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Buffalo State College

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BULLETIN
GRADUATE EXTENSION
AND 1961-62
SUMMER SESSION
.....1961

STATE UNIVERSITY OF NEW YORK

COLLEGE OF EDUCATION AT BUFFALO

THE COLLEGE CALENDAR

1961 SUMMER SESSION

Wednesday, July 5	Registration Graduate Students 8:00-12:00 — Rockwell Hall Undergraduate Students 1:00-3:30 — Rockwell Hall
Thursday, July 6	Instruction begins
Saturday, July 8	Classes meet
Friday, August 11	Six week courses end
Monday, August 14	Post Session begins
Friday, August 25	All sessions end

FALL SEMESTER 1961-62

Saturday, September 16	Registration 8:30-12:30 — Rockwell Hall NO REGISTRATIONS AFTER THIS DAY
Tuesday, September 19	Instruction begins
Saturday, November 25	Thanksgiving recess
Saturday, December 23	Christmas recess begins
Saturday, January 6	Classes resume
Saturday, January 20	Semester ends

SPRING SEMESTER 1961-62

Saturday, February 3	Registration 8:30-12:30 — Rockwell Hall NO REGISTRATIONS AFTER THIS DAY
Tuesday, February 6	Instruction begins
Saturday, April 21	Easter recess begins
Saturday, April 28	Classes resume
Saturday, June 2	Semester ends

One of four publications issued four times yearly:
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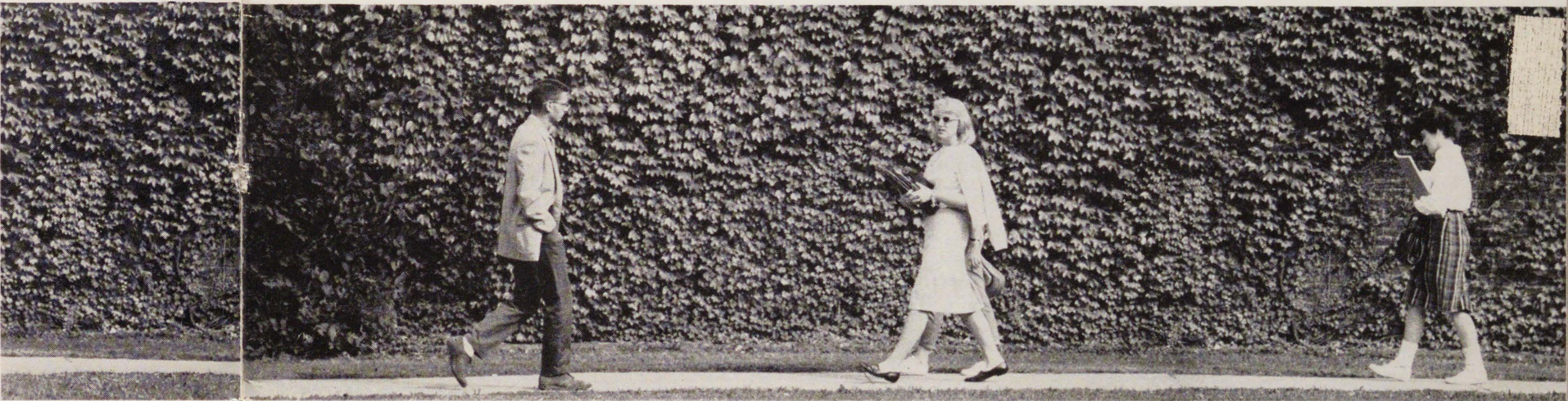
STATE UNIVERSITY OF NEW YORK

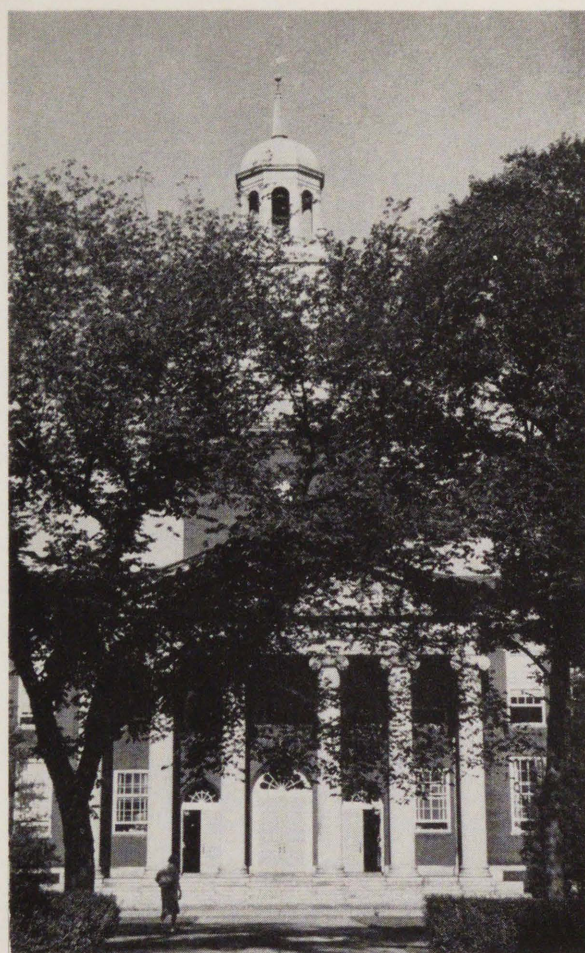
COLLEGE OF
EDUCATION
AT BUFFALO

1961 SUMMER SESSION
AND
GRADUATE EXTENSION
CATALOG, 1961-62

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STATE UNIVERSITY OF NEW YORK

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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."

THE COLLEGE

The Local Council

Term Expires

Mrs. James H. Richter, Chairman	1963
Joseph L. Fink	1961
Joseph F. Higgins	1966
Patrick Hodgson	1967
David J. Laub	1969
Mrs. James C. Lytle	1965
Philip W. Patti	1964
Mrs. Henry Z. Urban	1968
Mrs. George V. Walker	1962

Administrative Officers

Paul G. Bulger, B.S., M.S., Ed.D.	President of the College
Robert W. MacVittie, B.E., M.A., Ed.D.	Dean of the College
Van E. Quaal, A.B., A.M., Ed.D.	Associate Dean of the College
Wilton Pruitt, B.A., M.A., Ed.D.	Dean of Students (Acting)
Charles P. LaMorte, A.B., M.A., Ed.D.	Dean of Students (Effective July 1, 1961)
Stanley J. Gross, B.B.A., M.A., Ed.D.	Associate Dean of Students
Morton R. Lane, B.S.	Senior Financial Secretary
Charles E. Ball, B.S., M.A., Ed.D.	Planning and Development Officer
Margaret McMann, B.S.	Public Information Director
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Lorraine A. Lange, B.A., M.A., Ph.D.	Director of Elementary and Secondary Education
Horace Mann, A.B., A.M., Ph.D.	Director of Exceptional Children Education
William D. Baker, B.A., M.A., Ph.D.	Director of General Studies
David A. Rogers, B.A., M.A., Ph.D.	Director of Graduate and Extension Education
Steven Gittler, B.A., M.A.	Associate Director of Graduate Studies and Director of Summer Session
Margaret A. Grant, B.S., M.S., Ed.D.	Director of Home Economics Education
Kenneth W. Brown, B.S., M.S., Ph.D.	Director of Industrial Arts Education

OTHER COLLEGE OFFICERS

Taisto Niemi, A.A., B.S., A.M., Ph.D. / *College Librarian*
Ruth Sugarman, B.S., M.A., Ed.D. / *Principal, Campus School*
Helen Thielking, B.S., M.S. / *Campus School Librarian*
(To be appointed) / *Director of Admissions*
Max H. McComb, B.S., M.S. / *Co-ordinator of Field Services (Acting)*
Harold Steffen, B.S., Ed.M., Ph.D. / *Co-ordinator of Audio-Visual Services*
Marian Carroll, B.A., M.S., Ed.D. / *Director, Child Study Center*
George Sherrie, B.S., Ed.M., Ed.D. / *Co-ordinator of Evaluation Services Center*
June Truesdale, B.S. / *Executive Secretary of Placement*
E. Richard Covert, B.S., M.S. / *Assistant Dean of Students, Director of College Union*
Angela Covert, B.S., M.S. / *Assistant Dean of Students, Director of Student Residence*
Madeline Turner, R.N., B.S., M.A. / *Co-ordinator of Health Services*
Dorothy Eells, A.B., M.A. / *Senior Registrar*
Charlotte Fetterman, B.S. / *College Book Store Manager*
Joseph Cannamela, B.S. / *Food Services Manager*

VISITING FACULTY

Summer Session 1961

Charles Gambert, M.S., M. Ed. / *Visiting Associate Professor of Education*
School Psychologist and Supervisor of Special Education, Niagara Falls, New York
Rolland Gladieux, Ed.D. / *Visiting Professor of Science*
Director of Mathematics and Science, Kenmore Public Schools, Kenmore, New York
Robert Haberer, M.A. / *Visiting Associate Professor of Art*
Supervisor of Art, Rochester Public Schools, Rochester, New York
Rita N. Moretti, M.S. / *Visiting Associate Professor of Education*
Principal, 95th Street School, Niagara Falls, New York
Alfred J. Sadroga, M. Ed. / *Visiting Lecturer in Industrial Arts*
Chairman of the Industrial Arts Department, West Seneca High School
Mary Sciandra, M.S. / *Visiting Assistant Professor of Elementary Education, Campus School*
Teacher, School 36, Buffalo, New York
L. B. Sharp, Ed.D. / *Visiting Lecturer in Education*
Professor of Outdoor Education, Southern Illinois University and
Executive Director, Outdoor Education Association
Harry Smallenburg, Ed.D. / *Visiting Professor of Education*
Director, Division of Research and Guidance, County of Los Angeles, California
Helen Wernejowski, M.S. / *Visiting Assistant Professor of Elementary Education, Campus School*
Critic Teacher, School 52, Buffalo, New York

LOCATION OF THE COLLEGE

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

Buffalo is easily accessible by bus, train, air, or automobile; the College can be reached easily by bus or taxicab within the city. Across the street from the College are the Albright Art Gallery and the Buffalo Historical Museum,

imposing works of architecture. Across Elmwood Avenue from the College is Delaware Park, a large municipal recreation center with a lake, golf course, bridle path, tennis courts and baseball diamonds. One of the finest concert halls in the world, the Kleinhans Music Hall, and a nationally famous symphony orchestra, the Buffalo Philharmonic, serve those who enjoy fine music. Several nearby summer theatres, operated by professional and semi-professional groups, produce plays throughout the summer.

ADMISSION TO SUMMER SESSION

The Summer Session is open to anyone qualified for teaching, and students attending the College of Education 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 45-46.
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.

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

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 47.

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.

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, by all Colleges of Education.

The schedules as of September 1, 1961 will be as follows:

GRADUATE-EXTENSION

Tuition.....\$20.00 a credit hour

No other fees are charged during the spring and fall semesters.

