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VIEW OF NORMAL CAMPUS FROM AIRPLANE FLYING 90 MILES PER HOUR.
FACULTY OF THE SUMMER SCHOOL
1922

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MAY L. STEWART, A. B., County Normal Problems
GEORGE TABRAHAM, Manual Arts
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LAURENCE TAYLOR, Physical Education
ELMER WEAVER, Manual Arts
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CORDELIA WICK, Commerce
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STANDING COMMITTEES, 1922

The president is ex-officio a member of each committee.

Appointment Committee—Ellsworth, Henry, Davis, S. Burnham, E. Burnham.

Athletics—Read, Taylor

Enrollment, Schedules, and Records—Hoekje

(1) Schedules—Hoekje
(2) Entrance Requirements—Brown, Blair, Cain
(3) Extra Studies—Fox, McCracken
(4) Advanced Standing—Hoekje, Henry
(5) Course Advisors—
   A. Life Certificate
      Early Elementary—Spindler, Coppens
      Later Elementary—Harrison, Place
      Rural—E. Burnham, Munro
      Junior High School—Rawlinson
      Senior High School—Fox, Zimmerman
      Art—Stevenson
      Music—Maybee
      Household Arts—M. Moore, Blair
      Manual Arts—Sherwood, F. Huff
      Commerce—Pennell, Wick
      Physical Education for Men—Taylor
      Physical Education for Women—Guiot
      Extension—Hoekje
   B. Limited Certificate—E. Burnham, Munro
   C. Special Summer—E. Burnham
   D. A. B. Degree—Sprau

Health—Davis, Place

Social Life—Davis, Williams, Brown, Ellsworth, Shaw, Livermore, Stewart, Guiot

Y. W. C. A.—Hockenberry, Spindler

Y. M. C. A.—Greenwall, Weaver
SUMMER TERM
OF THE
Western State Normal School

The nineteenth annual Summer Term of the Western State Normal School will open June 26, 1922, and continue six weeks, closing August 4. Students will be enrolled and classified on Monday, June 26, and classes in all departments will begin recitations on Tuesday, June 27. Nearly all of the regular instructors of the Normal School will remain in residence during the Summer Term, and will be assisted by a number of outside teachers selected for their efficiency in special lines of work.

LOCATION

The Western State Normal School is located at Kalamazoo, the county seat of Kalamazoo County, in the heart of southwestern Michigan. Kalamazoo, with a population of 48,000, is a city rich in industries, beautiful and healthful as a place of residence. The Normal School is in the residence section on a hill affording a most magnificent panoramic view of the city and surrounding country.

Kalamazoo is an important railroad center easily accessible from all parts of Michigan and adjoining states. It is the half-way point between Detroit and Chicago on the main line of the Michigan Central Railway. The Grand Rapids and Indiana, the Lake Shore and Michigan Southern, and the Chicago, Kalamazoo and Saginaw railroads, all running north and south, pass through Kalamazoo. In addition to these main lines, the South Haven branch of the Michigan Central, the Kalamazoo, Lake Shore and Chicago, and the Grand Trunk railroads, together with the Michigan Railway Company trolley lines east and north, afford convenient travel to and from all points in southwestern Michigan.
PURPOSE OF THE SCHOOL

The purpose of the Normal School as constituted by law is to prepare teachers for the public schools, and to this end especially the work of the school is organized and conducted. Recognizing that scholarship, familiarity with children, and a proper attitude toward the work of teaching are fundamental in all professional preparation of teachers, the courses of study in the Western State Normal School have been planned to give as thorough knowledge of the subject-matter as possible in the time devoted to the work, to emphasize the principles underlying the teaching process, and to keep before the student the fact that the highest aims of education are character and service. Every possible means is provided for accomplishing these purposes and for bringing the student into direct acquaintance with the best in modern thought and life. The spirit of hearty cooperation between faculty and students in enterprises and interests of the school is fostered at all times.

Responsibility for the proper attitude of students toward the school and community is, for the most part, necessarily thrown upon the students themselves. While it is the purpose of the school to incite the student continually to higher and better ideals of character and public service, it is impracticable for the Normal School to attempt the task of reforming young men and women. No personal effort will be spared to assist students in every possible way, but those who are manifestly lacking in the essentials of good character or in ability to become efficient instructors of children will be requested, whenever the evidence of their unfitness is complete, to withdraw from the school.

During the Summer Term special attention will be given to those who are already teaching and to those who plan to teach during the coming year. Courses of study, plans of work, and methods of instruction, will be arranged to meet the needs of teachers engaged in the profession.

BUILDINGS

1. Administration Building. This structure contains in addition to the administration offices, fourteen classrooms,
the assembly room, and the library and reading-rooms. The Normal Co-operative Store is located on the first floor. The site occupied by the Administration building is well known for the panoramic view of Kalamazoo and the surrounding country.

2. Training School Building. This building, 118 feet long and 100 feet wide, consisting of two stories and a basement, is one of the best-planned training school buildings in the country. In completeness and convenience the building is a model. The first, third, fourth, fifth, sixth, and seventh grades will be in regular session each forenoon during the entire term, affording students opportunity for observation and practice teaching.

3. Gymnasium. The Gymnasium is the largest among the normal schools of the country. The main floor is 119 feet long and 68 feet wide, entirely clear of posts or obstructions of any kind. The running track, 9½ feet wide, is suspended from the structural steel supporting the roof of the building. In the basement are lockers, shower baths for men and women, and a swimming pool 52 feet long. All classes in public school gymnastics will meet in the Gymnasium.

4. Science Building. The Science building is located directly west of the Gymnasium and covers a ground area 148 feet long and 78 feet wide. The building is three full stories above the basement. The first floor affords classrooms and laboratories for the departments of Psychology and Geography. The Department of Biology is housed on the second floor, and on the third floor are classrooms and laboratories for the departments of Physics and Chemistry. The building and its splendid equipment greatly increase the efficiency of the several departments of science.

5. Manual Arts. The new Manual Arts building is beautifully located adjoining the athletic field and facing the point of land formed by the intersection of Michigan Avenue and Oakland Drive. It is a fireproof structure of modern factory type with very high ceilings and plenty of light. The rooms are all especially designed to serve the various classes in the most effective manner.
THE LIBRARY

The Library at present numbers 22,000 volumes. All books have been selected with great care to avoid excessive duplication, and, since all purchases have been made within the last sixteen years, the library is entirely free of antiquated and useless material. The books have been chosen to represent adequately all departments of the school and to provide generous opportunity and encouragement for cultural reading.

