre-registration for Fall Semester begins Six week courses end Post Session begins All sessions end

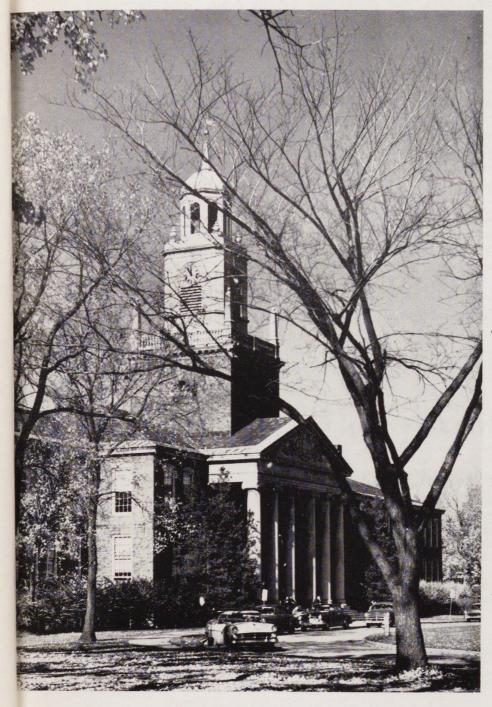
FALL SEMESTER 1962-63

Saturday, September 15 Tuesday, September 18 Saturday, November 24 Saturday, December 1 Saturday, December 22 Saturday, January 5 Saturday, January 19

Registration 8:30-12:30—Rockwell Hall NO REGISTRATIONS AFTER THIS DAY Instruction begins Thanksgiving recess Pre-registration for Spring Semester begins Christmas recess begins Classes resume Semester ends

SPRING SEMESTER 1962-63

Saturday, February 2 Tuesday, February 5 Saturday, April 13 Tuesday, April 23 Wednesday, May 1 Saturday, June 1 Registration 8:30-12:30—Rockwell Hall NO REGISTRATIONS AFTER THIS DAY Instruction begins Easter recess begins Classes resume Pre-registration—Summer Session and Post Session begins Semester ends



STATE UNIVERSITY COLLEGE AT BUFFALO SUMMER SESSION, 1962, AND GRADUATE EXTENSION, 1962 - 63

VOLUME XXX/number 2/Buffalo, New York/June 1962

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The State University of New York was established by the State Legislature in 1948. It comprises 48 colleges. Twenty-eight of them are State colleges and 20 are locally-sponsored community colleges. Although separated geographically, all are united in the purpose to improve and extend opportunities for youth to continue their education after high school.

State University offers cultural and professional four-year programs in liberal arts; science, mathematics, and engineering; home economics; industrial and labor relations; veterinary medicine; ceramics, agriculture; forestry; maritime service; medicine; and teacher preparation, as well as two-year programs in a wide variety of fields, including technical courses in agricultural, industrial, health, and service areas. Several of its colleges offer graduate programs.

Governed by a Board of Trustees appointed by the Governor, State University of New York plans for the total development of State-supported higher education. Each college of State University is locally administered. Students should write directly to the institution in which they are interested for admission forms.

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

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

STATE UNIVERSITY OF NEW YORK

The Board of Trustees

T I G M II D II D Chairman	Buffalo
Frank C. Moore, LL.B., L.H.D., LL.D., Chairman	10
Mrs. John A. Warner, Vice-Chairman	New York City
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City

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City

THE COLLEGE

The Local Cou Mrs. James H Mrs. John R. Joseph L. Fin Joseph F. Hig Patrick Hodgs David J. Lauk Mrs. James C. Philip W. Pat Mrs. Henry Z.

Paul G. Bulger, B.S., Robert W. MacVittie, B.E., Van E. Quaal, A.B., Charles B. LaMorte, A.B., Virginia A. Pratt Jerome E. Bartow Morton R Charles E. Ball, B.S., Betty N Stanley A. Czurles, B.F.A., M Katheryne T. Whittemore, A.B., Lorraine A. Lange, B.A., Horace Mann. A.B., William D. Baker, B.A., David A. Rogers, B.A., Steven Gittler, B.A.,

> Margaret A. Grant. B.S., Kenneth W. Brown, B.S..

Taisto Niemi, A.A., B.S., Ruth Sugarman, B.S. **Helen** Thielkin Robert T. Redden, B.E., John A. Centr Harold J. Steffen, B.S., Marian Carroll, B.A. George R. Sherrie, B.S., June Tr Fred **Rogers** Augustin Madeline Turner, R.M. **Dorothy Eell Charlot Fet**

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I. Righter, Chairman	1963
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Administrative Officers

, M.S., Ed.D.	President of the College
M.A., Ed.D.	Dean of the College
, A.M., Ed.D.	Associate Dean of the College
, M.A., Ed.D.	Dean of Students
t, A.B., M.A.	Associate Dean of Students
w, B.A., M.A.	Associate Dean of Students
R. Lane, B.S.	Senior Financial Secretary
, M.A., Ed.D.	Planning and Development Officer
McCann, B.S.	Public Information Director
I.F.A., Ph.D.	Director of Art Education
A.M., Ph.D.	Director of Arts and Sciences
M.A., Ph.D.	Director of Elementary and Secondary Education
A.M., Ph.D.	Director of Exceptional Children Education
M.A., Ph.D.	Director of General Studies
M.A., Ph.D.	Director of Graduate and Extension Division
M.A., Ed.D.	Associate Director of Graduate Division and
	Director of Summer Sessions
M.S., Ed.D.	Director of Home Economics Education
, M.S., Ph.D.	Director of Industrial Arts Education

OTHER COLLEGE OFFICERS

Niemi, A.A., B.S., A.M., Ph.D.	College Librarian
th Sugarman, B.S., M.A., Ed.D.	Principal, Campus School
Helen Thielking, B.S., M.S.	Campus School Librarian
T. Redden, B.E., M.Ed., D.S.S.	Director of Admissions
John A. Centra, B.A., M.A.	Coordinator of Field Services
d J. Steffen, B.S., Ed.M., Ph.D.	Coordinator of Audio Visual Services
rian Carroll, B.A., M.A., Ed.D.	Director, Child Study Center
R. Sherrie, B.S., Ed.M., Ed.D.	Coordinator of Evaluation Services Center
June Truesdale, B.S.	Executive Secretary of Placement
Fred R. Ray, B.S.	Assistant Dean of Students and College Union Directed
Rogers Augustine, B.A., M.A.	Assistant Dean of Students and Director of Residence
deline Turner, R.N., B.S., M.A.	Coordinator of Health Services
Dorothy Eells, A.B., M.A.	Senior Registrar
Charlot Fetterman, B.S.	College Bookstore Manager
Joseph Cannamela, A.S., B.S.	Food Services Manager

VISITING FACULTY Summer Sessions 1962 and Graduate-Extension 1962-63

John Carlson, B.S., M.A. Elementary School Principal, Jamestown, New York

Charles Gambert, B.S., M.S., M.Ed. School Psychologist and Supervisor of Special Education, Niagara Falls. New York

David Hallowitz, B.S., M.S.W. Chief Psychiatric Social Worker, Psychiatric Clinic, Buffalo, New York

- Gordon Klopf, B.S., Ph.M., Ph.D. Associate Professor of Education, Teachers College, Columbia University Helen Frances Kyle, B.S., M.S., Ed.D. Associate Professor of Education, University of Colorado, Boulder,
- Colorado

Teresa Lawrence, B.A., M.S. Erie County Chapter, New York State Association for Retarded Children

Kenneth Macrorie, B.A., M.A., Ph.D. Assistant Professor of English, Western Michigan University, Kalamazoo, Michigan

Rita Moretti, B.S., M.S. Principal, 95th Street School, Niagara Falls, New York

Cecil E. Palmer, B.S., M.A. Instructor in Meteorology, Syracuse University

Theodora Reeve, A.B., M.A. Associate in Child Development, State Education Department

Marjory Reidel, B.S. Exceptional Education Teacher, Park Elementary School, Clarence, New York

Alfred Sadroga, B.S., M.A. Head of Industrial Arts Department, West Seneca Central School

- Paul Scheid, A.B., A.M., Ph.D. Professor of Education, Auburn University, Auburn, Alabama
- Frederick W. Schneider, B.S., M.Ed., Ed.D. Assistant to Dean, Division of Education, San Jose State College, San Jose, California
- Ella Martha Snader, A.B., M.S., Ph.D. Professor of Mathematics, District of Columbia Teachers College, Washington, D. C.

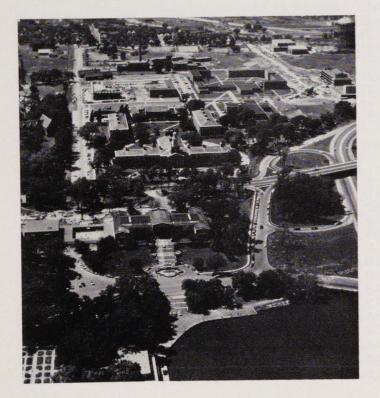
James D. Strauch, B.S. Special Class Teacher, Baldwinsville Academy

Richard Whitford, B.A., B.Ed., C.A.S., M.A., Ed.D. Senior Superintendent, State Education Department, Tasmania, Australia and Professor of Education

Ruth Wild, B.S., M.S. Art Teacher, Buffalo Public Schools

Francis Wyroba, B.S., M.A. Art Teacher, Clarence Central School

LOCATION OF THE COLLEGE



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

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

ADMISSION TO THE SUMMER SESSION

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

Graduate Courses

1. A student wishing to attend courses in the Graduate Division during the Summer Session should complete the application blank to be found on Page 47.

However, admission as a special student does not constitute admission to any curriculum of the Graduate Division. Such special students may be admitted to full graduate status by meeting all requirements and completing all procedures as outlined elsewhere in this bulletin.

Undergraduate Courses

Admission to the Summer Session does not constitute admission to the Regular Session. Consult the General Catalog or write to the Director of Admissions for information and application form.

To enter the accelerated program a student must have the approval of the Director of the Division offering this program.

PRE-REGISTRATION

Students may pre-register for Summer Session and Graduate-Extension courses. Course rosters will be available in the Graduate Office. Rockwell Hall 115, beginning May 1st for Summer Session, August 1st for the Fall Semester and December 1st for the Spring Semester. Students may sign these rosters and thereby reserve a place in the class, if the student is eligible for the course. Eligibility will be determined by the instructor on registration day. Places will be held until 10:30 A.M. on registration day. Mail pre-registration will be accepted but no pre-registration by telephone will be permitted.

2. A graduate student working for certification and not expecting to become a degree candidate, or wishing to transfer credit to another institution, may be admitted as a special student upon completion of the graduate application blank.

1. Students now in regular attendance at the College must have written approval from the Director of their Division to register.

2. Students attending another college are requested to have written approval of their proposed summer session courses by an authorized official of the college in which they are in good standing. Application form will be found on Page 49.

TUITION AND FEES

The State University of New York has authorized the collection of tuition and fees for Summer Session and Graduate-Extension courses, at a uniform rate.

The schedules as of September 1, 1961 are as follows:

GRADUATE-EXTENSION

Tuition	\$20.00	a credit	hour
No other fees are charged during the sprin	ng and fal	l semeste	rs.

SUMMER SESSION

Tuition	\$20.00 a credit hour
College Fee	\$ 1.75 a credit hour, Maximum \$10.00
Student Activity Fee	\$ 2.00
Late Registration Fee	\$ 1.00 a day Maximum \$3.00

All students enrolled in special programs, on-campus or offcampus, pay the College Fee of \$1.75 a credit hour. All students taking on-campus courses, regardless of their duration, pay the Student Activity Fee of \$2.00. Students in the Accelerated Program pay the College Fee and Student Activity Fee.

Refunds will be made in the Summer Session to students who withdraw within the first five scheduled days. No refunds will be made after this period unless withdrawal is for entering military service.

FEE WAIVERS

Supervising teachers who are entitled to reductions in fees should obtain a statement of such waiver from their college supervisor and present it at the time of tuition payment.

SCHEDULE

First Period	8:00- 9:20
Second Period	9:30-10:50
Third Period	11:00-12:20
Fourth Period	12:30- 1:50

All classes will meet Monday through Friday except as otherwise indicated. Classes will also meet on Saturday, July 7, 1962.

STUDENT PERSONNEL PROGRAM

Activities Program

The Summer Session Activities program complements the academic program at Buffalo. Various educational, cultural, and recreational events are available according to student interest. These may include such things as convocations, musical productions, drama forums, exhibits, tours to places of interest on the Niagara Frontier and to the Stratford, Ontario Shakespeare Festival, dances, teas, music hours, films, and coffee hours.

Many of these activities center in the College Union which has been called "our campus living room." It is equipped with lounge, music room, snack bar, dining room, game room and outdoor recreational area. All summer session students have the opportunity to enjoy its facilities, but it is especially available for those living in the residence halls. In addition, the college camp (located in Cattaraugus County) may be reserved for weekend group use.

The Summer Session Activities Program is developed by the Summer Session Activities Board, a studentfaculty committee under the supervision of the Office of the Dean of Students. The Summer Session Activities Board secretary is available at all times for help and information.

Financial Aids

All Summer Session students may make use of the counseling service on financial problems offered by the Office of the Dean of Students. All correspondence relating to scholarships, loans, and part-time employment should be addressed to the Coordinator of Financial Aid.

Graduate students and students from other colleges are for the most part not eligible for loans at the College. Such students should be prepared to finance their summer expenses entirely from their own resources.

Food Service

Facilities for food service will be provided in the New Dining Hall Building. The cafeteria will be open from 10:30 a.m. to 1:30 p.m. Monday through Friday. The snack bar will be open daily, Monday through Friday, from 7:15 a.m. to 4:30 p.m. Breakfast and light meals will be available in the snack bar throughout the day. No food service will be provided on weekends. Vending machines, providing sandwiches and drinks, will be placed in several locations throughout the campus.

Health Service

The Health Office, Rockwell Hall, Room 112, will be open daily from 8:15 to 3:30. Emergency, first aid and health counseling services will be available. Any student registered in the Summer Session may avail himself of these services.

Housing

All freshman, both men and women, who do not reside with a parent or spouse are required to live in the Residence Halls during the Summer Sessions.

All undergraduate women under 21 years of age who do not reside with a parent or spouse must live in the Residence Halls or in rooms or apartments inspected and approved by the College. Apply to Director of Residence for exemptions from the housing regulations.

Residence Halls. Most rooms accommodate two students at \$7.00 per person per week, however, a few single rooms are available at \$10.00 per week. Rooms are equipped with beds, desks, chairs, closets, and dressers. Students are expected to provide sheets, pillows and case, blankets, and desk lamps. Linens and pillow may be rented. Reservations are made through the Office of the Director of Residence. An application is on page 49.

Rooms and apartments off-campus. Men students may choose any off-campus residence during Summer Session. Undergraduate women under 21 who do not reside with a parent or spouse must live in the Residence Halls or in rooms or apartments inspected and approved by the College. A list of rooms and apartments from which a summer residence must be chosen is available from the Director of Residence.

Veterans Affairs

All veterans planning to use their educational benefits under Public Law 550 or 894 must register at the beginning of the Summer Session in the office of the Dean of Students. In addition, veterans under Public Law 550 are required to submit monthly certification of attendance to the Office of the Dean of Students. A veteran planning to apply for educational benefits for the first time must make an application to the Veterans Administration regional office. It is recommended that this application be made at least one month prior to registration at the College. The Office of the Dean of Students also serves to coordinate informational services to veterans and assists in liaison with public agencies.

CAMPUS SCHOOL

A Campus School Program with children from kindergarten through grade six is an integral part of the Summer Session program. This type of school experience affords enrichment for the children who attend and provides an opportunity for Summer Session students to work with pupils under the supervision of master teachers. There will be one grade available for continuous observation through a one-way vision screen in Room 105. Any group or class may use this room for observation. Information concerning the Campus School may be obtained from Dr. Ruth Sugarman, Principal, Campus School.

LIBRARY FACILITIES

A collection of over 90,000 volumes and over 700 current periodicals is accessible in the Edward H. Butler Library. The Reference Reading Room, the Reserve Book Room, and the Recreational Reading Room afford areas for study and cultural reading. Recordings on musical and non-musical subjects are available for music appreciation, speech classes, and recreational listening. The microfilm editions of the New York Times and the Buffalo Evening News, periodicals and doctoral dissertations, are available for reading with the necessary specialized equipment. Additional books and materials from the State Library at Albany are secured through inter-library loans. Special exhibits featuring topics of general interest to the college community are prepared by the faculty, students, and the library staff.