SUMMER SESSION

Tuition — 1961 Summer Session.....\$15.00 a credit hour

— 1962 Summer Session.....\$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 off-campus, 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.

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 8, 1961.

STUDENT PERSONNEL PROGRAM

Activities Program

By providing social, cultural and recreational experiences, the Summer Session Activities Program complements the offerings of the academic day. Special convocations feature outstanding speakers and dramatic or musical productions. Forums, informal seminars, exhibits, demonstrations and new educational films are integrated with course emphasis. Tours are organized to the Stratford, Ontario Shakespeare Festival. Various historical, scenic and industrial points of interest of the Niagara Frontier may also be visited. Informal social activities include the annual summer Cotillion, as well as relaxing music listening hours, teas, and films of current interest. Weekly morning coffee hours in the Quadrangle are especially popular with students who find this break between classes an opportunity to relax with their friends. Various recreational opportunities will be made available according to student interest.

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.

The Summer Session Activities Program is developed by the Summer Session Activities Board, a student-faculty 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.

Residence Halls

Rooms for men and women students are provided in the Residence Halls of the College. Most rooms have accommodations for two persons at \$7.00 a week; a few single rooms are available at \$10.00 a week. Rooms are equipped with beds, desks, chairs, closets, and dressers. Students are expected to provide sheets, pillows and cases, blankets, and desk lamps. Linens and pillow may be rented.

Reservations for rooms for men and women students are made through the Office of the Dean of Students. All student residences must be approved by the Dean of Students. Application form may be found on page 50.

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.

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 and loans should be addressed to the Associate Dean of Students in charge of Financial Aids. Correspondence relating to part-time employment should be addressed to the Assistant Dean of Students in charge of Part-time Employment.

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 College Union Building. The Union 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.

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. 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 nearly 90,000 volumes and more than 600 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 Programs

For the fifth 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 College of Education at Buffalo.

During the 1961 Summer Session the College is offering a Study Program in Comparative Education in Western Europe under the leadership of Dr. Mildred Wells. Some of the countries included in this program are: France, Switzerland (three-week homestay), Denmark, Sweden and England. Miss Wilma Laux will lead a group in a study program of the Geographic Influences in Northwestern Europe. Members of this program will study the cultural and economic adaptations of a variety of nations. Among these are Iceland, Norway, Sweden, Denmark and the Netherlands (three-week homestay). Further information about these programs may be obtained by writing to the Director of Summer Session, College of Education, Buffalo 22, New York.

Workshops at the College Camp

The College Camp, one of the major recreational features of the College consists of 435 acres of rural landscape, partly wooded, partly open, located in scenic Cattaraugus County. An expansive lodge, equipped with large fireplaces, provides pleasant accommodations for fifty students.

During the 1961 Summer Session Professor Eugene L-G Dakin will offer Art Camp '61. This workshop provides opportunities for all students interested in painting and drawing to work in a setting rich in art possibilities. Individual instruction—with stress on individual growth and creative development. The dates are July 3-July 20.

During the 1961 Post Summer Session—August 14-August 24, a Workshop in Outdoor Education will be conducted under the leadership of Dr. Gene Welborn. Teachers, administrators, and others interested in Outdoor Education and School Camping are invited to attend. The staff will include Dr. L. B. Sharp, Executive Director of the Outdoor Education Association and Professor of Outdoor Education at Southern Illinois University, and faculty members of the College.

Further information may be obtained from the Director of Summer Session, College of Education at Buffalo.

Field Experience in Home Economics Education

July 5-August 11

In cooperation with the Bureau of Home Economics Education of the State Education Department, the Home Economics Education Division of the College is offering a workshop for homemaking teachers in the public schools of New York State during the 1961 Summer Session.

The six week workshop will be organized as follows: *First week*—the entire group will meet daily on campus to develop plans to be carried out by the teachers in their respective communities. *Second and third weeks*—the college staff members will visit teachers in their respective communities to supervise their work and to assist them in carrying forward their goals. *Fourth and fifth weeks*—the first three days of each week will be spent on campus to assist teachers in analyzing and evaluating their work.

Two graduate credit hours will be granted by the college provided the teacher meets the entrance requirements. Each teacher may receive graduate credit only once for this workshop. Further information may be obtained from the Bureau of Home Economics, State Education Department in Albany, or Dr. Margaret A. Grant at the College.



Workshop in the Teaching of Reading

July 5-July 21

This workshop is open to teachers, administrators and supervisors who are concerned with the teaching of reading. Such problems as the importance of reading in present day society, research in child development and learning and its implications for the teaching of reading, trends in the teaching of reading, teaching materials, and evaluation of growth in reading will be considered. Specific areas to be explored will be planned by the participants and the teacher. Dr. Anna Martorana, Professor of Education at the College will be the instructor. Three semester hours of graduate credit.

Workshop in Guidance

July 24-August 11

This workshop is designed for teachers, administrative and supervisory personnel. The workshop can be regarded as an introductory course for those who have not had previous graduate work in the field of guidance. Dr. Harry Smallenburg, Director of Research and Guidance, Los Angeles County School, Los Angeles California will be the instructor for the course. Dr. Smallenburg has had many years of experience in the field of guidance and is an author of books in Elementary School guidance and Secondary school guidance. He has also been an elementary teacher as well as an instructor in High Schools. Dr. Smallenburg will be on our campus for three weeks as Visiting Professor of Education. Further information may be obtained from Director of Summer Session, College of Education, Buffalo 22, N. Y.

Workshop in Economics

August 14-25

The major topics of this workshop include: economics in the curriculum, American economic system, money, banking, and credit. Small group study of additional areas in economics as chosen by participants will be a major feature of the workshop. Thirty scholarships of \$50.00 each are available to in-service elementary school and high school teachers and administrators through a grant from the *New York State Council on Economic Education*. The staff includes Dr. Allen G. Sexton, Associate Professor of History, Mr. John G. Boyd, Assistant Professor of Economics, and consultants from the Buffalo business and financial community. Two semester hours of graduate credit. Limited enrollment. Applications for scholarships must be made by May 31, 1961. Write to Dr. Allen G. Sexton at the College of Education at Buffalo for further information and application forms.

ACADEMIC INFORMATION

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 the 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.

GRADES The standard system used to evaluate student performance, described in the General Catalog, will be followed in the Summer Session.

STANDARDS AND REGULATIONS The academic standards and regulations observed during the regular college year prevail in the Summer Session. Please refer to 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.

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

A summer program restricted to accelerated undergraduates will last from July 5 through August 25. 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. Registration for these courses is completed before the opening of the Summer Session; classes meet on July 6.

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

INTER-SESSION

June 24-July 5

	Credit	Instructor
I.A. 508 Workshop in Welding	2	Fontana
I.A. 515 Transportation Laboratory	2	Sadroga
Ed. 564 Advanced Driver and Safety Education	2	Meyer

1961 SUMMER SESSION

July 5-August 11

Undergraduate Courses

ART EDUCATION

	Credit	Instructor	Time
400 Workshop in Crafts	3	Bode	9:30-12:20*
406 Creative Art Workshop	3	Squeri	12:30- 3:00*
361 Graphic Arts (July 24-August 11)	3	O'Connell	9:30- 3:20
420 Art Camp to be held at Franklinville, N. Y. (July 3-July 20)	3	Dakin	

EDUCATION

152 Human Growth & Development	3	Fink	8:00- 9:20
308c Seminar in Early Childhood Education	3	Jamison	9:30-10:50
402 Seminar in Elem. School Teaching	3	Krenning	11:00-12:20
461 Safety Education	3	Meyer	8:00- 9:20
465 Audio-Visual Education	3	Steffen	12:30- 1:50
487 Teaching of Language Arts	3	Ware	9:30-10:50

ENGLISH

250 Types of British & Amer. Lit. I	3	Bradford	11:00-12:20
250 Types of British & Amer. Lit. I	3	Schuck	9:30-10:50
348 Creative Dramatics	3	Piquette	9:30-10:50
402 Contemporary Literature	3	Drew	12:30- 1:50
451 Types of British & Amer. Lit. II	3	Sherwin	8:00- 9:20
451 Types of British & Amer. Lit. II	3	Fried	11:00-12:20

GEOGRAPHY

301 General Geography I	3	Brown	11:00-12:20
402 General Geography II	3	Brown	8:00- 9:20

HEALTH, PHYSICAL EDUCATION & RECREATION

P.Ed. 204 Organization & Leadership in Recr.	3	Welborn	11:00-12:20
P.Ed. 301 Physical Education	2	Prince	8:00- 9:20*
P.Ed. 301 Physical Education	2	Prince	9:30-10:50*
P.Ed. 303 Coaching	3	Welborn	9:30-10:50

INDUSTRIAL ARTS

I.A. 105 Mechanical Drawing	2	Cappiello	11:00-12:20
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* Four days a week.

MUSIC

304 Music for Children I	3	English	9:30-10:50
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SCIENCE

Bi. 203 Genetics	3	Laug	9:30-10:50
Bi. 301 Botany	3	Nadolinski	8:00- 9:20
Sci. 310 Sci. in the Elementary Grades	3	Harman	8:00- 9:20
Sci. 310 Sci. in the Elementary Grades	3	Harman	11:00-12:20
Sci. 410 Field Studies I	3	Laug	12:30- 1:50

SOCIAL STUDIES

230 Colonial History of the American People	3	Sexton	11:00-12:20
347 Prin. & Problems of American Government	3	Stone	8:00- 9:20
348 The Consumer and American Economy	3	Boyd	11:00-12:20
402 Sociology	3	Hollister	9:30-10:50

1961 SUMMER SESSION

July 5-August 11

Graduate Courses

ART EDUCATION

	Credit	Instructor	Time
513 Graduate Studio in Graphic Arts (July 24-August 11)	3	O'Connell	9:30- 3:20
520 Art Camp—to be held at Franklinville, N. Y. (July 3-20)	3	Dakin	
508 Design & Spatial Relations (July 24-Aug. 11)	3	Papanek	9:30- 3:20
505 Seminar in Art Education	3	Lofgren	8:00- 9:20
509 Graduate Studio in Crafts	3	Winebrenner	9:30-12:20
510 Graduate Studio in Photography (I.A. Students only)	3	Truesdale	11:00-12:20
511 Art in the Elementary Curriculum	3	Case	8:00- 9:20

EDUCATION

546 The Teaching of Reading (July 5-July 21)	3	Martorana	9:30-12:20
523 Principles of Guidance (July 24-Aug. 11)	3	Smallenburg	9:30-12:20
501 Seminar in Elementary Education	3	Crayton	9:30-10:50
501 Seminar in Elementary Education	3	Crayton	12:20- 1:50
503 Organization of the Elementary School	3	Milanovich	8:00- 9:20
512 Seminar in Child Development (ITTP)	6	Carroll	8:00-12:00
512 Seminar in Child Development (ITTP)	6	Dodd	8:00-12:00
512 Seminar in Child Development (ITTP)	6	Guenther	8:00-12:00
515 Seminar in Early Childhood Education	3	Jamison	8:00- 9:20
516 Methods & Materials in the Elem. School	3	Hedden	12:30- 1:50
517 The Teaching of Language Arts	3	Ware	8:00- 9:20
520 Workshop in Elementary School Administration	3	Milanovich	11:00-12:20
529 Adolescent Psychology	3	Fink	9:30-10:50
530 Principles of Supervision	3	Hedden	9:30-10:50
532 Early Secondary School Education	3	King	11:00-12:20

