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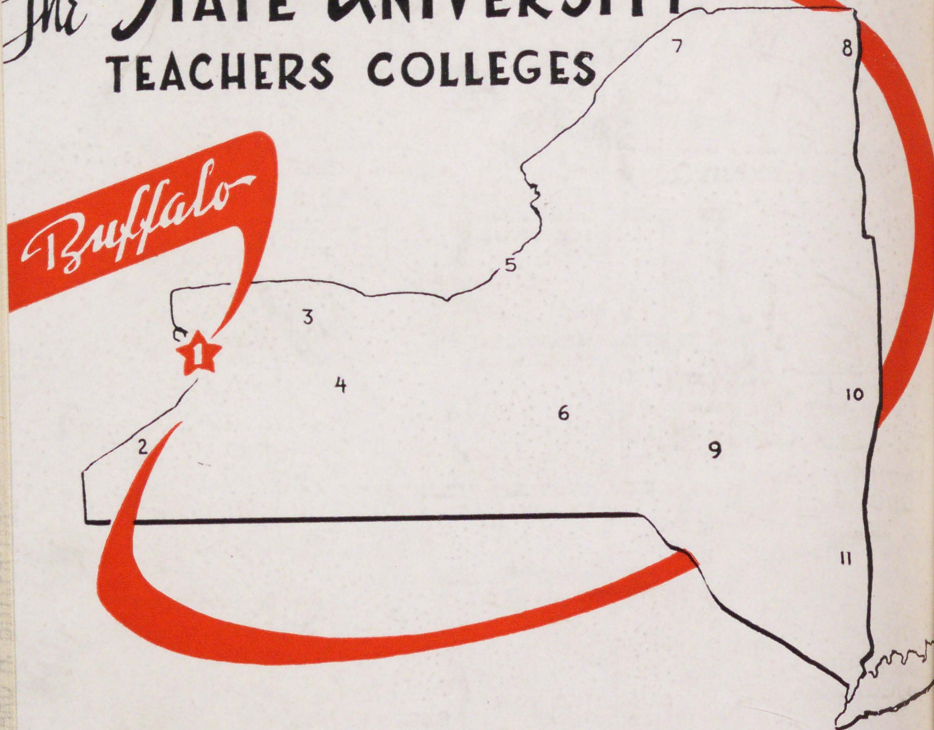
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The STATE UNIVERSITY
TEACHERS COLLEGES



1 NEW YORK STATE COLLEGE FOR TEACHERS
AT BUFFALO

- GENERAL ELEMENTARY EDUCATION
- HOME ECONOMICS EDUCATION
- INDUSTRIAL ARTS EDUCATION
- ART EDUCATION
- EDUCATION OF HANDICAPPED CHILDREN
- GRADUATE DIVISION

- 2 NEW YORK STATE TEACHERS COLLEGE AT FREDONIA
- 3 NEW YORK STATE TEACHERS COLLEGE AT BROCKPORT
- 4 NEW YORK STATE TEACHERS COLLEGE AT GENESEO
- 5 NEW YORK STATE TEACHERS COLLEGE AT OSWEGO
- 6 NEW YORK STATE TEACHERS COLLEGE AT CORTLAND
- 7 NEW YORK STATE TEACHERS COLLEGE AT POTSDAM
- 8 NEW YORK STATE TEACHERS COLLEGE AT PLATTSBURGH
- 9 NEW YORK STATE TEACHERS COLLEGE AT ONEONTA
- 10 NEW YORK STATE COLLEGE FOR TEACHERS AT ALBANY
- 11 NEW YORK STATE TEACHERS COLLEGE AT NEW PALTZ

PERIODICALS DEPARTMENT
EDWARD H. BUTLER

Buffalo



STATE UNIVERSITY OF NEW YORK

NEW YORK STATE COLLEGE
FOR TEACHERS BULLETIN

CATALOG ISSUE • SUMMER SESSION • 195

STATE UNIVERSITY OF
1300 ELWOOD AVENUE
BUFFALO, N. Y. 14260

CALENDAR 1951

July 1— 8:00 P.M.—General Faculty Meeting—Game Room, College Union

July 2— 8:00 A.M.—Accelerated Program begins as scheduled

Graduate Registration

9:00 A.M.—Assembly—Instruction—Auditorium

9:30 A.M.—Pay fees—Register—Gymnasium

Undergraduate Registration

12:30 P.M.—Assembly—Instruction—Auditorium

1:00 P.M.—Pay fees—Register—Gymnasium

Penalty (\$1.00 per day) for registration after July 3

July 3— 8:00 A.M.—All classes convene as scheduled

July 4—Holiday—No classes in session

July 5— 9:00 A.M.—Registration—Elementary School Administration Workshop—Pioneer Hall

10:00 A.M.—First Convocation and Opening Session of Workshop—Auditorium

July 6—European Tour Begins

July 7—Saturday Session—Regular Wednesday schedule to make up for July 4
Last day for registration

July 9—Workshop for Nutrition in The Elementary School
9:00 A.M.—Registration—10:00 A.M. Opening Session

July 14—Elementary School Administration Workshop Closes

July 16—Conservation Workshop begins
9:00 A.M.—Registration—10:00 A.M. Opening Session
Workshop and Field Study Tour of New York State Industries—tour starts

July 18—All college picnic

July 19-20—Visual Education Conference
9:00 A.M.—Registration—10:00 A.M. Opening Session

July 20—Nutrition Workshop Closes

July 27—Conservation Workshop Closes

July 28—Workshop and Field Study Tour of New York State Industries—tour returns to campus

August 10—Six weeks Summer Session closes

August 11—9:00 A.M.—Mexican Field Course convenes—Social Center B
9:00 A.M.—History and Geography Tour of New York State convenes—Room M 115

August 12—9:00 A.M.—Science Camp, Allegany State Park

August 24—Accelerated Program closes

August 27—European Tour returns

State University of New York

New York State College for Teachers

Bulletin

Buffalo • New York

1951 SUMMER SESSION ANNOUNCEMENTS

Graduate and Undergraduate Divisions

STATE UNIVERSITY OF NEW YORK
NEW YORK STATE COLLEGE FOR TEACHERS
BULLETIN

Summer Catalog Issue April 1951 Vol. XIX, No. 3

One of the Four Publications Issued March, April, August, October
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New York State College for Teachers
Buffalo 22, N. Y.

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OFFICERS OF SUMMER SESSION

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President

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Dean and Director of Summer Session

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Dean of Women

RAYMOND M. FRETZ
Dean of Men and Professor of Science

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Director of the Demonstration School

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Director of Visual Education

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Co-ordinator and Director of Public Relations

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Director of Social and Off-Campus Activities

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Director of College Union and Dormitories

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Food Manager of College Union

CHARLOT MOEHLAU FETTERMAN
Manager of the Bookstore

MARIETTA RINDONE FERRO
Assistant Manager of the Bookstore

HELEN WENTLANDT
Nurse—Instructor

JOHN V. WADSWORTH, M.D.
College Physician

HARRY W. CURTIN
Custodian of Buildings and Grounds

INSTRUCTIONAL STAFF

Visiting Faculty

JOSEPHINE ANDREWSLecturer, Audio-Visual Conference

Curator, Film Library, Buffalo Museum of Science

HAROLD H. AXTELL Science Camp

Curator of Biology, Buffalo Museum of Science

MAX BILDERSEELecturer, Audio-Visual Conference

Senior Supervisor, Audio-Visual and Radio Education, State Education Department, Albany

WARD BOWENLecturer, Audio-Visual Conference

Chief, Bureau of Audio-Visual Aids, State Education Department, Albany

EDITH M. BRECKONGraduate Workshop

Teacher, Lewiston School #2

LESTER COFRANSeminar Leader for Elementary School Administrators

Director of Elementary Education, Jamestown, N. Y.

IRENE CYPHERLecturer, Audio-Visual Conference

Administrative Officer, Department of Communication, New York University

DAISY DAVISHome Economics

Associate Professor of Home Economics, School of Home Economics, Ohio State University, Columbus

*EVA M. D'AGOSTINO ... Demonstration Teacher, Orthopedically Handicapped Children

Experimental Class, Cerebral Palsy Center, Public School 135, New York City

M. JOAN DICKSON, P.T. Physical Therapist Cerebral Palsy Workshop

Meyer Memorial Hospital, Buffalo

HOWARD T. DUNKLIN Psychologist for Reading Clinic

Psychologist, Buffalo School Department, Buffalo, N. Y.

LAURA D. DUNKLIN Director of Reading Clinic

Teacher of Reading, The Seminary, Buffalo, N. Y.

* Staff of Workshop in Education of Cerebral Palsied Children, Public School #84, Meyer Memorial Hospital.

- *HELEN EVANS** Demonstration Teacher,
Occupational Therapy
State Experimental Program in Cerebral Palsy, Public School #84, Buffalo
- GRACE WADE GATES** Education
Supervisor, Harris Hill School, Clarence, N. Y.
- HELEN GILLHAM** Fourth Grade
Third Grade Critic, Western Washington College of Education, Bellingham, Washington
- CLIFFORD GOULD** Seminar Leader
Elementary Supervisor, Kenmore Public Schools
- ANNE GRASSETTE** Sixth Grade
Critic Teacher, Plattsburgh State Teachers College
- SUSAN R. HALL** Seventh Grade
Teacher, Fletcher School, Tonawanda
- KATHRYN C. HEFFERNAN** Social Studies Consultant
Marcellus Central School, Marcellus, N. Y.
- DOROTHY HOYLE** First Grade
Vice-Principal, Friends School, Wilmington, Delaware
- *JOSEPH LINK, M.D.** Physician Cerebral Palsy Workshop
Physician, Public School #84, Buffalo
- MARK MAY** Lecturer, Audio-Visual Conference
Director of the Institution of Human Relations, Yale University
- *MARION G. OLSEN** Education Consultant
Principal, Public School #84, Buffalo, N. Y.
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- LOUIS A. RATHS** Lecturer, Workshop for Elementary School
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Professor of Education, New York University
- LORRAINE SCHREINER** Graduate Workshop
Second Grade Teacher, Lindbergh School, Kenmore, N. Y.
- EVA SHOCKLEY** Fifth Grade
Supervising Principal, Westview School, Richmond, Indiana
- DOROTHY STEPHENSON** Graduate Workshop
Elementary Supervisor, Board of Education, Buffalo, N. Y.
- *ELLEN A. THIEL** Demonstration Teacher
State Experimental Program in Cerebral Palsy, Public School #84, Buffalo, N. Y.
- LAURA F. ULERY** Graduate Workshop
Reading Consultant Public Schools, Maywood, Illinois
- VERA WALKER** Nutrition Workshop
Formerly Nutritionist Florida State Board of Health
- NORMAN E. WHITTEN** Social Studies
Department of Social Studies, Oswego State Teachers College
- BENJAMIN WILLIS** Lecturer, Workshop in Elementary
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Superintendent of Schools, Buffalo, N. Y.

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- LILLIAN WORLEY** Geography
Assistant Professor of Geography, Department of Geology and Geography,
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- WILLIAM E. YOUNG** Lecturer, Workshop in Elementary
School Administration
Director of Elementary Education, New York State Dept. of Education, Albany, N. Y.
- Staff Members of the New York State College
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Recreation Director
Assistant Professor of Health Education
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Professor of Sociology, Director Graduate Division
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Director of General Elementary Education Division
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- FREDERICK J. HOLLISTER** Sociology
Professor of Sociology
- JULIUS J. HUBLER** Art
Professor of Art

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Junior Librarian (temporary)	
DORISMAE KENT	Librarian
Junior Librarian	
MARY LOUISE McMAHON	Music
Instructor in Music	
ANN MARTORANA	Education
Assistant Professor of Education	
MAE O'BRIEN	Education
Professor of Education	
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Instructor, Industrial Arts Department	
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MALVIN VITRIOL	Librarian
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Professor of Art Education	
KATHERYNE T. WHITTEMORE	Geography
Professor of Geography	
MARY MARGARET WOEPPEL	Kindergarten
Instructor of Second Year Kindergarten, School of Practice	

SPECIAL FEATURES OF THE 1951 SUMMER SESSION

1. **45 GRADUATE COURSES** in five major areas, elementary, home economics, industrial arts, art education, and education of the handicapped.
2. **UNDERGRADUATE COURSES** of a wide variety for teachers in service, college students, and those desiring brush-up study.
3. **ELEMENTARY SCHOOL ADMINISTRATORS WORKSHOP**, two weeks, educators of national and state repute. Credit for those who desire it.
4. **WORKSHOP IN NUTRITION FOR THE ELEMENTARY SCHOOL** especially designed for elementary teachers—led by nutrition experts and elementary school teachers.
5. **ALL COLLEGE PICNIC**, a time to relax, play games, eat, and for faculty and students to get acquainted.
6. **DEMONSTRATION SCHOOL**—staffed by eight superior elementary teachers and a director.
7. **READING CLINIC** offering teachers experience in the diagnosis of reading difficulties and the development of remedial measures.
8. **DRIVER EDUCATION**—undergraduate course for those qualifying for a certificate. Advanced course for graduate students.
9. **CONFERENCE ON AUDIO-VISUAL EDUCATION**, highlighted by Dr. Mark May, the outstanding leader in this field.
10. **CONSERVATION WORKSHOP** for two weeks, featuring the development of conservation education and teaching in the elementary schools.
11. **SCIENCE CAMP** in Allegany State Park, offered for the third successive summer.
12. **MEXICAN FIELD TRIP**—studying Mexican culture—round trip by air—12 days in and around Mexico City.
13. **HISTORY AND GEOGRAPHY FIELD TRIP OF NEW YORK STATE**, repeated by demand. Places of historical and geographical interest visited.
14. **OUTSTANDING CONVOCATIONS**, speakers of repute, music, humor, literature.

15. **INTENSIVE TEACHER TRAINING** for college graduates desiring to qualify for teaching in the elementary grades and earning a Master of Science degree.
16. **INDUSTRIAL ARTS FIELD COURSE** including a trip to the leading industrial centers of central and southern New York State.
17. **EUROPEAN TOUR**, visiting Britain, France, Switzerland, Italy and other countries.
18. **AN ENLARGED ACCELERATED PROGRAM** for students of the General Elementary Division.
19. **BUFFALO**, on the lake, cool summer, beaches, parks, theaters, country playhouses, museums, libraries; music, swimming, baseball, tennis, golf.

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 the Great Lakes, is more often cool and comfortable than that of any other eastern city. The city is easily accessible by water, rail, or automobile; and the college can be reached easily by bus or taxicab. Across the street from the college are the Albright Art Gallery and the Buffalo Historical Museum, both imposing and dignified works of architecture; and they offer interesting exhibits and programs to the summer visitor. Just beyond them is Delaware Park, a large municipal recreation center with a lake, a golf course, a bridle path, tennis courts and baseball diamonds. Nearby are the Buffalo School of Fine Arts, affiliated with the college, and the Buffalo Museum of Science, whose programs are available to students. Buffalo boasts one of the finest concert halls in the world, the Kleinhans Music Hall, and a nationally famous symphony orchestra. And for those interested in the drama there are summer theaters operated by professional and semi-professional groups.

ADMISSION

The undergraduate summer session is open to anyone qualified for teaching and students who are attending this college or any other college. High school graduates who have not matriculated in any college are not eligible. Also, this session is not open to students who have not completed high school.

No formal application for admission to the summer session is required. Registration constitutes admission. Students of State, in regular session, who have not graduated must get written permission from the Dean before they will be permitted to register. Regular session students from other colleges are urged to have their

programs approved by their respective colleges before registering, to eliminate any difficulty in transferring credit.

Students wishing to apply for admission to the Graduate Division, please read special requirements on pages 30 to 33 of this bulletin. Write to Dr. Robert E. Albright, Director of the Graduate Division, for application blanks or other further information.

