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State Teachers College
at Buffalo



Extension Courses
1930-1931

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State Teachers College
at Buffalo



Extension Courses
1930-1931

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Printed in
STATE TEACHERS COLLEGE
PRINT SHOP
At Buffalo, N. Y.

THE FACULTY, 1930-1931

Harry W. Rockwell, A. M., Pd.D. President
 Stephen C. Clement, A. M.
 Director of Extension and Professor of Education
 Joseph E. Barber, M.A. Assistant Principal,
 East Aurora High School
 H. Arnold Bennett, A. M. Instructor in History
 Charles B. Bradley, B. S. Professor of Fine Arts
 Homer A. Bruce, A. M. Instructor in Education
 Luella A. Chapman Instructor in Penmanship
 Earl Cranston, M. A. Instructor in History
 Marion P. Dana, B. S. Instructor in Kindergarten-Primary Method
 Helen G. Englebreck, A. M. Instructor in History
 Raymond Fretz, M. A. Professor of Science
 Oscar O. E. Hertzberg, M. A. Professor of Psychology
 David R. Hodgin, A. M. Instructor in English
 Charles A. Messner, Ph.D. Professor of Latin
 Joseph F. Phillippi, A. M. Professor of Mathematics
 C. A. Pugsley, M. A. Professor of Elementary Administration
 Charles C. Root, A. M. Professor of Education
 Augustus Shearer, Ph. D. Librarian, Grosvenor Library
 Harry J. Steel, A. M., Director of Training and Professor of Education
 Katheryne Thomas, M. A. Assistant Professor in Geography
 J. M. Thurber, Ph. D. Professor of English
 Charles A. Vail, A. M. Instructor in Science

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CALENDAR—1930-1931

1930

- Saturday, September 13—First Semester Registration, 9-11 o'clock, and Classes, 11-12 o'clock.
- Saturday, September 20—Final Registration for First Semester. Regular Classes, 9-12:30 o'clock.
- Saturday, October 11—Syracuse Conference (Holiday)
- Saturday, November 8—Zone Meeting, New York State Teachers Association (Holiday)
- Saturday, November 27—Thanksgiving Recess
- Saturday, December 27 - January 7—Christmas Recess

1931

- Saturday, January 31—First Semester Ends
- Saturday, February 7—Second Semester Registration, 9-11 o'clock and Classes, 11-12 o'clock
- Saturday, February 14—Final Registration for Second Semester. Regular Classes, 9-12:20 o'clock.
- Saturday, April 4 - April 11—Easter Recess
- Saturday, May 31—Legal Holiday
- Saturday, June 13—Classes End

NOTE—Because of the possibilities of disruption of program due to transfer to the new college site, this program is subject to change.

PROGRAM OF SATURDAY COURSES

FIRST SEMESTER

First Period

Work of the Critic Teacher	Mr. Steel	Room 110
General Geography	Miss Thomas	Room 102
History of Education	Mr. Root	Room 104
Victorian Literature	Mr. Thurber	Room 110
Europe Since 1870	Miss Englebreck	Room 100
The Library as a Factor in Education	Dr. Shearer	Room 103
Latin Literature in Translation	Mr. Messner	Room 209
French I	Mr. Messner	Room 209
New Type Examinations	Dr. Hertzberg	Room 104

Second Period

Adolescent Psychology.....	Mr. Bruce	Room 102
American Literature A.....	Mr. Hodgin	Room 209
American History Before 1783.....	Mr. Cranston	Room 208
Mental Tests and Measurements.....	Dr. Hertzberg	Room 200
Children's Literature.....	Mrs. Shugrue	Room 103
Educational and Vocational Guidance.....	Mr. Barber	Room 200
Elementary School Curriculum A.....	Mr. Pugsley	Room 103