1961 SUMMER SESSION — GRADUATE COURSES (cont'd)

EDUCATION (cont'd)

532	Early Secondary School Education	3	King	12:30- 1:50
533	Workshop in Audio-Visual Education	3	Steffen	12:30- 1:50
535	Methods of Teaching of Science	3	Gladieux	12:30- 1:50
537	Evaluation in the Secondary School	3	Gambert	8:00- 9:20
560	Workshop in Elementary Education (ITTP)	8	Gover	8:00- 4:00
566	Safety Education	3	Meyer	8:00- 9:20
575	Research Techniques	3	Martorana	8:00- 9:20
575	Research Techniques	3	Hertzberg	9:30-10:50
575	Research Techniques	3	Barnett	11:00-12:20
575	Research Techniques	3	Hertzberg	12:30- 1:50
575	Research Techniques	3	Penn	9:30-10:50

ENGLISH

502	Studies in American Literature	3	Fried	12:30- 1:50
506	Studies in the Modern Drama	3	Schuck	8:00- 9:20
510	Emerson and Thoreau	3	Sherwin	9:30-10:50
514	Children's Literature	3	Piquette	12:20- 1:50
521	Studies in Modern British Poetry	3	Drew	11:00-12:20
523	Shakespearean Comedy	3	Bradford	9:30-10:50

EXCEPTIONAL EDUCATION

520	Speech Problems of Children	3	Dickson	11:00-12:20
527	Guidance of Exceptional Children	3	Bloustein	9:30-10:50
559	Seminar in Stuttering	3	Dickson	9:30-10:50
561	Curriculum Practices for Mentally Retarded	3	Millholland	8:00- 9:20
591	Nature & Needs of Exceptional Children	3	Lawrence	9:30-10:50

GEOGRAPHY

501	Studies in Industrial Geography	3	Redden	9:30-10:50
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HOME ECONOMICS

506	Seminar in Home Management	3	Stoner	8:00- 9:20
507	Evaluation in Home Economics Education	3	Clarke	11:00-12:20
520	Family Financial Planning	3	Stoner	9:30-10:50
523	Field Experiences in Home Economics Education	2	Douglas	8:00- 4:00

(Also see Sci. 509—Recent Advances in Science as Applied to Home Economics)

MATHEMATICS

500	Mathematics in the Elementary Curriculum	3	Ebert	8:00- 9:20
507	Foundations of Mathematics	3	Montgomery	9:30-10:50
508	Mathematical Statistics	3	Montgomery	11:00-12:20

MUSIC

500	Music in Education	3	Boyd	8:00- 9:20
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INDUSTRIAL ARTS

501	Seminar in Industrial Arts	3	Neuthardt	1:00- 2:20
526	Advanced Drafting—Problems and Techniques	3	Cappiello	1:00- 3:50
528	Curriculum Development in Industrial Arts	3	Smalley	11:00-12:20

(Also see Art 510—Graduate Studio in Photography)

SCIENCE

500	Science in the Elementary Curriculum	3	Harman	8:00- 9:20
500	Science in the Elementary Curriculum	3	Harman	11:00-12:20
501	Field Studies I	3	Laug	12:30- 1:50
503	Ecology	3	Nadolinski	9:30-10:50
509	Recent Advances in Sci. as Applied to Home Ec.	3	Dupre	8:00- 9:20
518	Human Biology	3	Dupre	11:00-12:20
	(Also see Ed. 535—Methods of Teaching Science)	3	Gladieux	12:30- 1:50

SOCIAL STUDIES

500	Studies in 20th Century American History	3	Weaver	9:30-10:50
501	Studies in 20th Century European History	3	E. Brown	8:00- 9:20
503	History of Political Theory	3	Stone	9:30-10:50
505	Contemporary Economic Problems	3	Falk	11:00-12:20
510	Selected Problems of Urban Life	3	Hollister	12:30- 1:50

FOREIGN STUDY PROGRAM IN COOPERATION WITH THE EXPERIMENT IN INTERNATIONAL LIVING

Ed. 543	Comparative Educational Systems (June 28-September 3)	8	Wells
Geog. 506	Geographic Influences in Northwestern Europe (June 28-September 3)	8	Laux

POST-SESSION

August 14-25

	Graduate	Credit	Instructor
Art 515	Community and Home Planning	2	Lindemann
Ed. 533	Workshop in Audio-Visual Education	2	Steffen
Ed. 546	Teaching of Reading	2	Edwards
Ed. 567	Driver Education (Aug. 14-September 1)	3	Meyer
I.D. 501	Outdoor Education (To be held at College Camp, Franklinville, N. Y.)	2	Welborn
Math 502	Workshop in Mathematics	2	Staff
S.S. 522	Workshop in Economics	2	Sexton & Boyd
S.S. 512	U.S. in Contemporary World Affairs	2	Albright

	Undergraduate	Credit	Instructor
Art 377	Home and Community Planning	2	Lindemann
Art 452	Post-Teaching Seminar	2	Haberer
Ed. 463	Driver Education (Aug. 14-September 1)	3	Meyer
Ed. 465	Audio-Visual Education	2	Steffen
I.D. 201	Outdoor Education (To be held at the College Camp, Franklinville)	2	Welborn
Math 400	Workshop in Mathematics	2	Staff

PROPOSED GRADUATE DIVISION CLASSES

1961-62 FIRST SEMESTER

Saturday Morning 9:00 A.M.-11:30 A.M. (3 hours credit)

Art 507	Graduate Studio in Drawing and Painting	Mr. Davidson
Art 508	Graduate Studio in Design and Spatial Organization	Mr. Brett
Art 512	Graduate Studio in Sculpture	Dr. Stark
Ed. 501	Seminar in Elementary Education	Dr. Crayton
Ed. 504	Administration in the Elementary School	Dr. Milanovich
Ed. 536	Secondary School Problems and Methods	Miss Guenther
Ed. 551	Problems in Elementary School Supervision	Dr. Hedden

Saturday Morning 9:00 A.M.-11:30 A.M. (2 hours credit)

Art 507	Graduate Studio in Drawing and Painting	Mr. Davidson
Art 508	Graduate Studio in Design and Spatial Organization	Mr. Brett
Art 512	Graduate Studio in Sculpture	Dr. Stark
Ed. 516	Methods & Materials in the Elementary School	Staff
Ed. 575	Research Methods and Techniques	Dr. Penn
Eng. 526	The English Language	Dr. Klomp
Ex.Ed. 535	Mental Measurement	Staff
H.Ec. 522	Issues in the Modern American Family	Dr. Stewart
I.A. 501	Seminar in Industrial Arts	Dr. Neuhardt
I.A. 513	Workshop in Ceramics	Mr. Steinzor
I.A. 523	Industrial Arts in the Elementary School	Dr. Russell
Math 500	Mathematics in the Elementary Curriculum	Staff
Sci. 501	Field Studies in Science I	Dr. Eckert
E.S. 501	Economic Geology	Dr. Tesmer
S.S. 500	Studies in Twentieth Century American History	Dr. Brunger
S.S. 515	Studies in American Colonial History	Dr. Roesser

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

Ed. 533	Workshop in Audio-Visual Education	Dr. Steffen
Ed. 575	Research Methods and Techniques	Dr. Barnett
Eng. 507	The Modern Novel	Dr. Greenwood
Eng. 523	Shakespearean Comedy	Dr. Fried
Ex.Ed. 571	Occupational Skills	Dr. Waagen

H.Ec. 516	Family Clothing	Dr. Roudebush
I.A. 517	Electronics	Staff
I.A. 524	Evaluation in Industrial Arts	Dr. Peters
Music 500	Music in Education	Staff
Phy. 501	Mechanics I (Statics)	Dr. Harman
Sci. 503	Ecology	Dr. Urban
S.S. 519	Case Studies in Local Government and Politics	Mr. Stone
S.S. 524	Studies in Non-Western Culture—the Middle East	Dr. Hamady

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

Ex. Ed. 538	Understanding the Problem Child in the Classroom	Dr. Hallowitz
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Tuesday Evening 6:30 P.M.-8:10 P.M. (2 hours credit)

Ed. 575	Research Methods and Techniques	Dr. Martorana
Ex.Ed. 556	Advanced Seminar in Voice and Articulation Problems	Staff

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

Art 511	Art in the Elementary Curriculum	Mr. Glover
Ed. 506	Philosophy of Education	Dr. Wells
Ed. 510	Seminar in Elementary School Problems	Miss Concannon
Ed. 575	Research Methods and Techniques	Staff
Ed. 575	Research Methods and Techniques	Staff
Eng. 508	Literature of Greece and Rome	Miss Norenberg
Eng. 510	Emerson, Thoreau and the Transcendentalists	Dr. Sherwin
Eng. 521	Studies in Modern British Poetry	Mr. Schuck
Math 506	History of Mathematics	Staff
S.S. 505	Studies in Contemporary Economic Problems	Mr. Boyd
S.S. 521	Contemporary Social Problems	Mr. Foladare

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

S.S. 514	Workshop in Human Relations	Dr. Burrell
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1961-62 SECOND SEMESTER

Saturday Morning 9:00 A.M.-11:30 A.M. (3 hours credit)

Art 509	Graduate Studio in Crafts	Dr. Winebrenner
Art 516	Graduate Studio in Advertising and Design	Mr. Wolfgruber
Ed. 501	Seminar in Education	Staff
Ed. 507	General School Administration	Dr. Milanovich
Ed. 529	Adolescent Psychology	Dr. Carroll
Ed. 530	Principles of Supervision	Dr. Hedden

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

Art 509	Graduate Studio in Crafts	Dr. Winebrenner
Art 516	Graduate Studio in Advertising and Design	Mr. Wolfgruber
Ed. 517	Teaching the Language Arts	Dr. Ware
Ed. 575	Research Methods and Techniques	Dr. Penn
Eng. 531	Studies in the Prose of the Victorian Period	Dr. Gragg
Ex.Ed. 591	Nature and Needs of Children who Present Exceptional Problems of Learning	Mrs. Lawrence
H.Ec. 504	Problems in Food and Nutrition	Miss Buddenhagen
I.A. 518	Advanced Electronics	Dr. Cook
I.A. 519	New Methods and Techniques in Woodworking	Dr. Callan
I.A. 530	New Techniques in Graphic Arts	Mr. Bowers
Bi. 508	Comparative Vertebrate Anatomy	Dr. Sengbush
Sci. 518	Human Biology	Miss Dupre
S.S. 511	Problems of Contemporary England	Dr. Robison
S.S. 513	Social and Intellectual History of the United States	Dr. Weaver