Two hundred and thirty-seven periodicals are taken and forty-three complete sets are shelved in the reading-rooms. Students are given free access to reading-rooms and stack-room.

The Kalamazoo Public Library, with a collection of 55,000 volumes, is open to all students of the Normal School.

CREDIT

Credits applying on the A. B. degree and certificate courses may be earned in any of the subjects regularly required. Twenty-four weeks (one-half of a full term's credit) is usually the maximum credit for any student during the Summer Term. Classes reciting daily ordinarily earn six weeks of credit, while those reciting twice each day earn twelve weeks' credit.

DEMAND FOR TEACHERS

There is an increasing demand for trained teachers throughout the state and in the country at large. The tendency of salaries is upward, and teaching is nearer a profession than ever before. Graduates of the Western Normal are in demand, and much care is exercised in placing students of the school where the likelihood of success and the opportunity to serve are greatest.

EXPENSES

The tuition fee is $3.00 for all students who reside in Michigan. For those living outside of Michigan the fee is $6.00. There is a fee of $2.00 for the support of athletics.
BOARDING AND ROOMING

There are convenient rooms in the vicinity of the school sufficient to house 1,200 or more students. The cost of room and board varies. The average cost of rooms is from $2.00 to $2.50 per week per person; the average cost of board from $4.50 to $5.50 per week. The Normal Lunchroom will be open during the Summer Term. Excellent food is provided at very low prices.

Men and women students should not room in the same house. Women students should expect the privilege of entertaining their callers in a down-stairs room assigned for that purpose.

A list of good rooming and boarding houses can be obtained from the Secretary in the General Office or from the Dean of Women. It is advisable for students to see the rooms before they definitely engage them.

HEALTH

Kalamazoo, according to the records in the office of the State Department of Health, is one of the healthiest cities in the country. Its splendid water supply and efficient Department of Health mark it as unusual in its sanitary conditions. The great majority of the non-resident student body is housed in the most desirable sections of the city. Realizing that with the enrollment of the student, the School becomes responsible for his health as well as for his educational development, and that the efficiency of the student depends upon his condition of health, a committee on student health has been created to serve as an advisory committee to the student body. Students are urged to bring all cases of physical indisposition to the attention of some member of this committee. Any case of contagious disease should be immediately reported to some member of the Health Committee or to the Dean of Women.

STUDENT CLUBROOMS

Rooms have been equipped as Clubrooms with home comforts. In these rooms students find opportunity for quiet study or rest between classes. The women's room has
been refurnished this year, and the men's room is new in its whole equipment. These two splendid rooms are both the result of work by the students themselves.

**THE NORMAL CO-OPERATIVE STORE**

The Normal Co-operative Store, which has been in operation during the past six years, will be open during the Summer Term, affording opportunity for students to purchase books and other necessary supplies at reasonable prices.

The Co-operative Store enjoys a large student patronage. During the present school year the store will transact a business of approximately $25,000.

**THE WESTERN NORMAL HERALD**

The *Herald*, the official weekly publication of the school, made its first appearance in the Summer Term of 1916. It is issued as a four-page paper, newspaper size, each Wednesday morning. The *Herald* endeavors to chronicle faithfully all the important activities of the school. From time to time throughout the year special numbers are issued. These are devoted to art, music, industrial training, athletics, co-educational activities of a special nature, and other particular school interests. Every student and faculty member is a paid subscriber. The alumni also are giving the paper hearty support. The subscription price is one dollar for the forty-two issues of the year, Summer Term numbers included. Subscriptions may begin at any time.

**SUMMER SCHOOL FOR ATHLETIC COACHES**

This school is a natural outgrowth of the regular department of physical education for men and is particularly designed to render service to coaches and prospective coaches of Michigan who are unable to take the full work of the department. Even teachers, principals, and superintendents, who, though not actively engaged in coaching yet have some supervision of the athletic teams in their schools, may find it profitable to take the work of these short summer courses.
All those who enroll in this school will be expected to furnish for themselves such equipment as is necessary for the practical work of the courses. Tuition and fees will be the same as for other summer departments.

SOCIAL LIFE

Social life is encouraged in the Normal and every effort is put forth to further acquaintance among students and faculty.

Students from the same counties arrange for gatherings of social nature. Picnics at nearby lakes are planned and enjoyed. These is every opportunity for this as Kalamazoo is fortunate in having many nearby lakes, which afford boating, bathing and picnicking. Places suggested are as follows:

- White’s Lake, Oakland Drive Car.
- Pretty Lake Vacation Camp.
- Cooper Glen, four miles north of city.
- Gull Lake, one of Michigan’s most beautiful inland lakes.

Kalamazoo provides an unusual opportunity for grade teachers and special teachers of household arts, manual arts, and commercial geography to study industrial processes. Conducted excursions will be made to plants manufacturing paper, parchment, envelopes, automobiles, stoves, furnaces, tools, gasoline engines, saw mill machinery, tanks and silos, windmills, musical instruments, clothing, carpets, mattresses, bread, sanitary ware.

In order to make these excursions as profitable as possible, several of them will be preceded by the exhibition of a film of the industry and an informal talk on the points of major interests to teachers.

Student parties are arranged by the Social Committee for the enjoyment of the members of Summer School. General student parties are arranged for the following dates:

- Friday, June 30, and Friday, July 14.

Y. M. C. A.

The Young Men’s Christian Association of the Western State Normal School was organized in 1916. During the
past year it has manifested a very healthy growth which augurs well for its success during the coming year. It already ranks as one of the real factors of power at the Normal School. Meetings are held weekly in the Men's Clubroom.

Y. W. C. A.

The Young Women's Christian Association of the school has for its purpose the spiritual development of the young women and the promotion of social service among them. Beginning with the second week meetings will be held every other week during the Summer Term in the Women's Clubrooms of the same high grade as in previous years.

CHAUTAUQUA

For the ninth successive year the Redpath Chautauqua will be held on the Normal grounds during one week of the Summer Term. Programs will be given morning, afternoon, and evening. Prominent lecturers and musical organizations will appear, and the students will be offered attractions of the same high grade as in previous years.

LECTURES

June 30. Superintendent Fred M. Hunter, of the Oakland, California, Public Schools, will give the first of the series of Summer School lectures. Mr. Hunter's outstanding success as a superintendent was recognized two years ago by his election to the presidency of the National Education Association. He filled this great office with marked success. His splendid lectures are vitalized by a great personality.

July 7. Dr. Ernest Horn, of the Faculty of Education State University of Iowa, has won rapid recognition as a contributing student of education. His work as a member of the executive committee of the National Society for the Study of Education has been very valuable. Dr. Horn will present some results of his intensive studies of elementary education.