American Arts — *Bradley*

SECOND SEMESTER

First Period

<i>2nd</i> x Principles of Education.....	Mr. Bruce	Room 104	<i>100 State</i>
<i>2nd</i> x Biology for Teachers.....	Mr. Fretz	Room 314	<i>100 State</i>
<i>2nd</i> x Modern Novel.....	Mr. Thurber	Room 209	<i>100 State</i>
<i>2nd</i> x Modern Interpretation of the Constitution.....	Mr. Bennett	Room 100	<i>100 State</i>
x Solid Geometry.....	Mr. Phillippi	Room 110	<i>100 State</i>
American Arts	Mr. Bradley	Room 311	
x Educational Tests and Measurements.....	Mr. Root	Room 104	
x Psychology of Elementary School Subjects.....	Dr. Hertzberg	Room 103	
<i>Y. H. S. Organization</i>	<i>Steel</i>	<i>113</i>	<i>100 State</i>

Second Period

x American Literature B.....	Mr. Hodgin	Room 209	<i>100 State</i>
x Penmanship II.....	Miss Chapman	Room 201	
x Elementary Science.....	Mr. Vail	Room 314	<i>100 State</i>
x Elementary School Curriculum B.....	Mr. Pugsley	Room 103	
Tests and Measurements for the Kindergarten-Primary Grades.....	Mrs. Shugrue	Room 100	
<i>2nd</i> x Modern Drama.....	Mr. Thurber	Room 110	
Elementary Sociology	Mr. Clement	Room 319	
<i>Water Color Painting</i>	<i>Drew</i>		
<i>Work of Critic Teacher</i>	<i>Steel</i>		

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EXTENSION COURSES, 1930-1931

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PURPOSE

The State Teachers College at Buffalo offers a three-year course leading to a diploma in Elementary Education, and a four-year course leading to the degree of Bachelor of Science (in Education). In addition there are offered one and three-year courses for the training of Vocational Industrial teachers. There is also a four-year course in Home Economics.

16.

The Extension Program is organized primarily to facilitate the completion of desired programs by teachers in service or by undergraduates. It also attempts to offer opportunity of extended training for increased efficiency, for personal satisfaction, or for promotion to supervisory, administrative or critic positions in Elementary and Junior High School fields.

Normal School graduates who have completed the former two-year course or the present three-year course may meet the requirements for the degree of Bachelor of Science (in Education) by pursuing Summer Session and Extension courses. Reasonable credit for successful teaching experience which is certified to by competent supervising officials, will be granted where possible.

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For information regarding the entire curriculum of the college and the requirements for the degree, students are referred to the general catalog of the college, obtainable in the General Office. Students who wish the evaluation of credentials should consult the Registrar, either in Room 105 or by mail.

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REGULATIONS

Teachers in service and properly qualified undergraduates will be admitted to extension courses, subject to such restrictions as are hereafter noted.

The first semester begins September 13, 1930, and closes January 31, 1931. The second semester begins February 7, 1931, and closes June 13, 1931. All classes will be held on Saturdays at the State Teachers College unless otherwise indicated. Saturday class periods are from 9:00 to 10:40 a.m. and from 10:40 a.m. to 12:20 p.m.

19.

Registration for the first semester will take place on Saturday, September 13, 1930, at 9:00 a.m. Changes in schedule will not be permitted after September 20. Registration for credit will not be per-

mitted after September 20. For registration after September 19, a special late registration fee of \$1.00 will be charged.

Registration for the second semester will take place on Saturday, February 7, 1931, at 9:00 a.m. Changes in schedule will not be permitted after February 14. Registration for credit will not be permitted after February 14. For registration after February 7, a special late registration fee of \$1.00 will be charged.

The right is reserved to limit the registration in each course to thirty-five students. Classes with a registration of less than ten students will be automatically withdrawn.

All courses in the Extension department are expected to require the same standard of serious effort as similar courses given during the regular session. To this end, courses carrying two semester hours of credit assume a minimum preparation of two clock hours devoted to reading and preparation for each meeting of the class, and some courses may require considerably more than the minimum preparation and outside study. Students are expected to be present at each meeting of the class, and a student absent from any class more than twice will not receive credit in the course.

The School Library will be open on Saturdays for the convenience of students.

FEES

A fee of \$2.50 will be charged for each point of credit. Undergraduates who are not in service and who are taking a regular college course will be admitted to extension courses without charge. Such students must secure a registration permission blank from the Registrar.

For all extra-mural courses which involve travel on the part of the instructor a fee of \$5.00 a point will be charged.

Fees are payable at registration. No students will be admitted to class until all charges have been met. Fees are not returnable except in case of change of program before the second session of any class.