FEES

The State University of New York has authorized the collection of Summer Session fees, at a uniform rate, by all of the Teachers Colleges of this State. The schedule for the fees of 1951 Summer Session is as follows:

Tuition

Undergraduate residents	.....\$ 7.00	per Semester Hour Credit
Undergraduates, out of state	...\$10.00	per Semester Hour Credit
Graduate, all students	.....\$10.00	per Semester Hour Credit
College Union fee	.....\$ 6.00	per student
Student Activity fee	.....\$ 1.00	per student
Late Registration fee	.....\$ 1.00	per day to a maximum of \$3.00

Veterans who wish to file for summer session benefits should complete all arrangements before registration. These arrangements can be made with Mr. Perkins in Room V106, Vocational Building.

Students enrolled in the eight-week accelerated program pay no tuition charges but must pay the College Union Fee and the Student Activity Fee. Those enrolled in special two week programs on campus must pay a College Union Fee of \$1.00 per week and the Activity Fee of \$1.00. Off campus field courses, tours and camps pay fees as indicated in special descriptions elsewhere in this catalog.

Refunds of fees paid will be made in full for students who withdraw on or before July 7, 1951. No refund of fees will be made after this date.

All fees are subject to change without notice.

DORMITORIES FOR MEN AND WOMEN

Undoubtedly the best of their kind, the new dormitories will provide accommodations for all non-residents of Buffalo during the summer session. West Hall will house one hundred and fifty (150) women and North Hall one hundred and fifty (150) men. Each room, with accommodations for two, is spacious and beautifully furnished with desks, chairs, single beds (with Simmons deep-sleep mattress), built-in closets, and dressers. All dormitories are directly connected with the new College Union.

Each dormitory floor has three separate units. A comfortable reception room, a laundry with stationary tubs, an automatic washer and dryer and two ironing boards, a green tile bath and storage rooms are in each unit.

Students should bring sheets (single bed size preferably), pillows and pillow slips, blankets and a desk lamp. The rate is \$6.00 per week for single room and \$5.50 for double room. Meals will be served in the College Union Cafeteria.

Make reservations with the Director of Dormitories.

Requests for off-campus residence should be made to the Director of Housing.

Student helpers in college-approved-homes can secure maintenance and \$2.00 a week in return for three hours of service per day or twenty-one (21) hours per week. If interested, write to Miss Catherine E. Reed, Dean of Women.

CREDIT

In obtaining undergraduate credit for work completed at the Summer Session, the following regulations will obtain:

(1) Work done in courses at the Summer Session will be equivalent to the work of the same courses offered during the regular session.

(2) The maximum amount of undergraduate credit allowed is eight semester hours. Students are strongly advised to attempt no more than six semester hours of work.

(3) Courses carrying two semester hours of credit in the regular curriculum are conducted one hour daily in the Summer Session; those carrying three semester hours of credit will meet eight hours per week. An exception to this rule is made in courses requiring laboratory work. No partial credits are given.

(4) No one will be graduated from this college who has not completed his work for the Bachelor's degree and no one will be granted such degree who has not completed a minimum of four summer sessions of at least six semester hours each in residence. It is also required that the last semester's work (or last two summers) before graduation must be in residence. Residence work includes all work done on this campus.

(5) A graduate of a high school curriculum approved by the Commissioner of Education, who after graduation completed a year's course in a Training Class and has had at least one year of experience in teaching since graduation from a Training Class, may receive advanced credit equivalent to one year.

(6) Students who intend to matriculate for the Bachelor's degree in this college and who wish to transfer from another institution should have official transcripts of their record mailed to the Registrar of this college well in advance of the opening of the summer session in order that they may be advised of their program.

(7) Graduates of the Three-Year Normal Course expecting to qualify for the degree should have their individual records evaluated by the Director of the Summer Session or the Registrar. If they have completed the regular required curriculum without deviation, their requirements will probably be as follows:

Students graduated from normal school three-year courses prior to

1937 are required to earn 32 hours of resident credit in fourth-year work including a minimum of twenty-four hours content. Not more than eight semester hours may be taken in education courses.

Students graduated from normal school three-year courses in 1937 and thereafter probably will be required to complete the following: 3 hours, English 304 (American Literature); 3 hours, Drama; 3 hours, Principles of Education or Education 402 (Seminar in Elementary Teaching); 3 hours, American History (not Social Studies 301-2); Modern Social Trends or Social Studies 402 (Sociology); and 17 hours selective, including a minimum of 12 hours in content courses. Any of these courses, however, which may have been completed in normal school should not be repeated.

All those who received the provisional form of certificate are reminded that State Department regulations provide that of the additional work leading to the permanent form of certification "24 hours—shall have been in academic or content courses." This must be kept in mind in choosing electives, and applies also to those who hold the permanent form of certificate and are working for the degree. All graduates of 3-year courses must include 24 hours content in the fourth year, excepting students seeking certification for elementary principals or special class teachers.

The college cannot be responsible for the award of the degree or certification to those who fail to observe this regulation.

(8) Graduate credit. See graduate section, page 30.

SCHEDULE

First Class Period.....	8:10- 9:00
Second Class Period	9:10-10:00
Third Class Period Tuesday, Wednesday, and Friday	10:10-11:00
Assembly Period (Monday and Thursday)	10:10-11:00
Fourth Class Period	11:10-12:00
Fifth Class Period	12:10- 1:00
Sixth Class Period	1:10- 2:00

Note—Students must plan for a lunch period in making their elections. The College Union Cafeteria will be open from 10:30—1.30. The Snack Bar will be open continuously throughout the day.

FIELD TRIPS, STUDY-TOURS, WORKSHOPS, CONFERENCES, CLINICS AND CAMPS

Each summer we endeavor to offer opportunities for rich and varied experiences beyond the regular classroom. Last summer three field courses were added to our offerings. These met with such favorable acclaim that it was decided to continue this type of offering. Hence our summer session of 1951 offers an increased variety of these off-campus courses and experiences in addition to on-campus special features.

1. WORKSHOP FOR ELEMENTARY SCHOOL ADMINISTRATORS

Last summer's Workshop for Elementary School Administrators and Supervisors was so well received and those who participated were so enthusiastic about the good results that the service will be rendered again during the 1951 Summer Session. Scheduled for July 5 through July 14, the Workshop offers opportunity for elementary school principals and supervisors to define and study their problems under qualified professional leadership. For experienced teachers, this Workshop offers opportunity to prepare for elementary school administrative and supervisory positions. Since it is expected that many of the participants will be experienced administrators and supervisors, this should be an exceedingly practical preparation. For principals of twelve-grade schools, the Workshop offers re-orientation with current practices in elementary schools.

The morning sessions will be devoted to general lectures and discussions. These will be led by such outstanding educators as Dr. William E. Young, Director of Elementary Education, New York State Education Department, Dr. Louis E. Rath, Professor of Education, New York University, Dr. Bernard W. Kinsella, Principal, Allen Creek School, Rochester, Dr. Benjamin Willis, Superintendent of Schools, Buffalo, and Dr. Leversia L. Powers, Chief of Elementary Education Division, State Education Department, Pennsylvania.

The afternoon sessions will be given over to seminar study of problems of particular interest and concern to workshop participants. These seminar groups will remain intact under the direction of a qualified seminar leader throughout the ten-day period. Seminar leaders are selected on advisement of cooperating principals and superintendents from the ranks of leading elementary school administrators and supervisors throughout New York State.

The Workshop will be housed in Pioneer Hall. Participants will live in the new dormitories. One of the new dormitories will be devoted to housing of women students and another entire dormitory will be reserved for men. A private dining room for the Workshop group has been reserved in the new College Union. Some general meetings may be held in the auditorium to provide adequately for anticipated attendance.

Participants may attend the conference on a non-credit basis upon payment of a \$5.00 fee, or they may earn 2 hours credit, either graduate or undergraduate, upon payment of tuition fee. There will be a pro-rated College Union fee of \$2.00.

Write to *Mr. George Sherrie*, Director of Summer Session Administration Workshop, for a pamphlet of details and an application blank.

2. FRIENDSHIP STUDY TOUR TO EUROPE

For the first time in State's history, a study tour to Europe is being organized as a part of a summer session program. This study tour begins on July 6 when the party leaves New York on the S.S. Veendam

and ends fifty-two days later on August 27 when the group, this time on the Queen Elizabeth, returns to New York. Thirty-seven days are to be spent in England, Holland, France, Switzerland, and Italy. The leading historical and cultural monuments of these countries will be seen, but meeting the people will be the main purpose.

After ten days of ocean travel, the group lands in Cherbourg and proceeds to Paris for a five-day stay. Next is a two-day stop in Geneva, Switzerland. Twelve days follow in Florence, Rome, Venice, and Milan. The Swiss Alps highlight the rail and motor journey to Interlaken, and, a few days later, the trip to Basel.

Holland is next with a three-day visit to Amsterdam and The Hague. An overnight boat trip brings the party to London and environs for five days, including a one-day trip to Oxford and Stratford. Then to the Queen Elizabeth at Southampton for the five-day return crossing.

Study tour students interested in earning eight graduate or eight undergraduate credits may do so by writing special reports on certain phases of the trip. The nature of these reports will be explained in communications sent to students when enrolling for this study tour. Particular problems related to the reports will be taken up during daily meetings on the S.S. Veendam. On the return trip there will be individual conferences dealing with the problem of reporting effectively on the material gathered.

The tour will cost \$1,028 plus tuition. For more information write to the study-tour director *Benjamin F. Gronewold*, State University of New York, State College for Teachers, 1300 Elmwood Avenue, Buffalo 22, N. Y.

3. FIELD COURSE IN MEXICAN CULTURE

The FIELD COURSE IN MEXICAN CULTURE offers sixteen days of study by land and air (August 11-26): two days on campus for orientation and travel arrangements; twelve days for study in Mexico; and two days for the flights to Mexico City and return.

The primary aim of the course is to promote international understanding through first-hand association with a foreign people and the land they occupy. Students will analyze the geographic, historical, and social factors which have produced Mexico's distinctive culture. Trips through the countryside by private bus will take the class into small Indian villages, into mountain, desert, and tropic regions, and to sites famed in Mexican history.

Special activities are planned for teachers of special subjects and elementary grades. Art teachers will be given opportunities to study Indian and colonial architecture, to appraise modern Mexican murals, and to sketch on location. Teachers of Industrial Arts will inspect methods of producing folk art in silver, ceramics, and textiles. Teachers of Home Economics will study Mexican design in clothing and homes. Elementary teachers will study the life of the people, from

folk music and dancing to educational methods. Local specialists will assist the instructor. On the flights to and from Mexico City, airlines personnel will explain the operation of a modern airliner and assist in identification of topographic landmarks from the air.

Students will receive three semester hours credit. Plane fare and all expenses for twelve planned days in Mexico are expected to be about \$395 (plus tuition). Since enrollment is limited, a deposit of \$25.00 must be made with reservation. Balance must be paid by July 20, 1951. Deposit will be returned if notice of cancellation is given before June 1, 1951. Send reservations, deposits, and inquiries to Mr. Harold F. Peterson, Director, Mexico Field Course.

4. FIELD COURSE IN THE HISTORY AND GEOGRAPHY OF NEW YORK STATE

A field trip through New York State, August 11-25, 1951. One day will be spent in orientation on campus and the following fourteen days in travel. The route will lead through the Allegheny Plateau, the Catskills, the Hudson and Champlain lowlands, the Adirondacks, the Mohawk Valley, Tug Hill and the Black River Valley, and the Lake Plains.

Those aspects of history and geography and their interrelations that can best be taught on the spot will be emphasized: the characteristics of geographic regions within the state; colonial and pioneer settlement and the present distribution of population; transportation routes and facilities; forts and battlefields of three wars; industrial development; conservation practices; places associated with famous people and movements.

The dramatic history of the state and the great variety of its geography make possible many different kinds of experiences for the students. They will see spread before them as they look from the tower of the State Office Building in Albany, the valleys and hills that formed the stage where many historic events took place. They will follow the route of Herkimer and his militia to the battle of Oriskany. They will study the development of agriculture in the state by visiting the Farmer's Museum at Cooperstown and through discussions with farmers and soil experts. They will visit flood control dams, canal locks, forts, battlefields, the Schuyler Mansion and other more modest homes of our ancestors. Many local authorities in conservation, history, industry and other fields will assist in the instruction.

The cost will be \$180.00 plus tuition. This includes transportation, admission fees, rooms and meals in first class hotels and restaurants. Since enrollment is limited, a deposit of \$25.00 must be made with the reservation. Balance must be paid by July 20, 1951. Deposit will be returned if notice of cancellation is given before June 1, 1951. Send reservations, deposits, and inquiries to Mr. Marvin A. Rapp, Director, New York Field Course.

Open to graduate and upperclass undergraduate students. Three semester hours credit. *Mr. Rapp and Mrs. Whittemore.*

5. WORKSHOP AND FIELD STUDY TOUR OF NEW YORK STATE INDUSTRIES

This is a complete workshop and field study program which gives industrial arts graduate students a comprehensive view of industries in New York State throughout the central and western portion of the State.

Three two-week periods are the basis of the organization: The first is a two-week study of the Niagara Frontier with organized trips to the chief industries in the section. The second two-week period consists of a bus tour through Jamestown, Corning, Binghamton, Schenectady, Gloversville, Amsterdam, Syracuse, and Rochester. The major industries in these centers will be thoroughly studied. During the next two weeks, a workshop by committees will work over a comprehensive outline to seek information that would be of interest to industrial arts and guidance teachers.

The program offers credit as follows: the full course program of 6 weeks—6 semester hours. Those who have completed the I.A. 502 (Field Studies in Industrial Arts Education), and who wish to take the tour and file a subsequent report, may earn 3 semester hours credit. Guidance counselors who wish to take the tour only may go on a non-credit basis, or, a 3 semester hour basis if they complete the workshop following.

The cost of the course will be \$215.00 which will include tuition (6 hours—\$60.00), bus fare, hotels and meals 12 days enroute. Those who register under the G. I. privileges will receive tuition and fees, plus supplies and subsistence during the period they are attending full time. Director: *Mr. Cook.*

6. WORKSHOP IN NUTRITION EDUCATION FOR THE ELEMENTARY SCHOOL

The college is this summer offering its second Workshop in Nutrition Education for the elementary school with the assistance of General Mills, Inc. Surveys have shown that though nutrition has been taught for many years, the results, as reflected in the eating habits of children, have not been what we had hoped. The program of the Workshop has been planned to assist all those actively concerned with the improvement of the eating habits of children to be brought up to date with (1) the essential facts of nutrition as we now know them; (2) newer methods and techniques of teaching them including methods of integrating nutrition education with the many areas of the curriculum (3) the wealth of available materials, including films and (4) techniques for obtaining parent cooperation.

Members of the Workshop will individually or in groups, from the same schools, develop plans of work for their own school programs, for the subsequent school year.

To assist in the accomplishment of the purposes of the Workshop, will be a well-qualified staff of elementary and Home Economics

persons. From time to time consultants from a variety of agencies concerned with our problems will participate in the Workshop. There will be scheduled observations of nutrition activities being carried on at several grade levels in the demonstration school. Through these activities also will be demonstrated the possibilities for cooperative efforts of the Homemaking and elementary teachers.

The Workshop group will meet in the School of Practice from 9:00 A.M. until noon and from 1:30 until 3:30 daily for two weeks, July 9-20, 1951. The mornings will largely be given to regularly scheduled activities including observations in the demonstration school and the afternoons to individual and group conferences with consultants, work on individual problems, preview of films, trips and social activities. Credit will be two semester hours. Graduate or undergraduate. The fees respectively \$20.00 and \$14.00. Admission will also be made on a non-credit basis with a fee of \$14.00. There will be a \$2.00 College Union Fee.