Summer Session students may use the resources of the Laboratory of Instructional Material, consisting of story books, elementary school textbooks, pamphlets, slides, records, filmstrips, and pictures.

The Campus School Library in the Campus School contains a collection of books, magazines, recordings and filmstrips especially selected for children.

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

SPECIAL FEATURES

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

Foreign Study Program

For the sixth consecutive year the State University of New York and the Experiment in International Living offer an opportunity to discover another country from the inside out-to meet its people as one of them-and at the same time to earn eight semester hours of graduate or undergraduate credit. The foreign study programs, each including a three week stay as a member of a congenial host family in a foreign country, are offered under the leadership of full-time staff members of the State University College at Buffalo.

During the 1962 Summer Session the State University College at Buffalo is offering a Foreign Study Program-Art in Mexico-under the direction of Professor Clement Tetkowski. During the summer of 1959, Dr. Tetkowski led a State

University group studying Art in Europe and during the 1960 summer session he led a State University group studying Art in Mexico. During the academic year 1961-62 Dr. Tetkowski is directing the Buffalo semesters in Siena, Italy. The 1962 Foreign Study Program Art in Mexico will begin in late June or early July in Mexico City. Cities included in program are Guanajuato, San Miguel Allende, Guadalajara, Oaxaca, Yucatan and others. There will also be an opportunity for four or five days of independent travel.

New York State sponsored Institute for Elementary Teachers

July 2-August 10

The New York State Education Department is sponsoring a Summer Institute for Elementary Teachers that will provide tuition and fees for six semester hours. Teachers accepted in this program will enroll for Mathematics in the Elementary Curriculum and Science in the Elementary Curriculum for either graduate or undergraduate credit. For further information and application forms write to Dr. Steven Gittler, Director of Summer Sessions, State University College, Buffalo 22, New York.

Workshop in Reading in the Secondary School July 2-July 14

July 14. Three semester hours of graduate credit will be given for this course. Dr. Helen Kyle of the University of Colorado, Boulder, Colorado, will direct the workshop. This workshop will provide an opportunity for the students to gain an understanding of the reading process, the role of reading in every area of learning, the various aspects of an effective reading program, the skills in reading that are needed in all areas of learning, ways of evaluating and analyzing student's progress in reading, and becoming acquainted with reading materials. This workshop is designed for teachers, administrative and supervisory personnel.

Workshop in Secondary School Problems and Methods July 23-August 10

A workshop in Secondary School Problems and Methods will be held from July 23-August 10. Three semester hours of graduate credit will be given for this course. This workshop will be involved with clarifying the objectives of secondary school education, basic principles of learning and motivation; curriculum concepts; organizing learning experiences; providing for individual differences; teacher-pupil planning; selecting and organizing learning materials; audio-visual aids to learning; utilizing school, civic and community resources. Dr. Paul Scheid, Professor of Education at Auburn University, Auburn, Alabama, will direct the workshop. This workshop is open to teachers or school personnel interested in secondary education.

Workshop in Guidance

August 13-August 24

This workshop is designed for teachers, administrative supervisory personnel and counselors. The workshop can be regarded as an introductory course for those who have not had previous graduate work in the field of guidance, but will have real significance for those already in the field of guidance in secondary and elementary education. Two semester hours of graduate credit will be given for the course.

Dr. Gordon J. Klopf, Associate Professor of Education in the Department of Guidance and Student Personnel Administration at Teachers College, Columbia University, will be the instructor for the course. He has had teaching and guidance experience at various levels of education and in community agencies. He is an author in the field and has worked closely with counselors in schools in New York State.

6

A workshop in Reading in the Secondary School will be held from July 2-

Workshop in the Teaching of Reading in the Elementary School August 13-August 24

A workshop in the Teaching of Reading in the Elementary School will be held from August 13-August 24. Two semester hours of undergraduate credit will be given for the course. This workshop provides an opportunity to explore newer programs in reading, explore teaching materials and examine trends in the teaching of reading today. This workshop is limited to experienced teachers.

Miss Eleanor Kelly, Associate Professor at State University College, Buffalo, will direct the workshop. Miss Dorothy Cooke, Staff Coordinator of Reading, State Education Department, will be a resource person for several days.

A permit to attend this workshop must be obtained from the Director of Elementary Education, State University College at Buffalo, New York.

Workshop in the Teaching of Language Arts

August 13-August 24

A workshop in the Teaching of Language Arts in the Elementary School will be held from August 13-August 24. Two semester hours of graduate credit will be given for this course. This workshop provides an opportunity to consider factors which influence language growth, the inter-relationship of the language arts, and recent developments in the area of communication.

Dr. Mae O'Brien, Professor of Education at State University College, Buffalo, will direct the workshop. Miss Dorothy Cooke, Staff Coordinator of Reading, State Education Department, will be a resource person for several days.

Workshop in Economics

August 13-August 24

A major feature of the workshop will be small group study in the areas of: economics in the curriculum; the American economic system; money, banking, and credit; the economy of the Niagara Frontier; labor-management relations; and United States foreign economic policy. Field trips will be scheduled for several afternoons. The staff includes the workshop directors, Mr. John G. Boyd, assistant professor of economics, and Dr. Allen G. Sexton, professor of history, and consultants. Two semester hours of graduate credit. Limited enrollment.

Literary Study Tour of New England

August 13-August 24

The fourth Literary Study Tour of New England is being organized as a post session graduate and undergraduate course by Dr. Benjamin F. Gronewold, Professor of English. The study tour will begin in Boston on Monday, August 13 and will continue in Boston until Friday, August 24. Two graduate or undergraduate credits may be earned.

A Boston hotel will be study tour headquarters. The program includes visiting the literary and historical landmarks in and about Boston: the homes of Emerson, Hawthorne, Whittier, and Longfellow; the battlegrounds at Concord, Lexington, and Bunker Hill; the Adams family home; Thoreau's Walden Pond; and many other places.

Workshop in Kindergarten Education

August 13-24

The Bureau of Childhood Development and Parent Education of the New York State Education Department in cooperation with our college is sponsoring a Workshop in Kindergarten Education. Teachers interested in this area will register for Ed. 515 or Ed. 308 for two semester hours of credit. Miss Theo Reeve, Associate in the Bureau of Childhood Development will be in charge of the workshop.

Book Exhibit Wednesday, July 11

The College will sponsor a book exhibit in the College Union Dining Room on Wednesday, July 11. More than thirty exhibitors from the leading text book publishers will be present. All are invited to attend.

ACADEMIC INFORMATION

UNDERGRADUATE PROGRAM

Programs of study leading to the degree Bachelor of Science in Education are offered in Art Education, Early Childhood Education, Elementary Education, Early Secondary Education, Secondary Education, Exceptional Children Education, Home Economics, and Industrial Arts.

ACCELERATED PROGRAM

- **CANCELLATIONS AND CHANGES** The college reserves the right to cancel any course for which there is insufficient registration, to substitute a different instructor, and to change the time of class meetings.
 - CLASS LOAD A full-time academic load during he six weeks summer session is six semester hours. Undergraduate students may be permitted to carry additional hours with the written approval of their Division Director.
- STANDARDS AND REGULATIONS The academic standards and regulations observed during the regular college year prevail in the Summer Session. Please refer to the Graduate Academic Regulations on page 22. Undergraduate students refer to the General Catalog of the College.
 - TRANSCRIPTS Students who want copies of their academic record sent to another institution should file a request form for this service in the Registrar's office. No fee is charged for the first copy of a transcript.

A summer program restricted to accelerated undergraduates will last from July 2 through August 24. Regularly-enrolled degree candidates are assigned to these classes by the directors of divisions, which have established a sequence of courses that enable students to complete their college requirements in less than four years.

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

SCHEDULES

1962 INTER-SESSION

Credit Instructor

June 23-July 2

Workshop in Welding Transportation		2 2	Fontana Sadroga
1962 SUMMER SESSION	Undergraduate Courses		

July 2-August 10

Anti		(Credit	Faculty	Time
	181	Fundamentals of Photography	3	Mr. Wyroba 8	:00-10:50
	400	Workshop in Crafts	3	Dr. Winebrenner	
	406	Creative Arts Workshop	3		:30- 2:30
	400	Creative Arts workshop	-		:30- 2:30
				min. mison 12	
EDUCATION					
	152	Human Growth & Development	3		:00- 9:20
	308	Seminar in Ea. Childhood Ed.	3		:00-12:20
	402	Seminar in El. Sch. Teaching	3 3		:30- 1:50
	410	Philosophy of Education	3		:30-10:50
	461	Safety Education	3	Mr. Meyer 11	:00-12:20
	463	Driver Education	3	Mr. Meyer 8	:00- 9:20
	465	Audio-Visual Education	3	Miss Wild 11	:00-12:20
	486	Methods & Matls. in El. School	3	Mr. McComb 8	3:00- 9:20
	487	Teaching Lang. Arts in El. School	3	Mrs. Muck 9	:30-10:50
	407	Teaching Dang, Tito in Dir School			
ENGLISH					00.10.00
	250	Types of British & Amer. Lit. I	3	00	:00-12:20
	220	Creative Writing	3		:30-10:50
	402	Contemporary Literature	3	Dr. Greenwood 8	3:00- 9:20
	420	Oral Interpretation	3	Miss Goossen 12	2:30- 1:50
	451	Types British & Amer. Lit. II	3		3:00- 9:20
	451	Types British & Amer. Lit. II	3	Dr. Sherwin 11	1:00-12:20
CENED AL STU	DIES				
GENERAL STU		Mathematics and Modern Life	2	Mr. Hilaire	8:20- 9:15
	103		2		9:30-10:25
	201 301	Family Living Ideas of Man & His World of Lit.	3		1:00-12:20
		Ideas of Man & His World of Lit.	2		9:30-10:25
	302		3		8:00- 9:20
	401	Ideas of Soc. Changes in West. Civ.	3		8:00- 9:20
	401	Ideas of Soc. Changes in West. Civ.	5	DI. Weaver	0.00 9.20
GEOGRAPHY					
01001111	301	General Geography I	3		1:00-12:20
	402	General Geography II	3	Beaudet	9:30-10:50
HEALTH, PHY	SICA	L ED. & RECREATION	1/	M. M. Alem 1	1.00 12.20
	P.E.	102 Phy. Ed. Act. (Gym) Men & Women	1/2	Mr.MacAdam 1	M, W
	DE	102 Dhy Ed Act (Swim) Man & Woman	1/2	Mr.MacAdam 1	
	P.E.	102 Phy. Ed. Act. (Swim) Men & Women	72		T, Th
	P.E.	301 Physical Education	2		:30-10:50*
		303 Coaching I	3		9:30-10:50
		204 Org. & Leadership in Recreation	3	Mr. MacAdam	8:00-9:20

* 4 days-Monday through Thursday

ART

517 Teaching Lan517 Teaching Lan 521 The Element 521 The Element 531 Supervision 533 Workshop in 537 Evaluation in 538 Comparative 541 Social Found 542 Seminar in S

** Additional laboratory time available # State Education Department grants a

10

ART

	Credit	Faculty Time
e Elem. School	2	Dr. Waagen 8:00- 9:20
tics in Elementary Grades	3	Dr. Rodney 9:30-10:50
Children I Children II	3 3	Mr. Mitchell 11:00-12:20 Dr. Boyd 9:30-10:50
n Elementary Curriculum	3	Mr. Sergiovanni 8:00- 9:20**
es I	3	Dr. Eckert 11:00-12:20**
CS	3 3 3	Dr. Laug 9:30-10:50**
	3	Dr. Laug 12:30- 1:50**
ory of American People	3	Dr. Brunger 11:00-12:20
can Community	3	Mr. Foladare 12:30- 1:50
Politics and Political Parties	3	Mr. Stone 11:00-12:20
of Economics	3	Mr. Boyd 9:30-10:50
e and Reformation	3	Dr. Brunger 9:30-10:50

1962 SUMMER SESSION Graduate Courses

July 2-August 10

			Credit	Faculty Time		
	505	Seminar in Art Education	3	Mr. Weaver 8:00- 9:20		
	506	Seminar in Contemporary Art	3	Mr. Green 11:00-12:20		
	507	Graduate Studio in Painting	3	Mr. Wise 12:30- 3:20		
	508	Graduate Studio in Design & Spatial	3	Dr. Stark 8:00-10:50		
	509	Graduate Studio in Crafts	3	Dr. Winebrenner		
	205	oradaate stadio in craits		8:00-10:50		
	510	Graduate Studio in Photography	3	Truesdale 12:30- 3:20		
	511	Art in the Elementary Curriculum	3	Mrs. Heyman 9:30-10:50		
	512	Graduate Studio in Sculpture	3	Dr. Stark 12:30- 3:20		
	012	Siduade Stadio in Scalpture	2	DI. Sturk 12.50 5.20		
	501	Contraction Education	2	D. C		
	501	Seminar in Elementary Education	3	Dr. Crayton 9:30-10:50		
	501	Seminar in Elementary Education	3	Dr. Crayton 12:30- 1:50		
	504	Administration of the Elem. School	3	Dr. Milanovich		
	500		2	12:30- 1:50		
	506	Philosophy of Education	3	Dr. Wells 11:00-12:20		
	512	Seminar in Child Development	6	Mr. Gardiner 8:00-12:00		
	512	Seminar in Child Development	6	Dr. Burrell 8:00-12:00		
	515	Seminar in Early Childhood Ed.	3	Mrs. Febel 9:30-10:50		
	516	Methods & Materials in Elem. School	3 3	Dr. Sugarman 11:00-12:20		
	516	Methods & Materials in Elem. School	3	Miss Kelly 8:00- 9:20		
	517	Teaching Language Arts in Elem. School	3	Miss Brown 9:30-10:50		
	517	Teaching Language Arts in Elem. School	3	Dr. Ware 11:00-12:20		
	521	The Elementary School Curriculum		Dr. Schneider 9:30-10:50		
	521	The Elementary School Curriculum	3	Dr. Ware 9:30-10:50		
	531	Supervision of Teaching	3	Dr. Milanovich		
				11:00-12:20		
	533	Workshop in Audio-Visual Education	3	Dr. Steffen 12:30- 1:50		
	537	Evaluation in the Secondary School	3	Mr. Gambert 8:00- 9:20		
	538	Comparative Education	3	Dr. Whitford 9:30-10:50		
	541	Social Foundations of Education	3 3	Dr. Whitford 8:00- 9:20		
	542	Seminar in Secondary School Curr.	3	Dr. Schneider 8:00- 9:20		
or	atory	time available by arrangement				
		ment grants available		11		
	-					