The collection and expenditure of fees is administered by the Board of Directors of the Extension Fund.

EXTRA-MURAL CENTERS

The State Teachers College holds itself ready to offer extension work in any community or center within traveling distance. The

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selection of courses and instructors will be determined by joint conference between the Director of Extension and the prospective students. Courses will be given on week-day afternoons or evenings, or Saturday morning. The required registration is dependent on the course and on the necessary traveling expenses.

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During the year 1929-1930, the following courses were offered in extra-mural centers:

Batavia, Children's Literature, Mrs. Shugrue
Hamburg, The Family as a Factor in Education, Dr. Reynolds and others

16.

Jamestown, The Victorian Novel, Dr. Lappin
Lancaster, Foundations of Language, Dr. Messner
History of Civilization, Mr. DeMond

Lockport, English Literature of the 18th Century, Dr. Lappin
Health V, Miss Houston
Tests and Measurements, Mr. McClure
Elementary School Administration, Mr. McClure

Niagara Falls, Administration of Industrial and Technical Education, Mr. Small
Psychological Tests in Guidance, Mr. Allen

North Tonawanda, Art Appreciation A and B, Mr. Bradley
Tonawanda, Penmanship II, Miss Chapman

17.

Schenectady, Diagnostic and Remedial Reading for the Upper Grades, Miss Buker
Diagnostic and Remedial Reading for Primary Grades, Miss Brown

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Requests for information regarding the extension program should be sent to Dr. Harry W. Rockwell, President, State Teachers College at Buffalo, N. Y., or to Stephen C. Clement, Director of Extension.

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SATURDAY MORNING CLASSES AT TEACHERS COLLEGE

ART

1. American Arts

Second semester, 9:00-10:40 a.m. Room 311. Two points credit.

The history of the development of art in America from primitive times to modern days. Art principles as illustrated in examples studied: crafts, architecture, sculpture, painting, and industrial arts. A background for the appreciation of the art of America. Third or fourth year elective.

Mr. Bradley.

EDUCATION

2. Adolescent Psychology

First semester, 10:40 a.m. - 12:20 p.m. Room 102. Two points credit.

As this course is now treated, the psychology of adolescence is one of the many approaches to the mind of the learning child. The several approaches are made by the special reports of students followed by class discussion. A partial list of such approaches follows: A study of the public ceremony as a social approach to the mind of primitive man; general psychology's contribution to the learning mind; the Freudian approach; Behaviorism, Introspection, etc. Required third year.

Mr. Bruce.

3. Educational and Vocational Guidance

First semester, 10:40 a.m. - 12:20 p.m. Room 200. Two points credit.

The organization and the administration of Vocational Guidance and Educational Guidance in the elementary and junior high school. A general survey will be made of the aims and developments of vocational guidance and its application to life both in school and out. In addition to serving as a fundamental course for those who plan to specialize in guidance and personnel, the course is arranged to meet the needs of principals, supervisors, social workers and any others who are interested in the selection of vocations, guidance during training, placement and readjustment. Third or fourth year elective.

Mr. Barber.

14.

4. Educational Tests and Measurements

Second semester, 9-10:40 a.m. Room 104. Two points credit.

A brief course which aims to familiarize the classroom teacher with the "measuring" movement in education. Sufficient acquaintance with the fundamental statistical terms and methods will be given to enable students to read the literature of this field intelligently. Evaluation of tests and scales, contact with some of the most important ones, and some experience in handling tests will be provided. How to measure the results of teaching and thereby diagnose difficulties and improve classroom instruction will be the chief outcome sought in this course. Required third year.

Mr. Root.

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5. Elementary School Curriculum A and B

First semester, 10:40 a.m. - 12:20 p.m. Room 103. Four points credit.

Second semester, 10:40 a.m. - 12:20 p.m. Room 103.

A study of scientific research in such subject fields as reading, arithmetic, language, and spelling, and the social sciences, together with modern trends in all the common elementary school branches for the purpose of arriving at a basis for scientific curriculum construction. The effects of such movements as pre-school education and progressive education will also be examined. Special attention will be given to the curricula of the Buffalo city schools. Opportunity will be offered for students to work out problems connected with the construction of curricula applicable to their own needs. Fourth year required or elective.