Application for Admission to the Workshop should be made to Miss Mildred Sipp; Director of Home Economics Division.

7. CONSERVATION WORKSHOP

Because of the increasing importance of the wise use of our natural resources, and because of the need for public education in conservation, a workshop in conservation will be held during the two weeks of July 16-27, 1951.

State and national conservation problems will be studied. Wise use of soil, forest, water, wildlife, and mineral resources will be given consideration. Federal and state conservationists will assist in presenting the problems and in suggesting solutions for the problems. During the first week of the workshop field trips will be taken to locations showing existing conditions and how they may be improved.

During the second week attention will be focused on conservation education in the public schools. Opportunity will be given for determining the objectives of such education, planning curricular materials, locating federal and state conservation education publications, finding suitable visual aids, and developing evaluation instruments.

Each student will be given the opportunity to organize and develop materials suitable for use in his work in the public schools, under the guidance of specialists in conservation and in education.

8. READING CLINIC

A laboratory course in the diagnosis and treatment of reading difficulties will be offered this summer by Mrs. Laura Dunklin teacher of reading at the Buffalo Seminary, and Dr. Howard Dunklin, psychologist for the Buffalo public schools.

The aims of the clinic are (1) to prepare teachers to conduct developmental and remedial reading programs in their own schools, and (2) to remedy the difficulties of children who come to the clinic for help.

Each student is encouraged to plan and carry out a program of study that will be most helpful to him in his professional work.

The clinic will be conducted daily in four parts: (1) 9:10 to 10:00, diagnosis and remedial instruction for pupils enrolled; (2) demonstrations by the instructors of diagnosis and remedial instruction of individuals and groups; (3) 11:00 to 12:00, lectures on the normal development of reading ability, physiological and psychological bases of learning to read, causes and prevention of reading disabilities, informal and standardized techniques for group and individual appraisal of reading needs, and classroom and clinical procedures in developmental and corrective instruction in reading and spelling; (4) 12:10 to 1:00, scoring of tests, interpretation of data, selection of materials, discussion of problems, and planning of remedial instruction.

The course grants six semester hours' credit; fees are \$42.00 for undergraduate study and \$60.00 for graduate study. Registration is limited to 30 students with experience in education. Registration before June 1st is urged to enable the clinic to secure for each student the age and type of child he desires to teach. Those desiring application blanks write to Mrs. Howard Dunklin, 24 Berkley Place, Buffalo 9, New York. A place will be held open for each of the 30 students whose application is accepted by Mrs. Dunklin; successful applicants desiring to cancel their applications should notify Mrs. Dunklin promptly in order to release a place for another student.

Students attending other courses may register for the lectures without credit; visitors will be admitted only with the permission of the instructors.

A limited number of children will be registered for diagnostic and remedial treatment of reading difficulties. A fee of \$15.00 is charged each of these for special supplies and instructional materials. Each child will be taught for one hour each day by an experienced teacher under the guidance of the staff.

Anyone wishing to register his child for this clinical service should write to: *Mrs. Howard Dunklin, 24 Berkley Place, Buffalo 9, New York.*

9. VISUAL EDUCATION

The schools of New York are now realizing that remarkable improvement in teaching can come through the proper use of audio-visual materials. As a result, many school systems are inaugurating or expanding the use of audio-visual methods in their instructional program.

To meet this growing need for teachers with advanced preparation, the college is offering a graduate workshop in audio-visual education, Education 533s. This course will be open to those who have previously taken basic courses in audio-visual education or have had some experience in teaching, coordinating or administering in this area. It will consider such problems as: financing, accounting; teacher attitude; in-service training; program coordination; administrative systems; and film libraries.

Education 433s will be offered to undergraduates to provide them with the knowledges and skills that will lay the foundation for effective use of audio-visual materials in their teaching. It will include laboratory work in equipment operation and in the viewing of films. It will also provide opportunities for the development of effective methods of instruction in the students' area of specialization.

The college is well supplied with audio-visual equipment items of all varieties and a well-stocked library of films, filmstrips, and other aids, which make the laboratory work highly productive.

10. AUDIO-VISUAL CONFERENCE JULY 19-20

One of the big things happening in education today is the rapid increase in the use of audio-visual methods and materials. With them, teachers are able to teach more and to teach better. The last few years has seen the inauguration of many new programs in the public schools of western New York.

Recognizing the tremendous potentiality of this movement for the improvement of teaching, the college summer session is sponsoring an audio-visual conference during Thursday and Friday, July 19 and 20.

The college is fortunate to have secured the services of the following:

Dr. Mark May
Director of the Institution of Human Relations
Yale University
Chairman of the Commission on Motion Pictures
American Council on Education

Dr. Irene Cypher
Administrative Officer
Department of Communications
New York University
Audio-Visual Advisory Staff
American Museum of Natural History

Dr. Ward Bowen
Chief, Bureau of Audio-Visual Aids
State Education Department
Albany, New York

Dr. Max Bildersee
Senior Supervisor
Audio-Visual and Radio Education
State Education Department
Albany, New York

Miss Josephine Andrews
Curator, Film Library
Buffalo Museum of Science

These experts from outstanding audio-visual departments of other colleges, universities, the U. S. Office of Education, the State Educa-

tion Department, and the American Council on Education will give lectures, conduct panels, and conduct discussions. The services of this group will be available for private or group conference.

The first day's program will be concerned with *Better Classroom Use of Audio-Visual Materials*. Panel speakers, question speakers, and demonstrations will provide first hand help for teachers and administrators concerned with the problem. The values and use of simple teacher-made materials will be demonstrated in this area.

An evening session of the conference will deal with *The Use of Films and Other Audio-Visual Materials in the Defense Movement* as it affects schools, industrial plants, and family life in the communities. Leaders in the defense effort, as it regards schools, industries, and communities, will conduct a panel on this vital issue. Several remarkable films on the atomic bomb and its effects will be shown.

A program of screening of outstanding films will be an integral part of the program. There will be films shown of general interest as well as those of special subject and grade level. Evening showings will include feature length films of historic or literary value such as *Pygmalion*, *The Informer*, etc.

The Use of Radio and Television will be presented by experts in the audio field. Representatives from the Empire State School of the Air will be on the panel. Practical help in the form of demonstrated lessons will be provided on the program. All of the facilities of station WBEN-TV will be available for study by interested conference guests.

A comprehensive exhibit of projectors, recorders, record players, and all forms of equipment and materials will be on display. Most of the major manufacturers and distributors will be present.

11. SCIENCE CAMP

Elementary school teachers and prospective teachers who are interested in extending their knowledge of the science of the out-of-doors are invited to attend the Science Camp which will be held at Allegany State Park on August 12-24, 1951.

While scientific in content, the instruction will be of a non-technical nature. Emphasis will be placed on learning how to identify common birds, insects, wild flowers, trees, and other living things. The relationships between living things and the important factors in their environment will be studied. The geology of the park, and of Western New York, will be stressed. An important part of the work will consist of showing teachers how to use the environment in their own teaching, since many of the principles involved are usable even in city schools. Field trips will take up most of the time; laboratory work, reference study, and lectures will round out the course.

Science Camp will occupy a group camp consisting of twelve cabins and a large central lodge. Ten of the cabins will be used for housing students. Meals will be prepared and served at the central lodge. A new swimming pool adjacent to the cabins will be reserved for Camp

members. All buildings are equipped with electricity; a new shower house has been erected, with hot and cold running water available. Sanitary facilities have also been enlarged. While the Camp is rustic in nature, it is comfortable.

The cost of attendance at the Camp is moderate. While fluctuations in food prices make an exact estimate impossible, it is thought that the charge for tuition, meals, and cabin rental will be about \$66 for graduate students, and \$60 for undergraduate students.

Because enrollment is limited to 50 students, those interested should make reservations as soon as possible. Communications concerning the Camp should be sent to *John Urban*, Director of Science Camp, New York State College for Teachers, 1300 Elmwood Avenue, Buffalo 22, N. Y. A check or money order, payable to John Urban, Science Camp, should accompany the application for reservation. This sum will be applied to the lodging and meals charge; it will be refunded if a request for cancellation is received before June 15, 1951.

12. WORKSHOP IN EDUCATION OF CEREBRAL PALSIED CHILDREN

Through the joint sponsorship of the United Cerebral Palsy Association Inc. and the State University of New York, New York State College for Teachers, at Buffalo, a workshop dealing specifically with the education of cerebral palsied children will be conducted during the Summer Session.

The course will be designed to give both undergraduate and graduate students an opportunity to observe as well as to participate in a well-rounded academic and non-academic program. The student will function as a student teacher in a team working with cerebral palsied children. The team will be made up of the physician, the school principal, the supervising teacher, as well as an occupational therapist, physical therapist and speech therapist.

The program is limited to thirty students who will be notified of their acceptance or rejection by June 15, 1951.

All classes will be held in Public School #84, on the Meyer Memorial Hospital Grounds on Grider Avenue. It will meet daily, Monday through Friday, from 8:00 A.M. until 12:30 P.M. Six semester hours credit. *Dr. Maurice Fouracre* and his staff.

13. GRADUATE WORKSHOP IN ELEMENTARY EDUCATION

The Workshop has proven a pleasant and profitable professional experience for teachers and administrators who wish to devote a summer to solution of a problem arising out of their own situations. This technique is particularly appropriate for mature graduate students.

A carefully selected, competent staff of consultants who have demon-

strated ability to provide assistance in attacking instructional and administrative problems will again provide a well-organized Workshop in Elementary Education in the 1951 Summer Session at Buffalo.

Additional resources available to participants include a carefully selected library of basic references, courses of study, visual aids, demonstrations in the summer laboratory school, and the opportunity to work cooperatively with other teachers and administrators who are attacking similar problems.

The Workshop emphasizes a democratic and informal atmosphere in its organization. The effort is made at all times to demonstrate the best current practices and to apply them to study at the Graduate level.

Registration is open to graduate students for six semester hours credit.

CURRICULA

I. General Elementary Curriculum. Candidates desiring to earn credit on the General Elementary curriculum toward their degree may do so by electing the proper courses. Care should be taken that subjects elected apply on the desired curriculum and form the proper sequences. If in doubt, consult the Director of the Summer Session or the Registrar.

II. Curriculum for Teachers in Service. In the arrangement of our Summer Session offerings, special thought is always given to the needs of the teacher in service. While many of these will be desirous of working toward the degree, there will be some who wish, primarily, to improve their professional preparation for their work. For such, there will be found listed among the various courses much that will be of interest. Such courses as Reading Clinic, Kindergarten Education, Music for Children, Children's Literature, Creative Art Workshop are offered for this purpose.

III. Curriculum for Elementary School Principals. For the past nineteen years Teachers College has been developing a program for the training of Elementary School Principals. Several courses selected from this program are offered in the summer session. It is hoped that these will appeal to a number of active and prospective principals. These courses will provide credit toward the State requirements for the certification of Elementary School Principals. Changes in Requirements for Elementary School Principals' Certificate became effective January 1, 1944. For information write Division of Teacher Certification, State Education Department, Albany, N. Y.

IV. Courses Approved for Certification of Teachers of Handicapped Children. There is available to in-service teachers, a program of special education which leads to State certification in these fields: teaching of mentally deficient children; orthopedi-

cally handicapped; partially sighted; speech defective; and hard of hearing.

V. The Graduate Division. Graduate work leading to the degree Master of Science in Education will be offered during the Summer Session in the field of Elementary Education and in the special fields of Art Education, Education for Handicapped Children, Home Economics and Industrial Arts. For complete statement of the graduate program see pages 30 to 36 of this bulletin.

LIBRARY FACILITIES

The college library is located on the second floor of the Administration Building. With the exception of bound periodicals, the entire collection is on open shelves making library materials easily accessible to the student. Adjacent to the reading room is the Laboratory of Instructional Materials, where textbooks from the different publishers and other materials pertaining to teaching are available.

The children's library is located on the second floor of the School of Practice.

All library services are under the direction of trained librarians.

Library hours are announced at the beginning of the summer session.

The city of Buffalo offers extensive resources to the students and faculty of the college. The Buffalo Public Library, the Grosvenor Library, the Library in the Albright Art Gallery and the Buffalo Museum of Science cordially invite students and faculty to use their resources.

PREPARATION OF LABORATORY SCHOOL TEACHERS

If you are an experienced elementary teacher with a bachelor's degree, do you want to teach in the elementary school connected with a teachers college? The demand for such teachers in our New York colleges is strong. The salaries for these positions often exceed those in public schools and the professional stimulations in such situations are important for ambitious teachers.

The summer demonstration school of this college offers you the opportunity to participate in and to assist in directing the practical activities of teachers-in-preparation under the direction of a strong faculty of experienced teachers. In addition, you may study the work of the laboratory school and its relation to the entire teacher education program. During the past two summers six persons have taken advantage of this program; five of these persons are now employed as elementary teachers in colleges.

Write Anthony Milanovich, Director of the Summer Demonstration School, for details.

DEMONSTRATION SCHOOL

A complete elementary school, kindergarten through grade seven, is an integral part of our summer session program. It is staffed by Anthony Milanovich, as Director, members of our regular faculty, teachers from local and neighboring schools, and visiting teachers from out of state.

Children for this school are recruited from local and suburban schools and from students of the summer session whose children desire to attend.

Opportunities for observation and participation are offered the registered students. Specialists frequently use the facilities of the school for demonstration purposes.

Teachers not registered in the summer session are invited to visit our demonstration school, if they are interested in observing modern methods and techniques of teaching. Those interested should write to the Director.

THE ACCELERATED PROGRAM

There will be an accelerated program for students enrolled in the General Elementary Division. This program will extend from July 2 to August 24, a period of eight weeks. Students, by taking this program, may reduce their four year program as much as one year, thereby completing the regular four year college course in three calendar years. Freshmen, sophomores and juniors now enrolled and who are doing highly satisfactory work may register for this program.

An entering group of freshmen will be admitted in July if twenty-five or more indicate a desire to take advantage of this opportunity.

No accelerated program will be offered this summer for the Industrial Arts Division. This phase of the program has been discontinued because of our decrease of veterans and the loss of men to the military services.

EXTRA-CLASS ACTIVITIES

An integral and important part of the 1951 college summer session will be the six convocation programs. These events, open to the student body, faculty and guests, will bring notable platform talent in education, world affairs, literature, drama, and music. Among those who addressed the summer session last year were Dr. William Young, Director of the Division of Elementary Education, State Education Department in Albany; Dr. John Miller, Superintendent of Schools in Great Neck, Long Island; Dr. William A. Brownell, Professor of Education at Northwestern University; and Dr. Charles Anspach, President of Central Michigan College at Mount Pleasant, Michigan. Students were also entertained by the Bob Wells variety show of radio and television talent, and a joint recital by Judy Burganger, pianist and Harry Taub, violinist.

A program of informal student-faculty forums has been a popular feature of previous summer sessions. Last year forums discussed the following topics: "Why Do Forms in Art Change," "Korea: Focus of World War or World Peace?" and "The State University of New York."

In 1951 we will feature again, as we did last summer, workshops and conferences. There will be two week workshops in Elementary Administration, Conservation and Nutrition, also a two-day workshop in Visual Education. Each of these bring to our campus speakers who are authorities in their fields and summer session students are given the opportunity to hear them.

"The Naked City," "Anna and the King of Siam," "The Quiet One," "The House of Seven Gables," "David Copperfield," "The Schumann Story," and "The Good Earth" are but a few of the excellent films shown last year. This summer, with the cooperation of the visual education department, a variety of outstanding films will again be shown.

A number of social events are arranged to help students and faculty become better acquainted. One of the highlights of the summer session is the traditional student-faculty picnic. This is a must on everyone's calendar!