July 18. Dr. M. S. Rice, who is the dynamic minister of the North Woodward Avenue Methodist Episcopal Church
A CHAUTAUQUA AUDIENCE.
in Detroit, will give the fourth lecture. Dr. Rice is an intensive thinker on life as it is lived all about him today. He is an orator of splendid gifts, and his lecture on "Junk" will be a thought compelling experience for all who hear him.

July 31. Dr. S. C. Schmucker, the famous biologist and nature study lecturer and author of the State Normal School, West Chester, Pennsylvania, will give the concluding lecture of the series. Dr. Schmucker will come directly here from a two weeks' series of lectures in the Cleveland, Ohio, Normal School. Dr. Schmucker's lectures in the state institutions and meetings in Michigan have made him a favorite here, as elsewhere.
COURSES OFFERED

The courses offered in the Summer Term are as follows:

1. A. B. Degree.
2. Regular Certificate.
3. Special Summer.
4. Extension.
5. Lecture.

A. B. DEGREE COURSE

In the spring of 1918 the State Board of Education established in the normal schools of the state a four-year course of study leading to the degree of Bachelor of Arts. The Western State Normal entered upon this work immediately, and the second class in the four-year course will graduate with the A. B. degree this year in June. Courses offered during the Summer Term may be counted as credit towards the Bachelor's degree. Graduates in the Life Certificate courses and other students looking forward to a college education are urged to embrace this opportunity to advance their education and to approach nearer to the coveted goal.

REGULAR CERTIFICATE COURSES

A large number of classes will be formed in the branches included in the regular certificate courses. Several of these classes in the Life Certificate and Limited Certificate groups will meet twice daily thus enabling a student to cover the work of two twelve weeks' courses during the Summer Term. Classes will be formed in a wide variety of subjects in all the departments of the school.

SPECIAL SUMMER COURSES

Classes will be formed in all of the common school branches. These classes will be of special benefit to students and teachers who are preparing for the county examinations to be held in August. Opportunity will be offered
for reviewing subjects included in the first, second, and third grade examinations. As there will be no summer schools or institutes this summer in the counties near Kalamazoo, all teachers are urged to take advantage of the unusual privileges offered here.

Credits, earned in Special Summer Courses are recorded, and may be counted as credit toward a certificate or a degree.

The subjects in which Special Summer Courses will be offered are: Agriculture, Algebra, Arithmetic, Botany, Civil Government, Course of Study, General History, Geography, Geometry, Grammar, Orthography, Penmanship, Physics, Physiology, Reading, School Law, Theory and Art of Teaching, and United States History.

The School Commissioners of the counties which are affiliated with the summer school urgently recommend that teachers and students preparing for county examinations elect, when possible regular certificate courses.

COUNTY NORMAL DIRECTORS AND CRITICS

There is offered this summer a course in County Training Class Problems, and demonstration of rural school teaching will be given each forenoon in the Oakwood Rural School. This course is especially for teachers who are planning to teach in County Training Classes.

COUNTY COMMISSIONERS CONFERENCES

Commissioners of schools of the co-operating counties will be at the Normal School on Monday and Tuesday of the first week of the term. They will lunch together on Tuesday and will organize for any conferences which they may desire to hold during the term. In past Summer terms commissioners have appointed times for meeting their teachers for consultation and have co-operated with them in social gatherings. The Commissioners' conferences have discussed questions of county administration and supervision, always with the aid of the State Superintendent or his deputy, at one or more of their meetings.
NORMAL EXTENSION DEPARTMENT

Through the Extension Department the Western State Normal School offers opportunities to study in absentia for credit to capable students who are unable to be in residence during the regular year. Such non-resident credit when combined with resident credit earned during Summer terms is accepted on the various certificate courses and on the A. B. degree course.

All instruction is given by members of the regular faculty in classes which meet at frequent intervals, usually on Saturdays, in centers within range of the school, or by means of carefully organized courses offered by correspondence. As nearly as possible, all courses are equivalent to corresponding courses in residence.

A special announcement of this department will be furnished on application to the Extension Director.

THE EXTENSION LIFE CERTIFICATE

The Western State Normal was authorized in 1905 to grant extension life certificates to mature students who comply with the following conditions:

(1) Graduation from a high school, or its equivalent.
(2) Completion of the following work under direction of the faculty of the Western State Normal of six years of successful teaching experience.
   (a) Three Summer terms in residence.
   (b) Two years of non-residence work—either
       (1) Class work at a center within range of the school, or
       (2) Correspondence work under direction.

The object of the course is to meet the needs of those who otherwise would be deprived of opportunity for growth and advancement. Extra credits or substitution for residence study on the basis of work done elsewhere are not accepted. Numerous students already have completed the Extension Life Course.

After June 20, 1922 no more enrollments for the Extension Life Certificate can be received. Students already enrolled may complete their course.

Special announcements bearing on the workings of the
Extension Course will be mailed to those interested, if they address The Extension Director, Western State Normal School, Kalamazoo, Michigan.

INFORMATION FOR BEGINNING TEACHERS

Special Summer courses in the common school subjects are offered primarily for students who are preparing to teach for the first time and who intend to take the August teachers' examination. It is assumed that these students are high-school graduates and prepared to do a high order of work. Students may enroll in as many of these courses as they can carry with profit, but they may not count such work for more than twenty-four weeks of credit toward a certificate, without the previous consent of the director of these courses. Should students who earn credit in Special Summer courses subsequently elect regular Certificate and Degree courses covering in part the same field, the credits earned in Special Summer courses will become void.

By a state law passed in 1915 no teacher's certificate can be granted to any person without experience unless he has had at least six weeks of professional training. The State Superintendent of Public Instruction has specified that the required professional training shall consist of six weeks of each of the following: Observation and Practice Teaching; The Teaching of Reading; The Course of Study and Class Management; Physical Training; and six weeks of any one of the following: Agriculture, arithmetic, geography, history, grammar, language, physiology, writing, music, and drawing. This summer term as in previous years the first two specified six weeks requirements—Observation and Teaching Reading will be combined into one twelve weeks course called Method and Reading. This is done to simplify observation schedules in the Training School.

A part of the questions for all grades of certificates in the teachers' examinations for April and August, 1922, will be based on the State Teachers' Reading Circle books for 1921-22, and a part on certain bulletins issued by the Department of Public Instruction.