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

Ed. 546	The Teaching of Reading	Dr. Lange
Ed. 575	Research Methods and Techniques	Dr. Barnett
Eng. 514	Children's Literature	Mrs. Ganey
Eng. 519	Literature and the World Today	Dr. Hackett
Ex.Ed. 561	Occupational Education for Children with Mental Retardation	Staff
Ex.Ed. 581	Teaching the Severely Retarded (Trainable)	Staff
H.Ec. 515	Homemaking Education for Adults	Staff
I.A. 507	School Shop Planning	Staff

I.A. 521	New Methods and Techniques in Metal Working	Dr. Fontana
I.A. 526	Advanced Drafting	Staff
Ch. 502	Chemistry of High Polymers	Dr. Simmons
Sci. 500	Science in the Elementary Curriculum	Mr. Zingaro
S.S. 516	International Relations	Dr. E. Brown
S.S. 521	Contemporary Social Problems	Mr. Falk

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

Ex.Ed. 539	The Gifted Child	Dr. Wagner
Ex.Ed. 557	Audiometry and Hearing Aids	Staff

Tuesday Evening 6:30 P.M.-8:10 P.M. (2 hours credit)

Ed. 575	Research Methods and Techniques	Staff
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Tuesday Evening 6:30 P.M.-9:00 P.M. (3 hours credit)

Art 502	Art Education Today	Dr. Lofgren
Art 515	Graduate Studio in Community and Home Planning	Dr. Lindemann
Ed. 511	Music and Art in the Elementary Schools	Staff
Ed. 527	Problems in Educational Services for Young Children	Miss Jamison
Ed. 538	Comparative Education	Staff
Ed. 575	Research Methods and Techniques	Staff
Ed. 575	Research Methods and Techniques	Staff
Eng. 500	Studies in the Structure & Function of Language	Miss Norenberg
Eng. 509	Studies in the Prose and Poetry of Milton	Dr. Gronewold
Eng. 522	Studies in Modern American Poetry	Dr. Drew
Geog. 504	Studies in the Geography of North American	Staff
Math 503	The Function Concept	Staff
S.S. 500	Studies in Twentieth Century American History	Dr. R. Brown
S.S. 506	Minority Groups in American Culture	Dr. Hollister

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

S.S. 534	Advanced Workshop in Human Relations	Dr. Burrell
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1962-63 FIRST SEMESTER

Saturday Morning 9:00 A.M.-11:30 A.M. (3 hours credit)

- Art 508 Graduate Studio in Design and Spatial Organization
Art 510 Graduate Studio in Photography
Art 515 Graduate Studio in Community and Home Planning
Ed. 501 Seminar in Elementary Education
Ed. 503 Organization of the Elementary School
Ed. 530 Principles of Supervision
Ed. 532 Secondary School Education

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

- Art 508 Graduate Studio in Design and Spatial Organization
Art 510 Graduate Studio in Photography
Art 515 Graduate Studio in Community and Home Planning
Ed. 517 Teaching the Language Arts
Ed. 575 Research Methods and Techniques
Eng. 505 Studies in the Novel
Ex.Ed. 535 Mental Measurement
H.Ec. 520 Family Financial Planning
I.A. 501 Seminar in Industrial Arts
I.A. 509 History of Industrial Arts
I.A. 513 Workshop in Ceramics
I.A. 515 Transportation Laboratory
Bi. 511 Parisitology
Sci. 501 Field Studies in Science I
S.S. 500 Studies in Twentieth Century American History
OR
S.S. 502 The United States in its Inter-American Relations
S.S. 516 International Relations and the World Today
OR
S.S. 518 Contemporary European Political Movements

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

- Ed. 533 Workshop in Audio-Visual Education
Ed. 575 Research Methods and Techniques
Eng. 503 American Regional Literature
Eng. 518 Major American Poets
Ex.Ed. 571 Occupational Skills
H.Ec. 506 Seminar in Home Management
I.A. 506 Supervision of Industrial Arts
I.A. 517 Electronics
I.A. 520 Design in Industrial Arts
I.A. 524 Evaluation of Industrial Arts
Ch. 503 Physical Chemistry
Sci. 503 Ecology
S.S. 510 Selected Problems of Urban Life
S.S. Elective in Economics to be selected

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

- Ex.Ed. 538 Understanding the Problem Child

Tuesday Evening 6:30 P.M.-8:10 P.M. (2 hours credit)

- Ed. 575 Research Methods and Techniques
Ex.Ed. 559 Seminar in Stuttering

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

- Art 505 Seminar in Art Education
Art 513 Graduate Studio in Graphic Arts
Ed. 505 Evaluation in the Elementary School
Ed. 510 Seminar in Elementary School Problems
Ed. 546 The Teaching of Reading
Ed. 575 Research Methods and Techniques
Eng. 507 The Modern Novel
Eng. 526 The English Language
Geog. 505 Geography of the Mediterranean World
Math 507 Foundation of Mathematics
S.S. 520 Workshop in Methods and Materials in Social Studies
S.S. Elective in Non-Western Culture to be selected

1962-63 SECOND SEMESTER

Saturday Morning 9:00 A.M.-11:30 A.M. (3 hours credit)

- Art 507 Graduate Studio in Drawing and Painting
Art 511 Art in the Elementary Curriculum
Art 512 Graduate Studio in Sculpture
Ed. 501 Seminar in Elementary Education
Ed. 507 General School Administration
Ed. 529 Adolescent Psychology
Ed. 551 Problems in Elementary School Supervision

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

- Art 507 Graduate Studio in Drawing and Painting
Art 512 Graduate Studio in Sculpture

- Ed. 516 Methods and Materials, in the Elementary School
Ed. 575 Research Methods and Techniques
Eng. 519 Literature and the World Today
Ex.Ed. 520 Speech Problems of Children
Ex.Ed. 561 Occupational Education for Children with Mental Retardation
H.Ec. 500 Seminar in Home Economics Education
I.A. 515 Transportation Laboratory
I.A. 519 New Methods and Techniques in Woodworking
I.A. 528 Curriculum Development in Industrial Arts
Math 500 Mathematics in the Elementary Curriculum
E.S. 502 Cartography
Sci. 518 Human Biology
S.S. 506 Minority Groups in American Culture
S.S. 517 The History and Institutions of the Soviet Union

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

- Ed. 566 Safety Education
Ed. 575 Research Methods and Techniques
Eng. 524 Realism in American Literature
Eng. 534 Literature of Continental Europe
Ex.Ed. 591 Nature and Needs of Children who Present Exceptional Problems of Learning
Geog. 500 Geography of Eastern Asia
H.Ec. 512 Workshop in Household Equipment for Home Economics Teachers
I.A. 502 Field Studies in Industrial Arts Education
I.A. 521 New Methods and Techniques in Metalworking
I.A. 530 New Techniques in Graphic Arts
Phy. 502 Mechanics II
Sci. 500 Science in the Elementary Curriculum
S.S. 519 Case Studies in Local Government and Politics
OR
S.S. Elective in Political Science

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

- Ex.Ed. 544 Psychology of Speech

Tuesday Evening 6:30 P.M.-8:10 P.M. (2 hours credit)

- Ed. 575 Research Methods and Techniques

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

- Art 506 Seminar in Contemporary Art
Art 509 Graduate Studio in Crafts
Ed. 506 Philosophy of Education
Ed. 511 Music and Art in the Elementary School
Ed. 527 Problems in Educational Services for Young Children
Ed. 537 Evaluation in the Secondary School
Ed. 575 Research Methods and Techniques
Eng. 514 Children's Literature
Eng. 521 Studies in Modern British Poetry
Math 508 Mathematical Statistics
S.S. 505 Studies in Contemporary Economic Problems
S.S. 515 Studies in American Colonial History

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

1961-62 FALL SEMESTER

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

Bio. 101	General Biology	Staff
Ed. 486	Methods and Materials in the Elementary School	Miss Krenning
Eng. 420	Oral Interpretation of Literature	Miss Goosen
S.S. 242	20th Century World	Mr. Moyer

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

Art 406	Creative Art Workshop	Staff
Ed. 465	Audio-Visual Education	Mrs. Goldberg
G.S. 301	Ideas of Man and His World of Literature	Staff
Sci. 310	Science in the Elementary Grades	Staff

1961-62 SPRING SEMESTER

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

Bio. 102	General Biology	Staff
Ed. 310	Evaluation in the Elementary Grades	Miss Pearson
Eng. 348	Creative Dramatics	Miss Piquette
Math 303	Mathematics in the Elementary Grades	Mr. Hilaire

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

Ed. 410	Philosophy of Education	Dr. Wells
Geog. 302	Geography of North America	Staff
Mus. 304	Music for Children I	Staff
Sci. 410	Field Studies I	Staff

1962-63 FALL SEMESTER

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

Eng. 402	Contemporary Literature	
G.S. 104	Ways of Knowing	
I.D. 201	Outdoor Education	
S.S. 230	Colonial History of the American People	

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

Ed. 461	Safety Education	
Ed. 487	Teaching of Language Arts in the Elementary School	
Eng. 210	Children's Literature	
H.Ed. 204	Personal and Community Health	

1962-63 SPRING SEMESTER

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

Ed. 402	Seminar in Elementary School Teaching	
G.S. 301	Ideas of Man and His World of Literature	
Mus. 305	Music for Children II	
Sci. 410	Field Study I	

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

Art 400	Workshop in Crafts	
Ed. 310	Evaluation of the Elementary Grades	
Eng. 250	Types of British and American Literature I	
G.S. 104	Ways of Knowing	

THE GRADUATE EXTENSION DIVISION

DAVID A ROGERS, *Director*

STEVEN GITTLER, *Associate Director*

GENERAL INFORMATION

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

GRADUATE CURRICULA

Graduate courses lead to the Master of Science 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 Extension classes.

REQUIREMENTS FOR ADMISSION TO GRADUATE DIVISION

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

1. An acceptable academic and teaching record. An applicant must be able to present an undergraduate scholastic average of 2.3 or higher, an acceptable teaching record testified by a confidential statement from the administrator of the school wherein employed, and recommendations concerning academic and personal qualifications supplied by three persons in a position to make valid statements.
2. One of the following:
 - A. An approved Bachelor's Degree and eligibility to teach in the elementary school or in a field of specialization in New York State. An *approved* Bachelor's Degree is one granted by a teachers college, liberal arts college, or university which is accredited by the American Association of Colleges for Teacher Education, an appropriate regional accrediting agency, or a State University.
 - B. An approved Bachelor's Degree and a desire to become certified to teach in New York State under the requirements of the Bureau of Teacher Education and Certification.
 - C. An approved Bachelor's Degree and a teaching certificate from another state. Completion of the Master's Degree requirements does not guarantee New York State certification. Applicants interested in New York State certification should secure an evaluation of credit and a statement of prescribed work necessary from the Bureau of Teacher 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 first semester Extension; and before January 1, for registration in the second semester Extension session.
3. Furnish the Graduate Office with an official transcript from the college which granted the Bachelor's degree. (Not necessary for graduates of this college.)
4. Filing of the Application for Admission blank in the Graduate Office constitutes a *permit to register* for a student beginning graduate study.