Among the places of interest visited last year were The Bethlehem Steel Co., Buffalo Airport, Veterans Hospital, Niagara Falls, Dunlop Tire and Rubber Corp., National Biscuit Co., a directed tour was made of the Niagara Frontier. Airplane flights over Buffalo and Niagara Falls, an evening at the Grand Island Playhouse, Art Exhibitions, and concerts in Kleinhans Music Hall by the Buffalo Philharmonic Summer Pops Orchestra are included in the schedule of events.

The recreational facilities of the college will be available to all students under competent direction. The swimming pool will be open daily from 2:00 to 4:00 P.M. Golf, tennis, riding, etc. may be arranged in advance for a nominal fee.

The college newspaper, THE RECORD, will be published weekly to keep students informed of activities on campus.

IMPORTANT NOTICES

1. **Consult the Calendar** on page 2 for outline of the complete summer program.
2. **Registration** is on July 2. Accelerated students, graduate students, and all veterans register in the forenoon. Six weeks undergraduate students register in the afternoon.
3. **Admission to the Graduate Division:** Applications for admission to the Graduate Division, in any field of study, should be made in advance preferably before June 15. Write to the Director of the Graduate Division for necessary application forms. Those who have been previously admitted need not apply for registration.

4. **Undergraduate Registration:** No formal application to register for undergraduate classes is required. In-service teachers need only appear on registration day. Students from other colleges should get their program approved in advance by their Deans before registering. Regular session students of this college must get, in advance of registration, a permit from the Dean of the College. No undergraduates of the six-weeks session will be registered before Monday afternoon, July 2.
5. **Veterans:** All veterans who are claiming benefits under the G.I. Bill must not fail to report to Room V109, Vocational Building, Monday, July 2. Representatives of the Veterans Administration will be present.
6. **Convocations:** Ten o'clock each Thursday is reserved for college convocations. Effort is made to obtain outstanding talent for each meeting. All students and faculty are urged to attend.
7. **Recreational and Social Activities** are provided and all are urged to participate. Opportunity for making your wishes known to the directors is provided.
8. **Textbooks and Supplies** essential to your summer session work may be purchased in the College Co-op in the College Union. The College Co-op prides itself with being one of the bright spots of the campus and being stocked with all the student needs.
9. **Meals:** Students may get their meals in the College Union Cafeteria or in the Snack Bar. Convenient hours will be maintained and moderate prices charged.
10. **Rooms:** Students desiring to room in the dormitories should engage their rooms in advance by writing to the Director of the Dormitories.
11. **Money:** Students who come from outside the city to live in Buffalo during the Summer Session will find it possible to transfer their funds by depositing checks in a local bank and receiving their money after collection has been made by the bank. For this service, the bank will make a minimum charge of fifteen cents or more in proportion to the size of the check. American Express Company's or American Bankers' checks commonly used by travelers will be found most convenient. Certified checks issued by banks or personal checks require endorsement or identification and faculty members are not to be expected to render either service. No checks, either for faculty members or students will be cashed at the Financial Secretary's office.
12. **Lockers:** Those wishing lockers should report to the Ticket Booth in the main foyer at the time posted on the door. A person will be in charge to care for you at that time. See Mr. Adessa if you wish a locker in the gymnasium.
13. **Swimming:** The pool will be open from 1 P.M. to 5 P.M. daily for those who wish to swim. Watch the Summer Session Record for a complete pool schedule.

14. **Picnic:** The third Wednesday, at 3:30 P.M., is the traditional date for our summer session picnic. Students and faculty play games, eat and chat together at this time. Reserve the date and watch for further announcements.
15. **Sight-Seeing, Excursions, and Field Trips** are a regular part of our summer session activities. Mr. Wincenc makes plans for all who wish to see the interesting and significant spots of Buffalo and the Niagara Frontier.

GRADUATE DIVISION

On October 19, 1945 the Board of Regents approved the establishment of graduate courses at The State University of New York at Buffalo, State College for Teachers, leading to the degree of Master of Science. These courses, offered during the Summer Session and in Extension classes only, were designed to meet the needs of elementary teachers who are desirous of enhancing their academic qualifications and their professional proficiency and those who are interested in becoming elementary school principals and supervisors. In September 1947, the Graduate program was extended to include courses in the four special Divisions of Home Economics, Industrial Arts, Art Education and Education for Teachers of Handicapped Children.

1. Objectives and nature of graduate work:

- A. To continue preparation in elementary education or in the fields of special education for the purpose of extending and supplementing professional knowledge and skills.
- B. To offer an opportunity to study another form of educational service in preparation for changing to other types of service—e.g., from classroom teaching to administration or vice versa.
- C. To provide training and experience in the field of educational research in order to foster more highly specialized knowledge in a chosen field.

2. Graduate work limited to Summer Session and Extension Department:

At present there will be no graduate work offered during the regular college 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 the Extension Department classes.

3. Admission requirements:

- A. Students must hold an approved Bachelor's Degree and be eligible to teach in the elementary field or in the field of specialization. An approved Bachelor's Degree is a degree from a teachers college accredited by the American Association of Colleges of Teacher Educa-

tion; or from a teachers college, college or university accredited by the appropriate regional accrediting agency, or on the accredited or approved list of either the state board of education, or the state university of the state in which the institution offering the degree is located.

Students holding a Bachelor's Degree from institutions not in the above mentioned approved or accredited list may, when their qualifications are strong, be admitted to graduate courses, but graduate status will be withheld until ability to do acceptable graduate work has been demonstrated.

B. All students must have demonstrated ability to do graduate work as measured by:

- a. Undergraduate scholastic average of 2.3 or higher, except in those cases where extenuating circumstances indicate justifiable modification. In cases where it seems advisable to make exception to the undergraduate scholarship requirement, applicants will be advised to prove their fitness for admission to graduate study.
- b. An acceptable teaching record as determined by a confidential statement from the applicant's Superintendent or Principal.
- c. Evidence from persons able to judge the applicant's fitness for admission to undertake graduate study.
- d. Other evaluation measures as may be prescribed by the Graduate Council.

4. Application for admission to Graduate Division:

- A. Secure admission blank from the office of the Director of the Graduate Division, which blank will outline fully the procedure to be followed.
- B. The application blank and all other data required must be filed in the office of the Director of the Graduate Division at least one month before the registration date upon which you wish to begin graduate work.
- C. If you do not hold your Bachelor's degree from The State University of New York at Buffalo, write to the college which granted your degree, and ask that an official transcript be mailed to the Director of Graduate Division, State University of New York at Buffalo, State College for Teachers, 1300 Elmwood Avenue, Buffalo 22, N. Y.

5. Standards for a graduate degree:

- A. The quantitative requirement for the Master of Science degree shall be the completion of thirty-two semester hours of graduate study.
- B. Residence requirements: "A candidate for the degree of Master of Science may offer, for credit, not more than 12 semester hours in approved non-residence courses if he is a graduate of the college at which he is a candidate. He may offer not more than eight semester hours of non-residence courses if he is a graduate of another college. In all cases, however, such graduate study must be similar in scope and content to courses offered by the teachers college, and

must form a coherent part of the total program of preparation to be completed by the student. In any case, the last sixteen hours preceding the granting of the Master's Degree must be taken in residence at The State University of New York at Buffalo, State College for Teachers.

C. Five summer sessions of six weeks each shall be regarded as the usual period of attendance for the completion of the thirty-two hour requirement for the Master of Science degree. This period of time may be shortened by attendance in the classes of the Extension department.

D. A regularly employed public school teacher will not be permitted to receive graduate credit for more than four semester hours in one semester of Saturday or Extension courses.

In the Summer Session, a graduate student may be permitted to carry a maximum of one hour of credit per week, that is for two weeks' work he may receive a maximum of two (2) credit; for six weeks' work, six (6) credits; for eight weeks' work, eight (8) credits.

E. Credit will not be given for courses completed in another college or university more than seven years prior to registration in the Graduate Division of The State University of New York at Buffalo, State College for Teachers. A candidate for the Master's Degree shall satisfy all the prescribed requirements for said degree within six years from the date of matriculation.

6. Admission to Candidacy:

Admission to candidacy for the degree is dependent upon:

A. The completion of at least six semester hours in graduate courses.

B. A cumulative average of "B" in courses accepted for graduate credit. No courses in which a mark of "D" is received will be accepted for graduate credit. Not more than nine (9) semester hours of "C" work will be accepted towards a degree.

C. A recommendation from the adviser of the candidate.

D. A comprehensive written or oral examination may be required upon the recommendation of the adviser or the Admissions Committee.

7. **Special students** who do not intend to apply for admission to candidacy may register for courses in the Graduate Division. However, these (non-matriculating) special students are limited to a total of 12 hours of graduate credit.

8. Registration Fees:

Registration for Graduate Division classes in Summer Session will be held July 2. Please report first to the Auditorium at 9:00 A.M. for Assembly and further instructions. Graduate Department fees are \$10.00 per credit hour.

9. Elementary Teaching Certification for Liberal Arts College Graduates:

Due to the extreme shortage of elementary teachers, the State Education Department has approved a plan whereby college graduates may enter an intensive training program to prepare for general elementary school teaching. The completion of a minimum of 30 semester hours, on the graduate level, 24 hours of which shall be in education courses approved for elementary school teaching, and evidence of satisfactory teaching, as determined by an approved evaluation program, will entitle the student to a permanent certificate to teach in the elementary grades.

This program has been inaugurated to help relieve the current teacher shortage. It has been planned so that interested college graduates may register in the Graduate Division for certain specified Saturday Extension courses and Summer Sessions. Satisfactory completion of prescribed courses in a Summer Session will entitle the college graduate to a renewable certificate valid for one year. Additional renewals will be granted upon evidence of continued summer session study and satisfactory teaching, upon the request of the employing school official.

If the student wishes to complete the requirements for the Master of Science Degree, 8 hours of graduate study, elected under the guidance of the Graduate Division of this college, will be required in addition to the 24 hours of required courses in elementary education. All college graduates interested in this program for certification in elementary school teaching, should secure application blanks and complete instructions for registration as soon as possible.

The following is the curriculum for Certification of Liberal Arts Graduates:

Intermediate and Upper Grade Group

Workshop in Elementary Education (Summer Session only)	6 Sem. Hrs.
Seminar in Elementary School Problems (Emphasis on Science, Mathematics and Language Arts)	3 Sem. Hrs.
Creative Arts Workshop (Music and Art)	3 Sem. Hrs.
Workshop in Child Development (Summer Session only)	6 Sem. Hrs.
Problems in Elementary School Curriculum	3 Sem. Hrs.
Seminar in Elementary Education	3 Sem. Hrs.
Electives	6 Sem. Hrs.
	30

Kindergarten-Primary Group

Workshop in Elementary Education (Summer Session only)	6 Sem. Hrs.
Kindergarten Education	3 Sem. Hrs.
Psychology of the Pre-School Child	3 Sem. Hrs.
Seminar in Elementary School Problems (Emphasis on Language Arts, Science, Mathematics)	3 Sem. Hrs.
Music and Art in Elementary Education	3 Sem. Hrs.
Workshop in Child Development (Summer Session only)	6 Sem. Hrs.
Electives	6 Sem. Hrs.
	30

THE GRADUATE CURRICULUM

(1) GENERAL ELEMENTARY

(A) For the elementary teacher:

- 6 Semester Hours—Workshop in Elementary Education.
- 3 Semester Hours—Seminar in Elementary Education.
- 6 Semester Hours—English and/or Social Studies.
- 6 Semester Hours—Academic electives.
- *2-6 Semester Hours—Research course, project, or Masters' thesis.
- 5-9 Semester Hours—Unrestricted electives. (Maximum of 16 hours in education courses, including research course, project, or thesis.)

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(B) For the elementary principal or supervisor:**

- 6 Semester Hours—Workshop in Elementary Education.
- 3 Semester Hours—Seminar in Elementary Administration.
- 3 Semester Hours—Supervision.
- 6 Semester Hours—English and/or Social Studies.
- 2-4 Semester Hours—Academic electives.
- *2-6 Semester Hours—Research course, project, or Masters' thesis.
- 4-10 Semester Hours—unrestricted electives.

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Total credit requirements: 32 semester hours.

* Each candidate, after conference with his or her advisor, may select one of the following requirements: (1) A course in research techniques and interpretation of research materials, 2 hours credit; (2) a project in the field of Elementary Education, 4 hours credit; or (3) a Master's thesis, 6 hours credit.

** Program as outlined is adequate to meet elementary principals provisional certificate but those desiring to qualify for elementary supervisory certificate should complete a minimum of 6 hours in supervision courses using unrestricted electives for the additional 3 hours credit.

(2) HOME ECONOMICS EDUCATION

Total requirements: 32 semester hours.

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|------------|---|-------------------------|
| Group I. | Advanced Technical Courses | 12 Hours maximum |
| | Family Life (including Home Management, etc.) | 2-6 Sem. Hrs. |
| | Foods and Nutrition and/or Clothing and Textiles | 2-6 Sem. Hrs. |
| Group II. | Advanced Courses Dealing with Problems of Home Economics Education | 10 Hours maximum |
| | Seminar in Home Economics Ed. required | 3 Sem. Hrs. |
| | Workshop in Home Economics Ed. | 3-6 Sem. Hrs. |
| | or | |
| | Electives by Advisement | 2-6 Sem. Hrs. |
| Group III. | Advanced Courses in General Areas | 10 Hours minimum |
| | Social Studies | 2 Sem. Hrs. |
| | Science and/or Art | 2-4 Sem. Hrs. |
| | Unrestricted elective | 4-6 Sem. Hrs. |

Each candidate, after conference with her advisor, may select one of the following requirements: (1) A course in research techniques and interpretation of research materials, 2 hours credit (2) a project in the field of Home Economics, 4 hours credit; or (3) a Master's thesis, 6 hours credit. Credit may be applied to Group I or Group II, or may be divided between these two groups, depending upon the nature of the work done.

(3) INDUSTRIAL ARTS EDUCATION

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|---|-------------------------|
| 1. Advanced Technical Courses | 12 Hours maximum |
| a. Specialization in Shop Laboratory | 2-4 Sem. Hrs. |
| b. Workshop in Industrial Arts Laboratory | 2-4 Sem. Hrs. |
| c. Seminar in Industrial Arts Education | 2-4 Sem. Hrs. |
| d. Field Studies in Industrial Areas | 3-6 Sem. Hrs. |
| 2. Advanced Courses dealing with Problems Related to Industrial Arts | 10 Hours maximum |
| *a. Research techniques, project, or Master's thesis | 2-6 Sem. Hrs. |
| b. Workshop in Industrial Arts Education | 2-4 Sem. Hrs. |
| c. Contemporary Labor Problems and Legislation | 2-4 Sem. Hrs. |
| d. Occupational Activities for the Handicapped | 2-4 Sem. Hrs. |
| e. Electives by advisement (in substitution for b, c, and d) | 2-6 Sem. Hrs. |
| 3. Advanced Courses in the General Areas | 10 Hours minimum |
| a. English | 2-4 Sem. Hrs. |
| b. Social Studies | 2-4 Sem. Hrs. |
| c. Mathematics and/or Science | 3-6 Sem. Hrs. |
| d. Unrestricted electives | 3-6 Sem. Hrs. |

Total requirements: 32 semester hours.

* Each candidate, after conference with his advisor, may select one of the following requirements: (1) A course in research techniques and interpretation of research materials, 2 hours credit; (2) a project in the field of Industrial Arts Education, 4 hours credit; or (3) a Master's thesis, 6 hours credit.