The State Teachers' Reading Circle books for the year are
Overman's *Principles and Methods of Teaching Arithmetic*, published by Lyons and Carnahan; Pearson's *The Reconstructed School*, published by the World Book Company; and Sandwick's *How to Study and What to Study*, published by D. C. Heath and Company. W. T. Bishop, Lansing, Michigan, is the state distributor of these books.

The questions for the examination of teachers will be based in part on the foregoing books for the subjects of Arithmetic, Course of Study and Theory and Art. Bulletins of the State Department of Public Instruction which will be used in preparing for examination are: Bulletin No. 4, *The Teaching of Reading*; Bulletin No. 10, *Word Study and Spelling*; and Bulletin No. 30, *Language Lessons.*
PROPOSED LIBRARY—SOON TO BE A REALITY.
DETAILS OF DEPARTMENTS

SPECIAL SUMMER COURSES

Ernest Burnham, Director

BIOLOGY

A. Teachers' Physiology. A brief course covering the essentials of physiology and hygiene. While the functions of the various systems of the body will be especially emphasized, yet enough anatomy will be given to furnish an understanding of the various organs. Hygienic considerations will be adequately treated. Bring all available textbooks. 6 weeks' credit. MR. PLACE.

B. Teachers' Agriculture. This course will cover the general field of agriculture, dwelling upon those phases of the subject which seem practical. Students should bring all available texts on elementary agriculture. 6 weeks' credit. MR. DAY.

C. Teachers' Botany. The course is planned to cover the materials and methods of elementary botany. The work will be founded upon the available secondary texts. Bring all available texts. 6 weeks' credit. MR. DAY.

EDUCATION

A. Management and Course of Study. It will be the aim of this course to make as careful a study of the State Course of Study for Rural Schools, School Management and Law as the time will permit. Students having books or references on these subjects will do well to bring them. 6 weeks credit. MISS CARTER. MR. LIVERMORE. MISS PAULSON. MR ROOT.

B. Method and Reading. This is a course in principles of teaching adapted to the needs of summer term students.
who expect to teach in rural schools. Observations will be made regularly in the training school on the campus and in the rural training school at Oakwood. Special emphasis in this course will be given to the teaching of reading. The State Department bulletins on Reading and Word Study, and Freeland's *Modern Elementary School Practice* will be used.

MISS MUNRO. MISS MILLER. MISS SHAW.
MISS ENSFIELD. MISS LANDON. MISS BOWMAN.
MRS. HUTCHINS. MISS WILLIAMS.

**ENGLISH**

A. *Reading and Orthography.* The aim of the course is to give the student some acquaintance with the fundamental principles involved in the teaching of reading and spelling. The work of the course is based upon Bulletin No. 4, *The Teaching of Reading,* and Bulletin No. 10, *Word Study and Spelling,* both prepared by the State Department of Public Instruction. 6 weeks' credit.

MISS OTIS.

B. *English Grammar.* The course provides a thorough drill in the fundamentals of English grammar, to insure mastery of the subject on the part of those preparing to teach. Reference will be made to State Department Bulletin No. 30, *Language Lessons.* 6 weeks' credit.

MISS OTIS.

**GEOGRAPHY**

A. *Geography.* This course is worked out with the needs of the rural school definitely in mind. It consists of a study of (a) principles of geography, and (b) the geography of regions. 6 weeks' credit.

MR. DAY.

**HISTORY**

A. *General History.* A general survey of the subject, intended primarily for teachers preparing to take the examination for a second-grade certificate. 12 weeks' credit.

MISS BURNHAM.
B. United States History. A course to meet the needs of students preparing for the August examination. The work will be based on Democracy and the Great War, by Fuller, published as Bulletin No. 20, by the State Department of Public Instruction. 6 weeks' credit.

Mr. Fisher.

C. Civil Government. The purpose of the course is to make prospective teachers thoroughly familiar with the principles and ideals of American government. Bring all available textbooks. 6 weeks' credit. 

Mr. Fisher.

MATHEMATICS

A. Plane Geometry. Designed for those who are preparing for teachers' examination or for students who wish to review the subject as a preparatory course. Much attention is given to method of attack. One section. 6 weeks' credit.

Mr. Cain.

B. Arithmetic. A review for those desiring to prepare for teachers' examination. Sections will be organized for all grades of county certificates. 6 weeks' credit.

Mr. Cain. Mr. Ackley.

C. Algebra. Review course for those preparing for teachers' examination or for students who wish to review the subject as a preparatory course. 12 weeks' credit.

Mr. Ackley.

PHYSICAL EDUCATION

A course in Plays and Games will be given to all students taking special summer courses. This course will consist of graded games to be used on the playground and during recess period. Attention will be given to material as designed in the Michigan Bulletin of Physical Training. Also one period taken from the physical education requirement will be given over to lectures in hygiene.

Gymnasium shoes or soft rubber soled shoes will be required of all students taking the Plays and Games course. Sections will be formed for both men and women.

Miss Guiot. Miss Spalding. Mr. Taylor.
A. Teachers' Physics. The aim in this course is two-fold: (1) to give those who wish it a comprehensive grasp of the field of elementary physics such as is needed by those desiring to take county or state examinations in the subject; and (2) to help teachers in the grades or junior high school to organize materials for work in physical nature-study, and general science. 12 weeks' credit.

Mr. Rood.
REGULAR DEGREE AND CERTIFICATE COURSES

ART

102. Teachers' Art. This course covers the work in public school art in the early elementary and later elementary grades—in drawing, painting, free-hand cutting, and designing from nature in plant, animal, landscape, and figure work leading to the illustration of other school subjects. Practical problems of illustrated compositions will be included. 12 weeks' credit. MRS. STRUBLE.

104. Handwork I. Elementary problems which include materials such as clay, paper, cardboard, roving and pine needles. This course is open to students without previous art work and all students preparing to teach in the grades are urged to take it. Twelve weeks' credit. Fall, Winter, Spring, and Summer terms. MRS. STRUBLE.

105. Handwork II. Advanced problems in pottery and the use of the kiln taught by actual firing for the biscuit and for the glazing. Rug making, basketry and bookbinding, also a study of the industries will be included. Pre-requisite, course 104. 12 weeks' credit. Spring and Summer terms. MISS STEVENSON.

108. Pictorial Composition. A study of the fundamentals of pictorial design based on related areas of dark and light and tone value, charcoal being the medium used. This class is for advanced students. 12 weeks' credit. MISS STEVENSON.

119. Commercial Art. This course is an advanced course for students and teachers of art. Practical problems
in printing illustrations and design-book covers, posters, and other practical school problems will be included. 12 weeks' credit.  

MISS STEVENSON.