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:

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.

REQUIREMENTS FOR MASTER OF SCIENCE DEGREE

1. Completion of thirty-two semester hour program of graduate courses.
2. A cumulative average of B or better in *all* graduate courses completed in this college. Not more than nine hours of C, and no work of D grade, will be accepted toward the Master's degree.
3. Completion of residence requirements. A course shall satisfy the requirements for residence if it is offered on the Campus, within the City of Buffalo, at a College Camp, or at a branch established by the College.
 - A. For graduates of this college—a minimum of twenty hours *in-residence* is required out of the total thirty-two.
 - B. For graduates of another college—a minimum of twenty-four credit hours *in-residence* is required out of the total thirty-two.
4. Non-resident credit. Non-resident credit is defined as transfer credit earned at another college or university or credits earned in off-campus 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 per academic year in Extension classes. No credit will be given for work taken beyond this maximum at this college or elsewhere.
 - B. In Summer Session students are permitted to earn a maximum of two credits for a two-weeks program; three credits for a three-weeks program; six credits for a six-weeks program; and eight credits for an eight-weeks program.

SPECIAL STUDENTS

1. Students not intending to apply for admission to candidacy for the Master's degree, may be permitted to register for courses in the Graduate Division as *special students*, with the understanding that credits earned will not necessarily count toward fulfillment of Master's degree requirements.
2. A special student deciding to matriculate for the Master's degree must request an evaluation of all graduate credits earned, complete the credentials required for full graduate status, and follow a program of graduate study planned by the Director of the Graduate Division to meet curriculum, grade and time-limit requirements. 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.

TUITION

Graduate Division tuition is \$20.00 per credit hour.

GRADUATE CURRICULA

ART EDUCATION

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

Technical Courses:

Art 501	Workshop in Art Education Materials, Processes, and Procedures	3 Sem. Hrs.
Art 503	Workshop in Using the Visual Language	3 Sem. Hrs.
Art 506	Seminar in Contemporary Art	2 Sem. Hrs.
Art 507	Graduate Studio in Drawing and Painting	2-6 Sem. Hrs.
Art 508	Graduate Studio in Design and Spatial Organization	2-6 Sem. Hrs.
Art 509	Graduate Studio in Crafts	2-6 Sem. Hrs.
Art 510	Graduate Studio in Photograph	2-6 Sem. Hrs.
Art 512	Graduate Studio in Sculpture	2-6 Sem. Hrs.
Art 513	Graduate Studio in Graphic 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 502	Art Education Today	3 Sem. Hrs.
Art 504	Seminar in Art in Human Affairs	2 Sem. Hrs.
*Art 505	Seminar in Art Education	3 Sem. Hrs.
Art 514	Workshop in Folk Arts	2 Sem. Hrs.
Art 526	Special Study	2-4 Sem. Hrs.
Graduate	Courses in Psychology and Education	2-6 Sem. Hrs.

RESEARCH:

Ed. 575	Research Techniques	2 Sem. Hrs.
Art 550	Project	4 Sem. Hrs.
Art 525	Master's Thesis	6 Sem. Hrs.
(Each candidate, after a conference with his adviser, may select one of the above requirements.)		

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

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

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 teaching in the early secondary (junior high) schools of New York State.

The completion of two courses in one summer session (one in Early Secondary School Education and one in the subject matter field of specialization), will entitle the elementary teacher to a provisional certificate to teach in the early secondary grades. This certification will be renewed from year to year by continued summer session and extension study, and teaching in the early secondary (junior high school) grades. The permanent form of early secondary certification will be granted upon the completion of thirty semester hours in this graduate program and evidence of 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	21 SEM. HRS.
Written Composition	6 Sem. Hrs.
Speech	6 Sem. Hrs.
Literature (English, American, Contemporary)	9 Sem. Hrs.

THE GRADUATE PROGRAM

REQUIRED COURSES:

(by advisement) within the area of specialization:	12 Sem. Hrs.
3 hour course in English Literature to be chosen from: Eng. 504, 505, 509, 520, 521, 523, 530, 531	

- 3 hour course in American Literature to be chosen from: Eng. 502, 503, 510, 518, 519, 522, 524
 3 hour course in general literature to be chosen from: Eng. 506, 507, 508, 515, 532, 533, 534, 535
 3 hour course in language to be chosen from: Eng. 500, 526

ELECTIVE COURSES:

(by advisement) within the area of specialization or other academic field9-10 Semh. Hrs.

PROFESSIONAL COURSES:

Required courses: Ed. 532; (by advisement) Ed. 529, 536; Eng. 527 (Required of students extending certification to include Early Secondary English, who have not had Eng. 213.)
 Elective courses: Ed. 506, 519, 523, 533, 537, 538, 541, 542

RESEARCH:

Ed. 575 Research Methods and Techniques2-6 SEM. HRS.
 Eng. 550 Project2-3 Sem. Hrs.
 Eng. 525 Master's Thesis4 Sem. Hrs.
 (Each candidate, after conference with his adviser, may select *one* of the above requirements.)

Total requirements: 32 semester hours

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

PREREQUISITES

American History6 Sem. Hrs.
 European History6 Sem. Hrs.
 Geography3 Sem. Hrs.
 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 fields6 Sem. Hrs.
 (Substitution may be made for individual requirements provided the deficiency is corrected on the graduate level.)

THE GRADUATE PROGRAM

REQUIRED COURSES:

(by advisement) within the area of specialization12 Sem. Hrs.

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 fields6 Sem. Hrs.
 (If this requirement has been met by electives on the undergraduate level, the student may substitute Social Studies graduate electives.)

- b. Concentration in 1 of 3 areas6 Sem. Hrs.
 Community and New York State Studies such as: S.S. 506, 507, 509, 510, 519
 American Studies such as: S.S. 500, 502, 504, 512, 513, 515, 521; 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 specialization or other academic fields9-10 Sem. Hrs.

PROFESSIONAL COURSES:

Required courses: Ed. 532; (by advisement) Ed. 529, 536; S.S. 520
 Elective courses: Ed. 506, 519, 523, 533, 537, 538, 541, 542

RESEARCH:

Ed. 575 Research Methods and Techniques2-3 Sem. Hrs.
 S.S. 550 Project4 Sem. Hrs.
 S.S. 525 Master's Thesis6 Sem. Hrs.
 (Each candidate, after conference with his adviser, may select *one* of the above requirements.)

Total requirements: 32 semester hours

SECONDARY EDUCATION

The State University College of Education 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

Twenty-four or more semester hours of undergraduate mathematics (chosen by advisement) from the following: College Algebra, College Geometry, Trigonome-

try, 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 (by advisement) to be selected from Math. 503, 506, 507, 508, 509, 510, 51112-18 Sem. Hrs.

Elective Courses:

These may be in Mathematics or Science. Mathematics majors with a Science minor must take Ed. 535, Methods in Teaching Secondary School Science, in the first summer session if they wish to secure provisional certification to teach Science... 0-6 Sem Hrs.

ELECTIVES

Other than major and minor areas8 Sem Hrs.

PROFESSIONAL COURSES:

Ed. 537, Evaluation in the Secondary School3 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 Techniques3 Sem. Hrs.
 Math. 550 Project4 Sem. Hrs.
 Math. 525 Thesis6 Sem. Hrs.

Total requirements: 32 semester hours

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

PREREQUISITES

Major Area of Specialization48 SEM. HRS.
 General Science: 30 Sem. Hrs. in four fields: Biology, Chemistry, Earth Science, and Physics.
 Biology, Chemistry, Earth Science, Physics: 30 Sem. Hrs. in major area.
 Chemistry and Physics majors require, in addition, Differential and Integral Calculus.
 Minor Area of Specialization18 Sem. Hrs.

THE GRADUATE PROGRAM

SPECIALIZED AREAS

(Major and Minor)18 Sem. Hrs.

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 areas8 Sem. Hrs.

PROFESSIONAL COURSES:

Ed. 537, Evaluation in the Secondary School3 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 Techniques3 Sem. Hrs.
 Sci. 550 Project4 Sem. Hrs.
 Sci. 525 Thesis6 Sem. Hrs.

Total requirements: 32 semester hours

ELEMENTARY EDUCATION

REQUIRED PROFESSIONAL COURSES

Ed. 501 Seminar Elementary Education12 SEM. HRS.
3 Sem. Hrs.

***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	3 Sem. Hrs.
Ed. 527	Problems in Educational Services for Young Children	3 Sem. Hrs.
Ed. 517	Teaching the Language Arts in the Elementary School	3 Sem. Hrs.
Ed. 546	The Teaching of Reading	3 Sem. Hrs.
Ed. 521	The Elementary School Curriculum	3 Sem. Hrs.
Ed. 533	Workshop in Audio-Visual Education	3 Sem. Hrs.
Ed. 516	Methods and Materials in the Elem. School	3 Sem. Hrs.
Eng. 514	Children's Literature	3 Sem. Hrs.

GROUP B:

Ed. 509	Personality Adjustment in the Elem. School	3 Sem. Hrs.
Ed. 519	Applied Mental Hygiene	3 Sem. Hrs.
Ed. 506	Philosophy of Education	3 Sem. Hrs.
Ed. 541	Social Foundation of Education	3 Sem. Hrs.
Ed. 503	Organization of the Elementary School	3 Sem. Hrs.
Ed. 530	Principles in the Supervision of Teaching	3 Sem. Hrs.
Ed. 548	Workshop in French in the Elementary Grades	3 Sem. Hrs.
Ed. 539	Workshop in Spanish in the Elementary Grades	3 Sem. Hrs.
Ed. 505	Evaluation Techniques in the Elementary School	3 Sem. Hrs.
Ed. 508	Supervision of Student Teaching	3 Sem. Hrs.
Ed. 518	Studies in Human Growth and Development	3 Sem. Hrs.
Ed. 523	Principles and Practices of Guidance	3 Sem. Hrs.
Ed. 538	Comparative Education	3 Sem. Hrs.
Ex. Ed. 520	Speech Problems of Children	3 Sem. Hrs.
Ex. Ed. 591	Nature and Needs of Exceptional Children	3 Sem. Hrs.

ELECTIVES IN ARTS AND SCIENCES

17 SEM. HRS.
Graduate courses in English, Geography, Mathematics, Music, Science, and Social Studies.

RESEARCH 3-6 SEM. HRS.

Ed. 575	Research Methods and Techniques	3 Sem. Hrs.
Ed. 550	Project	3 Sem. Hrs.
Ed. 525	Thesis	6 Sem. Hrs.

(Each candidate, after a conference with his adviser, may select one of the above requirements.)

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 or 521.

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	12 SEM. HRS.
Ed. 503	Organization of the Elementary School	6 Sem. Hrs.
Ed. 504	Administration of the Elementary School	3 Sem. Hrs.
Ed. 530	Principles of Supervision	3 Sem. Hrs.
Ed. 531	Supervision of Teaching	3 Sem. Hrs.