		Credit	Faculty	Time	
	16 Teaching of Reading	3		11:00-12:20	MUSIC
	16 Teaching of Reading	3	Dr. Martorana		500 Music in Educa
	60 Workshop in Elementary Education		Mrs. Goldberg	8:00- 3:00	
	56 Safety Education	3		11:00-12:20	SCIENCE
	57 Driver Education	3	Mr. Meyer	8:00- 9:20	#500 Science in Ele
5		3	Dr. Penn	8:00- 9:20	501 Field Studies I
	75 Research Methods & Techniques	3	Dr. Penn	9:30-10:50	503 Ecology
5		3		11:00-12:20	509 Recent Advanc
57		3		12:30-1:50	518 Human Biology
57		3		12:30-1:50	Bi. 509 Plant Physi
5		3	Mr. Bilsky Dr. Martorana	11:00-12:20	Ph. 504 Spectrosco
57	75 Research Methods & Techniques	3	Dr. Martorana	9:30-10:30	
July 2.July 14, 196.	2				SOCIAL STUDIES
54		3	Dr. Kyle	9:30-12:20	501 Studies in 20th
1 1 22 4 . 10	10/9				501 Studies in 20th 502 The United Sta
July 23-August 10, 1	1902 C. Secondam School Droblems and Methods	3	Dr. Scheid	9:30-12:20	502 The Officer Sta 504 History of Ame
5.	36 Secondary School Problems and Methods	3	DI. Scheid	9.30-12.20	521 Contemporary
ENGLISH					521 Contemporary 527 The Constitution
	06 Studies in Modern Drama	3	Miss Goossen	9:30-10:50	527 The Constitute
	99 Studies in Prose & Poetry of Milt.		Dr. Gronewold		EQDEICN STUDY DDOCD IN IN
	14 Children's Literature	3	Mrs. Ganey	9:30-10:50	FOREIGN STUDY PROGRAM IN
	18 Major American Poets	3	Dr. Gronewold		EXPERIMENT IN INTERNATION
				12:30- 1:50	Art 518 Historic an
53	20 Shakespearean Tragedy	3	Dr. Bradford		(June 2
	22 Studies in Modern American Poetry	3		11:00-12:20	(Julie 2
52		3	Dr. Sherwin	12:30- 1:50	
	30 Studies in Poetry of Vict. Period	3	Dr. Gragg	8:00-9:20	
	32 Literary Criticism	3	Dr. Vucinich	9:30-10:50	
					August 13-24, 1962
EXCEPTIONAL E	DUCATION	2	D. C.llashan	0.20 10.50	
51	20 Speech Problems of Children	3	Dr. Gallagher		
#.	551 Practicum in Mental Retardation	6	Mr. Winschel	8:00-1:00	Education 515 Sem
50	60 Advanced Clinic in Speech Disorder	33	Dr. Gallagher		Education 515 Sent Education 517 Teac
#.	591 Nature & Needs of Exceptional Ch.	3	Dr. Bloustein	11:00-12:20	Education 517 Frac Education 523 Princ
GEOGRAPHY					Education 525 Trink Education 533 Wor
	01 Studies in Industrial Geography	3	Dr. Fekete	8:00- 9:20	English 513 Semina
51	2 Map Interpretation for Teachers	3	Dr. Whittemor		Mathematics 502 W
5.	52 Map Interpretation for Tedeners			11:00-12:20	Social Studies 522
					Soona Studies 522
HOME ECONOMI	CS				Social Studies 540
50	00 Seminar in Home Economic Education	3	Dr. Cawley		
50	01 Workshop in Home Economics Ed.	3	Dr. Cawley		UN
50	08 Workshop in Advanced Clothing	3	Dr. Roudebush		
5	10 Practical Problems of Housing	3	Dr. Roudebush		Education 308 Semi
				11:00-12:20	Education 488 World
INDUSTRIAL AF	DTS				English 413 Seminar
	D2 Field Studies Related to I.A. Ed.	3	Mr. Capen	12:30- 1:50	
		3	Dr. Brooks	9:30-10:50	** Additional laboration (in 1111)
	Supervision of Industrial ArtsWorkshop in Ceramics	3		11:00- 1:50	** Additional laboratory time available
	Workshop in CeramicsNew Methods & Tech. in Woodworking	3	Dr. Callan	8:00-10:50	*** Headquarters at Boston, Massachuset
5	19 New Methods & Teen. In Woodworking	5	Di. Cultur		# State Education Department grants avai
MATHEMATICS					
#5	00 Mathematics in Elementary Curr.	3	Dr. Rodney	8:00-9:20	
	09 Theory of Numbers	3	Dr. Snader	8:00-9:20	
	10 Topics from Modern Abstract Algebra	3	Dr. Snader	11:00-12:20	
14 14 A 1 14 4 A 1 A 1	ory time available by arrangement				

State Education Department grants available

	Credit	Faculty Time
500 Music in Education	3	Dr. Boyd 8:00- 9:20
 #500 Science in Elementary Curriculum 501 Field Studies I 503 Ecology 509 Recent Advanced in Science to H. Ec. 518 Human Biology Bi. 509 Plant Physiology Ph. 504 Spectroscopy 	3 3 3 3 3 3 3 3 3	Dr. Harman 9:30-10:50** Dr. Eckert 11:00-12:20** Dr. Urban 11:00-12:20** Miss Dupre 8:00- 9:20** Miss Dupre 11:00-12:20** Dr. Eckert 8:00- 9:20** Dr. Harman 8:00- 9:20**
 ES 501 Studies in 20th Cent. European History 502 The United States & Its Inter. Amer. 504 History of American Frontier 521 Contemporary Social Problems 527 The Constitution: Politics & Courts 	3 3 3 3 3 3 3	Dr. E. Brown 9:30-10:50 Dr. Peterson 8:00- 9:20 Dr. Robison 9:30-10:50 Dr. Hollister 11:00-12:20 Mr. Stone 8:00- 9:20

DY PROGRAM IN COOPERATION WITH THE IN INTERNATIONAL LIVING

Art 518 Historic and Contemporary Art in Mexico 8 Dr. Tetkowski (June 28-September 3)

POST-SESSION

August 13-24, 1962

GRADUATE

Seminar in Early Childhood Educ.	2	Miss Reeve	9:00-12:00	
Teaching Language Arts	2	Dr. O'Brien	9:00-12:00	
Princ. & Pract. of Guidance	2	Dr. Klopf	9:00-12:00	
Workshop in Audio-Visual	2	Dr. Steffen	9:00-12:00	
ninar Tour in American Lit.	2	Dr. Gronewold	* * *	
Workshop in Mathematics	2	Dr. Rodney	8:30-11:30	
2 Workshop in Economics	2	Dr. Sexton &		
•		Mr. Boyd	9:00-12:00	
0 Reform and Reformers	2	Dr. Weaver	9:00-12:00	
UNDERGRADUATE				

eminar in Early Childhood Educ.	2	Miss Reeve	9:00-12:00
orkshop in Reading	2	Miss Kelly	9:00-12:00
nar Tour in American Lit.	2	Dr. Gronewold	* * *

oratory time available by arrangement at Boston, Massachusetts Department grants available

TANK CONTRACTOR OF A

PROPOSED GRADUATE DIVISION CLASSES

1962-63 FIRST SEMESTER

Saturday	Morning 9:00 A.M1	1:30 A.M. hours credit)	I.A. 517
Art 501	Workshop in Art Mat. & Processes	Mrs. Barclay	I.A. 524 I.A. 530
Art 508	Grad. Stud. in Design & Spatial Org.	Mr. Dakin	Math. 50
Art 510	Grad. Stud. in Photog- raphy	Mr. Bailey	Sci. 503
Ch. 504	Physical Chemistry (8:30-12:30)	Mr. Zingaro	S.S. 506
Ed. 501 Ed. 503	Seminar in Elem. Ed. Org. of the Elem. School	Dr. Crayton Dr. Milanovich	S.S. 515
Ed. 521	Elementary School Curriculum	Dr. Hemink	Tuesday
Ed. 530 Ed. 532	Principles of Supervision Secondary School Edu-		Ex. Ed. 5
Ed. 538	cation Comparative Education	Dr. Sherrie Dr. Bulger	Ex. Ed. 5
Saturday		0:40 A.M. ? hours credit)	Tuesday
Art 501	Workshop in Art Mat. & Processes	Mrs. Barclay	Art 505
Art 508 Art 510	Grad. Stud. in Design & Spatial Org. Grad. Stud. in Photog-	Mr. Dakin	Ed. 505 Ed. 508
Ed. 533	graphy Workshop in Audio-	Mr. Bailey	Ed. 510
Ed. 575	Visual Research Methods &	Dr. Steffen	Ed. 517
Eng. 503	Techniques	Dr. Penn	Ed. 575 Eng. 507
	Literature 35 Mental Measurement	Mrs. Ganey Mr. Nikoloff	Geog. 50
I.A. 501	Seminar in Industrial Arts	Dr. Neuthardt	H. Ec. 50
I.A. 509	History of Industrial Arts	Dr. Russell	Math. 50
I.A. 513 I.A. 515	Workshop in Ceramics (8:00-10:40) Transportation Labora-	Mr. Zielinski	S.S. 511
	tory (8:00-10:40) 00 Music in Education	Mr. Trudeau Dr. Boyd	Wednesd
Sci. 501 S.S. 500	Field Studies in Science I Studies in 20th Cent.		S.S. 514
S.S. 518	Amer. Hist. Cont. European Pol.	Dr. Peterson	Wednesd
C	Movements Morning 10:50 A.M.	Dr. E. Brown	Art 513
Ed. 546		2 hours credit)	Ed. 516
Ed. 575		Dr. Dodd	Ed. 518
Eng. 518		Dr. Gronewold	Ed. 575
Eng. 52/			
Eng. 527 Ex. Ed. 5	Secondary School Lit. 571 Creative Arts for	Dr. Sherwin	Eng. 520 Eng. 533
Ex. Ed. 5	Secondary School Lit.		Eng. 520

10-10

I.A. 517	Electronics	D.C.I
I.A. 524	(10.100.100)	Dr. Cook Mr. Poleszak
I.A. 530	Graphic Arts	
M. th 500	(10:50-1:30) Math. in the Elem.	Mr. Kasprzyk
Math. 500	Curr.	Dr. Cherkauer
Sci. 503	Ecology	Dr. Urban
S.S. 506	Min. Groups in Amer. Culture	Dr. Hollister
S.S. 515	Studies in Amer. Col.	
	History	Dr. Roesser
Tuesday	Afternoon 4:20 P.M	6:00 P.M. (2 hours credit)
Ex. Ed. 53	38 Understanding the	(2 nours crean)
	Prob. Child	Mr. Hallowitz
Ex. Ed. 55	58 Neuropathologies of Speech	Staff
Tuesday	Evening 6:30 P.M9:0	
1 uesuay 1	Litening 0.00 Thirty it	(3 hours credit)
Art 505	Seminar in Art Educa-'	
	tion	Dr. Squeri
Ed. 505	Eval. in the Elem. School	Dr. Carroll
Ed. 508	Supervision of Stud.	
	Teach.	Dr. Ware
Ed. 510	Seminar in Elem. School	
	Prob.	Miss Brown
Ed. 517	Teaching Language Arts	Dr. Eddins
Ed. 575	Research Methods &	D. Mantanana
	Techniques	Dr. Martorana
Eng. 507	The Modern Novel	Dr. Greenwood
Geog. 500) Geography of Eastern Asia	Dr. Fekete
H. Ec. 50		
	Mgt.	Miss Adams
Math. 507		D G
S.S. 511	matics Problems of Cont. Eng-	Dr. Stern
5.5. 511	land	Dr. Robison
Wodnosd	ay Afternoon 4:20 P.	M6:00 P.M.
		(2 hours credit)
S.S. 514	Workshop in Human Relations	Dr. Burrell
Wednesd	ay Evening 6:30 P.M.	-9:00 P.M. (3 hours credit)
A + 512	Cred Stud in Craphia	(5 nours creau)
Art 513	Grad. Stud. in Graphic Arts	Mr. Martin
Ed. 516	Methods & Mat. in Elem.	NO D'I I
Ed. 518	School Human Growth & De-	Mr. Bilsky
	velopment	Dr. Fink
Ed. 575	Research Methods & Techniques	Dr. Dickson
Eng. 520	Shakespearean Tragedy	Dr. Fried
Eng. 520	Lit. of Cont. Europe:	
	The Middle Ages	Miss Norenberg
S.S. 520	Workshop in M & M in S.S.	Dr. Sexton
	0.0.	

Saturday	Morning 9:00 A.M1	
Art 507	Grad. Stud. in Draw. &	(3 h
Art 511	Paint. Art in the Elem. Curr.	Mr. Mr.
Art 512	Grad. Stud. in Sculpture	
Bi. 510	Protozoology	D1.
DI. 510	(8:30-12:30)	Mr.
Ed. 501	Sem. in Elem. Ed.	Dr.
Ed. 501 Ed. 504		Dr.
		Dr.
Ed. 531 Ed. 552	Super. of Teaching Legal Problems of Edu-	DI.
Eu. 552	cation	Dr.
Ph. 503	Nuclear Physics (8:30-12:30)	Dr.
Saturday	Morning 9:00 A.M1	
Suuruuy	morning 9.00 A.mI	(2 h)
Art 507	Grad. Stud. in Draw. &	
	Paint.	Mr.
Art 512	Grad. Stud. in Sculpture	Dr.
Ed. 546	Teaching of Reading	Dr.
Ed. 575	Research Methods &	
	Techniques	Dr.
Eng. 506		
	Drama	Mr.
Eng. 514	Children's Literature	Mrs
Ex. Ed. 5	91 N. & N. of Except.	~ ~
	Children	Staff
	0 Seminar in H. Ec. Ed.	Dr.
I.A. 506 I.A. 518	Super. of I.A.	Dr.
I.A. 518	Adv. Electronics	D
TA 510	(8:00-10:40)	Dr.
I.A. 519	Methods & Tech. in	D
TA 500	Wood (8:00-10:40)	Dr.
I.A. 528	I.A. Curriculum Const.	DI. 1
Sci. 518 S.S. 517	Human Biology	Miss
5.5. 317	The Hist. & Inst. of Soviet Union	Staff
S.S. 530	The Sociology of Crime	
Saturday	Morning 10:50 A.M1	2:30 (2 h
Ed 533	Workshop in A V	Dr.]
Ed. 555	Workshop in A-V Safety Education	Mr.
Ed. 575	Research Methods &	1411.
Lu. 575	Techniques	Dr. 1
Eng. 524	Realism in Amer. Lit.	Staff
Ex. Ed. 52	27 Guid. of Child. Who	Stan
LA. EU. J.	are Except.	Staff
Ex. Ed. 50		orun
La. Lu. J	Child. with M.R.	Staff
H. Ec. 51		Stan
	hold Equip.	Miss
	nora Equip.	

1962-63 SECOND SEMESTER

0 A.M. hours credit)	I.A. 502 I.A. 507 I.A. 521	Field Studies in I.A. School Shop Planning Methods & Tech. in	Mr. Capen Mr. Poleszak
: Davidson : Hill . Stark	Sci. 500 S.S. 505	Metal (10:50-1:30) Sci. in Elem. Curr.	Dr. Fontanna Mr. Schefler
		Stud. in Cont. Econ. Prob.	Mr. Boyd
. Nadolinski . Crayton	S.S. 527	The Const.: Politics & Courts	Mr. Stone
MacVittie Milanovich		Afternoon 4:20 P.M	6:00 P.M. (2 hours credit)
Gittler	Ed. 575	Research Methods & Techniques	Mr. Bilsky
Harman	Ex. Ed. 52	24 Introduction to Audiology	Staff
0 A.M. hours credit)	Ex. Ed. 54	43 Speech Reading	Staff
Davidson	Tuesday I	Evening 6:30 P.M9:0	00 P. M.
. Davidson			(3 hours credit)
Stark Ware	Art 506	Seminar in Contem. Art	
	Ed. 501 Ed. 508	Seminar in Elem. Educ. Supervision of Student	Dr. Sugarman
Penn		Teaching	Mrs. Ferm
. Schuck	Ed. 511	Music & Art in the Elem. School	Mr. Bailey Miss Case
s. Ganey	Ed. 527	Prob. in Educ. Serv. for Young Children	Mrs. Febel
ff Clarke	Ed. 575	Research Methods & Techniques	Dr. Martorana
Neuthardt	Eng. 505 Eng. 548	Studies in the Novel	Dr. Gronewold
Cook	Geog. 505	Dramatics	Miss Piquette
Callan Brooks		erranean World	Dr. Whittemore
ss Dupre	3.3. 309	Local History: Research Methods & Techniques	Dr. Brunger
ff . Falk	Wednesda	y Evening 6:30 P.M	9:00 P.M.
			(3 hours credit)
0 P.M.	Art 509	Graduate Studio in	D 111 1
hours credit)	E1 506	Crafts	Dr. Winebrenner
Hedden	Ed. 506	Philosophy of Education	
. Meyer	Ed. 529	Adolescent Psychology	Dr. Fink
Barnett		Eval. in Secondary School	Dr. King
ff		Research Methods & Techniques	Dr. Dodd
ff	Eng. 521	Studies in Modern Brit- ish Poetry	Dr. Drew
ff	Math. 508 S.S. 513	Mathematical Statistics Social & Intel. History	Staff
ss Stoner		of U. S.	Dr. Weaver

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1963-64 FIRST SEMESTER

Saturday Morning 9:00 A.M.-11:30 A.M.

- (3 hours credit)
- Art 503 Workshop in Using Visual Language
- Art 509 Graduate Studio in Crafts
- Art 512 Graduate Studio in Sculpture
- E.S. 531 Geology of New York State (8:30-12:30)
- Ed. 501 Seminar in Elementary Education
- Ed. 503 Organization of Elementary School
- Ed. 521 The Elementary School Curriculum
- Ed. 536 Secondary School Problems & Methods
- Ed. 542 Seminar in Secondary School Curriculum

Saturday Morning 9:00 A.M.-10:40 A.M.

- (2 hours credit) Art 509 Graduate Studio in Crafts Art 512 Graduate Studio in Sculpture Ed. 517 Teaching Language Arts in Elem. School Ed. 533 Workshop in Audio-Visual Educ. Ed. 575 Research Methods & Techniques Eng. 530 Studies in Poetry of Victorian Period Ex. Ed. 535 Mental and Educational Measurement H. Ec. 516 Family Clothing I.A. 501 Seminar in Industrial Arts I.A. 509 History of Industrial Arts I.A. 513 Workshop in Ceramics (8:00-10:40) I.A. 517 Electronics (8:00-10:40)
- Music 500 Music in Education Sci. 501 Field Studies I
- S.S. 500 Twentieth Century American History
- S.S. 516 International Relations & World Today S.S. 517 History & Institutions of Soviet Union

Saturday Morning 10:50 A.M.-12:30 P.M.