Mr. Pugsley.

17.

6. History of American Education

First semester, 9 - 10:40 a.m. Room 104. Two points credit.

A brief study of the evolution of our American State School system, including the European background, transplanting of European ideas, their adaptation to American conditions, the establishment of our State system and the recent rapid expansion and extension of that system to meet the needs of modern life. If a sufficient number of students so desire, this course will be continued during the second semester for one additional credit point. Required third year.

Mr. Root.

18.

7. Mental Tests and Measurements

First Semester, 10:40 a.m. - 12:20 p.m. Room 300. Two points credit.

To familiarize the student with the different kinds of mental measurement and with the means and methods of making them; to

develop the right attitude toward the use of mental tests; to point out the social, educational, vocational and psychological significance of mental tests.

History of the testing movement; classification of mental tests and measurements, including tests of intelligence and personality traits; the meaning of intelligence; the principles of intelligence testing; the possibility of improving intelligence; the influence of intelligence upon achievement; the construction of intelligence tests; criteria for selecting tests for practical purposes; preparation for giving intelligence tests; tabulating and interpreting the results of tests; the value of tests for educational and vocational guidance; the uses of intelligence tests in the practical work of schools and colleges; differences in intelligence among individuals, races, occupational groups and between the sexes and city and rural school children; the relation between intelligence on the one hand and crime and physical traits on the other. Third or fourth year elective.

Dr. Hertzberg.

8. New Type Examinations

First semester, 9 - 10:40 a.m. Room 104. Two points credit.

To give instruction in the nature and uses of teachers' tests; to give practice in their construction, administration, scoring, and the use and interpretation of their results.

Types of teachers' classroom tests; their deficiencies and advantages; types of objective tests such as the simple recall, completion, true-false, multiple choice and its variants, judgment, rearrangement, and matching; practice in the construction of the different types of objective tests; criticism, administration and scoring of these types; interpretation of the results of objective tests; using the results in teaching and in making diagnosis, promotions and reclassifications. Third or fourth year elective.

Dr. Hertzberg.

9. Principles of Education

Second semester, 9 - 10:40 a.m. Room 104. Two points credit.

Aims to integrate for teachers the details of educational theory and practice represented by the preliminary courses in education and psychology, thus furnishing them with a unified body of educational doctrine. This is accomplished by viewing the educational process as the "life process". From the natural laws of this process are developed the fundamental principles and goals for education. Required third year.

Mr. Bruce.

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10. Psychology of Elementary School Subjects

Second semester, 9 - 10:40 a.m. Room 104. Two points credit.

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To prepare the student to give more effective assistance to the child in his attempt to learn handwriting, reading, spelling, language, arithmetic, history and geography, by making him familiar with such procedures; factors and conditions of learning as have been found to be superior through experimental studies; the application of the laws of learning and the known facts about the child's capacities and tendencies. Third or fourth year elective.

Dr. Hertzberg.

16.

11. Tests and Measurements for the Kindergarten-Primary Grades

Second semester, 10:40 a.m. - 12:20 p.m. Room 100. Two points credit.

Designed to give elementary teachers sufficient acquaintance with standard tests and scales to enable them to use such instruments for the improvement of classroom instruction. Special attention to kindergarten-primary grades. Required third year.

Mrs. Shugrue.

17.

12. The Work of the Critic Teacher

First semester, 9 - 10:40 a.m. Room 110. Two points credit.

A systematic study of the work of the critic teacher in conducting the observation and participation for student teachers including the planning of lessons and the rating of student teaching. Preference will be given to those who are supervising the work of student teachers or who wish to do so. Third or fourth year elective.

Mr. Steel.

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ENGLISH

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13. American Literature A

First semester, 10:40 a.m. - 12:20 p. m. Room 209. Two points credit.

A survey of the main currents of thought as expressed in American Literature, from the colonial period to Irving and Cooper. Early New England writers including Bryant, Whittier, and Emerson. Third or fourth year elective.

Mr. Hodgkin.

14. American Literature B

Second semester, 10:40 a.m. - 12:20 p.m. Room 209. Two points credit.

American literature from Poe and Hawthorn to Robert Frost and Sinclair Lewis. Third or fourth year elective.