REQUIRED COURSES IN ARTS AND SCIENCES

English and/or Social Studies	8-10 SEM. HRS.
Academic Electives	6 Sem. Hrs.
	2-4 Sem. Hrs.

RESEARCH 2-6 SEM. HRS.

*Ed. 575	Research Methods and Techniques	2-3 Sem. Hrs.
Ed. 550	Research Project	4 Sem. Hrs.
Ed. 525	Master's Thesis	6 Sem. Hrs.

(Each candidate, after conference with his adviser, may select one of the above requirements.)

UNRESTRICTED ELECTIVES 4-10 SEM. HRS.

Total requirements: 32 semester hours.

EXCEPTIONAL CHILDREN EDUCATION

EDUCATION OF CHILDREN WITH MENTAL RETARDATION

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

By advisement from the following:

Ex. Ed. 520	Speech Correction for Elementary School Teachers	2 Sem. Hrs.
Ex. Ed. 527	Guidance of Children who are Exceptional	2 Sem. Hrs.
Ex. Ed. 535	Mental and Educational Measurement	2 Sem. Hrs.
Ex. Ed. 538	Understanding the Problem Child in the Classroom	2 Sem. Hrs.
Ex. Ed. 551	Practicum in Mental Retardation	6 Sem. Hrs.
Ex. Ed. 561	Curriculum Practices for the Mentally Retarded	2 Sem. Hrs.
Ex. Ed. 571	Creative Arts for the Mentally Retarded	2 Sem. Hrs.
Ex. Ed. 581	Teaching the Severely Retarded	2 Sem. Hrs.
Ex. Ed. 591	Nature and Needs of Exceptional Children	2 Sem. Hrs.

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	Research Project	4 Sem. Hrs.
Ex. Ed. 525	Master's Thesis	6 Sem. Hrs.

(Each candidate, after conference with his adviser, may select one of above requirements.)

UNRESTRICTED ELECTIVES 5-9 SEM. HRS.

Total requirements: 32 semester hours

EDUCATION OF CHILDREN WITH ORTHOPEDIC HANDICAP

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

By advisement, from the following:

Ex. Ed. 502	Workshop in the Education of Children with Orthopedic Handicap	6 Sem. Hrs.
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Ex. Ed. 512	Seminar in Education of Children with Orthopedic Handicap	2 Sem. Hrs.
Ex. Ed. 520	Speech Problems of Children	2 Sem. Hrs.
Ex. Ed. 527	Guidance of Children who are Exceptional	2 Sem. Hrs.
Ex. Ed. 538	Understanding the Problem Child in the Classroom	2 Sem. Hrs.
Ex. Ed. 591	Nature and Needs of Exceptional Children	2 Sem. Hrs.

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	Research Project	4 Sem. Hrs.
Ex. Ed. 525	Master's Thesis	6 Sem. Hrs.

(Each candidate, after conference with his adviser, may select one of the above requirements.)

UNRESTRICTED ELECTIVES 5-9 SEM. HRS.

Total requirements: 32 semester hours

EDUCATION OF CHILDREN WITH SPEECH AND HEARING IMPAIRMENT

PREREQUISITES 16 SEM. HRS.

Science of Speech and Hearing	3 Sem. Hrs.
Phonetics	2-3 Sem. Hrs.
Speech Pathology	6 Sem. Hrs.
Speech Correction	3 Sem. Hrs.
Introduction to Audiology	3 Sem. Hrs.

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

THE GRADUATE PROGRAM

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

By advisement from the following:

Ex. Ed. 556	Advanced Seminar in Voice and Articulation Disorders	2 Sem. Hrs.
Ex. Ed. 557	Audiometry and Hearing Aids	3 Sem. Hrs.
Ex. Ed. 558	Neuropathologies of Speech	2 Sem. Hrs.
Ex. Ed. 559	Seminar in Stuttering	2 Sem. Hrs.

Ex. Ed. 543	Speech Reading and Auditory Training	3 Sem. Hrs.
Ex. Ed. 560	Advanced Clinic in Speech-Hearing Disorders	2 Sem. Hrs.
Ex. Ed. 591	Nature and Needs of Exceptional Children	2 Sem. Hrs.

REQUIRED COURSES IN ARTS AND SCIENCES

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

RESEARCH

Ed. 575	Research Methods and Techniques	2-6 SEM. HRS.
Ex. Ed. 550	Research Project	2-3 Sem. Hrs.
Ex. Ed. 525	Master's Thesis	4 Sem. Hrs.

(Each candidate, after conference with his adviser, may select *one* of the above requirements.)

UNRESTRICTED ELECTIVES

5-9 SEM. HRS.

Total requirements: 32 semester hours

HOME ECONOMICS EDUCATION

COURSES IN TECHNICAL AND RELATED FIELDS

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)

*RESEARCH

Ed. 575 Research Methods and Techniques, or
H. Ec. 500 Project, or
H. Ec. 525 Thesis

COURSES IN ARTS AND SCIENCES

9-12 SEM. HRS.

Art
English
Science
Social Science

Unrestricted Electives (in Arts and Sciences only)

Total requirements: 32 semester hours

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

INDUSTRIAL ARTS EDUCATION

COURSES IN TECHNICAL AND RELATED FIELDS

22-24 SEM. HRS.

Professional Education:

8-10 SEM. HRS.

I.A. 501 Seminar in Industrial Arts... 2-3 Sem. Hrs.
I.A. 528 Industrial Arts Curriculum... 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, 520, 521, 523, 526, 527, 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 Art, 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.

INTERMEDIATE 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 Elementary School	3 Sem. Hrs.
Ed. 512	Seminar in Child Development...	6 Sem. Hrs.
Ed. 516	Methods and Materials in the Elementary School	3 Sem. Hrs.
Ed. 501	Seminar in Elementary Education	3 Sem. Hrs.
Electives (by advisement)		4 Sem. Hrs.
Ed. 575	Research Methods and Techniques (for Master's Degree Candidates)	2 Sem. Hrs.
		32 Sem. Hrs.*

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

KINDERGARTEN-PRIMARY GROUP

Ed. 560	Workshop in Elementary Education (Summer Session only) ...	8 Sem. Hrs.
Ed. 515	Seminar in Early Childhood Education	3 Sem. Hrs.
Ed. 527	Problems in Educational Services for Young Children	3 Sem. Hrs.
Ed. 510	Seminar in Elementary School Problems	3 Sem. Hrs.
Ed. 511	Music and Art in the Elementary School	3 Sem. Hrs.
Ed. 512	Seminar in Child Development...	6 Sem. Hrs.
Electives (by advisement)		4 Sem. Hrs.
Ed. 575	Research Methods and Techniques (for Masters' Degree Candidates)	2 Sem. Hrs.
		32 Sem. Hrs.*

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

COURSE DESCRIPTIONS

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

GRADUATE COURSES IN ART EDUCATION

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

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

ART 503. WORKSHOP IN USING THE VISUAL LANGUAGE—Psychological basis of 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 AFFAIRS—Art activity as a dynamic force in the life of an individual and society; psychology of creative activities; creative activity as a way of clarifying thought, attaining control of emotions, propagating individual and group attitudes, beliefs, ceremonials, and practices.

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

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

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

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

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

ART 510. GRADUATE STUDIO IN PHOTOGRAPHY—Photographic processes; black-and-white and color photography as a form of expression, as commercial art, as a form of recording, and as used in the making of teaching aids and publications.

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

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

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

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

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

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

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

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 CULTURES—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 along a particular line of one specialization.

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

GRADUATE COURSES IN EDUCATION

ED. 501. SEMINAR IN ELEMENTARY EDUCATION—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.

ED. 503. ORGANIZATION OF THE ELEMENTARY SCHOOL—Major concepts in Elementary Education; administration of the elementary school; the curriculum; grouping of pupils; the school plant; trends in school building design; co-curricular activities; pupil safety measures. May precede or follow Ed. 504. Required for principal's provisional and permanent certification. Open to experienced teachers. Prerequisites: completion of two years successful public elementary school experience.

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

principal's provisional and permanent certification. Open to experienced teachers. Prerequisites: completion of two years successful public elementary school experience.

ED. 505. EVALUATION IN THE ELEMENTARY 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 ADMINISTRATION—Principles of school administration; historical beginnings; national, state, and local responsibilities for education; district, township, and county administrative units; boards of education; school services: health, supervision, research, library, and attendance; teacher selection, salary, tenure, inservice education; school building programs. Prerequisites: Ed. 503, 504.

ED. 508. SUPERVISION OF STUDENT TEACHING—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. *Elective for supervising teachers.*

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 ELEMENTARY SCHOOL—Activities and experiments in various art materials suitable for elementary grades with emphasis on new processes and procedures; meets the classroom teacher's need in the field of music. Open to students in the Intensive Teaching Training Program.

ED. 512. SEMINAR IN CHILD DEVELOPMENT—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; developmental 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 school-community relations; curriculum improvement; adjustment of school facilities to increasing enrollments; in-service education of staff personnel; elementary school problems suggested by the group. Prerequisites: Ed. 503, 504.

ED. 521. THE ELEMENTARY SCHOOL CURRICULUM—Review of child nature, learning processes, purposes of the elementary school; conflicting philosophies and principles of curriculum development; types of curriculum organization; transitional steps; methods and materials; creative activities; mental health; community resources; individual differences.

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. 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. May precede or follow Ed. 531. Prerequisite: completion of two years of successful public 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. May precede or follow Ed. 530. Prerequisite: completion of two years of successful public elementary school experience.

ED. 532. SECONDARY SCHOOL EDUCATION—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. 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; audio-visual aids to learning; utilizing school, civic and community resources; status and practice of the core-curriculum; nature and purposes of resource units; evaluating pupil growth. Required of students extending certification to teach in early secondary schools.

ED. 537. EVALUATION IN THE SECONDARY 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, counselling, 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 SPANISH IN THE ELEMENTARY GRADES—Spanish conversation; Spanish civilization; observation and participation in a Spanish demonstration class in the Campus School; evaluation of text materials and other teaching aids.

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

ED. 542. SEMINAR IN THE 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. 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 planing, 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-

lated to 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. 560. WORKSHOP IN ELEMENTARY EDUCATION—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. ADVANCE 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 EDUCATION 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 and 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-the-wheel 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 TECHNIQUES—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. 501. THE MODERN AMERICAN NOVEL—Outstanding American twentieth century novels; their social and artistic significance.

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

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

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

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

ENG. 506. STUDIES IN THE MODERN DRAMA—Renaissance 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, THOREAU AND THE TRANSCENDENTALISTS—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 LITERATURE—Major movements in English and American literature from the perspective of philosophy; literature as a source of ideas; the representation of social, political, religious, and ethical ideals in poetry, fiction, and drama.

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

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

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

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

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

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

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

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

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

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

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

ENG. 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. S. 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 and orthopedically handicapped children; techniques and materials

for academic and non-academic curriculum; class discussions and reports.

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

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

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

EX.ED. 524. INTRODUCTION TO AUDIOLOGY—The clinical treatment of hearing problems designed particularly to assist the speech correctionist. Hearing testing, hearing aid construction, and research in the field of audiology. Prerequisite: Ex.Ed. 308 or equivalent.