- (2 hours credit)
- Ed. 546 Teaching of Reading
- Ed. 575 Research Methods & Techniques
- Eng. 502 Studies in American Literature
- Eng. 507 The Modern Novel
- Ex. Ed. 571 Creative Arts for Mentally Retarded
- Ex. Ed. 581 Teaching Severely Retarded (Trainable)

1963-64 SECOND SEMESTER

S.S.

Saturday Morning 9:00 A.M.-11:30 A.M.

- (3 hours credit) Art 507 Graduate Studio in Drawing & Painting
- Art 508 Graduate Studio in Design & Spatial Org.
- Art 511 Art in the Elementary Curriculum
- Bi. 508 Comparative Vertrebrate Anatomy (8:30-12:30)
- Ed. 501 Seminar in Elementary Education
- Adolescent Psychology Ed. 529
- Ed. 531 Supervision of Teaching

16

- Ed. 532 Secondary School Education
- Ed. 552 Legal Problems of Education

Saturday Morning 9:00 A.M.-10:40 A.M. (2 hours credit)

Art 507 Graduate Studio in Drawing & Painting Art 508 Graduate Studio in Design & Spatial Org.

- Geog. 501 Studies in Industrial Geography
- H. Ec. 506 Seminar in Home Management
- I.A. 512 Workshop in Textiles (10:50-1:30)
- I.A. 515 Transportation Laboratory (10:50-1:30)
- I.A. 524 Evaluation in Industrial Arts
- Math. 500 Mathematics in Elementary Curriculum Sci. 503 Ecology
- S.S. 524 Studies in Non-Western Culture The Middle East
- Government and the American Economy S.S.

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

- Ed. 575 Research Methods & Techniques
- Ex. Ed. 538 Understanding Prob. Child in Classroom
- Ex. Ed. 556 Advanced Seminar in Voice & Art. Problems

Tuesday Evening 6:30 P.M.-9:00 P.M.

(3 hours credit)

- Art 515 Graduate Studio in Home & Com. Planning
- Ed. 505 Evaluation in Elem. School
- Ed. 508 Supervision of Student Teaching
- Ed. 510 Seminar in Elem. School Problems
- Ed. 515 Seminar in Early Child. Education
- Ed. 575 Research Methods & Techniques
- Eng. 510 Emerson & Thoreau
- Math. 506 History of Mathematics
- S.S. 520 Workshop in Methods & Materials in S.S. S.S. **Population Problems**

Wednesday Evening 6:30 P.M.-9:00 P.M. (3 hours credit)

- Art 513 Graduate Studio in Graphic Arts
- Ed. 530 Principles of Supervision
- Ed. 538 Comparative Education
- Ed. 546 Teaching of Reading
- Ed. 575 Research Methods & Techniques
- Eng. 500 Studies in Struct. & Function of Lang.
- Eng. 521 Studies in Modern British Poetry
- S.S. 504 History of American Frontier
- - Ed. 516 Methods & Materials in Elem. School
 - Ed. 546 Teaching of Reading
 - Ed. 575 Research Methods & Techniques
 - Eng. 520 Shakespearean Tragedy
 - Ex. Ed. 561 Occ. Educ. for Children with M.R.
 - H. Ec. 510 Practical Problems in Housing
 - I.A. 506 Supervision of Industrial Arts
 - I.A. 507 School Shop Planning
 - I.A. 518 Advanced Electronics (8:00-10:40) I.A. 519 New Methods & Tech. in Wood
 - (8:00-10:40)
 - Sci. 518 Human Biology
 - S.S. 505 Studies in Contemporary Econ. Problems
 - S.S. 540 Reform and Reformers in American Civilization
 - Cultural Anthropology

Saturday Morning 10:50 A.M.-12:30 (2 k Ed. 533 Workshop in Audio-Visual Ed Ed. 575 Research Methods & Techniq

- Eng. 514 Children's Literature
- Eng. 527 Early Secondary School Liter
- Ex. Ed. 539 The Gifted Child
- Ex. Ed. 591 Nature & Needs of Except
- H. Ec. 507 Evaluation in Home Eco cation
- I.A. 521 New Methods & Techniques (10:50-1:30)
- I.A. 523 Industrial Arts in Elem. School (10:50-1:30)
- I.A. 528 Industrial Arts Curriculum Co I.A. 529 Advanced Drafting (10:50-1:

Saturday Morning 10:50 A.M12:30 P.M. (2 hours credit) Ed. 533 Workshop in Audio-Visual Education Ed. 575 Research Methods & Techniques Eng. 514 Children's Literature Eng. 527 Early Secondary School Literature Ex. Ed. 539 The Gifted Child Ex. Ed. 591 Nature & Needs of Exceptional Child. H. Ec. 507 Evaluation in Home Economics Education 1A. 521 New Methods & Techniques in Metal (10:50-1:30) 1A. 523 Industrial Arts in Elem. School (10:50-1:30) 1A. 528 Industrial Arts Curriculum Constr. 1.A. 529 Advanced Drafting (10:50-1:30) Sci. 500 Science in Elementary Curriculum S.S. 512 U. S. in Contemporary World Affairs S.S. Elective in Sociology	Tuesday Evening6:30 P.M.9:00 P.M. (3 hours credit)Art 504Seminar in Art in Human AffairsEd. 508Supervision of Student TeachersEd. 511Music and Art in Elementary SchoolEd. 527Prob. in Educ. Services for Young Child.Ed. 546Teaching of ReadingEd. 575Research Methods & TechniquesEng. 509Studies in Prose & Poetry of MiltonEng. 522Studies in Modern American PoetryGeog. 504Studies in the Geog. of North AmericaS.S.Elective in 20th Century European History (OR)Art 516Graduate Studio in Adv. & III.Ed. 504Admin. of Elementary SchoolEd. 518Human Growth & DevelopmentEd. 537Evaluation in Secondary Schools
	Ed. 518 Human Growth & Development

INFORMATION FOR UNDERGRADUATE STUDENTS

1. Formal admission to the College is required of any Extension student who wishes to become a candidate for the bachelor of science degree. Application for Admission blanks, as well as an evaluation of the student's record must be secured from the Director of Elementary and Secondary Education. This evaluation is necessary before undergraduate courses can be credited toward the bachelor's degree and it becomes a planned schedule for the remainder of the student's degree program.

2. Graduates of a two or three year elementary education curriculum in another college should note that off-campus courses offered by this college are not acceptable toward residence requirements for the bachelor's degree from this College.

A minimum of twenty-four semester hours must be earned on campus in Summer Session, Extension program, or regular College session. Any student wishing to attend the regular College session in order to meet residence requirements must apply to the Director of Elementary and Secondary Education Division for admission to the College with advanced credit standing.

3. Graduates of a two or three year elementary education curriculum in this College must arrange to register for the last twelve hours of the fourth year on campus in regular College Session, summer session or extension courses.

4. Only students who have graduated from a two or three year elementary education curriculum may complete all of the remaining requirements for the bachelor's degree through extension classes.

5. Students wishing to register for undergraduate courses to meet certification requirements may enroll in extension classes as Special Students. However, credit earned will not necessarily be accepted toward a degree program.

- 6. A permit to register must be secured by all undergraduate students in Elementary Education before registration in any extension or summer session courses.
- 7. Undergraduate students in the extension program are held to all academic regulations of the college.

UNDERGRADUATE EXTENSION COURSES

1962-63 FIRST SEMESTER

1962-63 SECOND SEMESTER

Saturday Morning 9:00 A.M.-10:40 A.M.

Saturday	Morning 9:00 A.M10	0:40 A.M.
		(2 hours credit)
Ed. 220	Outdoor Education	Staff
Eng. 210	Children's Literature	Mrs. Greenwood
G.S. 301	Ideas of Man and His	
	World of Literature	Mr. Hogue
S.S. 230	Col. History of Amer.	
	People	Dr. R. Brown
Saturday	Morning 10:50 A.M1	12:30 P.M.
		(2 hours credit)
Ed. 465	Audio-Visual Education	Mrs. Goldberg
Ed. 487	Teach. Lang. Arts in	
	Elem. School	Miss Kelly

Eng. 402	Contemporary	Litera-	,
	ture		Dr. Drew
** *** ***			

H. Ed. 204 Personal & Communi-Staff ty Health

		(2 hours credit)
Ed. 402	Seminar in Elem. School	
	Teach.	Miss Pearson
Ed. 486	Methods and Materials	
	in the Elementary	
	School	Miss Concannon
Music 30	5 Music for Children II	Miss English
Sci. 410	Field Study I	Staff
Saturday	Morning 10:50 A.M1	12:30 P.M.
	0	(2 hours credit)
Art 400	Workshop in Crafts	Mrs. Delius
	E 1 ' EI	

Art 400	Workshop in Crafts	Mrs. Delius
Ed. 310	Evaluation in Elem.	
	Grades	Mr. McComb
Eng. 250	Types of British &	
	Amer. Lit. I	Staff
G.S. 104	Ways of Knowing	Staff

1963-64 FIRST SEMESTER

Saturday Morning 9:00 A.M.-10:40 A.M. (2 hours credit)

- Bio. 101 General Biology
- Ed. 487 Teaching the Language Arts
- Eng. 348 Creative Dramatics
- G.S. 301 Ideas of Man & His World of Lit.

Saturday Morning 10:50 A.M.-12:30 P.M. (2 hours credit)

Ed. 465 Audio-Visual Education Math. 303 Mathematics in the Elementary Grades Music 304 Music for Children S.S. 240 The American Community

1963-64 SECOND SEMESTER

Saturday Morning 9:00 A.M.-10:40 A.M.

(2 hours credit)

- Bio. 102 General Biology
- G.S. 104 Ways of Knowing
- Ed. 402 Seminar in Elementary Education
- S.S. 230 Colonial History of the American People

Saturday Morning 10:50 A.M.-12:30 P.M.

(2 hours credit)

Ed. 310 Evaluation in the Elementary School Eng. 250 Types of British & American Lit. I Music 305 Music for Children II

Sci. 310 Science in the Elementary Grades

THE GRADUATE EXTENSION DIVISION

DAVID A. ROGERS, Director **STEVEN GITTLER**, Associate Director

GENERAL INFORMATION

- cerned.

GRADUATE CURRICULA

Graduate courses lead to the Master of Science in Education degree with majors in Art Education, Early Secondary Education, 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 Graduate Extension classes during the regular year.

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

2. Graduate 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 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 con-

4. Graduate 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 offcampus courses should contact the Director of Graduate Extension as far in advance as possible. A minimum registration of twenty fee-paying students will be required for the organization of such off-campus classes.

6. The right is reserved to make, without notice, any necessary changes in the course offerings listed in this bulletin.

7. General questions relating to the Graduate Extension program of this College should be sent to Dr. David A. Rogers, Director of Graduate and Extension Education, State University College, Buffalo 22, New York.

REQUIREMENTS FOR ADMISSION TO GRADUATE DIVISION

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

- 1. An acceptable academic and teaching record. An applicant must be able to present an undergraduate scholastic average of 2.3 or higher, an acceptable teaching record testified by a confidential statement from the administrator of the school wherein employed, and recommendations concerning academic and personal qualifications supplied by three persons in a position to make valid statements.
- 2. One of the following:
 - A. An approved bachelor's degree and eligibility to teach in the elementary school or in a field of specialization in New York State. An approved bachelor's degree is one granted by a teachers college, liberal arts college, or university which is accredited by the American Association of Colleges for Teacher Education, an appropriate regional accrediting agency, or a State University.
 - B. An approved bachelor's degree and a desire to become certified to teach in New York State under the requirements of the Bureau of Teacher Education and Certification.
 - C. An approved bachelor's degree and a teaching certificate from another state. Completion of the master's degree requires 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 Education and Certification, State Education Department, Albany 1, New York.

PROCEDURE BEFORE REGISTRATION

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

ADMISSION TO FULL GRADUATE STATUS

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

APPOINTMENT OF AN ADVISER

An adviser will be appointed after full graduate status is granted. Therefore, the student should complete credentials and secure full graduate status as soon as possible after application for admission to the Graduate Division is filed.

ADMISSION TO CANDIDACY

Filing an application for admission to candidacy for the master's degree is the personal responsibility of each student after he has completed a minimum of six hours. At the completion of twelve semester hours of graduate work, he *must* apply for candidacy or file with the Director of the Graduate Division a statement that he does not intend to become a candidate for a degree. If, subsequently, he decides to file for candidacy, he must, at that time, have an evaluation made of all work completed for the purpose of formulating a program leading to the master's degree.

ADMISSION TO CANDIDACY DEPENDS UPON:

REQUIREMENTS FOR MASTER OF SCIENCE DEGREE

- courses.

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

2. A recommendation from the adviser of the candidate to the Director of the Graduate Division.

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

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

2. A cumulative average of B or better in all graduate courses completed in this college. Not more than nine hours of C, and no work of D grade, will be accepted toward the master's degree.

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

A. For graduates of this college-a minimum of twenty hours inresidence 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. Non-resident credit. Non-resident credit is defined as transfer credit earned at another college or university or credits earned in offcampus courses in this college. Transfer credits can be accepted for courses taken at another college:

A. If they are evaluated as being equal in scope and content to those offered by this college.

B. If they form a coherent part of the required program of study.

C. If they have been completed within seven years prior to registration at this college.

D. If they are of A or B grade. Credits earned at another college with grades of C or D are not accepted for transfer to this college. Transfer credits are not included in the cumulative average.

- 5. Completion of all course work within six years of registration in first course.
 - A. Students holding full-time teaching positions are limited to a maximum of four credits per semester or eight credits per academic year. 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-week program; three credits for a threeweek program; six credits for a six-week program; and eight credits for an eight-week program.

GRADUATE ACADEMIC REGULATIONS

ATTENDANCE

Attendance at all classes is required unless the student is excused by the instructor. A student may be excluded from a course if the instructor considers absences and tardiness to be too frequent for acceptable achievement.

CANCELLATION OF A COURSE

If a student finds it necessary to drop a course, he must notify the Graduate Office immediately that he is officially dropping the course. State University policy permits refunds of fees for cancelled courses only during the first five business days after registration.

The students' records will be noted as follows:

- 1. W (before the end of the sixth class)
- 2. WP (after the sixth week, with passing grade)
- 3. WE (after the sixth week, with failing grade)
- 4. XE (course abandonment) Any student who abandons a course places his future continuation at this college in jeopardy.

GRADING SYSTEM

Above average graduate work	
Average graduate work	

- Below average graduate work C
- Passing grade but not applicable for a degree D

Failure

- 2 quality points
- 1 quality point
- 0 quality points

4 quality points

3 quality points

INC Work incomplete because of reasons deemed justifiable by the instructor.

REMOVAL OF AN "INCOMPLETE"

A

B

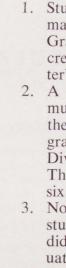
E

An "incomplete" must be made up within the following semester, not including the summer session. An "incomplete" not made up during this semester will automatically be recorded as an "E".

CUMULATIVE AVERAGE

A cumulative average of "B" or better in all graduate courses completed at this college is required for the master of science degree. The cumulative average is determined by dividing the total number of quality points earned by the total number of semester hours attempted. If a student has not earned a cumulative "B" average upon completion of 32 semester hours, he may be permitted to enroll for additional courses to the maximum number of 6 semester hours to attempt to make up his deficiency.

SPECIAL STUDENTS





1. Students not intending to apply for admission to candidacy for the master's degree, may be permitted to register for courses in the Graduate Division as *special students*, with the understanding that credits earned will not necessarily count toward fulfillment of master's degree requirements.

2. A special student deciding to matriculate for the master's degree must request an evaluation of all graduate credits earned, complete the credentials required for full graduate status, and follow a program of graduate study planned by the Director of the Graduate Division to meet curriculum, grade and time-limit requirements. This includes the rule that all course work must be completed within six years from the date of registration in the first graduate course.

3. Not more than twelve semester hours may be earned by a special student unless a statement that he does not intend to become a candidate for the master's degree is filed with the Director of the Graduate Division.

4. An application must be secured and filed in the office of the Graduate Division before registration as a special student.