Mr. Hodgkin.

15. Children's Literature

First semester, 10:40 a.m. - 12:20 p.m. Room 211. Two points credit.

Selection and study is made of literature appropriate for use in the kindergarten and grades one to three inclusive. The interests of children are investigated and trends to future, as well as current practice, are taken up. Myths, fairy tales, legends, realistic tales, poetry and the illustrators of children's works are included. A practical outcome of this course is the large collection of material acquired for use in the classroom. Required third year.

Mrs. Shugrue.

16. Modern Drama.

Second semester, 10:40 a.m. - 12:20 p.m. Room 110. Two points credit.

A survey of the chief tendencies in modern dramatic theory and subject matter, considering the works of Ibsen, Hauptmann, Shaw, Galsworthy, Chekhov, Maeterlinck, the Irish playwrights, Pirandello, O'Neill, and others. Through lectures, class discussions, considerable reading of plays and reports, the course aims to give the student some knowledge of the background of present-day dramatic literature together with standards of appreciation and criticism. Elective third or fourth year.

Mr. Thurber.

17. The Modern Novel

Second semester, 9 - 10:40 a.m. Room 209. Two points credit.

The development of the novel, principally in England and America, from the time of Jane Austen to the present. The course aims to develop in the student critical standards, with which he may effectively judge the value of the fiction he may later read. Elective second, third or fourth year.

Mr. Thurber.

14.

18. Victorian Literature

First semester, 9 - 10:40 a.m. Room 110. Two points credit.

Approximately half the course is spent on Tennyson and Browning; the remainder is divided among such writers of the period as Clough, Arnold, Rossetti, Peter, and Swinburne. Elective in the second, third or fourth years.

Mr. Thurber.

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FOREIGN LANGUAGES

Note: Either Latin Literature in Translation or French I will be given according to the number of students electing the course.

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19. French I

First semester, 9 - 10:40 a.m. Room 209. Two points credit.

For students who have not had French in high school. Minimum essentials of French grammar, French phonetics as the basis for accurate pronunciation, easy French composition, and copious reading of French prose and verse of increasing difficulty, including some scientific or technical French. Fourth year elective.

Mr. Messner.

17.

20. Latin Literature in Translation

First semester, 9 - 10:40 a.m. Room 209. Two points credit.

Designed to afford a classical background and a broadened acquaintance with the outstanding names in Latin literature. Reading in English those works having the greatest influence on modern literature, covering the following types: history, drama, lyric, pastoral, didactic prose and verse, epic, satire, fiction. May be counted for concentration in English or foreign language. No previous knowledge of Latin required. Fourth year elective.

Mr. Messner.

18.

GEOGRAPHY

19.

21. General Geography

First semester, 9 - 10:40 a.m. Room 102. Two points credit.

The study of the influences of the environmental factors upon man and his activities is the main purpose of the first semester of geography. Special attention is given the illustrations of these factors

in the home region. In addition, emphasis is laid upon training in the methods of geographic study. An effort is made to show how geography aids in an understanding of many current world problems. Required of freshmen.

Miss Thomas.

HISTORY

22. American History Before 1783

First semester, 10:40 a.m. - 12:20 p.m. Room 208. Two points credit.

The conditions in Europe during the fifteenth and sixteenth century which influenced the discovery and settlement of the new world are considered. The economic factors of this period will be studied as an important cause of the Revolution. The struggle of the English colonies with the mother country for independence will be stressed. Third or fourth year elective.

Mr. Cranston.

23. History of Europe Since 1870

First semester, 9 - 10:40 a.m. Room 100. Two points credit.

This course will consider the conditions in Europe at the close of the French Revolution, the redistribution of territory by the Congress of Vienna, the Industrial Revolution and the scramble for colonies. Prominence will be given to the alliances and ententes which led up to the World War. The chief problems of diplomacy and the international relations of the war will be orally discussed. Elective, third or fourth year.

Miss Englebreck.

24. Modern Interpretation of the Constitution

Second semester, 9 - 10:40 a.m. Room 100. Two points credit.

This course treats of the meaning of each provision of the Constitution in the light of its development by amendment, statute, custom, or the courts.