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

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

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

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

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

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

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

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

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

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

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

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

EX.ED. 551. PRACTICUM IN MENTAL RETARDATION. (FORMERLY EX.ED. 501. WORKSHOP IN EDUCATION OF CHILDREN WITH RETARDED

MENTAL DEVELOPMENT)—Observation and individual participation in a class for children with mental retardation; group discussions and experimentation in techniques and materials.

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

EX.ED. 557. AUDIOMETRY AND HEARING AIDS—Study and measurement of hearing. Administration of individual audiometric, speech 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, aphasia, and aphasic speech problems.

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

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

EX.ED. 561. OCCUPATIONAL EDUCATION FOR CHILDREN WITH MENTAL RETARDATION. (FORMERLY EX.ED. 511, SEMINAR IN EDUCATION OF CHILDREN WITH RETARDED MENTAL DEVELOPMENT)—Curriculum development, based upon a philosophy of occupational education and curricular cores, designed for special class teachers and administrators of classes of children with mental retardation and for teachers of regular classes who must provide adjustments for slow learning children.

EX.ED. 571. CREATIVE ARTS FOR MENTALLY 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 RETARDED (TRAINABLE)—Nature and needs of children, curriculum, methods and materials, special problems encountered in training the severely retarded (below 50IQ) in community day-school classes. Recommended for those working with educable or trainable retardates.

EX.ED. 591. NATURE AND NEEDS OF EXCEPTIONAL 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 GEOGRAPHY—Selected topics of current importance such as petroleum and world politics, Niagara power development, coffee in world trade, chemical industry of the Niagara Frontier, production and distribution of strategic materials; field studies of a local area industry.

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

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

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

GEOG. 505. GEOGRAPHY OF THE MEDITERRANEAN 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.

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

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

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

GRADUATE COURSES IN HOME ECONOMICS

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

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

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

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

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

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

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

H.EC. 508. WORKSHOP IN 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 TEACHERS—Survey and evaluation of developments in large and small equipment used in homes and schools; field trips, laboratory and demonstrations.

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

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

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

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

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

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

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

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. 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 INDUSTRIAL ARTS EDUCATION—Individual and group studies of industrial activities in the Niagara Frontier; the woodworking and fabricating trades; metal industries; plastic and fibre products; graphic arts; electrical, ceramic, airplane and automotive manufacture; conferences with representatives of industry and various labor organizations.

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

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

I.A. 506. SUPERVISION OF INDUSTRIAL ARTS—Problems and techniques concerning administration and

supervision of elementary, secondary and adult programs in industrial arts education at the federal, state, and local levels.

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

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

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

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

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

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

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

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

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

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

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

I.A. 527. TELEVISION TECHNOLOGY WORKSHOP—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. 530. NEW TECHNIQUES IN GRAPHIC ARTS—Experimentation in papermaking, ink, photography, half-tones, color separation, photo-engraving; technical proficiencies in offset printing, publications, letterpress printing, silk-screen printing, bookbinding.

I.A. 533. WORKSHOP IN ADVANCED CERAMICS—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 ELEMENTARY CURRICULUM—Development of number; rationale of processes; relationships; generalizations; meaning and significance of number and processes; mathematics as a language; measurement; problem solving; visual aids; professional literature; analyses and reports of readings individual research and project.

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

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

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

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

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

MATH. 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; multivariate normal distribution; sampling distributions; interval estimation; tests of hypotheses; regression and linear hypotheses.

MATH. 509. THEORY OF NUMBERS—Counting and recording of numbers; properties of numbers; Euclid's algorithm; prime numbers; the aliquot 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. TOPICS FROM MODERN ABSTRACT ALGEBRA—Number theory and proof; equivalence and congruence; Boolean algebra; groups; matrices; linear systems; determinants; fields, rings, and ideals.

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

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. 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.

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.*

BI. 508. COMPARATIVE VERTEBRATE ANATOMY—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 periods 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; rela-

tionships 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 ELEMENTS—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 RESEARCH—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, non-parallel, coplanar 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 spectrometers 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. Prerequisites: 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: Sci. 101, 201-202, or the equivalent. Lectures, discussion, readings.

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: Sci. 101, 201-202, or the equivalent.

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

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

SCI. 509. RECENT ADVANCES IN SCIENCE AS APPLIED TO HOME ECONOMICS—New developments in control of food poisonings; study of research in nutritive values of proteins; bacteriology and chemistry of frozen

foods; effects of food processing on nutrition; recent research in other areas affecting home economics. For graduate students in Division of Home Economics Education only. Lecture, laboratory work.

SCI. 510. METHODS OF TEACHING SECONDARY 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.

SCI. 518. HUMAN BIOLOGY—Origin and development of the human species; human anatomy and physiology; reproduction, embryology, and life cycle; genetics of man; conservation of human resources; new problems in human biology. Required of all candidates for extension of certification to include the teaching of science in the early secondary school. Prerequisites: Sci. 201-202, 303-304.

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

SCI. 527. CURRENT RESEARCH IN SCIENCE—Study of current research in the various sciences; implications of such research on present and future living; implications of research in science for the early secondary school science curriculum. Prerequisites: Sci. 101-102, Ch. 101-102, Ph. 101-102, Sci. 518 or the equivalent.

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 INTER-AMERICAN RELATIONS—American policies toward the Latin American Republics and the Dominion of Canada; recognition; Monroe Doctrine; imperialism; peaceful settlement; cultural interchange; hemisphere security; regionalism. 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 ECONOMIC PROBLEMS—International trade; international finance; inflation; labor legislation; problems of labor and management; price levels. Registration with consent of instructor.

S.S. 506. MINORITY GROUPS IN AMERICAN CULTURE—Major racial, nationality, and religious minority groups in America treated from the cultural, historical, and familial points of view; current anthropological and psychological data on uniformities, differences, prejudices, and discrimination. 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. 510. SELECTED PROBLEMS OF URBAN LIFE—Cultural groups and their backgrounds, attitudes, problems, culture traits, and culture patterns as found in the local community; racial, nationality, religious, and social class groups; talks by guest representatives of intergroup education agencies and of the cultural groups studied. 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. Registration with consent of instructor.

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

S.S. 513. SOCIAL AND INTELLECTUAL HISTORY OF THE UNITED STATES—Social roots of systems of thought; effect of ideas upon American society; continuing patterns of thought, such as Puritanism; liberalism, democracy; contributions of intellectual leaders. Registration with consent of instructor.

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

S.S. 515. STUDIES IN AMERICAN COLONIAL HISTORY—Comparison of colonial policies pursued by European powers in the New World; modification in a new environment of such transplanted elements as the family, church, schools, economy, and government. Registration with consent of instructor.

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. Registration with consent of instructor.

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 ideology; government and the Communist party; economic system; peasant problem; Soviet foreign policy and its relation to international organization; impact of the Soviet Union upon the western world.

S.S. 518. CONTEMPORARY EUROPEAN POLITICAL MOVEMENTS—Party ideologies, organization, parliamentary tactics, propaganda, campaigns, electoral geography, and social composition; party systems, individual parties, and pressure groups. Registration with consent of instructor.

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

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. Registration with consent of instructor.

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

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, labor-management 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, with consent of instructor.

S.S. 523. THE FAMILY IN MEDITERRANEAN 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 CULTURES: 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. 534. ADVANCED WORKSHOP IN HUMAN 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. 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.

APPLICATION FOR ADMISSION TO GRADUATE DIVISION

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.

NAME _____	DATE _____
(Enter here any other name under which you have been registered.)	
PERMANENT ADDRESS _____	DO NOT MAKE ENTRIES HERE ACTION OF ADMISSION COMMITTEE
ST. & NO. _____ CITY _____ ZONE _____ STATE _____	
PRESENT ADDRESS _____	
ST. & NO. _____ CITY _____ ZONE _____ STATE _____	
TELEPHONE NO. _____	
DATE OF BIRTH _____ CITIZENSHIP _____	
MONTH DAY YEAR	

CIRCLE THE CURRICULUM TO WHICH YOU SEEK ADMISSION

ART EDUCATION	HOME ECONOMICS	EARLY SECONDARY EDUC.	SECONDARY EDUCATION
ELEMENTARY EDUCATION			
EXCEPTIONAL CHILDREN EDUC.	ELEMENTARY PRINCIPALSHIP	ENGLISH	MATHEMATICS
INDUSTRIAL ARTS EDUCATION	ELEMENTARY SUPERVISION	SOCIAL STUDIES	SCIENCE

UNDERGRADUATE PREPARATION

COLLEGE AND UNIVERSITY	FROM	TO	WORK COMPLETED, CERTIFICATE OR DEGREE, AND DATES

GRADUATE PREPARATION

(UP TO 8 HOURS OF APPROVED GRADUATE CREDIT MAY BE TRANSFERRED.)

COLLEGE AND UNIVERSITY	FROM	TO	WORK COMPLETED, CERTIFICATE OR DEGREE, AND DATES

TEACHING CERTIFICATION

CERTIFICATE (FIELD OF SPECIALIZATION)	DATE OF ISSUE	STATE WHERE VALID

TEACHING EXPERIENCE

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

(OVER)

OTHER WORK EXPERIENCE

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

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.

CONFIDENTIAL REPORT OF SUPERINTENDENT OR PRINCIPAL*

ASK YOUR PRINCIPAL OR SUPERINTENDENT TO SUBMIT THE CONFIDENTIAL REPORT ON THE ENCLOSED FORM.

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, COLLEGE OF EDUCATION, BUFFALO 22, NEW YORK, REGARDING YOUR FITNESS TO ENTER UPON GRADUATION.

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, COLLEGE OF EDUCATION, 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 COMPLETE 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 REQUESTED INFORMATION HAS BEEN MAILED TO THE COLLEGE.

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

*REQUIRED OF ALL STUDENTS BEFORE ADMISSION TO GRADUATE DIVISION CAN BE GRANTED. NOT REQUIRED OF SPECIAL STUDENTS WORKING FOR CERTIFICATION AND NOT EXPECTING TO APPLY FOR CANDIDACY OF MASTER OF SCIENCE DEGREE.

APPLICATION FOR RESIDENCE HALLS
1961 SUMMER SESSION

Name (Mr.) (Mrs.) (Miss)

Mailing address Telephone

Please check the following:

Graduate Student Undergraduate Student
Double Room Single Room Linen Rental Service
\$7.00 a week \$10.00 a week Yes No
Do you have a physical handicap which requires that you have a room on the first floor?
Yes No

Roommate preference if any:

Date of Birth:

Dates that you are planning to live on-campus:

Six weeks Session—July 5-August 11
Workshop in Reading—July 5-July 21
Workshop in Guidance—July 24-August 11
Post Session—August 14-August 25

Please complete this application and mail to:

Director of Summer Session
College of Education
Buffalo 22, New York

State University of New York
College of Education
Buffalo, N. Y.