GRADUATE CURRICULA

ART EDUCATION

COURSES IN TECHNICAL AND 20-23 SEM. HOURS RELATED FIELDS Technical Courses: Art 501 Workshop in Art Educa-

	Materials, Processes, and	1
	Procedures	3 Sem. Hrs.
Art 503		
	ual Language	
Art 506		
	Art	2 Sem. Hrs.
Art 507	Graduate Studio in Drawin	g
	and Painting	
Art 508	Graduate Studio in Design	n
	and Spatial Organization	2-6 Sem.Hrs.
Art 509	Graduate Studio in Crafts	2-6 Sem. Hrs.
Art 510	Graduate Studio in Photo	-
	graph	2-6 Sem. Hrs.
Art 512	Graduate Studio in Sculptur	e
		2-6 Sem. Hrs.
Art 513	Graduate Studio in Graphi	с
	Arts	2-6 Sem. Hrs.
Art 520	Art Camp	2 Sem. Hrs.
Art 526	Special Study	2-4 Sem. Hrs.
Graduate	Courses in the Practical Arts	2-6 Sem. Hrs.

Courses in Related Fields:

Art 504	Seminar in Art in Human	
		2 Sem. Hrs.
*Art 505	Seminar in Art Education _	3 Sem. Hrs.
	Workshop in Folk Arts	
Art 526	Special Study2-	4 Sem. Hrs.
Graduate	Courses in Psychology and	
	Education 2-	6 Sem. Hrs.

RESEARCH:

Ed. 575	Research Techniques	2 Sem. Hrs.
Art 550	Project	4 Sem. Hrs.
Art 525	Master's Thesis	6 Sem. Hrs.
	ndidate, after a conference with	his adviser.
	t one of the above requirement	

REQUIRED COURSES IN ARTS AND SCIENCE

9-12 SEM. HRS. Chosen by advisement from English, Geography, Mathematics, Music, Science, and Social Studies. Total requirements: 32 semester hours

*Required for master's degree in Art Education.

EARLY SECONDARY EDUCATION

The College, responding to the growing demands 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 certificate to extend the validity of such certificate to include in the early secondary (junior high) schools of New York State.

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

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

Preparation for teaching in the early secondary grades is offered in two subject matter fields: English, and Social Studies.

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

PREREQUISITES	 1 Sem. Hrs.
Written Composition	 6 Sem. Hrs.
Speech	 6 Sem. Hrs.
Literature (English, American	
temporary)	 9 Sem. Hrs.

THE GRADUATE PROGRAM

REOUIRED COURSES:

- (by advisement) within the area of specialization:
- 12 SEM. HRS. A course in English Literature to be chosen from: Eng. 504, 505, 509, 520, 521, 523, 530, 531 A course in American Literature to be
- chosen from: Eng. 502, 503, 510, 518, 522, 524

- A course in general literature to be chosen from: Eng. 506, 507, 508, 515, 532, 533, 534, 535
- A course in language to be chosen from: Eng. 500, 526

ELECTIVE COURSES:

(by advisement) within the area of specialization or other academic field __9-10 Sem. Hrs.

PROFESSIONAL COURSES:
Required courses: Ed. 532; (by adv.
529, 536; Eng. 527 (Required of stude
certification to include Early Secondary
have not had Eng. 213.)
Elective courses: Ed. 506, 519, 523, 53
541, 542, 545.
DESEADCH.

RESEARCH:		-0 SEM. HRS.
Ed. 575	Research Methods and	
	Techniques	2-3 Sem. Hrs.
Eng. 550	Project	4 Sem. Hrs.
Eng. 525	Master's Thesis	6 Sem. Hrs.
(Each cand	lidate, after conference with	n his adviser,
may select	one of the above requirement	nts.)
	Total requirements: 32 se	emester hours

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

2	REREQUISITES
	American History
	European History
	Geography
	Political Science such as: S.S. 503, 519
	Economics such as: S.S. 505
	Sociology such as: S.S. 506, 510, 521
	Minimum of 2 hrs. each in 2 fields
	(Substitution may be made for individ
	ments provided the deficiency is corre
	graduate level.)
	·

THE GRADUATE PROGRAM

REQUIRED COURSES:
(by advisement) within the area of spe-
cialization1
a. In related fields:
Political Science such as: S.S. 503, 519
Economics such as: S.S. 505
Sociology such as: S.S. 506, 510, 521
Minimum of 2 hrs. each in 2 fields
(If this requirement has been met by
the undergraduate level, the student ma
Social Studies graduate electives.)

- b. Concentration in 1 of 3 areas Community and New York State Studies such as: S.S. 506, 507, 509, 510, 519
- American Studies such as: S.S. 500, 502, 504, 512, 513, 515, 521; Geog. 504
- World Studies such as: S.S. 501, 511, 516, 517, 518; Geog. 500, 501, 505

ELECTIVE COURSES:

(by advisement) within the area of spe-

cialization or other academic fields ___9-10 Sem. Hrs.

PROFESSIONAL COURSES: 8-9 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: 2-6 SEM. HRS. Ed. 575 Research Methods and

	Techniques2	2-3 Sem. Hrs.
S.S. 550	Project	4 Sem. Hrs.
	Master's Thesis	6 Sem. Hrs.
(Each can	ndidate, after conference with	his adviser,
may select	t one of the above requirement	nts.)

Total requirements: 32 semester hours

SECONDARY EDUCATION

The State University College at Buffalo offers graduate study leading to the degree Master of Science in Secondary Education with majors in Mathematics or Science. Science areas include Biology, Physics, General Science, Chemistry and Earth Science.

The student may take a major in mathematics and a minor in science, a major in science and a minor in mathematics or a major and minor in two areas in science.

The student who completes the requirements for a Bachelor of Science degree in Secondary Education with a major and a minor in science or mathematics receives provisional certification until he completes the additional thirty-two hours for his master of science degree. The completion of the work provides permanent certification; however, the student may obtain permanent certification by completing thirty hours of prescribed graduate courses. This work must be completed within a period of five years after receiving the bachelor's degree.

THE TEACHING OF MATHEMATICS IN SECONDARY (JUNIOR AND SENIOR HIGH) SCHOOL

PREREQUISITES 24 SEM. HRS. Twenty-four or more semester hours of undergraduate mathematics (chosen by advisement) from the following: College Algebra, College Geometry, Trigonometry, Analytic Geometry, Projective Geometry, Calculus, Differential Equations, Mathematics of Finance, Abstract Algebra

THE GRADUATE PROGRAM

SPECIALIZED AREAS (Major and Minor) 18 Sem. Hrs. Required Courses: A minimum of 12 hours of Graduate Mathematics Courses selected by ad-12-18 Sem. Hrs. visement _

8-9 Sem. Hrs. isement) Ed. ents extending English, who

33, 537, 538,

2-6 SEM. HRS.

21 SEM. HRS. 6 Sem. Hrs. 6 Sem. Hrs. 3 Sem. Hrs.

6 Sem. Hrs. idual requireected on the

2 Sem. Hrs.

6 Sem. Hrs. electives on y substitute

6 Sem. Hrs.

Elective Courses:	
These may be in Mathematics or Sci-	
ence. Mathematics majors with a Sci-	
ence minor must take Ed. 535, Methods	
in Teaching Secondary School Science,	
in the first summer session if they wish	
to secure provisional certification to	
	-6 Sem. Hrs.
	-0 Sem. mis.
ELECTIVES	
Other than major and minor areas	8 Sem. Hrs.
PROFESSIONAL COURSES:	
Ed. 537 Evaluation in the Secondary	
School	3 Sem. Hrs.
RESEARCH:	
Required of all students who are can-	
didates for the Master's degree. Each	
candidate, after conference with his ad-	
viser, may select one of the following	
requirements:	
Ed. 575 Research Methods and	
Techniques	
Math. 550 Project	
Math. 525 Thesis	
Total requirements: 32 set	mester hours

THE TEACHING OF SCIENCE IN SECONDARY (JUNIOR AND SENIOR HIGH) SCHOOL

PREREQUISITES	_48 SEM. HRS.
Major Area of Specialization	
General Science: 30 Sem. Hrs.	in
four fields: Biology, Chemistr	у,
Earth Science, and Physics.	
Biology, Chemistry, Earth Science	
Physics: 30 Sem. Hrs. in maj	
area. Chemistry and Physics m	
jors require, in addition, Different	n-
tial and Integral Calculus.	
Minor Area of Specialization	18 Sem. Hrs.

THE GRADUATE PROGRAM

SPECIALIZED AREAS

- General Science: (Major 12 hrs., Minor 6 hrs. chosen from among Sci. 501, 502, 504, 518, electives by advisement.
- Biology: Major 12 sem. hrs. including Bio. 501, 505, electives chosen from among Bio. 507, 508, 509, 510, 511; Minor 6 sem. hrs. including Bio. 501, electives chosen (by advisement) from above list.
- Chemistry: Major 12 sem. hrs. including Ch. 501, 503, 504, electives chosen from among Ch. 502, 505, 506, 507; Minor 6 sem. hrs. of Chemistry, electives chosen (by advisement) from above list.
- Earth Science: Major 12 sem. hrs., E.S. 501, 502, 503, 504; Minor 6 sem. hrs. E.S. 501, 502

Physics: Majors 12 sem. hrs. chosen from among Ph. 501, 502, 503, 504, 505, 506; Minor 6 sem. hrs., Ph. 503, electives chosen by advisement from the above list.

ELECTIVES

Other than major and minor areas 8 Sem Hrs.

PROFESSIONAL COURSES:

Ed.	537	Evaluation in the Secon	dary
		School	3 Sem. Hrs

RESEARCH:

Required of all students who are candidates for the Master's degree. Each candidate, after conference with his adviser, may select one of the following requirements:

Ed.	575	Research Methods and	
		Techniques	3 Sem. Hrs.
Sci.	550	Project	4 Sem. Hrs.
Sci.	525	Thesis	6 Sem. Hrs.
		T.I	Territoria

Total requirements: 32 semester hours

ELEMENTARY EDUCATION

REQUIRED PROFESSIONAL COURSES

12 SEM. HRS.

Ed. 501 Seminar Elementary Educa-3 Sem. Hrs. tion *Education Electives (by advisement) 9 SEM. HRS. *If Ed. 525 is chosen, select one course from Group A and one course from Group B. If Ed. 550 or Ed. 575 is chosen, select one course from Group A, one course from Group B, and a third course from either

Group A or B. GROUP A:

Ed. 515	Seminar	in	Early	Childhood	Education	
or						

- Ed. 527 Problems in Educational Services for Young Children
- Teaching the Language Arts in the Ele-Ed. 517 mentary School or Ed. 546
 - The Teaching of Reading
- Ed. 521 The Elementary School Curriculum
 - Workshop in Audio-Visual Education Methods and Materials in the Elem.
 - School
 - Children's Literature

Personality Adjustment in the Elem. School Applied Mental Hygiene

Philosophy of Education

Social Foundation of Education Organization of the Elementary School

Principles in the Supervision of Teaching Workshop in French in the Elementary Grades

Workshop in Spanish in the Elementary Grades

Ed. 505	Evaluation Techniques in th
	School
d. 508	Supervision of Student Teac
d. 518	Studies in Human Growth
11.07	ment
d. 523	Principles and Practices of
d. 538	Comparative Education
x. Ed. 520	Speech Problems of Child
x. Ed. 591	Nature and Needs of
	Children

REQUIRED COURSES IN ARTS AND SCIENCES

Chosen by advisement from English, Geography, Mathematics, Music, Science and Social Studies.

RESE	ARCH		3
Ed.	575	Research Methods and	
		Techniques	
Ed.	550	Project	
Ed.	525	Thesis	
(Ea	ch can	didate, after a conference v	vit
may	select	one of the above requirem	en

Total requirements: 32 semester hours

ELEMENTARY PRINCIPALSHIP AND/OR **SUPERVISION**

Experienced teachers desiring the elementary school principal's provisional certificate should complete the bachelor's degree and six semester hours in 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 Ed. 503 and 504, three to six hours in Ed. 507, 520, 521, or 552.

Experienced teachers desiring the elementary school supervisor's provisional certificate should complete the bachelor's degree and six semester hours in 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 Ed. 521 and 551.

REQUIRED PROFESSIONAL COURSES

Ed. 500	Workshop in Elementary Education
Ed. 503	Organization of the Ele- mentary School
Ed. 504	Administration of the Ele- mentary School
Ed. 530 Ed. 531	Or Principles of Supervision Supervision of Teaching

* These courses meet New York State Certification requirements. Students seeking certification consult with the Division Director before first registration.

Ed. 533 Ed. 516 Eng. 514 **GROUP B:**

Ed. 509

or

Ed. 519

Ed. 506

or

Ed. 541

Ed. 503

Ed. 530

Ed. 548

Ed. 539

or

or

he Elementary

ching and Develop-

Guidance

Iren Exceptional

17 SEM. HRS.

-6 SEM. HRS.

3 Sem. Hrs. 3 Sem. Hrs. 6 Sem. Hrs. th his adviser, its.)

12 SEM. HRS.

6 Sem. Hrs.

3 Sem. Hrs.

3 Sem. Hrs.

3 Sem. Hrs. 3 Sem. Hrs.

REQUIREL	O COURSES IN ARTS	AND SCIENCES 8-10 Sem. Hrs.
	by advisement from E tics, Music, Science, an	nglish, Geography,
	I I I I I I I I I I I I I I I I I I I	
	Research Methods and	
	Techniques	2-3 Sem. Hrs.
Ed. 550	Project	4 Sem. Hrs.
Ed. 525	Master's Thesis	6 Sem. Hrs.
(Fach car	ndidate after conference	e with his adviser

(Each candidate, after conference with his adviser, may select *one* of the above requirements.) UNRESTRICTED ELECTIVES 4-10 SEM. HRS.

Total requirements: 32 semester hours

EXCEPTIONAL CHILDREN EDUCATION EDUCATION OF CHILDREN WITH MENTAL RETARDATION

REQUIRED COURSES IN THE FIELD OF SPECIALIZATION 12 Sam Hrs

ECIALIZATION	12 Sem. Hrs.
By advisement fr	om the following:
Ex. Ed. 520	Speech Correction for Elementary School Teachers
Ex. Ed. 527	Guidance of Children who are Ex- ceptional
*Ex. Ed. 535	Mental and Educational Measure- ment
Ex. Ed. 538	Understanding the Problem Child in the Classroom
Ex. Ed. 539	The Gifted Child
*Ex. Ed. 551	Practicum in Mental Retardation
*Ex. Ed. 561	Curriculum Practices for the Men- tally Retarded
*Ex. Ed. 571	Creative Arts for the Mentally Re- tarded
Ex. Ed. 581	Teaching the Severely Retarded
*Ex. Ed. 591	Nature and Needs of Exceptional Children

REQUIRED COURSES IN ARTS AND SCIENCES 12 SEM. HRS.

Graduate courses in English, Geography, Mathematics, Music, Science and Social Studies by advisement

RESEARCH		2-6 Sem. Hrs.
Ed. 575	Research Methods	and
	Techniques	2-3 Sem. Hrs.
Ex. Ed. 550	Project	4 Sem. Hrs.
Ex. Ed. 525	Master's Thesis	6 Sem. Hrs.
	te, after conference	
(Each candida		with his adviser,

UNRESTRICTED ELECTIVES 5-9 Sem. Hrs. Total requirements: 32 semester hours

EDUCATION OF CHILDREN WITH ORTHOPEDIC HANDICAP

REOUIRED COURSES IN THE FIELD OF SPECIALIZATION 12 Sem. Hrs. By advisement, from the following:

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Ex.	Ed.	502	Workshop	in	the	Educatio	n	of	
			Children dicap	with	h Oi	rthopedic	Ha	nn-	

- Ex. Ed. 512 Seminar in Education of Children with Orthopedic Handicap
- Ex. Ed. 520 Speech Problems of Children Ex. Ed. 527 Guidance of Children who are Ex-
- ceptional Ex. Ed. 538 Understanding the Problem Child
- in the Classroom
- Ex. Ed. 591 Nature and Needs of Exceptional Children

REQUIRED COURSES IN ARTS AND SCIENCES 12 SEM. HRS.

Chosen by advisement from English, Geography, Mathematics, Music, Science and Social Studies.

RESEARCH		2-6 SEM. HRS.
Ed. 575	Research Methods	
	Techniques	2-3 Sem. Hrs.
	Project	
Ex. Ed. 525	Master's Thesis	6 Sem. Hrs.
	ate, after conference of the above require	

UNRESTRICTED ELECTIVES 5-9 SEM. HRS. Total requirements: 32 semester hours

EDUCATION OF CHILDREN WITH SPEECH AND HEARING IMPAIRMENT

PREREQUISITES	16 SEM. HRS.
Science of Speech and Hearing	
Phonetics	
Speech Pathology	6 Sem. Hrs.
Speech Correction	
Introduction to Audiology	
(Substitution may be made for in	
ments provided the deficiency is	
graduate level.)	

THE GRADUATE PROGRAM

REQUIRED COURSES IN THE FIELD OF

SPECIALIZATION 12 SEM. HRS.