Special treatment will be accorded the following questions, among others: Was the Constitution adopted primarily to safeguard economic interests? Should the method of presidential election be changed? Is the Congress within its rights in refusing to admit members who have been duly elected? How may the tax and interstate commerce powers be used as agencies of social control? Is

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"federal aid" a violation of "State's rights"? Should Cabinet members have seats in Congress? Does the Eighteenth Amendment deprive the individual of civil rights? What is the constitutional status of the negro? What has retarded the enactment of labor legislation? Why does the national government have something to say about the rates of local public utilities?

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Attention will also be given to the principles which should underlie the teaching of the Constitution. Third or fourth year elective.

Mr. Bennett.

LIBRARY

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25. The Library As A Factor in Education
First semester, 9 - 10:40 a.m. Room 103. Two points credit.

This course attempts to answer the question, "What resources has the library?" It attempts to summarize for the teacher books and materials available for use with varying groups and in answering specific questions. For example: the course will consider books available for children of various ages, for boy scout groups, for girl scout groups, for maladjusted and crippled children and the blind, deaf, and so on. Fourth year elective.

Dr. Shearer and others.

17.

MATHEMATICS

26. Solid Geometry
Second semester, 9 - 10:40 a.m. Room 110. Two points credit.

A study of interesting planes, rectangular and oblique solids, such as the cylinder, pyramid and cone; spheres and spheric surfaces. Students are encouraged to aid their visualization by constructing some of the solids. Their attention is continually called to practical problems involving theorems studied. Third or fourth year elective.

Mr. Phillippi.

18.

PENMANSHIP

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27. Penmanship II
Second semester, 10:40 a.m. - 12:20 p.m. Room 201.

Practice upon paper and blackboard is continued until the product is suitable for imitation and demonstration. Particular attention is given to the pedagogical phases of handwriting. The following

topics are among those studied: building of attitudes; selection of materials; setting of standards; detection and correction of errors; left-handedness; correlation; motivation; individual differences; rhythm. The methods are observed. Each student must earn a Palmer Method Teacher's Certificate. Required second year.

Miss Chapman.

SCIENCE

28. Elementary Science
Second semester, 10:40 a.m. - 12:20 p.m. Room 314. Two points credit.

This course will aim: (1) to give an understanding of science, emphasizing the part science plays in modern life; (2) to inform as to subject matter in elementary school science at the grade levels, and methods of presentation; (3) to impart a point of view in science which will aid in the progressive development of society.

Mr. Vail

29. Biology for Teachers
Second semester, 9 - 10:40 a.m. Room 314. Two points credit.

A survey of the fundamental facts of biology as they bear specifically upon the teaching of biology in the grades. Observation of current forms of organic life are made from the point of view of ecology, or the relationship of the organism to its environment, and behavior. Taxonomy, or the science of naming and classifying specimens, with the necessary studies of structure and physiology, is given some attention. Fourth year elective.

Mr. Fretz.

SOCIOLOGY

30. Elementary Sociology
Second semester, 10:40 a.m. - 12:20 p.m. Room 319. Two points credit.

The social personality of the learner, the creation of behavior patterns and social attitudes by home, church, school, gang, immigrant group, etc. The school as a factor in effecting changes in the social personality. Changes in the social world demanding new educational procedure to secure individual adjustment. Inter-relations between the social world and school administration, curriculum, method and

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measurement. Attention will be given to modern techniques of social analysis. Required third year.

Mr. Clement.

15.

COURSES IN HOME ECONOMICS

Home Economics students will find the following courses, especially Educational and Vocational Guidance, of particular interest.

16.

Educational and Vocational Guidance.....	Mr. Barber
Victorian Literature.....	Dr. Thurber
American Literature A and B.....	Mr. Hodgkin
Modern Novel.....	Dr. Thurber
Modern Drama.....	Dr. Thurber
History of Education.....	Mr. Root
Mental Tests and Measurements.....	Dr. Hertzberg
Adolescent Psychology.....	Mr. Bruce
New Type Examinations.....	Dr. Hertzberg
Educational Measurements.....	Mr. Root
The Library as a Factor in Education.....	Dr. Shearer

17.

Special courses in Home Economics may be organized if there is sufficient demand. Students who are interested should consult Miss Myrtle Caudell as early as possible.

18.