APPLICATION FOR ADMISSION TO THE
1961 SUMMER SESSION

(To be submitted only by undergraduates from other colleges)

- Name
- Mailing Address
- College last attended
- Date of last registration at that college
- I (have) (have not) attended the College of Education at Buffalo:
Dates: from to

I request permission to enroll in the following undergraduate courses:

Total Sem. Hrs.
Date Signature

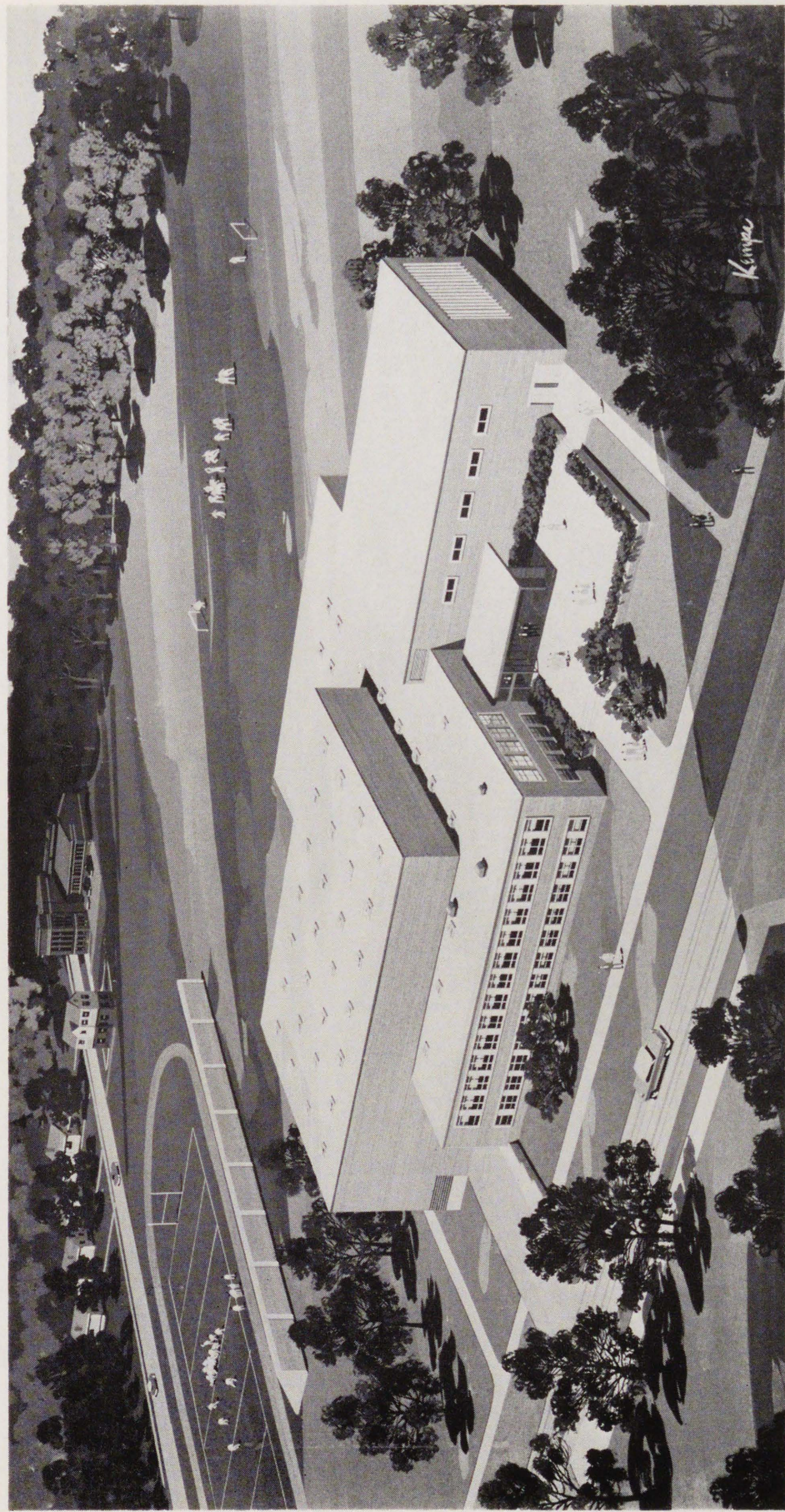
* * * *

To be signed by the Dean or Registrar.

The above named student is an undergraduate in good standing in this college. He is being recommended for admission to the 1961 Summer Session at the College of Education at Buffalo.

Signature
Title
Date
College

This request should be returned to the director of the Summer Session, College of Education, Buffalo, New York by the official who signs the authorization.

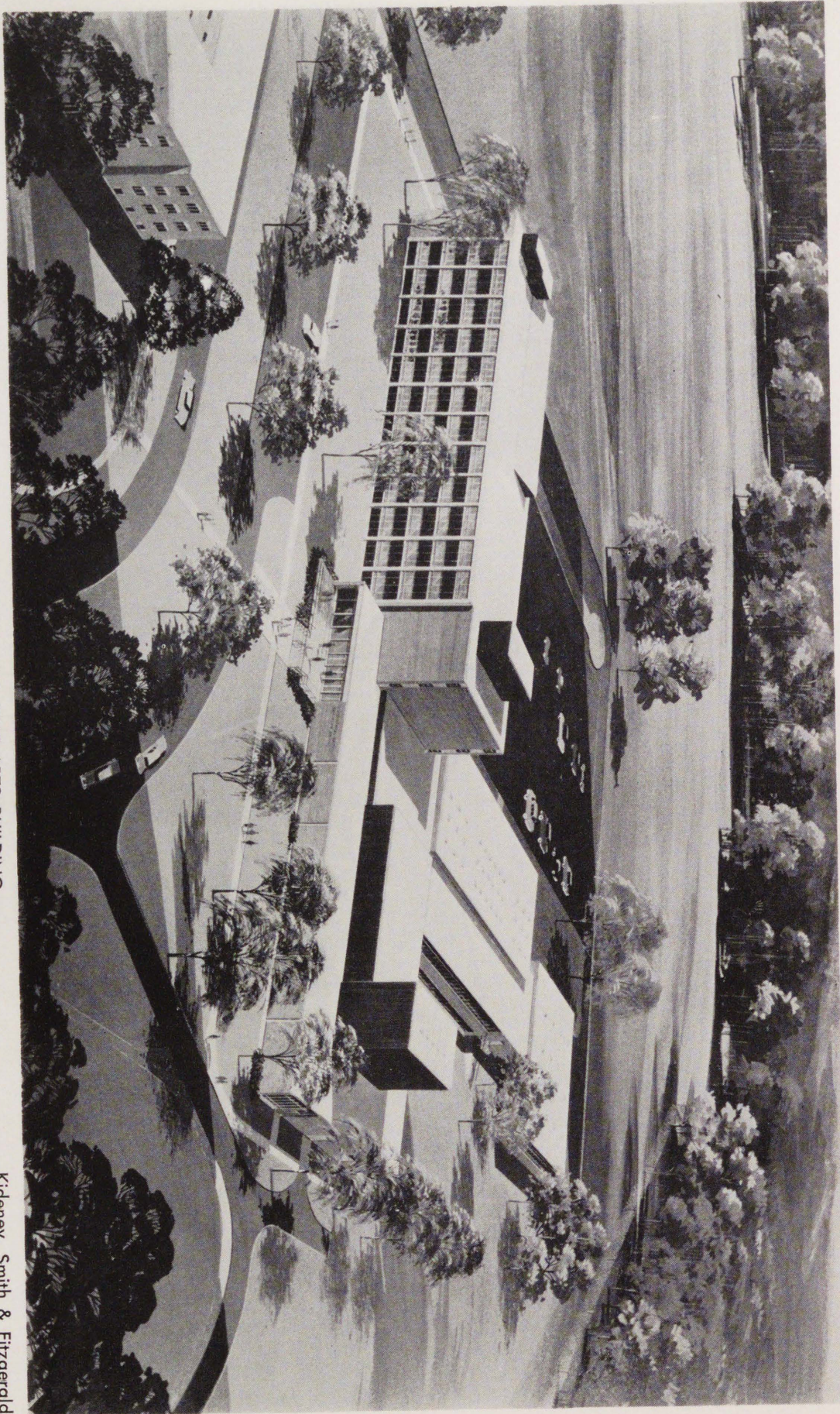


HEALTH AND PHYSICAL EDUCATION BUILDING
 STATE UNIVERSITY OF NEW YORK
 COLLEGE OF EDUCATION AT BUFFALO
 Carl W. Larson, State Architect
 Brown and Guenther, Architects

CARL W. LARSON
State Architect

INDUSTRIAL AND FINE ARTS BUILDING

Kidney, Smith & Fitzgerald
Architects & Engineers



STATE UNIVERSITY OF NEW YORK

Central Administrative Office: Albany 1, N. Y.

LIBERAL ARTS COLLEGE Harpur College at Binghamton

MEDICAL COLLEGES Downstate Medical Center at Brooklyn (New York City)
Upstate Medical Center at Syracuse

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

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

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

COMMUNITY COLLEGES
(Locally-sponsored two-year colleges under the program of State University)
Adirondack Community College
Auburn Community College at Auburn
Bronx Community College at New York City
Broome Technical Community College at Binghamton
Corning Community College at Corning
Dutchess Community College at Poughkeepsie
Erie County Technical Institute at Buffalo
Fashion Institute of Technology at New York City
Hudson Valley Community College at Troy
Jamestown Community College at Jamestown
Mohawk Valley Technical Institute at Utica
Nassau Community College at Mineola
New York City Community College of Applied Arts and Sciences
Orange County Community College at Middletown
Queensborough Community College at New York City
Rockland Community College at Suffern
Staten Island Community College at New York City
Suffolk County Community College at Lake Ronkonkoma
Ulster County Community College
Westchester Community College at Valhalla

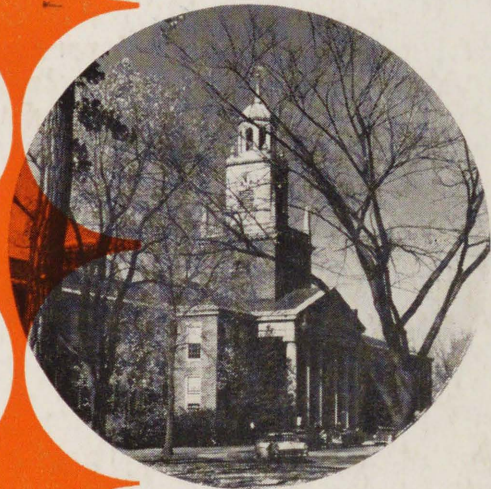
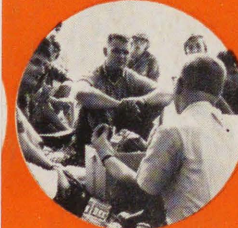
STATE UNIVERSITY OF NEW YORK

COLLEGE OF EDUCATION AT BUFFALO



SUMMER SESSIONS 1962

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



GRADUATE EXTENSION 1962-63

State University College at **BUFFALO**