BIOLOGY

110. Fundamentals of Biology. This course is introductory and is planned to present the great fundamental truths of biology to the end that the student may acquire the biological point of view which is a desideratum in modern educational, sociological, and ethical considerations. An effort will be made to develop in the student the scientific attitude of mind. Evolution, heredity, and eugenics receive special treatment. 12 weeks' credit.  

MR. PRAEGER.

111. Nature-Study. The purpose of this course is to present the ideals and methods of nature-study, to arouse in the student the inquiring attitude toward natural phenomena and the original solution of the problems that develop, to acquaint the student with available materials for each of the four seasons, and to give him a grasp of the literature of the subject. The nature-study classes have the benefit of the school agricultural gardens. Field and laboratory work are devoted to identification and ecology of our common plant and animal forms, with special stress on trees, birds, flowers, insects. 12 weeks' credit.  

MISS HADLEY.

112. Hygiene of School Child. A course for teachers dealing primarily with such problems as malnutrition in school children, factors influencing growth, physiological differences between children and adults, schoolroom ventilation. Personal hygiene and prevention of contagious diseases will not be lost sight of. Terman's The Hygiene of the School Child will form the basis of the course. 6 weeks' credit.  

MR. PLACE.

118. Hygiene. The factors of both personal and social hygiene are considered with special emphasis on the causes of ill-health and disease, their control and prevention. 12 weeks' credit.  

MR. PLACE.
121. Heredity. This course is devoted to a more detailed study of the factors of evolution, which were only briefly treated in course 120, with special emphasis upon variation and heredity. The attempt is to give the student a grasp not only of the principles involved, but of the problems and the methods of investigation. Specially planned for third-year and fourth-year students. Biology 120 is a desirable prerequisite. 12 weeks' credit. Winter term.

Mr. Praeger.

124. Club Leadership. This course acquaints the student with the problems and methods of organization of boys' and girls' clubs. The satisfactory completion of this course should enable the teacher to carry on intelligently the clubwork now being extensively organized throughout the state under Federal, State and County leaders. 12 weeks' credit.

Miss Hadley.

125. Bird and Tree Study. The class will meet four times a week. Early morning tramps will be taken several times during the course for special bird study. The common trees of Michigan will be studied. 6 weeks' credit.

Miss Hadley.

CHEMISTRY

101. General Chemistry. This course covers the first term's work in general college chemistry. Laboratory work is required. Twice daily. 12 weeks' credit.

Dr. McCracken.

101. General Chemistry. This course covers the second term's work in general chemistry. Laboratory work is required. Twice daily. 12 weeks' credit.

Dr. McCracken.

113. Chemical Nature Study. This course is designed to give the student some knowledge of the facts of chemistry and of experiments that may be of use in the grades. No previous knowledge of the subject is required. Twice daily. 12 weeks' credit.

Dr. McCracken.

Note. Students desiring laboratory work in qualitative or quantitative analysis will be accommodated.
COMMERCE

Students expecting to enroll for commerce subjects should communicate with Mr. Pennell at their convenience.

101. Accounting. The theory of the double entry system, analysis and classification of transactions, problems in technique, closings and statements. 12 weeks' credit.  
Mr. Pennell.

103. Accounting. A study of the corporation, its accounting and financial problems. Valuation of particular assets as met in the commercial balance sheet. 12 weeks' credit.  
Mr. Pennell.

103. Typewriting. Advanced. Prerequisite, course 102. 6 weeks' credit.  
Miss Norton.

104. Shorthand. Graded dictation, transcription and methods of teaching shorthand. The course is open especially for shorthand teachers. Prerequisite: Course 103 or equivalent. 12 weeks' credit.  
Miss Wick.

110. Office Management. Principles of office administration, location, layout, methodizing, communication, control of correspondence and other activities. A detailed discussion of filing. Laboratory dictations. 6 weeks' credit.  
Miss Norton.

111. Commercial Correspondence. Designed to develop facilities in various forms of letter-writing for business use; to establish standards of judgment for form and expression by an analysis of the principles embodied in the best modern business letters; to develop individuality of style. Prerequisite: Shorthand 103 or equivalent. 12 weeks' credit.  
Miss Wick.

114. Commercial Education in Secondary Schools. An intensive study and discussion of the various larger problems concerned with the organization and administration of commercial education in public secondary schools. Not open to first-year students. 12 weeks' credit.  
Mr. Pennell.
SESSION OF 1921.
EARLY ELEMENTARY EDUCATION

101. Early Childhood Education. A course planned primarily to acquaint the student with the fundamental characteristics of childhood—its interest and instincts, its physical nature and needs. Required observations, readings, and reports in addition to classroom work. The course runs parallel with Content of Curriculum 102. Required in Early Elementary Course. 12 weeks' credit. Miss Coppens.

102. Content of Curriculum. The purpose of this course is to acquaint the student with the subject-matter of the kindergarten and first two grades, together with methods of presentation. The various activities considered include handwork, nature-study, literature, arithmetic, etc., centered about community and social projects of interest to young children. The course runs parallel with Early Childhood Education 101. Required in Early Elementary Course. 12 weeks' credit. Miss Coppens.

104. Beginning Reading. This course deals largely with the physiological, psychological, and pedagogical problems found in teaching little children to read. A study is made of kindergarten activities which may be used as a basis for beginning reading. Emphasis is placed on the study of the modern methods now in use. Standards for judging methods and material are worked out. Students will be given opportunity to observe reading classes in the training school. 12 weeks' credit. Miss Spindler.

EDUCATION AND PSYCHOLOGY

101. Principles of Teaching. The purpose of this course is to establish a definite notion of the aim of education to show the close connection of education as a human institution with social order and progress; to formulate a few fundamental principles underlying the teaching process. The course will include such topics as the curriculum, moral and social training, discipline, type lessons, questioning, and lesson plans. Standards for judging class-
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WESTERN STATE NORMAL SCHOOL

room instruction are worked out and systematic observa-
tion of classes in the training school is made. This course
must precede practice teaching. At least one term of
Psychology is a prerequisite to this course. 12 weeks' credit.

MISS SPINDLER.

102. Rural Education. This course will utilize new
material collected this year from states and institutions.
A general view of progressive activities in rural educa-
tion will be utilized as affording perspective for intensive
study of the problems which are directly related to the
service needs of members of the class. Questions of main-
tenance, organization, supervision, teaching and curricu-

101. Industrial Arts. A practical course in selection of
industrial materials suitable for use in the grades. It
will aim to select the curriculum which will bring the life
of the school into closer touch with life outside of school;
to develop better judgment in determining the worth of
products; better judgment and taste in selection of cloth-
ing and furniture and more knowledge of the necessary
food elements. It will include the study of foods, shelter,
clothing, records, utensils, tools and machines related to
the needs of the group. 12 weeks' credit. Teacher to be
selected.