COURSES IN VOCATIONAL EDUCATION

A special bulletin relating to courses in Vocational Education is in preparation and will be available for distribution on or near the first of September, 1930. These bulletins may be secured from the General Office of the school or from Mr. Irving C. Perkins, Director of Vocational-Industrial Department.

19.

COURSES TO BE GIVEN UNDER THE AUSPICES OF THE BUFFALO MUSEUM OF SCIENCE

The following courses will be given under the auspices of the Buffalo Museum of Science in the Museum in Humboldt Park and will carry credit in the Buffalo State Teachers College. All details concerning date of registration, fee, credits allowed, etc., can be obtained by securing from the Museum the bulletin regarding their courses. This is bulletin No. 13, Pamphlet Series.

September 23, 1930 - January 30, 1931

Shrubs of Erie County—H. M. Wolfe, Jr., Ph. B., Assistant in Division of Adult Education, Buffalo Museum of Science.

A non-technical course designed primarily to familiarize the student with the local woody plants, native and introduced, to be found commonly in Western New York. Some time will be spent in the field recognizing shrubs in leafy as well as winter condition, and opportunity will be offered those interested to collect, mount, and label shrub leaves and twigs. Field trips to nearby glens, hillsides, and swamps will provide those interested with an opportunity to learn at first hand the distinguishing characteristics of the woody plants about them. The first meeting will be on Tuesday, September 23, at 7:45 p. m., in the Agassiz Room.

Microscopic Life—Carlos E. Cummings, M.D., Assistant Director of the Buffalo Museum of Science.

This course will constitute an introduction to some of the minute marvels of nature and will familiarize the student with the myriad forms of animal and vegetable life which flourish in our fresh waters. While the microscope is primarily the tool of the scientists and the technician, it may become an instrument of pleasure to the layman to whom it will open the door of a world which lies beyond his unaided vision. Each student will have the use of a microscope and will be taught how to operate and care for it. Simple methods of mounting micropic objects will also be demonstrated. The first meeting will be on Tuesday, September 23, at 7:45 p.m., in the Biology Laboratory.

Geology of Erie County—John A. Sandford, Ph.D., Curator at Museum.

Planned to familiarize the student with the principles of geology leading to an understanding of the structure of the earth's crust and the dynamical agents that have modified it, this course emphasizes

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the geological aspects of Western New York. It will cover the origin of the rocks of this region; their modification by the atmosphere, water, ice, and organic life; the story they tell of ancient life and seas. Several field trips will be conducted and there will be at least one opportunity to collect fossils. The first meeting will be on Wednesday, September 24, at 7:45 p.m., in the Mineralogy Laboratory.

15.

The Friendly Stars—George A. Davis, Jr., B.S., Lecturer in Astronomy at University of Buffalo.

16.

The principal object of these lectures will be to assist the student to become familiar with the constellations visible from this latitude, including their history and mythology, and to enable him to recognize the brighter stars and call them by name. The lectures will also cover, as fully as possible, the individual stars brighter than the fifth magnitude in order to give the student an idea of stellar distances, motions, brightnesses, temperatures, and other interesting details. The observation of the brighter double stars,—a branch of astronomy always particularly fascinating to the amateur—will be an important feature of the course. The new eight-inch telescope of the Museum will be used as often as the weather permits. The first meeting will be Thursday, October 2, at 7:45 p.m., in the Humboldt Room. The class will be limited to the first thirty-five students registering.

17.

The following non-credit courses will also be given:

18.

The Determination of Minerals and Rocks.....	Tuesday, 7:45 - 9:30
The Teaching of Nature Merit Badges.....	Wednesdays, 7:45 - 9:30
The Study of Shells	Wednesdays, 7:45 - 9:30
Aquarium Construction and Maintenance.....	Thursdays, 7:45 - 9:30

19.

During the winter term, beginning January 12, 1931, the following tentative list of courses will be offered: Nature Lore for Boy Scout Leaders, and Girl Scout and Campfire Girl Leaders, Camperath, Landscape Gardening, Photography.

During the spring semester beginning February 2 - May 15, 1931, the following tentative list of courses will be offered: Advanced Astronomy, Outline of Science, Advanced Nature Study for Teachers, Trees of Erie County.