(4) ART EDUCATION

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|---|-----------------------------|
| 1. Graduate Technical Courses: | 12 Sem. Hrs. Maximum |
| 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, Painting, Graphic Arts | 2-6 Sem. Hrs. |
| Art 508. Graduate Studio in Design and Spatial Organization | 2-6 Sem. Hrs. |
| Art 509. Graduate Studio in Crafts | 2-6 Sem. Hrs. |
| Art 510. Graduate Studio in Photography | 2-6 Sem. Hrs. |
| Art 526. Special Study | 2-4 Sem. Hrs. |
| *Ed. 575. Research Techniques (2 hrs.), Art 550 Project (4 hrs.) or Art 525 Master's thesis (6 hrs.) | 2-6 Sem. Hrs. |
| Graduate Courses in the Practical Arts for which the students are qualified | 2-6 Sem. Hrs. |
| 2. Graduate Courses in Related Fields: | 10 Sem. Hrs. maximum |
| 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 526. Special Study | 2-4 Sem. Hrs. |
| *Ed. 575. Research techniques (2 hrs.), Art 550 Project (4 hrs.) or Art 525 Master's thesis (6 hrs.) | 2-6 Sem. Hrs. |
| Graduate Courses in Psychology and Education | 2-6 Sem. Hrs. |
| 3. General Education Graduate Electives: | 10 Sem. Hrs. minimum |
| Graduate courses in the Fields of Music, English, Social Studies, Science and Mathematics, by advisement. | |

* Required courses. Each candidate, after conference with his advisor, may select one of the following requirements: (1) Ed. 575, a course in research techniques and interpretation of research materials, 2 hours credit; (2) Art 550, a project in the field of Art Education, 4 hours credit; or (3) Art 525, a Master's thesis, 6 hours credit. Total requirement: 32 semester hours.

(5) EDUCATION FOR HANDICAPPED CHILDREN

A. Education of Mentally Retarded Children:

- Ed. H. 501. Workshop in Education of Mentally Retarded Children 6 Sem. Hrs.
- Ed. H. 511. Seminar in Education of Mentally Retarded Children 2 Sem. Hrs.
- Ed. H. 521. Guidance of Mentally Retarded Children 2 Sem. Hrs.
- *Ed. H. 541 *Psychology of Handicapped Children 2 Sem. Hrs.
- **Ed. 575 Research course (2 hrs.), Ed. H. 550 Project (4 hrs.), or Ed. H. 525 Master's thesis (6 hrs.) 2-6 Sem. Hrs.
- English and/or Social Studies as required by Graduate Department 6 Sem. Hrs.
- Academic elective as prescribed by the Graduate Department 6 Sem. Hrs.
- Unrestricted electives 2-6 Sem. Hrs.

B. Education of Orthopedically Handicapped Children:

- Ed. H. 502. Workshop in Education of Orthopedically Handicapped Children 6 Sem. Hrs.
- Ed. H. 512. Seminar in Education of Orthopedically Handicapped Children 2 Sem. Hrs.
- Ed. H. 522. Guidance of the Orthopedically Handicapped 2 Sem. Hrs.
- *Ed. H. 451. *Psychology of Handicapped Children 2 Sem. Hrs.
- **Ed. 575. Research course (2 hrs.), Ed. H. 550 Project (4 hrs.), or Ed. H. 525 Master's thesis (6 hrs.) 2-6 Sem. Hrs.
- English and/or Social Studies as required by Graduate Department 6 Sem. Hrs.
- Academic electives as prescribed by the Graduate Department 6 Sem. Hrs.
- Unrestricted electives 2-6 Sem. Hrs.

C. Education in Speech Correction:

- Ed. H. 503. Speech Correction and Clinic 3 Sem. Hrs.
- Ed. H. 513. Seminar in Speech Science 3 Sem. Hrs.
- Ed. H. 523. Applied Phonetics 2 Sem. Hrs.
- Ed. H. 533. Seminar in Speech Pathology 2 Sem. Hrs.
- Ed. H. 535. Mental Measurement 2 Sem. Hrs.
- *Ed. H. 541. *Psychology of Handicapped Children 2 Sem. Hrs.
- **Ed. 575. Research course (2 hrs.), Ed. H. 550 Project (4 hrs.) or Ed. H. 525 Master's thesis (6 hrs.) 2-6 Sem. Hrs.
- English and/or Social Studies as required by Graduate Department 6 Sem. Hrs.
- Academic elective as prescribed by the Graduate Department 6 Sem. Hrs.
- Free Electives 2-4 Sem. Hrs.

* Note: Ed.H. 541—This course is required by the State Education Department for certification to teach handicapped children. Students who have received certification prior to entrance upon graduate study, will not be required to take Ed.H. 541.

** Each candidate, after conference with his advisor, may select one of the following requirements: (1) Ed. 575, a course in research techniques and interpretation of research materials 2 hours credit; (2) Ed.H. 550, a project in some field of Education for Handicapped Children, 4 hours credit; or (3) Ed.H. 525 a Master's thesis, 6 hours credit. Total requirements: 32 semester hours.

D. Education of Hard of Hearing Children.#

E. Education of Partially-sighted Children.#

Make every effort to have application blank and all other data required in the hands of Dr. Robert E. Albright, Director of the Graduate Division, The State University of New York, State College for Teachers, Buffalo 22, N. Y., before June 1st for the 1951 Summer Session.

If interested in Graduate work in the fields of Hard of Hearing Children and Partially-sighted Children please write to Dr. Maurice Fouracre, Director of the Department of Education for Handicapped Children, The State University of New York at Buffalo, State College for Teachers, Buffalo 22, N. Y., for further information.

DESCRIPTION OF GRADUATE COURSES TO BE OFFERED IN SUMMER SESSION 1951

I. General Elementary Education

1. EDUCATION

Ed. 500s. The Workshop in Elementary Education. Participants in the Workshop are encouraged to work on individual problems which have been encountered in actual practice. Through individual counseling and small interest groups an attempt is made to guide each student in his efforts to solve his problems. The Workshop is further characterized by a general seminar, and wide use is made of the demonstration school. The Workshop is required of all students registered for the degree of Master of Science in Education. The enrollment is limited. 8:30 to 3:00 daily. Six semester hours credit. Mr. Bradley, Mr. Conant, Miss Heffernan, Miss Martorana, Miss O'Brien, Mrs. Ulery.

Ed. 500 As. Workshop in Elementary Education. (Liberal Arts Graduates Only) The Intensive Training Workshop in Elementary Education will emphasize (a) child development, (b) elementary methods and materials, (c) preparation of an individual report. Opportunity will be presented for Workshop members to have experience with children in the Demonstration School under the guidance of experienced teachers. The course is required of all students who register in the Intensive Teacher Training Program. Six semester hours credit. Mrs. Elmer, Mrs. Breckon, Mrs. Riggs, Mrs. Schreiner, Miss Stephenson, Mr. Webster.

Ed. 501s. Seminar in Elementary Education. An attempt is made to guide the graduate student to increase his abilities and to extend his willingness to use scientific educational research in solving problems in elementary education. Problems to be considered are: (1) the nature of scientific educational research, and (2) special problems selected by individual students from the area of elementary education. Eight class hours per week. Three semester hours credit. Mr. Crayton.

Ed. 501As. Seminar in Elementary Education. (For Intensive Teacher Training Program only) See 501s. above for description. Eight class hours per week. Three semester hours credit. Mr. Crayton.

Ed. 502s. Supervision. The nature and scope of supervisory services; basic principles applicable to supervision: determining the supervisory program on factual study of pupil and teacher needs; opportunities for investigation and research in elementary education: critical evaluation of current devices for studying learning situation; practical application of principles of teaching, principles of learning, principles for the selection and organization of subject-matter to teaching-learning situation: selection and improvement of instructional supplies, texts and equipment: teacher growth through participation in curriculum development, teacher-supervisor conferences, directed visitation and demonstration teaching; contributions of research to content and method in elementary school subjects.

Open to principals, supervisors and experienced teachers. Eight class hours per week. Three semester hours credit. Mr. Pugsley.

Ed. 504s. Administration of the Elementary School. New York State educational system; legal aspects of school administration; nature and functions of school boards; educational finance in New York State; business duties of the principal; the principal as purchasing agent; management of extra-classroom activity funds: identification of the speech, vision, hearing and predelinquent deviates; youth programs: teacher selection, employment, assignment, tenure and dismissal: building management: pupil transportation: pupil accounting. Ed. 504 may precede or follow Ed. 503. Open to principals, supervisors and experienced teachers. Eight class hours per week. Three semester hours credit. Mr. Pugsley.

Ed. 506s. Philosophy of Education. An attempt is made to guide the student to study critically certain principles underlying educational practices and to formulate a philosophy for his own teaching procedures. Major problems to be considered are: (1) changing conceptions of education, (2) education's responsibilities in a democratic society, (3) the nature of reflective thinking and its educational implications, and (4) some essential phases of a teaching procedure suggested by the democratic concept of education and other concepts discussed. Elective. Eight class hours per week. Three semester hours credit. *Mr. Sloan.*

Ed. 511s. Music and Art in Elementary Education. Activities and experiments in various art materials suitable for elementary grades with emphasis on new processes and procedures. Also designed to meet the classroom teachers need in the field of music. Eight class hours per week. Three semester hours credit. *Mrs. Heyman, Miss McMahon.*

Ed. 512s. Seminar in Child Development. (For Intensive Teacher Training Program Only) Study of the growth and development of children with particular reference to the elementary school years. Consideration of needs of teachers in understanding and guiding child growth in the mental, social, physical and emotional areas. Opportunity for individual and group work on specialized problems. Field trips and observations in classrooms. Open only to Liberal Arts graduates who have had Workshop in Elementary Education. Six semester hours credit. *Mrs. Penn.*

Ed. 514s. Diagnostic and Remedial Techniques in the Elementary School Subjects. (For Intensive Teacher Training Program Only) Studies of current practices, concepts, and principles governing individual problems of learning in the elementary school subjects. Opportunity will be provided for the study of topics of interest to students in an attempt to help the teacher better evaluate and understand the learning needs of children. Tests, research, techniques of diagnosing children's abilities, and procedures to remedy learning problems will be discussed. The course will emphasize a practical, usable approach to the learning problems of children in the elementary school grades. Eight class hours per week. Three semester hours credit. *Mrs. Gates.*

Ed. 515s. Seminar in Early Childhood Education. Study will center around the implications of child psychology for curriculum development for children from four to six years, three to eight years. The course will provide for discussion, observation, and evaluation of teaching techniques and procedures, as well as materials and equipment. Attention is given to child-parent-community relationships, the significance of play in learning, the role of the teacher as a guidance person, and the place of kindergarten in the elementary school. Opportunity to work on individual curriculum problems will be provided. Eight class hours per week. Three semester hours credit. *Miss Jamison.*

Ed. 520s. Workshop in Elementary School Administration and Supervision. Participants work during the 10 day period, July 5 through July 14, under seminar leaders selected from the ranks of outstanding principals and supervisors. This year the emphasis of the workshop will be on how teachers and administrators can work together to improve the school program. Some areas of study suggested by cooperating administrators are: the selection, induction, and guidance of new teachers; the development of instructional materials; the guidance of pupil behavior and relief of current tensions in school and family life. Nationally recognized educators are brought to the workshop as consultants. Each student is encouraged to define and to study problems of his own particular concern. The enrollment is open to principals, supervisors, and to teachers preparing for certification as elementary school principals and supervisors. 10:00 to 12:15 and 1:30 to 3:30 daily. Two semester hours credit. *Mr. Sherrie* and staff.

Ed. 522s. Psychology of the Pre-School Child. The important phases of development from infancy through the pre-school and early school years. The motor, language, social, emotional and intellectual development of the growing child is considered in relation to his physical, social and cultural environment.

Emphasis is placed upon experimental findings in relation to these topics. Consideration is given to problems in behavior and to methods of guidance. Observation of children will be scheduled. Eight class hours per week. Three semester hours credit. *Miss Jamison.*

Ed. 523s. Principles and Techniques of Guidance. This is a basic course designed for teachers and others interested in the guidance function in the public schools. Consideration will be given to the present day objectives and principles of guidance; the function of the classroom teacher, the principal, the visiting teacher, the counselor, and other specialists in a guidance program; guidance services, including counseling, record keeping, group conferences, coordination of guidance activities, contacts with parents, community agencies, etc. Eight class hours per week. Three semester hours credit. *Mr. Sloan.*

Ed. 533s. Workshop in Visual Education. A course related to the problems of organizing and operating a visual education program in the public schools. The psychological justifications of the audio-visual forms of instructional enrichment are identified and studied. The significant research concerning the improvement of practices through visual aids is explored and appraised. The problem of teacher attitude and co-operation is recognized and solutions sought. The problems of housing, financing, and co-operative ordering are isolated and studied. The problem of evaluation of both individual films and other visual and auditory aids and the total visual instructional program is a major concern of this course. Elective for graduate students and for senior undergraduate students who recognize its value in their immediate teaching plans. Eight class hours per week. Two laboratory hours to be arranged. Three semester hours credit. *Mr. Smay.*

Ed. 564s. 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 driver education on the secondary level before registering. Class meets four hours per week for class room instruction and six hours per week for research, testing and evaluation. Two semester hours graduate credit. *Mr. Palmeter.*

Ed. 575s. Research Methods and Techniques. This course will be developed largely around the needs of the students in developing an understanding of the different methods and types of research in studying education problems; reviewing the research literature on problems for study; using bibliographical resources pertinent to a problem; collecting, handling, and interpreting evidence; constructing tables, graphs and charts; using and understanding statistical terminology to be able to read educational literature intelligently. Eight class hours per week. Three semester hours credit. Required of all graduate students not writing a project or a thesis. *Miss Martorana.*

Ed. 585s. Reading Clinic. Clinic hours 9:10 to 1:00. The major objective of this course is to prepare teachers for carrying on Remedial Reading programs in their own schools or classrooms.

Lectures will deal with identification of reading disabilities, causes, and types of disabilities, methods and materials of diagnosis and remedial instruction in reading and spelling, maladjustments and ways of dealing with them, prevention of reading disability, and setting up of effective remedial programs in schools. Ways of improving the students' own reading will be presented.

Laboratory. Each student will make a diagnosis of one child's reading disability and give needed instruction.

9:00 to 10:00 Diagnosis and instruction of pupils.

10:00 to 12:00 Lectures and demonstrations by the instructors and discussion of problems which arise.

12:10 to 1:00 Interpretation of pupil needs and planning of remedial instruction.

Open to undergraduates. Six semester hours credit. *Mrs. Dunklin, Dr. Dunklin.*

Ed. 590s. Preparation of Laboratory School Teachers.

NOTE: Opportunity to study intensively the laboratory activities for teacher education exists. Mr. Milanovich. See statement in this bulletin, p. 26.

2. ENGLISH

Eng. 503s. American Regional Literature. An investigation of the literature of certain geographic and cultural areas of the United States—New England and Eastern, Southern, and Western. Folkways in American letters, local color and the use of regional materials, especially in fiction. Eight class hours per week. Three semester hours credit. Mr. Greenwood.

Eng. 505s. Studies in the Novel. A brief history of the novel in England, followed by a more extended study of the novel in the 19th century. Readings from major novelists, special research by each student in some aspect of the novel or in the work of one of the 19th century novelists. Eight class hours per week. Three semester hours credit. Mr. Gragg.

Eng. 514s. Children's Literature. A survey of the field of literature for children with emphasis upon recent trends and research in areas of children's interests and needs. Each student will make an individual study and present an annotated bibliography. Eight class hours per week. Three semester hours credit. Mrs. Ganey.

Eng. 512Cs—Eng. 516s. Students taking the Friendship Studytour to Europe for academic credit may elect either English 512Cs: Literature of Continental Europe in English Translation (Emphasis on 19th and 20th century novels); or English 516s: Special Feature Writing; or both. Each may be taken alone for 8 credits; or one may elect to take both, each for 4 credits.