- By advisement from the following: Ex. Ed. 556 Advanced Seminar in Voice and Articulation Disorders
- Ex. Ed. 557 Audiometry and Hearing Aids
- Ex. Ed. 558 Neuropathologies of Speech
- Ex. Ed. 559 Seminar in Stuttering
- Ex. Ed. 543 Speech Reading and Auditory Training
- Ex. Ed. 560 Advanced Clinic in Speech-Hear-Hearing Disorders
- Ex. Ed. 591 Nature and Needs of Exceptional Children

REQUIRED COURSES IN ARTS AND SCIENCES 12 SEM. HRS.

Chosen by advisement from English, Geography, Mathematics, Music, Science and Social Studies.

RESEARCH		2-6 SEM. HRS.
	Research Methods	
	Techniques	2-3 Sem. Hrs.
Ex. Ed. 550	Project	4 Sem. Hrs.
	Master's Thesis	
	te, after conference of the above requir	
may select one	of the above requir	ements.)
INDECTDICTE	DELECTIVEC	5 0 0 II

UNRESTRICTED ELECTIVES _____ 5-9 SEM. HRS. Total requirements: 32 semester hours

HOME ECONOMICS EDUCATION

COURSES IN TECHNICAL AND RELATED HRS.

FIELDS	20-30 Sem. Hrs.
Technical Courses: Family Life Foods and Nutrition Clothing and Textiles Equipment Management Housing Family Finance	
Related Courses: H. Ec. 500 (required) Evaluation Electives (by advisement)	
ESEARCH Ed. 575 Research Methods Techniques	2-6 SEM. HRS. and 2-3 Sem. Hrs.

Ed. 575	Research Methods ar	nd
	Techniques	2-3 Sem. Hrs.
H. Ec. 550	Project	4 Sem. Hrs.
	Master's Thesis	

REQUIRED COURSES IN ARTS AND SCIENCES 9-12 SEM. HRS.

Chosen by advisement from Art, English, Geography, Science and Social Studies.

Total Requirements: 32 Semester hours

INDUSTRIAL ARTS EDUCATION

COURSES IN TECHNICAL AND RELATED

FIELDS			20	-23 SEM.	HRS.
Professional	Education:			-10 Sem.	HRS.
I.A. 501	Seminar in	Industrial	Arts	2-3 Sem.	Hrs.
I.A. 528	Industrial A	Arts Curricu	ulum	2-3 Sem.	Hrs.

- I.A. 550 Master's Study 4 Sem. Hrs. Technical Education: 8 SEM. HRS. Chosen by advisement from the following: I.A. 508, 512, 513, 515, 517, 519, 521, 523, 527, 529, 530
- Professional and Technical Electives: ____ 6-8 SEM. Hrs. Chosen by advisement from Education, Psychology, Industrial Arts

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

Chosen by advisement from English, Geography, Mathematics, Science, Social Studies

Total requirements: 32 semester hours

INTENSIVE TEACHER TRAINING PROGRAM

ELEMENTARY TEACHING CERTIFICATION FOR COLLEGE GRADUATES

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

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

All college graduates interested in this program for certification in elementary school teaching should make application, complete credentials, and have a personal interview before May 10.

INTERME	DIATE GRADE GROUP	
Ed. 560	Workshop in Elementary	
	Education (Summer	
	Session only)	8 Sem. Hrs.
Ed. 510	Seminar in Elementary	
	School Problems	3 Sem. Hrs.
Ed. 511	Music and Art in the Ele-	
	mentary School	3 Sem. Hrs.
Ed. 512	-	
	ment	6 Sem. Hrs.
Ed. 516	Methods and Materials in	
	the Elementary School	3 Sem. Hrs.
Ed. 501	Seminar in Elementary Edu-	
	cation	3 Sem. Hrs.
Electives	(by advisement)	4 Sem. Hrs.
Ed. 575	Research Methods and	
	Techniques (for mas-	
	ters' degree candidates	2 Sem. Hrs.
	-	_
		2 Sem. Hrs.*
* 30 semester hours for the	hours for permanent certification master's degree.	; 32 semester
	ARTEN-PRIMARY GROUP	
Eu. 500	Workshop in Elementary Education (Summer	

Session only) 8 Sem. Hrs. Ed. 510 Seminar in Elementary 3 Sem. Hrs. School Problems Ed. 511 Music and Art in the Elementary School 3 Sem. Hrs. Ed. 512 Seminar in Child Develop-6 Sem. Hrs. ment Ed. 515 Seminar in Early Childhood Education 3 Sem. Hrs. or Ed. 527 Problems in Educational Services for Young Chil-3 Sem. Hrs. dren Electives (by advisement) 7 Sem. Hrs. Ed. 575 Research Methods and Techniques (for master's degree candidates) 2 Sem. Hrs.

32 Sem. Hrs.*

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

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COURSE DESCRIPTIONS

GRADUATE COURSES IN ART EDUCATION

The following is a 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 oncampus and off-campus extension. For exact credit to be earned see the summer session, fall or spring schedules. Registration in all graduate courses is made with the consent of the instructor.

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

ART 504. SEMINAR IN ART IN HUMAN AF-FAIRS—Art activity as a dynamic force in the life of an individual and society; psychology of creative activities; creative activity as a way of clarifying thought, attaining control of emotions, propagating individual and group attitudes, beliefs, ceremonials, and practices.

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

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

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

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

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

ART 510. GRADUATE STUDIO IN PHOTOG-RAPHY — 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 CUR-RICULUM-The use of art materials, processes, and procedures in the elementary school; developing creative and expressive activities of children.

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

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

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

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

ART 516. GRADUATE STUDIO IN ADVER-TISING AND ILLUSTRATION-Development of explicit communications in illustration and design using realistic, experimental, and expressive approaches; preparation of art work for illustration, reproduction, and

publication in magazines, newspapers or books; investigation of materials and techniques in black and white, color, line and tone, particularly suited to reproduction standards.

ART 517. HISTORIC AND CONTEMPORARY ART IN EUROPE-Architecture, painting, sculpture, crafts, and city planning in Germany, France, Austria, Italy, The Netherlands and Belgium; given in conjunction with the Experiment in International Living; to including three weeks in residence with a European family.

ART 518. HISTORIC AND CONTEMPORARY ART IN MEXICO-Architecture, painting, sculpture, crafts, and city planning in Mexico; given in conjunction with the Experiment in International Living to include three weeks in residence with a Mexican family.

ART 519. EASTERN MEDITERRANEAN CUL-TURES-Study of historic periods in which art most clearly reflects the culture, and the influences made on that art by socio-economic, religious, and geographical factors in the Mediterranean area. Present art forms related to contemporary forces within the countries visited.

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

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

ART 526. SPECIAL PROJECT-Research or investigation of a particular problem, to be planned and carried out by student, with consultation and guidance from instructor.

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

GRADUATE COURSES IN EDUCATION

ED. 501. SEMINAR IN ELEMENTARY EDU-CATION-The use of scientific educational research methods in studying problems in Elementary Education; the selection and discussion of current educational problems; the selection and development of a significant problem in student's area of interest and submission of a research paper. Required of Elementary Education candidates for the master of science degree. Prerequisite: Ed. 575.

ED. 503. ORGANIZATION OF THE ELEMEN-TARY SCHOOL-Major concepts in Elementary Education; administration of the elementary school; the curriculum; grouping of pupils; the school plant; trends in school building design; co-curricular activities; pupil safety measures. Required for principal's provisional and permanent certification. Open to experienced teachers. Prerequisites: completion of two years successful elementary school experience.

ED. 504. ADMINISTRATION OF THE ELE-MENTARY 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. Required for principal's provisional and permanent certification. Open to experienced teachers. Prerequisites: completion of two years successful elementary school experience.

ED. 505 EVALUATION IN THE ELEMEN-TARY SCHOOL-Evaluating growth of pupils; evaluation related to teaching objectives; informal, objective, and essay type tests; selection, administration, and scoring of measuring instruments; study and use of different kinds of evaluation procedures; statistical methods in handling and interpreting data.

ED. 506. PHILOSOPHY OF EDUCATION -Principles underlying educational practices; changing concepts of education; education in a democratic society; teaching procedures as determined by a democratic concept of education.

ED. 507. GENERAL SCHOOL ADMINISTRA-TION-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, inservice education; school building programs. Prerequsites: Ed. 503, 504.

ED. 508. SUPERVISION OF STUDENT TEACH-ING—Clarifying responsibilities of sponsor teachers: planning effective conferences with students; developing ways of helping students evaluate their own growth; keeping diversified records; clarifying long and short term planning; helping students plan learning experiences.

ED. 510. SEMINAR IN ELEMENTARY SCHOOL PROBLEMS-Methods and materials in language arts, science and mathematics for elementary school teachers. Open to students in the Intensive Teacher Training Program.

ED. 511. MUSIC AND ART IN THE ELEMEN-TARY 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 to students in the Intensive Teaching Training Program.

ED. 512. SEMINAR IN CHILD DEVELOP-MENT—Growth and development of children through the elementary school years; environmental factors which influence the child's development; the teacher's role in promoting desirable growth. Individual and group work on specialized problems; field trips and observations of children. Required of students in the Intensive Teacher Training Program. Prerequisite: Ed. 560.

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

ED. 516. METHODS AND MATERIALS IN THE ELEMENTARY SCHOOL—Advanced study of special problems related to the elementary school curriculum; practical application of curriculum material; study of current trends in adapting curriculum materials to individual differences; evaluative techniques and procedures.

ED. 517. TEACHING THE LANGUAGE ARTS IN THE ELEMENTARY SCHOOL—Factors that influence language growth; interrelationship of the language arts skills of spelling, reading, speaking, writing, handwriting, listening; factors affecting creative writing, creative dramatics, choral speaking, and leisure reading; recent research in the areas of the language arts; develmental language arts program.

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

ED. 520. WORKSHOP IN ELEMENTARY SCHOOL ADMINISTRATION—Selection, induction and guidance of new teachers; development of schoolcommunity relations; curriculum improvement; adjustment of school facilities to increasing enrollments; inservice education of staff personnel; elementary school problems suggested by the group. Prerequisites: Ed. 503, 504.

ED. 521. THE ELEMENTARY SCHOOL CUR-RICULUM—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. ED. 523. PRINCIPLES AND PRACTICES OF GUIDANCE—The philosophy of guidance, its place in present education; identifying interests, and attitudes, and understanding problems of the age group and individuals; techniques of counseling and methods of investigation; the role of the teacher, specialist and administrator in guidance; school, home, community resources in a guidance program.

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—Research or investigation of a particular problem, to be planned and carried out by student, with consultation and guidance from 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. 529. ADOLESCENT PSYCHOLOGY — Characteristics and problems of adolescents in our society; relationship of adolescent behavior to earlier development; special provisions of the early secondary school for this age group. By advisement for students preparing for secondary school teaching. Prerequisite: six semester hours in Human Growth and Development or its equivalent.

ED. 530. PRINCIPLES OF SUPERVISION — Historical developments and changing concepts of supervision; principles of effective supervisory programs; types of administrative organization; maintaining staff morale. Prerequisite: completion of two years of successful elementary school experience.

ED. 531. SUPERVISION OF TEACHING — Principles of supervision; classroom observation; evaluating teaching; effect of teachers' purposes and research on choice of subject matter and teaching procedures; teacher-pupil relationships; group and individual conferences; induction of new teachers; inter-visitation; demonstration teaching; teachers' meetings; bulletins; workshops; evaluation of program. Prerequisite: completion of two years of successful elementary school experience and Ed. 530.

ED. 532. SECONDARY SCHOOL EDUCA-TION—Origin and functions of secondary education; curriculum patterns; guidance and exploratory programs; articulation between elementary school and senior high school; extra-curricular activities; evaluation in the secondary school; research methods in solving problems listed above and others suggested by students. Required of students extending certification to teach in early secondary schools. ED. 533. WORKSHOP IN AUDIO-VISUAL EDUCATION—Audio-visual teaching methods, application, integration and evaluation; knowledges and skills in use of equipment; new media, ETV, self-instructional devices; sources of materials and equipment; audio-visual programs in schools, communities, states, federal; film libraries; ordering of materials; budgets and administration, evaluation of program.

ED. 535. METHODS OF TEACHING SEC-ONDARY SCHOOL SCIENCE—Objectives of science teaching; methods of reaching those objectives; evaluation of the results of science teaching. Not for students who have credit for Ed. 318, Ed. 328, or the equivalent. Otherwise required for persons wishing to be certified to teach science in New York State. Prerequisites: 15 semester hours of content in the sciences. Lectures, discussions, and role experience.

ED. 536. SECONDARY SCHOOL PROBLEMS AND METHODS—Objectives of secondary school education; basic principles of learning and motivation; curriculum concepts; organizing learning experiences; providing for individual differences; teacher-pupil planning; selecting and organizing learning materials; audiovisual aids to learning; utilizing school, civic and community resources; status and practice of the core-curriculum; nature and purposes of resource units; evaluating pupil growth. Required of students extending certification to teaching in early secondary schools.

ED. 537. EVALUATION IN THE SECOND-ARY SCHOOL—Relationship of evaluation to instructional objectives; selecting, administering, scoring, recording and interpreting standardized and teacher-made instruments 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 recording pupil progress; statistical concepts and methods of collecting, tabulating, and interpreting data. Required of students in secondary school mathematics or science; elective for others.

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

ED. 539. WORKSHOP IN TEACHING SPAN-ISH IN THE ELEMENTARY GRADES — Spanish conversation; Spanish civilization; observation and participation in a Spanish demonstration class in the Campus School; evaluation of text materials and other teaching aids.

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

ED. 542. SEMINAR IN THE SECONDARY SCHOOL CURRICULUM—Curricular and extra-curricular programs related to social, economic, and community changes; relationship of principles and procedures of curriculum development to educational objectives; relationship of principles and procedures of curriculum development to educational objectives; relationship of extra-curricular activities to curriculum areas; adaptation of the curriculum to adolescent abilities, needs, and interests; various patterns of curriculum development; financing, organizing, scheduling, and supervising extra-curricular activities; bases for determining extent and type of student participation in school management.

ED. 545. TEACHING READING IN THE SEC-ONDARY SCHOOL—Need of reading instruction in secondary school; Nature of reading process; types of reading programs; reading instruction; planning an effective Secondary Reading Program.

ED. 546. THE TEACHING OF READING — Importance of reading in present day society, research in child development and learning and its implication for the teaching of reading; trends in the teaching of reading; developmental levels of reading; reading in the content areas; methods and materials; evaluation and guidance of pupil growth in reading.

ED. 547. CORE PROGRAMS IN THE EARLY SECONDARY SCHOOL — Nature of block-of-time and core programs, teacher-pupil planning, preparation of resource units, guidance and evaluation procedures.

ED. 548. WORKSHOP IN TEACHING FRENCH IN THE ELEMENTARY GRADES—French conversation; observation and participation in a French demonstration class in the Campus School; evaluation of text materials and other teaching aids.

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

ED. 551. PROBLEMS IN ELEMENTARY SCHOOL SUPERVISION—Advanced study of special problems re supervision; the roles of the teacher and supervisor in the total school program; human relations; group dynamics; creative teaching; in-service education; teacher selection and evaluation; self-evaluation by teachers; educational leadership; role of special teachers. Required for permanent certificate in Elementary School supervision. Prerequisites: Ed. 530 and Ed. 531.

ED. 552. LEGAL PROBLEMS OF EDUCA-TION—Foundations of Public School Law; legal problems arising out of the operation of the public school system; New York State Education Law; selected cases from state and federal courts; common law principles.

ED. 560. WORKSHOP IN ELEMENTARY ED-UCATION-Introduction to objectives of Elementary Education, school procedures, instructional materials and methods; teaching experiences with children; understanding children and principles of learning. Required of students in the Intensive Teaching Training Program.

ED. 564. ADVANCED DRIVER EDUCATION AND SAFETY-Course designed to fit the needs of Teachers of Driver Education courses now in practice in the secondary schools. Evaluation of Audio-Visual Aids, survey and evaluation of research studies in driver education, practice driving analysis, analysis and evaluation of diagnostic tests. Evaluation of techniques for improving practice driving instruction and project development. Teachers should have one year of teaching driving education on the secondary level before registering.

ED. 565. WORKSHOP IN DRIVER EDUCA-TION AND TRAFFIC SAFETY-Teaching, administration and supervision of driver education and traffic safety programs; methods and materials, resource people and agencies; critical analysis of existing procedures; discussion of problems; field trips and lectures by leaders in the field. Prerequisites: Ed. 463 or 567.