129. School Administration. This is a course for super-
intendents, principals and supervisors, and for those class-
room teachers who wish to understand better the condi-
tions under which they work and desire to co-operate in-
telligently with those directly in charge of administration
in the improvement and development of the school system.
The course covers the general theory of educational control,
the relationship of the Federal Government and the State
Government to the schools, and the problems of Rural and
Urban School Administration. Elective. 12 weeks' credit.

MR. WILDS.
130. Philosophy of Education. The meaning of philosophy, the nature of reality as posited by dualism, materialism, and idealism; conceptions of space and time, and the uniformity of nature and causation; rationalism, empiricism, and pragmatism; problems of morality and of a working philosophy of life. Elective. 12 weeks' credit. DR. COOLEY.

134. Psychology of School Subjects. The course will deal with recent development in methods of instruction in elementary school subjects. Prerequisite: Psychology 101, and Principles of Teaching 101. MR. ELLSWORTH.

137. High School Problems. This is a course for High School Principals, Assistant Principals and those who are interested in the work of administration and supervision in Secondary Schools. The course will consider the problems met in this field of education. The class will be divided into committees and after some preliminary lectures and discussion, the rest of the term will be used in hearing and discussing the reports of the various committees appointed. Those who are going to take this course should bring with them any blanks, booklets, record or data from their own schools which they believe will make a contribution to the work of the class. Elective. 12 weeks' credit. MR. FISHER.

140. Moral Education. The origin of moral ideas among primitive peoples; from custom to conscience; the effect of critical rational thinking on moral problems; problems and types of moral theory; harmonization of personal and social ends; ethical problems of the self, the family, the state and economic life. Ethics of the teaching profession. Elective. 12 weeks' credit. DR. COOLEY.

PSYCHOLOGY

101. Introductory Psychology. A course for beginners, consisting of lectures, recitations, quizzes, and laboratory. Required in all courses. 12 weeks' credit. MR. RENSHAW. MR. CULP.
102. Educational Psychology. An advanced course in
the psychology of education. Emphasis is placed upon the
studies in the laboratory, which comprise at least half of
the work of the course. Prerequisite: Psychology 101 or its
equivalent. 12 weeks' credit.

Mr. Renshaw. Mr. Wilds.

103. Genetic Psychology. Treats of the mental and physi-
cal conditions of life during childhood and adolescence
with special reference to their influence upon educational
practice. Prerequisite: Psychology 101 and 102. 12 weeks'
credit.

Dr. Henry.

106. Tests and Measures. A practical course in the use
of the standard tests and scales for measuring achievement
in the various school subjects, and of the more widely used
of the available group tests for intelligence. Must be pre-
ceded by Psychology 101 and 102. 12 weeks' credit.

Dr. Henry.

ENGLISH

101. Composition. This course aims to help the student
in the use of composition as a practical art. Emphasis is
placed upon sound organization of material and clear ex-
pression of ideas. To this end some time is given to the
reading and analysis of several representative prose selec-
tions, and much practice work is done in the writing of
short themes. A number of detailed outlines are developed,
and at least one exposition of approximately 1,000 words is
undertaken, preferably upon some subject of interest and
value to the individual student. While a knowledge of the
principles of punctuation, grammar, and rhetoric is pre-
supposed, critical attention is paid to their application and
to the observance of the ordinary manuscript conventions.
12 weeks' credit.

Miss Nobbs. Miss Masters.

101b. Advanced Composition. A general discussion of
the four forms of discourse with the analysis of specimens
of each form. Most of the time will be devoted to the writ-
ing and correction of themes. This course follows and pre-
supposes Composition 101. 12 weeks’ credit.

Miss Nobbs.
103. Literature for Children. This course aims: (1) to give a general survey of the field of literature suited to the needs and tastes of children; (2) to get at the general principles which underlie the selection of literature for children under any given conditions; (3) to organize and give new meaning to the mass of suitable literature already read, and to add largely to its content by further reading. While this is primarily a course in literary material for class use, some attention will be paid to the subject of general reading for children, both inside and outside of school. MacClintock's Literature in the Elementary School will be used as a basis for the discussion of principles. Students will save time by bringing with them a good collection of fairy tales; an anthology of poetry for children; a mythology; the Iliad, the Odyssey, the Nibelungenlied, the Song of Roland, the Morte D'Arthur, the Old Testament, and Beowulf, or any simplified stories founded upon these; Gulliver's Travels; Alice in Wonderland. As to prerequisites, some knowledge of child psychology and much knowledge of literature are desirable but not indispensable. This is a course in reading and in the application of principles. Notebooks will be kept and brief reports will be submitted, but no long papers will be written. 12 weeks' credit.

MISS RAWLINSON. MRS. BISCOMB.

112. American Literature. The course is intended for students who did not have a comprehensive course in American literature in the high school. The work will consist of a general survey of the whole field of American literature and a special study of the more important masterpieces. Open only to first year college students. 12 weeks' credit.

DR. BROWN.

121 Masterpieces. The purpose of this course is to acquaint students with the methods of studying and presenting various types of literature. Such masterpieces as The Faerie Queen, Tom Jones, Wordsworth's Prelude and Excursion, and The Idylls of the King will be read and analyzed. Reports and one long essay will be required. Open to advanced students only. 12 weeks' credit.

DR. BROWN.
115. Literary Criticism. A careful study of the fundamental principles of literary criticism, supplemented with wide reading in English critical essays. Each student writes several short criticisms. The work of the course is arranged to develop in the student a sound critical judgment and to cultivate the habit of careful criticism. Open only to third year and fourth year students who have had preliminary courses in composition or rhetoric, and sufficient literature or foreign language to give them a background for the course. 12 weeks' credit. Mr. Sprau.

123. Tennyson. This course is for those advanced students who care enough for Tennyson's poetry to study it carefully in order that they may more fully understand and appreciate it. The course is intended primarily for third-year and fourth-year students who are specializing in English or electing it in place of foreign language. Other students who are prepared to do the work may be admitted only with the consent of the instructor. 12 weeks' credit. Mr. Sprau.

GEOGRAPHY

101A. Principles of Geography. A study of the chief climatic types and their influences upon life. Brief attention is given to the major mathematical elements of the earth and the general principles of map-making. The following regions are studied.