Eng. 512Cs. Literature of Continental Europe in English Translation. (Emphasis on 19th and 20th century novels). A study of fiction and non-fiction dealing with the people of the countries on the 1951 Friendship Studytour: England, Holland, France, Switzerland, and Italy. Purpose is to help studytour members understand and appreciate these countries. To some extent, the program of reading will depend on the interest of each studytour member. Eight semester hours credit. Mr. Gronewold.

Eng. 516s. Special Feature Writing: European Tour. This course is designed for the graduate and undergraduate students taking the European tour (see page 17 for credit. After selecting some phase of the tour for special study, each student will write a series of articles, preferably for publication.

Enroute to Europe the group will meet daily on board ship to consider problems related to these articles: suitable subjects, gathering material, and methods of presenting this material. On the return trip there will be some group meetings and many individual conferences dealing more specifically with the problems of getting the material organized and into effective expression. Emphasis will be made on that kind of expression which may make the article suitable for publication in current magazines. The completed articles will be due October 1. Eight graduate or undergraduate credits may be earned upon the satisfactory completion of this written work. Mr. Gronewold.

3. GEOGRAPHY

Geog. 502s. Map Interpretation for Teachers. A course designed to provide knowledge of maps and skill in the use of maps needed by all adults and especially by teachers. In addition, study is made of the development of map skills and the use of maps at all levels of elementary education. Experiences will include class lectures, readings, and the use of a variety of maps. Prerequisites: Six hours in geography. Five class hours per week. Two semester hours credit. Miss Worley.

S.S. 507s. Field Course in the History and Geography of New York State. Open to graduates. For description of the course see listing under

Social Studies Graduate Courses, page 42. Three semester hours credit. Mr. Rapp and Mrs. Whittemore.

S.S. 508s. Field Course in Mexican Culture. Open to graduates and undergraduates. For description of the course see listing under Social Studies Graduate Courses, p. 42. Three semester hours credit. Mr. Peterson and Mr. Tetkowsky.

4. MUSIC

Mus. 500s. Music in Education. A survey of materials and practices in present day public school Music Education. An examination of the contributions of the various composers throughout history to our culture; their works and application to public school music. Required readings, listening to records, required attendance at certain concerts, and observation in the School of Practice. Eight class hours per week. Three semester hours credit. Mr. Boyd.

5. SCIENCE

Sci. 501s. Field Studies in Science I. Selected field studies, both group and individual, acquaint the participants with the various areas in which "field studies" may be used. Each individual is expected to cover one or more areas intensively, the emphasis of topics being governed by the needs of the State Elementary Science Syllabus. Ecological relationships are expected to bind the various field studies into one unified program. Elective for Seniors with an average of B in science completed to date and to graduates with six hours of undergraduate science. Ten hours per week. Three semester hours credit. Mr. Fretz.

Sci. 503s. Ecology. Attention is given in this course to the interrelationships existing among living things, and to the relationships between living things and their environment. Consideration is given to such concepts as the relations existing between organisms of the same species; between organisms of different species; between organisms and such factors as temperature, light, soil, moisture and food supply. Ecology may be defined as "scientific nature study". The work will be non-technical, with special attention given to elementary school applications. Readings, term paper and field work. Ten class hours per week and field trips. Three semester hours credit. Mr. Urban.

Sci. 504s. Science Camp. Field work in out-of-doors science for the elementary-school teacher, at Allegany State Park. Experiences in studying interrelationships of living things, identification of plants and animals, and the rocks and geological history of western New York. Offered during the two weeks immediately following summer session. Open to graduates, and to undergraduates who have had Science 101 and Science 201-202, or the equivalent. Two semester hours credit. Mr. Urban, Mr. Harold H. Axtell, and Miss Anna M. Ryan.

Sci. 505s. Conservation Workshop. Attention will be focused on state and national problems of wise use of natural resources, together with the implications of these problems for public education. Conservation of soil, water, wildlife, forests and mineral resources will be studied. Field trips to nearby areas will be conducted; federal and state conservation authorities will assist in presenting the problems. Individual study and development of elementary school curricular materials will be stressed. Two semester hours credit. Graduate and undergraduate credit. Mr. Urban and staff.

6. SOCIAL STUDIES

S.S. 505s. Studies in Contemporary Economic Problems. Discussion of contemporary problems, including international trade, international finance, inflation, labor legislation, problems of labor and management and price levels. A special study will be made by each student of one selected phase. Open to Indus-

trial Arts, Home Economic and General Elementary graduates with the consent of the instructor. Eight class hours per week. Three semester hours credit. *Mr. Albright.*

S.S. 506s. Minority Groups in American Culture. An analysis of the major racial, nationality, and religious minority groups in America. The groups selected are those with the greatest population base. These are treated from the cultural, historical, and familial points of view. Emphasis is placed upon current anthropological and psychological data, on uniformities, differences, prejudices, and discrimination. Prerequisites: 15 hours in Social Studies. Eight class hours per week. Three semester hours credit. *Mr. Hollister.*

S.S. 507s. Field Course in the History and Geography of New York State. The class will travel approximately 1800 miles by motor coach throughout New York State, for the purpose of studying history where it occurred and geography in the field. Attention will be given sources of information that aid in understanding what is seen and training will be given in techniques that make a travel experience meaningful. Open to graduate and upperclass undergraduate students. Three semester hours credit. *Mr. Rapp and Mrs. Whittemore.*

S.S. 508s. Field Course in Mexican Culture. A field trip to Mexico, August 11-26, 1951. The course will emphasize those historical, geographic, and cultural aspects of Central Mexico which furnish appropriate background for an appreciation and understanding of Mexican life. The class will visit Mexico City and environs, Cuernavaca, Taxco, Puebla, and Fortin. Open to graduate and upperclass undergraduate students. Three semester hours credit. *Mr. Peterson and Mr. Tetkowski.*

S.S. 511s. Problems of Contemporary England. Intensive treatment of such selected problems of late 19th and 20th century England as the rise of trade unions, industrial and labor relations, the career of the Labor Party, programs for social democracy, and the changing world position of England. Lectures, discussions, and class reports. The course is especially suited to Industrial Arts students interested in industrial problems and to General Elementary graduates interested in the historical background of contemporary English literature. Registration by permission of the instructor. Eight class hours per week. Three semester hours credit. *Mr. Robison.*

II. Art Education

Art 505s. Seminar in Art Education. Consideration of problems and projects presented by individuals, based on special needs of teachers and supervisors of art in various types of communities and schools. The seeking of solutions in terms of contemporary philosophy, psychology, principles and practices in art and general education. The use of known research and scientific methods in determining programs, policies, and procedures for the art teacher and supervisor. Opportunity for individual and group work on specialized problems, with various members of the graduate staff participating and advising. Required of all Art Education students. Prerequisite: one or more years of teaching. Ten class hours per week. Three semester hours credit. *Mr. Czurlies.*

Art 507s. Graduate Studio in Drawing, Painting, Graphic Arts. Opportunity for individual work in a variety of media. Concentration or spread of experience among these to be determined for each individual according to his background and needs. Studio and outdoor problems, field and gallery trips. Twelve class hours per week for three semester hours credit. Eight class hours per week for two semester hours credit. *Mr. Conant.*

Art 508s. Graduate Studio in Design and Spatial Organization. Opportunity for individualized work in designing with paint and materials. Specialization may be in commercial designing of textiles, wall paper, etc.; lay-out for publications; home planning and furnishing; stage design, industrial design; or other functional or decorative art. Twelve class hours per week, for three semester hours credit. Eight class hours per week for two semester hours credit. *Mr. Hubler.*

Art 509s. Graduate Studio in Crafts. With extensive facilities available for craft work of all kinds, this course is offered to teachers of art, and qualified teachers in other fields to further develop their knowledge and skills in the crafts, and to explore the possibilities of using various three-dimensional media in their school programs. The course offers opportunity for individualized work in woodcarving, wood sculpture, plastics, jewelry, clay and metal work. Twelve class hours a week for three semester hours credit. Eight class hours per week for two semester hours credit. *Mr. Winebrenner.*

Art 510s. Graduate Studio in Photography. Specialization or spread of experience with photographic processes to be determined for each individual according to his background and needs. Opportunity to work on problems of black-and-white, or color photography, as applied to year-book layout, commercial art, the making of teaching aids, and as an art expression. Twelve class hours per week for three semester hours credit. Eight class hours per week for two semester hours credit. *Mr. Truesdale.*

Art 511. Art in the Elementary Curriculum. Especially planned for elementary teachers. Activities and experiments with various art materials, processes, and procedures to consider their application in attaining objectives of elementary education. Organized as a graduate laboratory workshop with opportunity for grade and other teachers to increase their own abilities at expression and creativeness with simple art materials, and to understand their use in developing creative and expressive activities of children. Ten class hours per week. Three semester hours credit. *Mrs. Heyman.*

I.A. 512s. Workshop in Textiles. (See course description under Industrial Arts Graduate courses p. 44).

I.A. 513s. Workshop in Ceramics. (See course description under Industrial Arts Graduate courses p. 44).

III. Education for the Handicapped

Ed. H. 504s. Workshop in Education of Cerebral Palsied Children. Observation and individual participation in a class of cerebral palsied children. Understanding and use of techniques and materials for academic and non-academic curricula. Functional with brain-injured children. Individual and committee reports, class discussions and demonstrations. Daily 8:00 A.M.—12:30 P.M. Public School #84, Meyer Memorial Hospital Grounds. Six semester hours credit. *Dr. Fouracre and staff.*

IV. Home Economics Education

H. Ec. 504s. Problems in Foods and Nutrition. Study of recent research developments in foods and nutrition. Discussion of problems which arise in teaching foods and nutrition to elementary and high school groups. Opportunity will be given for working on problems related to the individual's teaching situation. Eight class hours per week. Three semester hours credit. *Miss Buddenhagen.*

H. Ec. 512s. Seminar in Household Equipment for Home Economics Teachers. Survey and evaluation of recent developments in household equipment. Designed for teachers wishing to include household equipment in one or more units of high school teaching. Opportunity will be given for work to meet the individual's specific needs. Eight class hours per week. Three semester hours credit. *Miss Davis.*

H. Ec. 513s. Workshop in Nutrition Education for the Elementary School. The two-week Workshop is designed for those elementary teachers and supervisors; Homemaking and Science teachers, and others actively concerned with the improvement of the eating habits of children. The program is planned to include (1) the development of plans of work for the subsequent school year by each member of the group, or by members from the same school working together, (2) observation of nutrition activities in the demonstration

school, (3) consultation with members of the Workshop staff, (4) group consideration of common problems. The Workshop will be staffed by Elementary and Home Economics Educators with experience in the field. The group will meet 9:00 to 3:30 daily for two weeks, July 9-20. Two semester hours credit. Graduate or undergraduate. Also non-credit. *Mrs. Walker.*

H. Ec. 515s. Performance Testing of Major Home Appliances. Application of the principles involved in the selection, construction and use of major appliances. Special emphasis is given to problems arising from actual use. Five class hours per week. Two semester hours credit. *Miss Davis.*

V. Industrial Arts Education

I.A. 504s. Workshop and Field Study-Tour of New York State Industry. This program seeks to analyze those factors in New York State Industry which relate to training, employment, safety, and other problems. Factors pertinent to public education on the secondary level will be examined. This workshop study is to cover the Niagara Frontier and a two-week tour of Southern and Central New York for the purpose of a comprehensive viewpoint on the major industries in these sections. Two weeks on campus including industrial trips to industries along the Niagara Frontier. Two weeks on tour. Two weeks Workshop after the tour. Six semester hours credit. *Mr. Cook and Mr. Perkins.*

I.A. 512s. Workshop in Textiles will be a workshop covering the problems in organizing the textiles unit in the industrial program or in a program of craft work, in public schools or adult education. Activity will involve a study of fibers and raw materials, construction of fabrics, dyeing, finishing, and the treatment of fabric surface. Individual initiative will be expected in the design and construction of project material suitable for local requirements. Term problems may be selected dealing with those phases of textiles which are of most immediate value to each individual. Workshop activity will be typical of activity in the laboratory. 3 clock hours daily. Three semester hours credit. *Mr. Strong.*

I.A. 513s. Workshop in Ceramics will include principles and techniques of operation of an industrial arts ceramics program. In addition to basic operations, advanced forming processes, glaze composition, decorative treatments, firing techniques, and kiln construction will be given. Workshop procedure will be typical of activity in the laboratory. Term problems may be selected dealing with those phases of ceramics which are of most immediate value to each individual. 3 clock hours daily. Three semester hours credit. *Mr. Strong.*

DESCRIPTION OF UNDERGRADUATE COURSES

ART

Art 400s. Workshop in Crafts. Studio course in various crafts including: leather work, metal work, ceramics and jewelry. Class and individual instruction with considerable election as to the projects to be undertaken. Twelve class hours per week. Three semester hours credit. *Mr. Winebrenner.*

Art 406s. Creative Art Workshop. Activities and experiments in various art materials suitable for the elementary grades, with emphasis on the newer processes. Organized as a laboratory workshop with opportunity for individual experiment in various media, including water color, powder paint, finger paint, tempera, inks, dyes, crayon, paper, cardboard, wood, cloth, soap, clay, plaster, rubber, plastics, wire, thin metals, yarn and other materials. Twelve class hours per week. Three semester hours credit. *Miss Case.*

Art 408s. Painting. A course in various painting media including oil, watercolor gouache and tempera. Individual instruction with wide variance of approach and theme taking advantage of the creative resources in the community.

Special attention will be given to individuals new to the field as well as concentrated guidance to the experienced. Elective. Twelve class hours per week for three semester hour credits. Eight class hours per week for two semester hours credit. *Mr. Hubler.*

EDUCATION

Ed. 102s. Child Development. This course aims to give students an understanding of the theory and practice of principles underlying proper guidance and adjustment of children to life situations. Discussion will center on the emotional, mental, personal and social development of normal children, causes of deviation from normal behavior and how to overcome such maladjustments. Observations in the campus Demonstration School will be arranged to study and observe children. Eight class hours per week. Three semester hours credit. Prerequisite: Ed. 101 or equivalent. *Mrs. Gates.*

Ed. 307s. Psychology of the Pre-School Child. *Miss Jamison* (See course description under Ed. 522s Graduate Division).

Ed. 308Cs. Seminar in Early Childhood Education. *Miss Jamison* (See course description under Ed. 515s Graduate Division).

Ed. 309s. Diagnostic and Remedial Techniques in Elementary School. *Mrs. Gates* (See course description under Ed. 514s Graduate Division).

Ed. 402s. Seminar in Elementary School Teaching. An attempt is made to guide the student to integrate and to extend the experiences of the education sequence and focus these experiences on the professional character of teaching. Major problems to be considered are: (1) the place of science and philosophy in elementary school teaching, and (2) problems of the classroom teacher in the State of New York. The central aim is to develop ability and willingness to use appropriate study habits and scientific methods of research in solving educational problems in a democratic society. Required of fourth year students in General Elementary Division. This course replaces Principles of Education. Eight class hours per week. Three semester hours credit. *Miss O'Brien.*

Ed. 433s. Audio-Visual Education. A basic audio-visual education course, Education 433s will be offered to undergraduates to provide them with the knowledges and skills that will lay the foundation for effective use of audio-visual materials in their teaching. In this basic course the following problems will be explored: psychological basis for an audio-visual program; equipment and materials orientation; integrating audio-visual methods into a teaching program; coordinating an audio-visual program in a school, securing and making projected materials, models, mockups, etc.; and evaluating a program. While this course is primarily planned for those who have teaching experience, seniors whose interest or background is sufficient will be admitted. Five class hours per week. Two semester hours credit. *Mr. Truesdale.*

Ed. 463s. Driver Education and Safety. Course designed to certificate teachers to instruct in driver education. It consists of behind-the-wheel training, classroom work, and experiences with psychophysical apparatus. Prerequisites: Teacher must be certified on secondary school level. Driver's license in New York State. Four class hours per week. Six driving hours per week. Special Fee—\$4.00. Two semester hours credit. *Mr. Palmeter.*

Ed. 485s. Reading Clinic. *Mrs. Dunklin, Dr. Dunklin* (See course description under Ed. 585s Graduate Division.)