ED. 566. SAFETY EDUCATION-Kinds and frequency of accidents; psychology in accident prevention; safety in home, school, shop, playground and community; water, traffic and fire safety; recreation safety; poisons and emergency treatment; teaching safety in the public schools; research projects of special interest to students.

ED. 567. DRIVER EDUCATION - Behind-thewheel instruction; instructing a trainee driver; traffic and pedestrian safety; psycho-physical testing; traffic law, accident statistics; accident prevention; traffic engineering; negligence and liability; insurance interpretation; effects of alcohol; theory and maintenance of automobile; administration of the program. Required for certification to teach driver education in New York State. Prerequisites: a good driving record (a licensed operator for at least two years). Two class hours and two laboratory hours per week.

ED. 575. RESEARCH METHODS AND TECH-NIQUES — The scientific method, including various methods of research; an analysis of different types of research studies; procedures in developing a research paper; elementary statistical terminology; collecting, classifying and evaluating data. Required of candidates for master of science degree not writing a thesis or completing a research project.

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. 502. STUDIES IN AMERICAN LITERA-TURE-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 LITERA-TURE—Literature of certain geographical and cultural areas of the United States-New England and Eastern, Southern, Western, folkways in American letters, local color and the use of regional materials, particularly in fiction.

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

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

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

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

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

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

ENG. 510. EMERSON AND THOREAU-Writing of Emerson and Thoreau against the background of European and American transcendentalism.

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

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

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

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

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

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

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

ENG. 521. STUDIES IN MODERN BRITISH POETRY - Significant trends and figures in British poetry since 1890; emphasis upon the work of two writers from the following group. Hardy, Housman, Yeats, Masefield, Eliot, and Thomas.

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

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

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

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

ENG. 526 SPECIAL PROJECT-Research or investigation of a particular problem, to be planned and

carried out by student, with consultation and guidance from instructor.

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

ENG. 529. THE ENGLISH LANGUAGE-Historical development of the English language since the 14th century; political and social influences for change; growth of grammatical science and lexicography; contemporary problems of usage; sematics; trends in American English.

ENG. 530. STUDIES IN THE POETRY OF THE VICTORIAN PERIOD-Major Victorian poets, with emphasis on Tennyson and Browning; social, political, and intellectual background of the times.

ENG. 531. STUDIES IN THE PROSE OF THE VICTORIAN PERIOD — Major Victorian essayists with reference to the intellectual background of nineteenth-century England: Carlyle, Newman, Macaulay, J. E. Mill, Ruskin, and Arnold.

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

ENG. 533. LITERATURE OF CONTINENTAL EUROPE: THE MIDDLE AGES-Reading in English translation representative works of the Middle Ages; importance of this literature as source material for more recent writers.

ENG. 534. LITERATURE OF CONTINENTAL EUROPE: THE RENAISSANCE-Petrarch, Boccaccio, Machiavelli, Castiglione, Ariosto, and their relation to the literature of England.

ENG. 535. LITERATURE OF CONTINENTAL EUROPE: THE NINETEENTH CENTURY-Reading in English translation of selected masterpieces; Rousseau and his disciples; romantic poetry, fiction, and drama; realism, naturalism, and symbolism in the various types of literature.

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

GRADUATE COURSES IN EXCEPTIONAL CHILDREN EDUCATION

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

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

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

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

EX.ED. 512. SEMINAR IN EDUCATION OF CHILDREN WITH ORTHOPEDIC HANDICAP — Problems of class organization, grouping and curriculum; educational psychology for the crippled; psychological tests and their interpretation.

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

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

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

EX.ED. 524. INTRODUCTION TO AUDIOL-OGY—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. 526. SPECIAL PROJECT — Research or investigation of a particular problem, to be planned and carried out by student, with consultation and guidance from instructor.

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

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

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

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

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

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

EX.ED. 538. UNDERSTANDING THE PROB-LEM CHILD IN THE CLASSROOM—Personal and social factors as related to the problem child; case study of an individual pupil and group discussion of report. Enrollment limited to fifteen. Open to graduate students in any division.

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

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

EX.ED. 543. SPEECH READING.—A consideration of the most important methods of teaching speech reading to the hard of hearing child, together with practice in the various techniques. Elective for graduates and undergraduates interested in the child with hearing impairment. EX.ED. 550. PROJECT—A study undertaken by one or more individuals on a problem of special interest; must be submitted in acceptable form according to directions given by the Graduate Division.

EX.ED. 551. PRACTICUM IN MENTAL RE-TARDATION. (FORMERLY EX.ED. 501. WORK-SHOP IN EDUCATION OF CHILDREN WITH RE-TARDED MENTAL DEVELOPMENT) — Observation and individual participation in a class for children with mental retardation; group discussions and experimentation in techniques and materials.

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

EX.ED. 557. AUDIOMETRY AND HEARING AIDS—Study and measurement of hearing. Administration of individual audiometric, speech discrimination and speech reception tests; interpretation audiograms; principles of construction, fitting and use of individual hearing aids.

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

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

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

EX.ED. 561. OCCUPATIONAL EDUCATION FOR CHILDREN WITH MENTAL RETARDA-TION. (FORMERLY EX.ED. 511, SEMINAR IN EDUCATION OF CHILDREN WITH RETARDED MENTAL DEVELOPMENTS)—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. CREATIVE ARTS FOR MEN-TALLY RETARDED — 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.

EX.ED. 581. TEACHING THE SEVERELY RE-TARDED (TRAINABLE) — Nature and needs of children, curriculum, methods and materials, special problems encountered in training the severely retarded

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(below 50 IQ) in community day-school classes. Recommended for those working with educable or trainable retardates.

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

GRADUATE COURSES IN GEOGRAPHY

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

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

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

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

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

GEOG. 505. GEOGRAPHY OF THE MEDIT-ERRANEAN WORLD — Land forms and climates. Historical Geography; Physiographic regions and related human use regions; relations between these and man-made political divisions as part of the geographic background of current events. Changing pattern of land use. Demographic equilibrium and the economy of the States.

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

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

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GEOG. 526. SPECIAL PROJECT - Research or investigation of a particular problem, to be planned and carried out by student, with consultation and guidance from instructor.

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

GRADUATE COURSES IN HOME ECONOMICS

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

H.EC. 501. WORKSHOP IN HOME ECO-NOMICS EDUCATION - Problems in teaching of Home Economics based upon individual needs and interests of workshop participants. Individual conferences; group discussion; joint activities. Prerequisite: one year of teaching experience.

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

H.EC. 503. FAMILY RELATIONSHIPS - The family viewed longitudinally; developmental tasks of family members at each stage of the family life cycle; research on marriage success and family crisis; attitudes, values, and standards regarding family living.

H.EC. 504. PROBLEMS IN FOODS AND NU-TRITION — 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 MANAGE-MENT - 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 ECO-NOMICS 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 ADVANCE CLOTHING - Pattern making and dress design with particular reference to alteration problems met in clothing classes; garments made in class.

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

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

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

H.EC. 512. WORKSHOP IN HOUSEHOLD EQUIPMENT FOR HOME ECONOMICS TEACH-ERS—Survey and evaluation of developments in large and small equipment used in homes and schools; field trips, laboratory and demonstrations.

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

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

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

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

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

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

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

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

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

H.EC. 526. SPECIAL PROJECT - Research or investigation of a particular problem, to be planned and carried out by student, with consultation and guidance from instructor.

.HEC. 550. PROJECT-An undertaking pursued by one or more students on some problem closely related to the field of special interest. The project must be approved by the student's advisor and by the head of the division or department concerned.

GRADUATE COURSES IN INDUSTRIAL ARTS

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

I.A. 501. SEMINAR IN INDUSTRIAL ARTS-Discussion, research, reports on individual and group problems in Industrial Arts education. Required of Industrial Arts students registered for the degree of master of science.

I.A. 502. FIELD STUDIES RELATED TO IN-DUSTRIAL 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 AD-JUSTMENT 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 COOP-ERATIVE TRAINING - The organization and development of industrial part-time programs. Determining needs; advisory boards; employment opportunities; analyzing training; training outlines; related work.

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

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

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

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

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

I.A. 518. ADVANCED ELECTRONICS - Electronics in the junior and senior high school industrial arts program; advanced electronic theory and practice in communications: development of instructional materials, demonstration equipment, projects and visual aids.

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

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

I.A. 523. INDUSTRIAL ARTS IN THE ELE-MENTARY SCHOOL-Functions of Industrial Arts in the elementary school; study of activities for the various grade levels; problems of equipment, organization, supplies; planning and executing units of work.

I.A. 524. EVALUATION IN INDUSTRIAL ARTS-General principles of evaluation; construction and use of various informal devices and techniques of evaluation applicable to industrial arts; selection and use of appropriate standardized instruments of evaluation; observation, rating scales, anecdotal records, personnel systems, and the industrial arts project; interpreting, recording and using the results of evaluation for the improvement of instruction.

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

I.A. 526. SPECIAL PROJECT - Research or investigation of a particular problem, to be planned and carried out by student, with consultation and guidance from instructor.

I.A. 527. TELEVISION TECHNOLOGY WORK-SHOP-Circuit analysis of television technology and the use of specialized laboratory equipment. Open to graduate students who have successfully completed the advanced radio and electronics courses.

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

I.A. 529. ADVANCED DRAFTING - PROB-LEMS AND TECHNIQUES — Technical proficiency in specific areas of drafting; the program of drafting in the junior and senior high schools; governmental and industrial drafting standards; conventional and simplified drafting practices; evaluation of pupil progress in technical drawing.

I.A. 530. NEW TECHNIQUES IN GRAPHIC ARTS - Experimentation in papermaking, ink, photography, halftones, color separation, photo-engraving; technical proficiencies in offset printing, publications, letterpress printing, silk-screen printing, bookbinding.

I.A. 533. WORKSHOP IN ADVANCED CER-AMICS - Advanced design in individual and duplicate methods of production; decoration, glazing, and firing; clays, glazes and kilns; individual problems; the school ceramics program.

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.

GRADUATE COURSES IN MATHEMATICS

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

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

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

MATH. 507. FOUNDATIONS OF MATHE-MATICS — The axiomatic method; theory of sets and infinite sets; real number system and linear continuum; the complex number system; groups and their significance for the foundations; development of various viewpoints on foundations. Prerequisites: Differential and Integral Calculus.

MATH. 508. MATHEMATICAL STATISTICS -Introduction to statistical methods; probability and combinatorial methods; discrete distributions; distributions for continuous variates; expected values and moments; special continuous distributions; sampling, point estimation; multi-variate normal distribution; sampling distributions; interval estimation; tests of hypotheses; regression and linear hypotheses. Prerequisites: Differential and Integral Calculus.

MATH. 509. THEORY OF NUMBERS-Counting and recording of numbers; properties of numbers; Euclid's algorism; prime numbers; the aliguot parts; indeterminate problems and their theory; Diophantine problems; congruences; analysis of congruences; Wilson's theorem; Euler's theorem; theory of decimal expansions; the converse of Fermat's theorem; the classical construction problems.

MATH. 510. MODERN ALGEBRA — Groups, integral domains, rings and fields; the field of real numbers; the field of complex numbers; polynomials; vector spaces; matrices and determinants.

MATH. 511. SEMINAR IN MATHEMATICS-Independent study of selected problems; presentation of findings and appraisal of results; analyses and critiques.

MATH. 512. NON-EUCLIDEAN GEOMETRY -Historical development; hyperbolic plane geometry; elliptic plane geometry; topics from hyperbolic and elliptic trigonometry; consistency of non-Euclidean geometries.

MATH. 513. INTRODUCTION TO TOPOL-OGY-Introductory set theory; transformations; topological equivalence; topological spaces; metric spaces.

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

MATH. 526. SPECIAL PROJECT — Research or investigation of a particular problem, to be planned and carried out by student, with consultation and guidance from instructor.

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

GRADUATE COURSES IN MUSIC

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

MUS. 526. SPECIAL PROJECT - Research or investigation of a particular problem, to be planned and carried out by student, with consultation and guidance from instructor.

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GRADUATE COURSES IN SCIENCE

BIOLOGY

BI. 501. RADIATION BIOLOGY-Mechanisms of radiobiological actions; high energy and ultra-violet radiations as biological tools; tracer techniques; genetic influences; tolerance. Required of Biology majors and minors; others by permission of instructor. Prerequisites: 18 sem. hrs. in biological sciences; 6 sem. hrs. chemistry or physics. Four hours per week, including laboratory.

BI. 505. PROBLEMS IN BIOLOGY—Individual research in a specific biological problem selected by the student under the advisement and direction of the instructor. Required of Biology majors; others by permission of instructor. Prerequisite: 24 semester hours in biological sciences.

BI. 507. HISTOLOGY-Structural characteristics of normal tissues and organs of vertebrates; practice in methods of microtechnique. Elective for Biology majors and minors; others by permission of instructor. Prerequisites: 18 sem. hrs. biological sciences; 8 sem. hrs. chemistry. Four hours per week, including laboratory.

BL 508. COMPARATIVE VERTEBRATE AN-ATOMY - Comparative study of the evolution, development, and anatomy of representative vertebrates. Elective for Biology majors and minors; others by permission of instructor. Prerequisite: 18 sem. hrs. in biological sciences. Four hours per week, including laboratory.

BI. 509. PLANT PHYSIOLOGY-Physiological processes in plants, including photosynthesis, respiration, osmosis, transpiration, effects of hormones, soil nutrients, and tropisms. Elective for Biology majors and minors; others by permission of instructor. Prerequisites: 18 sem. hrs. in biological sciences, including BI. 103; 8 sem. hrs. in chemistry, or the equivalent of these. Four hours per week, including laboratory.

BI. 510. PROTOZOOLOGY-Morphology, physiology, and taxonomy of the protozoa; life cycles of selected free-living and parasitic species; importance in environmental inter-relationships and significance in human problems. Elective for Biology majors and minors; others with approval of instructor. Prerequisite: 18 sem. hrs. in biological sciences. Four hours per week, including laboratory.

BI. 511. PARASITOLOGY — Principles of parasitology; morphology, life cycles, identification and pathological effects of representative parasites; control and treatment of parasitic infection; significance of parasitism in biotic communities, human health and plant and animal culture. Elective for Biology majors and minors; others with permission of instructor. Prerequisite: 18 sem. hrs. in biological sciences. Four hours per week, including laboratory.

CHEMISTRY

CH. 501. CHEMISTRY OF RADIOACTIVE SUBSTANCES — Fundamentals of radioactivity, its measurement, detection, and application to chemical problems; radioactive element separation procedures; tracer techniques, and safety precautions. Required of chemistry majors, elective for minors. Prerequisites: 6 sem. hrs. in physics, 18 sem. hrs. in chemistry, and calculus. *Five hours per week, including laboratory*.

CH. 502. CHEMISTRY OF HIGH POLYMERS —Study of types of polymeric substances; formation and characterization of polymers of high molecular weight; kinetics and mechanisms of polymerization reactions; relationships between structure and properties of polymers. Elective for chemistry majors and minors. Prerequisites: one semester physical chemistry, calculus. *Five hours per week, including one three-hour laboratory period.*

CH. 503-504. PHYSICAL CHEMISTRY — Description of physico-chemical systems; properties of gases, liquids, and solids; the nature of chemical reactions; thermodynamics, kinetics, electrochemistry; the structure of matter. Required for chemistry majors and minors. Prerequisites: 18 sem. hrs. chemistry; calculus. *Five hours per week, including laboratory*.

CH. 505. CHEMISTRY OF METALLIC ELE-MENTS — Chemical properties of the alkali and alkaline earth metals; transition metals and their neighbors; nature of metal surfaces; oxidation and corrosion of metals; structure, composition and properties of alloys. Elective for chemistry majors and minors. Prerequisites: one semester of physical chemistry, calculus. *Five hours per week, including laboratory.*

CH. 506. READINGS IN CHEMICAL RE-SEARCH — Readings, lectures, library problems and discussion of current problems in chemical research; use of journals, reference books, monographs and abstracts. Elective for chemistry majors and minors. Prerequisites: graduate standing with major or minor in chemistry.

CH. 507. CHEMISTRY SEMINAR — Study, discussion and reports on recent research in chemistry. Elective for chemistry majors and minors. *One hour per week*.

EARTH SCIENCE

E.S. 501. ECONOMIC GEOLOGY — Origin, composition, alteration, and enrichment of ores; origin of fossil fuels and other non-metalliferous deposits; mineral resources of New York; conservation of geologic resources. Required of Earth Science majors and minors. Prerequisites: 18 sem. hrs. earth sciences, inorganic chemistry. *Four hours per week, including field trips, laboratory.*

E.S. 502. CARTOGRAPHY — Elements of cartography with emphasis on graphic presentation; map projections, map interpretation, and the history of maps. Required of all Earth Science majors and minors. Prerequisite: 18 semester hours in earth sciences. *Four hours per week, including laboratory.*

E.S. 503. ADVANCED GENERAL GEOLOGY —Current topics and recent literature involving geologic research. Required of Earth Science majors; others by permission of instructor. Prerequisite: 18 semester hours in earth sciences. *Three hours per week*.