1. The Tropical Rain Forests: The Amazon Valley.
2. Savannas: The Sudan.
3. Tropical Deserts: Sahara and Arabia.

12 weeks' credit. Miss Harrison.

101B. Principles of Geography. A study of specific regions to illustrate the influence in life of the people of the geographic elements—location, climate, relief, minerals and soil, coastline, waterways, etc. The work is based upon school texts, and will include a study of plans of the various
authors in presenting material. A study of the problem method in geography, and in general of the methods of handling the texts now in use in the grades. Prerequisite: Course 101A 12 weeks' credit. Miss Harrison.

102. Geography of North America. A study of the leading geographic elements of the continent, its world relations, climate, relief, mineral and power resources, soils and agriculture, forests, plant and animal industry, manufacturing and commerce, together with the leading physiographic units of the land. 12 weeks' credit. Mr. Wood.

109. Economics and Commercial Geography. The geographic factors influencing industry and commerce; the geography of the regions in which important articles of commerce are produced; the principal trade routes of the world; trade centers; important commercial areas. 12 weeks' credit. Mr. Wood.

HISTORY AND THE SOCIAL SCIENCES

HISTORY

102. United States History. 1789 to 1865. This course treats American History from the inauguration of Washington to the close of the Civil War. The organization of the government under the Constitution, the rise of political parties, the movement into the West, the influence of the frontier, the industrial revolution and its consequences, the rising tide of democracy, the slavery controversy, the sectionalization of the country and the Civil War are among the chief topics studied. The course is the second of a sequence of three courses covering a year's work in American History. The third and first courses in this subject will be given in succeeding summer terms. Elective. 12 weeks' credit. Two sections. Mr. Wichers.

109. Modern Europe. 1870-1921. The history of the third French Republic, political and social reform in England, the German Empire, the problem of the Near East, the expansion of Europe in Asia and Africa, international relations, the World War. This course is the third of a sequence
of three courses covering a year's work in Modern European History. The first and second of these courses will be given in succeeding summer terms. Elective. 12 weeks' credit.

Dr. Scott.

113. United States History. 1789-1815. This course begins with the adoption of the Constitution and treats in detail the organization of the government under it, the rise of political parties, the reign of Federalism, the triumph of Jeffersonian democracy, and the influence upon America of the Revolutionary and Napoleonic wars in Europe. Open to third and fourth year students only. Elective. 12 weeks' credit.

Mr. Shilling.

Economics

101. Principles of Economics. A course designed to present the fundamental laws and facts regarding the production, distribution, and consumption of wealth. It includes a brief study of industrial expansion in the nineteenth and twentieth centuries; the meaning and determination of value and price; an analysis of human wants and the resulting consumption; the contributions of natural forces, labor, capital, and business organization to the production of wealth; and the place of rent, wages, interest, and profits in the distributive process. Not open to first-year students. Elective. 12 weeks' credit.

Mr. Foth.

101B. Principles studied in 101A are applied to practical economic problems including money and banking, savings and investments, railroads, foreign trade, monopolies, trusts, taxation, the labor situation, social insurance and socialism. Not open to first-year students or to others who have not had 101A or its equivalent. Elective. 12 weeks' credit.

Mr. Foth.

103. Sociology. A study of social relations and activities in small communities. An elementary text-book in general sociology and a text dealing specifically with village and country life are used. A collection of source materials illustrating the co-operation of teachers and schools in local community activities is available. Required in
Limited Certificate Course. Elective in other courses. 12 weeks' credit.

Dr. Burnham.

101A. Sociology. This course is the first twelve weeks of one year's work in the subject. It is open to second year and advanced students and is a general introductory study of the subject. The origins, kinds, elements and structure of society will be discussed and an attempt to interpret and illustrate the scope, purpose and method of a rational outline of social evolution will be made. 12-weeks' credit.

Dr. Scott.

HOUSEHOLD ARTS

FOODS AND COOKERY

107. Cookery. This course offers practical work in the cooking of all classes of foods, such as cereals, vegetables, meats, eggs, breads, pastry, salads, and desserts. Breakfasts, luncheons, and dinners are planned, cooked and served by the group. Open to all students. 6 to 12 weeks' credit.

Miss Rafferty.

108. Nutrition. The object of this course is to teach the group proper selection, nutritive value, and preparation of food, and the importance of a well balanced diet for adults and children. Planning and serving of meals. Open to all students. 6 or 12 weeks' credit.

Miss Moore.

CLOTHING


Miss Blair.

108. Clothing. Study of line and proportion of figure, and clothing design in relation to general fitness. Study and designing of simple waist and skirt patterns, and making of cotton dress. Four demonstration lectures on problems and general processes in home millinery, including making, remodeling, and covering of buckram frames, and
the fundamentals in wire frame work. 6 or 12 weeks' credit.  

MISS BLAIR.

LATIN

Review of Beginning Latin.* A course designed to meet the needs of those who desire a complete review of the first year of Latin. No credit. 

MISS KRAFT.

*Note: Candidates for the Bachelor of Arts degree may elect this course without previous preparation. 12 weeks' credit.

2 or 101. Selections from Cicero. Sallust and Caesar's Civil Wars will be read. Credit will apply on second or third year Latin or on Normal credit. 12 weeks' credit.

MISS KRAFT.

106. Latin. Selected Readings in Latin. This course will be adapted to the needs of the students electing it. Selections from the V. Book of Caesar's Commentaries, the Orations of Cicero, the VII. Book of Virgil's Aeneid, or the letters of Cicero and Pliny, with a study of the corresponding period in Roman history, might be chosen. The course is recommended for students who wish to gain twelve weeks' credit in Latin to be applied on the Freshman or Sophomore college course. Open to students who have had three or more years of Latin. 12 weeks' credit.

MISS KRAFT.

105. Mythology. A study of the mythology of the Greeks and the Romans. Special emphasis will be laid upon the use of these myths in literature and art, and their use in the teaching of children. The course is not limited to classical students. 12 weeks' credit.

MISS ZIMMERMAN.

LIBRARY

101. Library Methods. A course of ten lessons on the use of the Library will be offered during the Summer Term. This course is required of all students, preferably during their first year. No credit. Two periods a week.
NEW MANUAL ARTS BUILDING—NOW BEING OCCUPIED.
MANUAL ARTS

101. Woodshop. A beginners course in the fundamentals of woodworking. Includes working drawing, blueprint reading, care and use of bench tools and wood finishing. Particularly valuable for those having had practical experience and who wish to prepare for teaching as this course also includes the development of course outlines suitable for Junior High School shop classes. 4 hours, 12 weeks' credit. 2 hours, 6 weeks' credit. Fee $3.00.