ENGLISH

Eng. 203s. Modern Drama. A study of the chief modern dramatists of Continental Europe, England, and America from Ibsen to the present time. Five hours per week. Two semester hours credit. *Mr. Greenwood.*

Eng. 210s. Children's Literature. A survey of literature written for children. The selection and examination of books for varying age levels,

authors and illustrators, the technique of presenting literature to children by reading and telling stories, contributions in the field of children's poetry. Attention will be given to those units of the English Handbook which relate to this course. Elective for general Elementary Sophomores, Juniors and Seniors. Eight class hours per week. Three semester hours credit. *Mrs. Ganey.*

Eng. 304s. American Literature. Literature as an expression of the American mind. Beginning with Jonathan Edwards and Benjamin Franklin, the course will include Cooper, Irving, Bryant, Poe, Emerson, Thoreau, Hawthorne, Longfellow, Holmes, Lowell, Melville, Whitman, Mark Twain. Some time will be given to Contemporary American Literature. Eight class hours per week. Three semester hours credit. *Mr. Fried.*

Eng. 341s. European Tour. See description under Graduate Courses in English p. 40. *Mr. Gronewold.*

Eng. 407s. Romantic Movement. A study of romantic poetry and prose from their beginnings in the late eighteenth century down to 1832. Particular attention is given to Burns, Wordsworth, Coleridge, Scott, Byron, Shelley, Keats, and to the critics of the period. Elective for sophomores. Five class hours per week. Two semester hours credit. *Mr. Fried.*

Eng. 415s. Shakespeare I. An interpretive and appreciative study of representative comedies and tragedies, including *As You Like It*, *Twelfth Night*, *Hamlet*, *Macbeth*, and *The Tempest*. Elective for juniors and seniors. Eight class hours per week. Three semester hours credit. *Mr. Gragg.*

GEOGRAPHY

Geo. 402s. Economic Geography. A continuation of Geography 101 with emphasis on the agricultural, industrial and commercial aspects of geography. Topics are related to current affairs. Required of all General Elementary Seniors. Elective for others. Prerequisite: Geography 301. Eight class hours per week. Three semester hours credit. *Miss Worley.*

S.S. 507s. Field Course in the History and Geography of New York State. Open to upperclass undergraduate students. For course description see listing under Social Studies Graduate Courses page 42. Three semester hours credit. *Mr. Rapp* and *Mrs. Whittemore.*

S.S. 508s. Field Course in Mexican Culture. Open to undergraduates. For description of the course see listing under Social Studies Graduate Courses, page 42. Three semester hours credit. *Mr. Peterson* and *Mr. Tetkowski.*

HEALTH EDUCATION

Hl. Ed. 402s. Health Protection. School and community health problems; school health services; communicable disease control; water supply and sewage disposal; food sanitation; safety education. Required of General Elementary seniors. Prerequisites: Health Education 201-202; Physical Education 301-302. Five class hours per week. Two semester hours credit. *Mr. Adessa.*

MATHEMATICS

Math. 101s. General Mathematics. Development and classification of numbers, formulas, equations, graphs, functions, the way of geometry, finance and investment, mathematics as a useful growing science. Required of General Elementary freshmen. Eight class hours per week. Three semester hours credit. *Mr. Rodney.*

HOME ECONOMICS

H. Ec. 512s. Seminar in Household Equipment for Home Economics Teachers. *Miss Davis.* See course description under Home Economics Graduate Courses p. 43.

H. Ec. 513s. Workshop in Nutrition Education for the Elementary School. *Mrs. Walker.* See course description under Home Economics Graduate Courses p. 43.

H. Ec. 515s. Performance Testing of Major Home Appliances. *Miss Davis.* See course description under Home Economics Graduate Courses p. 44.

MUSIC

Mus. 305s. Music for Children. A course designed to meet the needs of the classroom teacher in the use of music with emphasis on Nursery, Kindergarten and Primary levels—Songs, Rhythmic activity, the child voice, creative music and instruments, the piano, games and dances, recordings, films, books. Elective for sophomores, juniors and seniors. Eight class hours per week. Three semester hours credit. *Mr. Webster.*

Mus. 404s. The Art of Enjoying Music. An inquiry into the field of music with specific application to the advanced aesthetics of music. Elective for sophomores, juniors and seniors. Five class hours per week. Two semester hours credit. *Mr. Boyd.*

SCIENCE

Sci. 101s. Physical Science I. A survey of three branches of science frequently encountered in the elementary school curriculum. Astronomy, geology and weather are studied with emphasis placed upon such ideas as the size and organization of our solar system; energy transformation and their relationship to weather; processes which have modified and continue to modify the earth's surface. Ten class hours per week including laboratory. Three semester hours credit. *Mr. Arthur.*

Sci. 311s. Geology. A presentation of the results achieved by geologic processes during past ages including life and activity in the various eras. Local fossils, rock formations and geologic history studied in museum and on field trips. Elective for General Elementary sophomores, juniors and seniors. Students in other departments by arrangement with instructor. Prerequisite: Science 101 or its equivalent. Ten class hours per week including laboratory. Three semester hours credit. *Mr. Arthur.*

Sci. 401s. Genetics. Lectures, readings and individual studies on the patterns of inheritance in plants and animals, with special reference to humans. The distinctions and relationships between heredity and environment will be emphasized. Suggestions as to classroom application will be discussed. The importance of genetics in other fields, such as psychology and sociology will be indicated. Prerequisite: A year of biology or the equivalent. Ten class hours a week including laboratory. Three semester hours credit. *Mr. Fretz.*

Sci. 504s. Science Camp. Open to undergraduates. *Mr. Urban* and staff. For description of the course see listing under Science Graduate Courses, p. 41.

Sci. 505s. Conservation Workshop. Open to undergraduates. *Mr. Urban* and staff. For description of the course see listing under Science Graduate Courses, p. 41.

SOCIAL STUDIES

S.S. 304s. American History to 1789. Conditions in Europe influencing the discovery and settlement of the New World; growth of the colonies; causes and significance of the Revolution; establishment of the new government. Elective for juniors and seniors. Eight class hours per week. Three semester hours credit. *Mr. Whitten.*

S.S. 341s. Nationality Groups in American Culture. A study of the social problems and cultural contributions of the immigrant ethnic groups that have furnished the greatest numbers to the American population. Patterns of immigration, immigrant institutions, community life, and legislation are examined. Five class hours per week. Two semester hours credit. *Mr. Hollister.*

S.S. 342s. Expansion of Europe. A study of the motives and agencies involved in the discovery, exploration, and settlement of colonies; the rise of capitalism and mercantilism in Europe; the impact of the industrial revolution; changing attitudes toward colonies; the rise of nationalistic movements among colonial peoples and the effects upon international relations. Covers the period from 1450 to the present. Five class hours per week. Two semester hours credit. *Mr. Robison.*

S.S. 402s. Sociology. The rise and development of culture; cultural change; social organization and social institutions. Required of General Elementary seniors and Art Education seniors. Eight class hours per week. Three semester hours credit. *Mr. Whitten.*

S.S. 507s. Field Course in the History and Geography of New York State. Open to upperclass undergraduates. *Mr. Rapp* and *Mrs. Whittemore.* For description of the course see listing under Social Studies Graduate Courses, page 42.

S.S. 508s. Field Course in Mexican Culture. Open to upperclass undergraduates. *Mr. Peterson* and *Mr. Tetkowski.* For description of the course see listing under Social Studies Graduate Courses, page 42.

SUMMER SESSION PROGRAM

July 2 — August 10, 1951

NOTE—Students should take careful note of the fact that subjects carrying three semester hours of credit must be taken two periods per day in order to secure regular credit. Certain other courses also require double periods. Courses bearing only two semester hours of credit are marked with an asterisk (*).

The number before each course refers to the number of the course as described in the Summer Session catalog; e.g. (Eng. 304s) refers to the course in American Literature.

Students will avoid errors in the selection of subjects by carefully consulting the catalog for statement of courses. Students should avoid taking courses that duplicate previous work and thereby losing credit. If in doubt, consult Faculty members or the Director.

All courses are listed by class periods. The number before each course indicates the year level. Graduate courses are numbered 500 and above; Senior courses are numbered 400-499; Junior, 300-399; Sophomore, 200-299; and Freshmen, 100-199.

ASSEMBLY

There will be two periods per week set aside for Assembly, Monday 10:10-11:00, and Thursday 10:10-11:00.

LUNCH PERIOD

Students must plan for a lunch period in making their elections. The College Union Cafeteria will be open from 10:30-1:30. The Snack Bar will be open continuously throughout the day.

GRADUATE COURSES

FIRST PERIOD — 8:10-9:00

Catalog No.	Name of Course	Instructor
Art. 508s	Graduate Studio in Design and Spatial Organization	Mr. Hubler
Ed. 500s	Workshop in Elementary Education	Mr. Bradley, et al.
Ed. 500As	Workshop in Elementary Education (I.T. T.P.)	Mrs. Elmer, et al.
Ed. 506s	Philosophy of Education	Mr. Sloan
Ed. 512s	Seminar in Child Development	Mrs. Penn
Ed. 514s	Diagnostic and Remedial Techniques in the Elementary School	Mrs. Gates
†Ed. H. 504s	Workshop in Education of Cerebral Palsied Children	Mr. Fouracre, et al.
Eng. 505s	Studies in the Novel	Mr. Gragg
H.Ec. 512s	Seminar in Household Equipment for Home Economics Teachers	Miss Davis
I.A. 504s	Workshop and Field Study-Tour of N. Y. State Industries	Mr. Cook Mr. Perkins
I.A. 512s	Textiles	Mr. Strong
Sci. 503s	Ecology	Mr. Urban
S.S. 505s	Studies in Contemporary Economic Problems	Mr. Albright

SECOND PERIOD — 9:10-10:00

Catalog No.	Name of Course	Instructor
Art 508s	Graduate Studio in Design and Spatial Organization	Mr. Hubler
Ed. 500s	Workshop in Elementary Education	Mr. Bradley, et al.
Ed. 500As	Workshop in Elementary Education (I.T. T.P.)	Mrs. Elmer, et al.
Ed. 501As	Seminar in Elementary Education (I.T. T.P.)	Mr. Crayton
Ed. 502s	Supervision	Mr. Pugsley
Ed. 506s	Philosophy of Education	Mr. Sloan
Ed. 512s	Seminar in Child Development	Mrs. Penn
Ed. 514s	Diagnostic & Remedial Techniques in the Elementary School	Mrs. Gates
Ed. 522s	Psychology of the Pre-School Child	Miss Jamison
Ed. 585s	Reading Clinic	Mrs. Dunklin Mr. Dunklin
†Ed.H. 504s	Workshop in Education of Cerebral Palsied Children	Mr. Fouracre, et al.
Eng. 505s	Studies in the Novel	Mr. Gragg
H.Ec. 512s	Seminar in Household Equipment for Home Economics Teachers	Miss Davis
I.A. 504s	Workshop and Field Study-Tour of N. Y. State Industries	Mr. Cook Mr. Perkins
I.A. 512s	Textiles	Mr. Strong
Sci. 503s	Ecology	Mr. Urban
S.S. 505s	Studies in Contemporary Economic Problems	Mr. Albright

†Daily 8:00 A.M.—12:30 P.M. Public School #84, Meyer Memorial Hospital Grounds.

THIRD PERIOD — 10:10-11:00

Catalog No.	Name of Course	Instructor
Art 507s	Graduate Studio in Drawing, Painting, Graphic Arts	Mr. Conant
Art 511s	Art in the Elementary Curriculum	Mrs. Heyman
Ed. 500s	Workshop in Elementary Education	Mr. Bradley, et al.
Ed. 500As	Workshop in Elementary Education (I.T. T.P.)	Mrs. Elmer, et al.
Ed. 501As	Seminar in Elementary Education (I.T. T.P.)	Mr. Crayton
Ed. 502s	Supervision	Mr. Pugsley
Ed. 512s	Seminar in Child Development	Mrs. Penn
Ed. 522s	Psychology of the Pre-School Child	Miss Jamison
Ed. 575s	Research Methods and Techniques	Miss Martorana
Ed. 585s	Reading Clinic	Mrs. Dunklin
†Ed.H. 504s	Workshop in Education of Cerebral Palsied Children	Mr. Dunklin
Eng. 514s	Children's Literature	Mr. Fouracre, et al.
Geo. 502s	Map Interpretation for Teachers	Mrs. Ganey
H.Ec. 504s	Problems in Foods and Nutrition	Miss Worley
I.A. 504s	Workshop and Field Study-Tour of N. Y. State Industries	Miss Buddenhagen
I.A. 512s	Textiles	Mr. Cook
Mus. 500s	Music in Education	Mr. Perkins
S.S. 506s	Minority Groups in American Culture	Mr. Strong
		Mr. Boyd
		Mr. Hollister

ASSEMBLY

LUNCH PERIOD

FOURTH PERIOD — 11:10-12:00

Catalog No.	Name of Course	Instructor
Art 507s	Graduate Studio in Drawing, Painting, Graphic Arts	Mr. Conant
Art 509s	Graduate Studio in Crafts	Mr. Winebrenner
Art 511s	Art in the Elementary Curriculum	Mrs. Heyman
Ed. 500s	Workshop in Elementary Education	Mr. Bradley, et al.
Ed. 500As	Workshop in Elementary Education (I.T. T.P.)	Mrs. Elmer, et al.
Ed. 512s	Seminar in Child Development	Mrs. Penn
Ed. 523s	Principles and Techniques of Guidance	Mr. Sloan
Ed. 575s	Research Methods and Techniques	Miss Martorana
Ed. 585s	Reading Clinic	Mrs. Dunklin
†Ed.H. 504s	Workshop in Education of Cerebral Palsied Children	Mr. Dunklin
Eng. 514s	Children's Literature	Mr. Fouracre, et al.
Geog. 502s	Map Interpretation for Teachers	Mrs. Ganey
H.Ec. 504s	Problems in Foods and Nutrition	Miss Worley
I.A. 504s	Workshop and Field Study-Tour of N. Y. State Industries	Miss Buddenhagen
Mus. 500s	Music in Education	Mr. Cook
S.S. 506s	Minority Groups in American Culture	Mr. Perkins
		Mr. Boyd
		Mr. Hollister

† Daily 8:00 A.M.-12:30 P.M. Public School #84, Meyer Memorial Hospital Grounds.