E.S. 504. GEOLOGY OF NORTH AMERICA— Major physical provinces of the United States and adjacent areas with reference to their geologic history, structure and topographic development. Required of Earth Science majors; others with permission of instructor. Prerequisite: 18 semester hours in earth sciences. Four hours per week, including field trips and laboratory.

E.S. 505. GEOLOGY SEMINAR — Readings, reports, and discussion of current geological problems and research. Required of Earth Science majors and minors. Prerequisite: 24 semester hours in earth sciences.

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

PHYSICS

PH. 501. MECHANICS I (Statics)—Resultants and components; coplanar concurrent forces; moments and parallel coplanar forces; non-concurrent, nonparallel, colanar forces; friction; maximum and minimum forces; non-coplanar forces, centroids; moments of inertia of areas and masses. Elective for majors and minors in Physics. Prerequisites: 18 sem. hrs. in physics, and calculus. *Four hours per week, including laboratory*.

PH. 502. MECHANICS II (Kinematics)—Rectilinear motion; curvilinear motion; plane motion of rigid bodies; work and energy; impulse and momentum. Elective for majors and minors in physics. Prerequisites: 18 sem. hrs. in physics. Mechanics I, and calculus. *Four hours per week, including laboratory*.

PH. 503. NUCLEAR PHYSICS — Properties of atomic nuclei and related phenomena; nuclear models, binding energy, nuclear forces. Elective for Physics majors and minors. Prerequisites: 18 sem. hrs. credit in physics, and calculus. *Three hours per week*.

PH. 504. SPECTROSCOPY — Spectral series; Bohr's atomic theory; vector model of the atom; electron configuration of the elements; spectral terms; selection rules; line spectra; band spectra; prism spectroscopes and spectrographs; diffraction-grating spectrographs; identification of spectrum lines; qualitative spectrographic analysis. Elective for majors and minors in Physics. Prerequisites: 18 sem. hrs. in physics, including course on Light, and calculus. Four hours per week, including laboratory.

PH. 505. MINOR RESEARCH PROBLEM — The student will select a problem either in some aspect of physics or the teaching of physics, present a plan for research, obtain instructor's approval of the problem and plan for research, carry out the research, and present a report on his work. Elective for graduate students in the Secondary School Science Program. Prerequisites: A minimum of 18 sem. hrs. credit in physics and approval of the instructor.

PH. 506. PHYSICS SEMINAR—Selected reading, reports, discussion and evaluation of research in physics and the teaching of physics. Elective for graduate students in the Secondary School Science Program. Pre-requisites: A minimum of 18 sem. hrs. in physics and approval of the instructor.

OTHER SCIENCE

SCI. 500. SCIENCE IN THE ELEMENTARY CURRICULUM — Background, purposes and present scope of science in the elementary school; professional review of subject matter with demonstrations, experiments, audio-visual aids, reading. Not for students who have credit for Sci. 310 or the equivalent.

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

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

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: 5 sem. hrs. in Biology or 6 sem. hrs. in Chemistry.

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SCI. 504. REGIONAL STUDY IN SCIENCE— Field work at Allegany State Park; out-of-doors science for the teacher; identification of wild flowers, trees, birds, insects, and other living things; relationships between living things and their environment; geology of the Park, and of western New York. Open to graduate and undergraduate students. Prerequisites: 5 sem. hrs. in Biology.

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

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

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

SCI. 518. HUMAN BIOLOGY—Origin and development of the human species; human anatomy and physiology; reproduction, embroyology, and life cycle; genetics of man; conservation of human resources; new problems in humanbiology. Required of all candidates for extension of certification to include the teaching of science in the early secondary school. Prerequisites: 5 sem. hrs. in Biology; 6 sem. hrs. in Chemistry recommended.

SCI. 525. THESIS—An individual investigation of an original problem to be submitted in typewritten form according to directions given by the Graduate Division. SCI. 526. SPECIAL PROJECT — Research or investigation of a particular problem, to be planned and carried out by student, with consultation and guidance from instructor.

SCI. 527. CURRENT RESEARCH IN SCIENCE —Study of current research in the various sciences; implications of such research on present and future living; implications of research in science for the early secondary school science curriculum. Prerequisites: 6 sem. hrs. in each of two sciences.

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

SCI. 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.

GRADUATE COURSES IN SOCIAL STUDIES

S.S. 500. STUDIES IN TWENTIETH CENTURY AMERICAN HISTORY—Aspects of American life since 1900; significant trends, policies, and ideas in politics, diplomacy, and national culture; topics for study dictated by student needs and interests. Registration with consent of instructor.

S.S. 501. STUDIES IN TWENTIETH CENTURY EUROPEAN HISTORY—Study of a central theme selected by instructor and class, such as: modern political ideologies; international relations; individual country, region, or period. Registration with consent of instructor.

S.S. 502. THE UNITED STATES AND ITS IN-TER-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. Registration with consent of instructor.

S.S. 503. HISTORY OF POLITICAL THEORY —Chief modern contributors to the political ideologies of democracy, liberalism, conservatism, nationalism, socialism, communism, Fascism, and Nazism. Registration with consent of instructor.

S.S. 504. HISTORY OF THE AMERICAN FRONTIER—Progress of settlement from the Atlantic to the Pacific; transmission of culture; developments in transportation: the process of state-making; transition from agrarian to urban communities; social, economic, and political effects of the westward march upon the United States as a whole. Registration with consent of instructor.

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

S.S. 506. MINORITY GROUPS IN AMERICAN CULTURE—Major racial, nationality, and religious minority groups in America treated from the cultural,

historical, and familial points of view; current anthropological and psychological data on uniformities, differences, prejudices, and discrimination. Registration with consent of instructor.

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

S.S. 509. LOCAL HISTORY: RESEARCH METHODS AND TECHNIQUES—Research involved in the study and presentation of local history, with special reference to the Niagara Frontier and New York State; community facilities; discovery, examination, and use of original materials. Registration with consent of instructor.

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

S.S. 512. THE UNITED STATES IN CONTEM-PORARY WORLD AFFAIRS—United States foreign policy; United States and the United Nations; Atlantic and Pacific commitments; internal problems such as defense production, inflation, and taxation.

S.S. 513. SOCIAL AND INTELLECTUAL HIS-TORY OF THE UNITED STATES—Social roots of systems of thought; effect of ideas upon American society; continuing patterns of thought, such as Puritanism: liberalism, democracy; contributions of intellectual leaders.

S.S. 514. WORKSHOP IN HUMAN RELA-TIONS—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.

S.S. 515. STUDIES IN AMERICAN COLO-NIAL 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. S.S. 516. INTERNATIONAL RELATIONS AND THE WORLD TODAY—Topics such as international organization, international law, regionalism, economic development, role of ideologies, or relationship of domestic and international politics.

S.S. 517. THE HISTORY AND INSTITUTIONS OF THE SOVIET UNION—Chief factors in tsarist Russia; Revolution of 1917; coming of the Bolsheviks to power; political and social idealogy; government and the Communist party; economic system; peasant problem; Soviet foreign policy and its relation to international organization; impact of the Soviet Union upon the western world.

S.S. 518. CONTEMPORARY EUROPEAN PO-LITICAL MOVEMENTS—Party ideologies, organization, parliamentary tactics, propaganda, campaigns, electoral geography, and social composition; party systems, individual parties, and pressure groups.

S.S. 519. CASE STUDIES IN LOCAL GOV-ERNMENT AND POLITICS—Structure and practice; revenues and expenditures; public housing, health, and welfare; planning and zoning; educational-political relationships; topics selected in accordance with student needs and interests.

S.S. 520. WORKSHOP IN METHODS AND MATERIALS IN SOCIAL STUDIES—Consideration of unit, topic, discussion, project, problem, and laboratory methods; teaching aids such as film strips; pictures, models, and library reference materials; types of evaluation.

S.S. 521. CONTEMPORARY SOCIAL PROB-LEMS—Problem areas of American society; sources of information; techniques for discovering and analyzing social problems; analysis of several major problems, selected in accordance with student needs and interests.

S.S. 522. WORKSHOP IN ECONOMICS—Consideration of economic concepts in the curriculum; American economic system; role of government in free enterprise economy; money, banking, and credit; selected group projects in areas of investments, labormanagement relations, agriculture, taxation and government finance, economic aspects of foreign policy, economy of the Niagara Frontier, and government regulatory agencies. Prerequisites: graduate standing and/or in-service teaching.

S.S. 523. THE FAMILY IN MEDITERRA-NEAN CULTURE—The family and society; the individual and his family; structure of the family; marriage patterns; dynamics of human relations in the family; rearing of the children; family crises and breakdowns; relations between the sexes. Emphasis will be given to methodology, especially in the training and practice of field work interview, participant observation, and case study.

S.S. 524. STUDIES IN NON-WESTERN CUL-TURES: THE MIDDLE EAST—An area study of characteristic cultural features of the countries; examples of interaction with the Western world; cultural and social changes underway; examples of problems typical of the underdeveloped nations in the world today.

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

S.S. 526. SPECIAL PROJECT—Research or investigation of a particular problem, to be planned and carried out by student, with consultation and guidance from instructor.

S.S. 527. THE CONSTITUTION: POLITICS AND COURTS—Foundations of American constitutionalism and the politics of the Constitution; establishment of judicial review and its functions through history; the evolution of Federal power over interstate commerce and taxation; federalism, separation of powers, and states rights through history; courts and the protection of individual rights — civil, political, and property.

S.S. 530. SOCIOLOGY OF CRIME—Nature and extent of crime; causes, conditions and theories regarding crime; administration of justice; treatment of criminals; crime prevention.

S.S. 534. ADVANCED WORKSHOP IN HU-MAN RELATIONS—Materials and methods in individual and group work in human relations; individual situations in a school or community. Prerequisite: S.S. 514.

S.S. 540. REFORM AND REFORMERS IN AMERICAN CIVILIZATION — Ideological, social and economic causes of reform movements; characterological analysis of reform leaders and followers: historical study of specific reform movements; assessment of the role played by reform movements in American development.

S.S. 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.

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APPLICATION FOR ADMISSION TO GRADUATE DIVISION

NAME		
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STATE UNIVERSITY COLLEGE BUFFALO 22, N.Y.

N.B. THIS FORM MUST BE FILED AT LEAST ONE MONTH IN ADVANCE OF REGISTRATION BY ALL STUDENTS WHO WISH TO REGISTER FOR COURSES AT THE GRADUATE LEVEL.

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UNDERGRADUATE PREPARATION

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GRADUATE PREPARATION

OF APPROVED GRADUATE CREDIT MAY BE TRANSFERRED.)

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TEACHING CERTIFICATION

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TEACHING EXPERIENCE

PLACE	DURATION	NAME, POSITION AND ADDRESS OF PERSON ACQUAINTED WITH YOUR WORK

OTHER WORK EXPERIENCE

OTHER TYPES OF ASSIGNMENT	PLACE	DURATION	NAME, ADDRESS AND POSITION OF PERSON ACQUAINTED WITH YOUR WOR

WRITE BRIEFLY ABOUT YOUR PROFESSIONAL INTERESTS AND PURPOSES

DESCRIBE YOUR PLANS FOR GRADUATE STUDY

(time to be used for it, field of special interest, other fields of study planned, etc.)

DO YOU INTEND TO APPLY FOR CANDIDACY FOR THE MASTER'S DEGREE WHEN THE REQUIREMENTS HAVE BEEN COMPLETED? YES _____;

NO_____; UNCERTAIN ______. ARE YOU WORKING FOR A DEGREE AT ANOTHER COLLEGE? Yes_____ No_____

CONFIDENTIAL REPORT OF SUPERINTENDENT OR PRINCIPAL*

ASK YOUR PRINCIPAL OR SUPERINTENDENT TO SUBMIT A CONFIDENTIAL REPORT ON A FORM WHICH CAN BE OBTAINED FROM THE GRAD-UATE DIVISION OFFICE.

REFERENCES*

YOU SHOULD PERSONALLY ARRANGE FOR THREE QUALIFIED PERSONS OTHER THAN YOUR SUPERINTENDENT OR PRINCIPAL TO WRITE AT ONCE TO THE DIRECTOR, GRADUATE DIVISION, STATE UNIVERSITY OF NEW YORK, STATE UNIVERSITY COLLEGE, BUFFALO 22, NEW YORK, REGARDING YOUR FITNESS TO ENTER GRADUATE STUDY.

TRANSCRIPTS*

ARRANGE THAT OFFICIAL TRANSCRIPTS OF ALL COLLEGE AND UNIVERSITY WORK, EXCEPT FOR WORK DONE AT THIS INSTITUTION, BE SENT BY THE RESPECTIVE INSTITUTION TO DIRECTOR, GRADUATE DIVISION, STATE UNIVERSITY OF NEW YORK, STATE UNIVERSITY COL-LEGE, BUFFALO 22, NEW YORK.

NOTICE

AS SOON AS ALL OF THE ABOVE COMMUNICATIONS HAVE BEEN RECEIVED YOU WILL BE NOTIFIED IMMEDIATELY OF YOUR ADMISSION STATUS. AT THAT TIME YOU WILL BE INVITED TO SELECT AN ADVISER TO GUIDE YOUR GRADUATE PROGRAM. YOU ARE URGED TO COM-PLETE CREDENTIALS AT THE EARLIEST POSSIBLE MOMENT SO THAT YOU MAY HAVE THE BENEFIT OF AN ADVISER EARLY IN YOUR GRADUATE STUDIES. IF SUCH NOTIFICATION DOES NOT REACH YOU WHEN YOU EXPECT IT, YOU SHOULD CHECK TO BE SURE THAT ALL THE RE-QUESTED INFORMATION HAS BEEN MAILED TO THE COLLEGE.

N.B. MAIL THIS FORM TO: DIRECTOR, GRADUATE DIVISION STATE UNIVERSITY COLLEGE BUFFALO 22, NEW YORK

* REQUIRED OF STUDENTS SEEKING FULL GRADUATE STANDING AND ACCEPTANCE AS A CANDIDATE FOR THE MASTER OF SCIENCE DEGREE. NOT REQUIRED OF SPECIAL STUDENTS WORKING FOR CERTIFICATION AND NOT EXPECTING TO APPLY FOR CANDIDACY OF MASTER OF SCIENCE DEGREE.

Name(<i>Mr.</i>) (<i>Mr.</i>)	Mrs.) (Miss)		
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Please return to:

DIRECTOR OF SUMMER SESSIONS State University College Buffalo 22, New York

STATE UNIVERSITY OF NEW YORK

(Locally-sponsored two-year colleges under the program of State University)

Central Administrative Office: Albany 1, N.Y.

Downstate Medical Center at Brooklyn (New York City) Upstate Medical Center at Syracuse College at Albany College at Brockport College at Buffalo College at Cortland College at Fredonia College at Geneseo College at New Paltz College at Oneonta College at Oswego College at Plattsburgh College at Potsdam Harpur College College of Forestry at Syracuse University Maritime College at Fort Schuyler (New York City) Long Island Center at Stony Brook Graduate School of Public Affairs at Albany College of Ceramics at Alfred University College of Agriculture at Cornell University College of Home Economics at Cornell University School of Industrial and Labor Relations at Cornell University Veterinary College at Cornell University TWO-YEAR COLLEGES Agricultural and Technical Institute at Alfred Agricultural and Technical Institute at Canton Agricultural and Technical Institute at Cobleskill Agricultural and Ttechnical Institute at Delhi Agricultural and Technical Institute at Farmingdale Agricultural and Technical Institute at Morrisville **COMMUNITY COLLEGES** Adirondack Community College at Hudson Falls Auburn Community College at Auburn Bronx Community College at New York City Broome Technical Community College at Binghamton Corning Community College at Corning Dutchess Community College at Poughkeepsie Erie County Technical Institute at Buffalo Fashion Institute of Technology at New York City Hudson Valley Community College at Troy Jamestown Community College at Jamestown Jefferson County Community College Mohawk Valley Technical Institute at Utica Monroe Community College at Rochester Nassau Community College at Mineola New York City Community College of Applied Arts and Sciences at Brooklyn (New York City) Onondaga County Community College at Syracuse Orange County Community College at Middletown Queensborough Community College at New York City Rockland Community College at Suffern Staten Island Community College at New York City Suffolk County Community College at Selden Ulster County Community College Westchester Community College at Valhalla