FIFTH PERIOD — 12:10-1:00

Catalog No.	Name of Course	Instructor
Art 505s	Seminar in Art Education	Mr. Czurlles
Art 509s	Graduate Studio in Crafts	Mr. Winebrenner
Art 510s	Graduate Studio in Photography	Mr. Truesdale
Ed. 500s	Workshop in Elementary Education	Mr. Bradley, et al.
Ed. 500As	Workshop in Elementary Education (I.T. T.P.)	Mrs. Elmer, et al.
Ed. 501s	Seminar in Elementary Education	Mr. Crayton
Ed. 504s	Elementary School Principalship B	Mr. Pugsley
Ed. 511s	Music and Art in Elementary Education	Mrs. Heyman
Ed. 512s	Seminar in Child Development	Miss McMahan
Ed. 515s	Seminar in Early Childhood Education	Mrs. Penn
Ed. 523s	Principles and Techniques of Guidance	Miss Jamison
Ed. 533s	Workshop in Visual Education	Mr. Sloan
Ed. 585s	Reading Clinic	Mr. Smay
Eng. 503s	American Regional Literature	Mrs. Dunklin
H.Ec. 514s	Performance Testing of Major Home Appliances	Mr. Dunklin
I.A. 504s	Workshop and Field Study-Tour of N. Y. State Industries	Mr. Greenwood
I.A. 513s	Ceramics	Miss Davis
Sci. 501s	Field Studies in Science I	Mr. Cook
S.S. 511s	Problems of Contemporary England	Mr. Perkins
		Mr. Strong
		Mr. Fretz
		Mr. Robison

SIXTH PERIOD — 1:10-2:00

Catalog No.	Name of Course	Instructor
Art 505s	Seminar in Art Education	Mr. Czurlles
Art 510s	Graduate Studio in Photography	Mr. Truesdale
Ed. 500s	Workshop in Elementary Education	Mr. Bradley, et al.
Ed. 500As	Workshop in Elementary Education (I.T. T.P.)	Mrs. Elmer, et al.
Ed. 501s	Seminar in Elementary Education	Mr. Crayton
Ed. 504s	Elementary School Principalship B	Mr. Pugsley
Ed. 511s	Music and Art in Elementary Education	Mrs. Heyman
Ed. 512s	Seminar in Child Development	Miss McMahan
Ed. 515s	Seminar in Early Childhood Education	Mrs. Penn
Ed. 533s	Workshop in Visual Education	Miss Jamison
*Ed. 564s	Advanced Driver Education and Safety	Mr. Smay
Ed. 585s	Reading Clinic	Mr. Palmeter
Eng. 503s	American Regional Literature	Mrs. Dunklin
H.Ec. 514s	Performance Testing of Major Home Appliances	Mr. Dunklin
I.A. 504s	Workshop and Field Study-Tour of N. Y. State Industries	Mr. Greenwood
I.A. 513s	Ceramics	Miss Davis
Sci. 501s	Field Studies in Science I	Mr. Cook
S.S. 511s	Problems of Contemporary England	Mr. Perkins
		Mr. Strong
		Mr. Fretz
		Mr. Robison

SEVENTH PERIOD — 2:10-3:00

Catalog No.	Name of Course	Instructor
I.A. 513s	Ceramics	Mr. Strong

* Two semester hours credit.

SPECIAL SCHEDULES

Ed. 520s July 5-14	Workshop for Elementary School Administrators 10:00-12:00 Daily—General Session—Auditorium 1:30-3:30 Daily—Seminars—Pioneer Hall Open to graduates and undergraduates—2 semester hours credit Seminar Leaders: Ambellan, Coiran, Gould, Pugsley and Miss Pritchard.	Mr. Sherrie, Director Lecturers, Drs. Powers, Willis, Young, Raths, Kinsella
Eng. 515s July 6- Aug. 27	European Tour Open to graduates and undergraduates 8 semester hours credit or on non-credit basis	Mr. Gronewold
S.S. 508s August 11- August 26	Field Course in Mexican Culture Two day session on campus Flight to Mexico City 12 days in Mexico—return by air Open to graduates and undergraduates 3 semester hours credit or on non-credit basis	Mr. Peterson Mr. Tetkowski
S.S. 507s August 11 August 25	Field Course in The History and Geography of New York State 1800 mile trip by bus Points of historical and geographical interest visited and studied Open to graduates and undergraduates 3 semester hours credit or on a non-credit basis	Mr. Rapp Mrs. Whittemore
H.Ec. 513s July 9-20	Workshop in Nutrition Education for the Elementary School Open to elementary teachers, administrators, and home economics teachers Graduate and undergraduate credit 2 semester hours credit	Mrs. Walker and Staff
I.A. 504s July 2- August 10	Workshop and Studytour of New York State Industries Two weeks visit of Niagara Frontier Two weeks in class, on campus Two weeks visit of industries throughout the state Open to graduates and undergraduates 6 semester hours credit	Mr. Cook Mr. Perkins
Sci. 505s July 16-27	Conservation Workshop Study of conservation in education Open to graduates and undergraduates State and national leaders participating 2 semester hours credit	Mr. Urban and Staff
Sci. 504s August 13-25	Science Camp Open to graduates and undergraduates 2 semester hours credit	Mr. Urban, Director Mr. Axtell, Miss Ryan

UNDERGRADUATE COURSES

FIRST PERIOD — 8:10-9:00

Catalog No.	Name of Course	Instructor
Art 400s	Workshop in Crafts	Mr. Winebrenner
Ed. 102s	Child Development	Mrs. Gates
Eng. 210s	Children's Literature	Mrs. Ganey
*Eng. 407s	Romantic Movement	Mr. Fried
Geo. 402s	Economic Geography	Miss Worley
Mus. 404s	The Art of Enjoying Music	Mr. Boyd
Sc. 311s	Geology	Mr. Arthur
*S.S. 341s	Nationality Groups in American Culture..	Mr. Hollister

SECOND PERIOD — 9:10-10:00

Catalog No.	Name of Course	Instructor
Art 400s	Workshop in Crafts	Mr. Winebrenner
Ed. 102s	Child Development	Mrs. Gates
Ed. 307s	Psychology of the Pre-School Child	Miss Jamison
*Ed. 433s	Audio-Visual Education	Mr. Truesdale
Ed. 485s	Reading Clinic	Mrs. Dunklin Mr. Dunklin
Eng. 210s	Children's Literature	Mrs. Ganey
Geo. 402s	Economic Geography	Miss Worley
Mus. 404s	The Art of Enjoying Music	Mr. Boyd
Sc. 311s	Geology	Mr. Arthur
*S.S. 342s	Expansion of Europe	Mr. Robison
S.S. 402s	Sociology	Mr. Whitten

THIRD PERIOD — 10:10-11:00

Catalog No.	Name of Course	Instructor
Art 406s	Creative Art Workshop	Miss Case
Ed. 307s	Psychology of the Pre-School Child	Miss Jamison
Ed. 485s	Reading Clinic	Mrs. Dunklin Mr. Dunklin
Eng. 304s	American Literature	Mr. Fried
Math. 101s	General Mathematics	Mr. Rodney
Mus. 305s	Music for Children	Mr. Webster
Sci. 401s	Genetics	Mr. Fretz
S.S. 402s	Sociology	Mr. Whitten

ASSEMBLY

LUNCH PERIOD

FOURTH PERIOD — 11:10-12:00

Catalog No.	Name of Course	Instructor
Art 406s	Creative Art Workshop	Miss Case
Ed. 485s	Reading Clinic	Mrs. Dunklin Mr. Dunklin
*Eng. 203s	Modern Drama	Mr. Greenwood
Eng. 304s	American Literature	Mr. Fried
*H.Ed. 402s	Health Education	Mr. Adessa
Math. 101s	General Mathematics	Mr. Rodney
Mus. 305s	Music for Children	Mr. Webster
Sci. 401s	Genetics	Mr. Fretz

*Two semester hours credit.

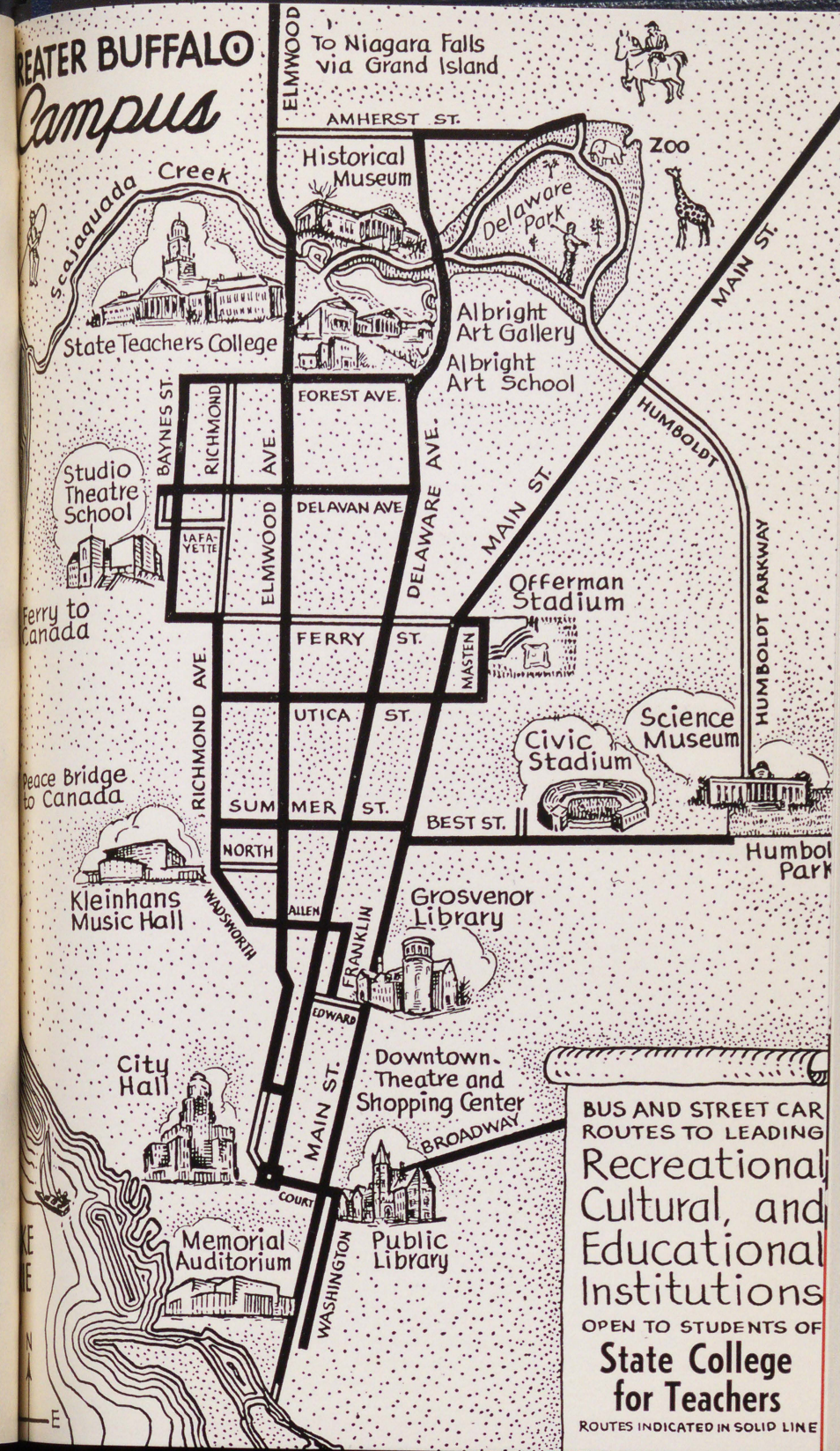
FIFTH PERIOD — 12:10-1:00

Catalog No.	Name of Course	Instructor
Art 408s	Painting	Mr. Hubler
Ed. 308s	Seminar in Early Childhood Education	Miss Jamison
Ed. 309s	Diagnostic and Remedial Techniques in the Elementary School	Mrs. Gates
Ed. 402s	Seminar in Elementary School Teaching	Miss O'Brien
*Ed. 463s	Driver Education and Safety	Mr. Palmeter
Ed. 485s	Reading Clinic	Mrs. Dunklin
Ed. 533s	Workshop in Visual Education	Mr. Dunklin
Eng. 415s	Shakespeare I	Mr. Smay
Sci. 101s	Physical Science I	Mr. Gragg
Sci. 501s	Field Studies in Science I	Mr. Arthur
S.S. 304s	American History to 1789	Mr. Fretz
		Mr. Whitten

SIXTH PERIOD — 1:10-2:00

Catalog No.	Name of Course	Instructor
Art 408s	Painting	Mr. Hubler
Ed. 308s	Seminar in Early Childhood Education	Miss Jamison
Ed. 309s	Diagnostic and Remedial Techniques in the Elementary School	Mrs. Gates
Ed. 402s	Seminar in Elementary School Teaching	Miss O'Brien
Ed. 485s	Reading Clinic	Mrs. Dunklin
Ed. 533s	Workshop in Visual Education	Mr. Dunklin
Eng. 415s	Shakespeare I	Mr. Smay
Sci. 101s	Physical Science I	Mr. Gragg
Sci. 501s	Field Studies in Science I	Mr. Arthur
S.S. 304s	American History to 1789	Mr. Fretz
		Mr. Whitten

* Two semester hours credit.



PERIODICALS DEPARTMENT
 EDWARD H. RITTLER, JR.
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BUFFALO

STATE COLLEGE FOR TEACHERS

1951

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JULY 2 TO
AUGUST 10

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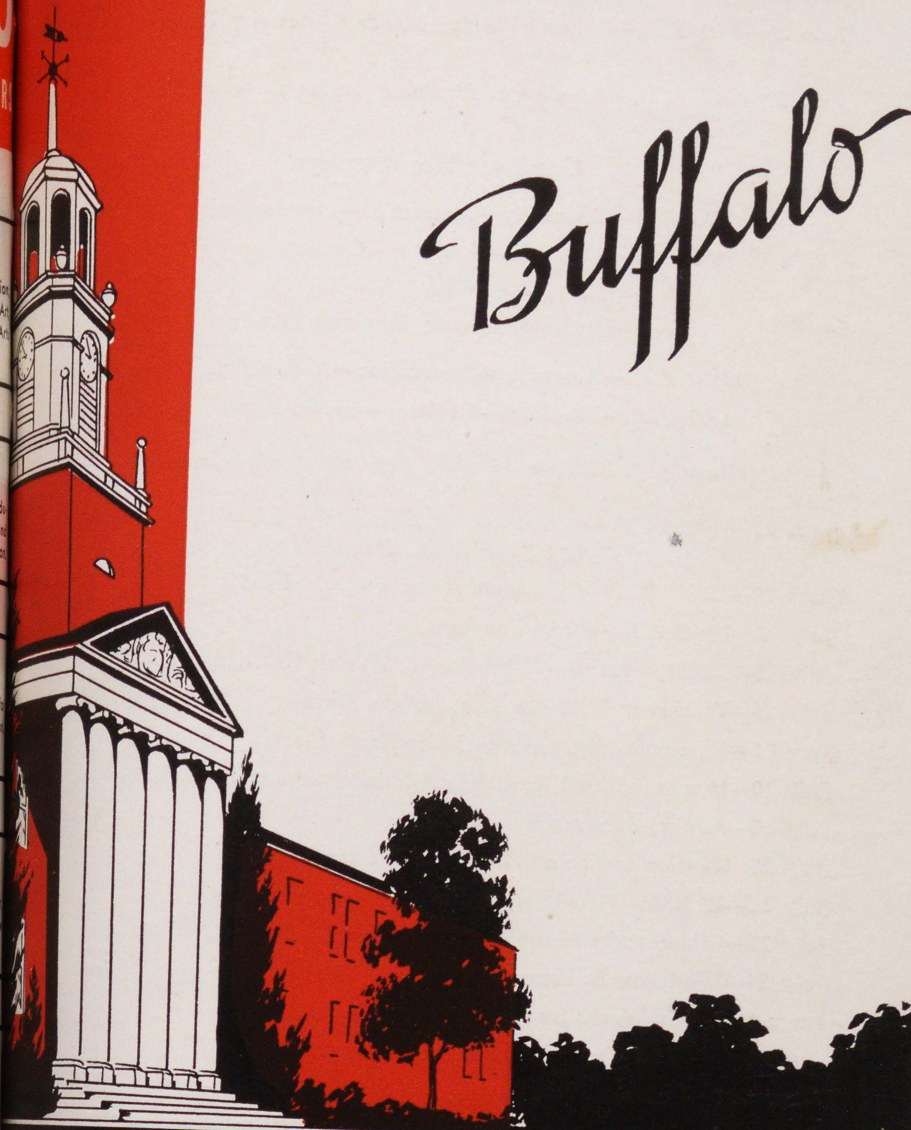
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