Mr. Sherwood.

102. Woodshop. A more advanced course in woodworking with particular emphasis on technic of tools, grinding and sharpening as applied to lathe work and elementary pattern making. Includes molding, and casting of patterns in soft metal core making. Trips are made to local pattern shops, foundaries and machine shops. 4 hours, 12 weeks' credit. 2 hours, 6 weeks credit. Fee $3.00.

Mr. Sherwood.

105A. Wood Shop. Introductory course in the use and care of wood working machines. This course includes the fundamental in furniture design and construction, and the finishing of projects made. Organization of a course of study for junior and senior high school classes. Pre-requisite 101 Woodshop. Fee $3.00. 2 hours, 6 weeks'

Mr. Nichols.

104. Wood-turning. Elementary course in the fundamentals of wood turning. This course includes spindle and oval turning, chuck and face plate work. Special attention is given to tool grinding and the care of various types of wood lathes. Organization of a course of study suitable for Vocational or high school classes. 2 hours, 6 weeks' credit. 4 hours, 12 weeks' credit. Fee $3.00. Mr. Nichols.

105. Advanced Pattern Making. Advanced course in wood pattern making, built up patterns, segment work and pulley construction. Practical patterns for machine parts supplemented by the molding and casting of the patterns made in soft metal. Some attention is given to simple core making. Trips are made to the various foundries
and pattern shops. Pre-requisite Woodshop 102. 2 hours, 6 weeks' credit. 4 hours, 12 weeks' credit. Fee $3.00.

Mr. Nichols.

106A. Machine Shop. An elementary teacher training course in mechanic shop practice involving simple bench, lathe and shaper problems. 2 hours, 6 weeks' credit. 4 hours, 12 weeks' credit. Fee 3.00.

Mr. Weaver.

106B & C. Machine Shop. Advanced shop practice for those who have completed elementary machine shop courses. Job work along commercial lines and the machine operations involved give a practical knowledge of machine shop procedure and a well rounded experience. A complete new equipment and a revised course make this an exceptional opportunity for those who expect to teach Machine Shop Practice. 4 hours, 12 weeks' credit. 2 hours, 6 weeks' credit. Fee $3.00.

Mr. Weaver.

107A. Forge Shop. A teacher-training course involving problems suitable for Junior and Senior High School classes. Work consists of drawing out, upsetting and welding projects in mild steel, using hand tools and power hammer. A study of the heat treatment of steel to obtain desired physical properties. Work involves processes in hardening, annealing and tempering with temperatures regulated by use of Pyrometer. 2 hours, 6 weeks credit. 4 hours, 12 weeks' credit. Fee $3.00.

Mr. Weaver.

108. Mechanical Drawing.

A. Beginning drawing—use of instruments, lettering, simple working drawings, tracings, blueprinting, blueprint reading, sketching. 12 weeks' credit. Mr. Lane.

B. Drawing technique, machine details, simple assembled drawings, outside study of surface development, isometric and cabinet drawing, lectures and quizzes. 12 weeks' credit. Mr. Lane.

C. Teacher's course in Mechanical Drawing. Lesson Plans, Courses of Study, invoices, equipment layouts. 12 weeks' credit. Mr. Lane.
A. Elementary machine design. Cams, gears, link motions, shop drawings, tracing, blue printing. 12 weeks' credit. 
Mr. Huff.

B. Continuation of shop drawing, sketching, working drawings of machine details, semi-original machine design and detailing. 12 weeks' credit. 
Mr. Huff.

C. Large assembly and cross-section drawing of gasoline engines or power-driven machinery. 12 weeks' credit. 
Mr. Huff.

112. Architectural Drafting.
A. Architectural lettering, conventions, details of house framing and construction original plans for summer cottage or small building, estimating, etc. 12 weeks' credit. 
Mr. Huff.

B. Semi-original architectural drawing. Study of prize houses, architectural styles, influence of prominent architects, lectures and lantern slides. 12 weeks' credit. 
Mr. Huff.

C. Continuation of architectural drawing. Original plans, elevations, details, tracing, blue printing. 12 weeks' credit. 
Mr. Huff.

116. Printing. A beginners course in printing in which the fundamentals of job-printing and their application to Junior High School classes are thoroughly worked out. Includes trips to commercial printshops and lectures by competent men from the trade. 4 hours, 12 weeks' credit. 2 hours, 6 weeks' credit. 
Mr. Sherwood.

117A. Auto Shop. An Elementary course in the fundamental operating principles of the modern automobile. Particularly available for those intending to teach auto shop regardless of previous experience. 2 hours, 6 weeks' credit. 4 hours, 12 weeks' credit. Fee $3.00. 
Mr. Tabraham.

117B. Auto Shop. A continuation of course 117A with practical problems of the repair shop suitable for the Junior
High School. 4 hours, 12 weeks' credit. 2 hours, 6 weeks' credit. Fee $3.00.

117C. Auto Shop. An advanced course in auto mechanics including special work in starting, lighting and ignition repairing; battery building; vulcanizing, and sheet metal work. 2 hours, 6 weeks' credit. 4 hours, 12 weeks' credit. $3.00 Fee.

MATHEMATICS

101. Arithmetic. A teachers' course. To elect this course the student should have a knowledge of geometry and of the beginners' course in psychology. The work consists of lectures and discussions on the history and teaching of the subject, with assigned reading. Extended treatment of typical problems of applied arithmetic. 12 weeks' credit.

Mr. Blair.

102. College Algebra and Analytic Geometry. Rectangular and polar co-ordinates, simultaneous linear equations, determinants, relations between straight lines. 12 weeks' credit.

Mr. Blair.

103. Plane Trigonometry. This is equivalent to the work done during the regular session. Solution of triangles by both natural and logarithmic functions. 12 weeks' credit.

Mr. Ackley.

MODERN LANGUAGES

101. First Year French. To answer a demand, a course in Beginners' French will be given, with a view to offering second and third term work during following successive summers. Only those should enroll who plan to complete a year's work. The course will consist of the rudiments of grammar, and careful drill in pronunciation, with stress on the oral side. 12 weeks' credit.

Mrs. Hockenberry.

110. Rapid Reading Course and Grammar Review. Vocabulary is acquired by much and rapid reading and the course is intended for those who have made a beginning of text reading. It will be for thought content rather than
translation. Secondary texts will be used. One day will be devoted to grammar. 12 weeks' credit.

MRS. HOCKENBERRY.

112. French Pronunciation, based upon the Phonetic Method. This course is designed for students who teach, or are planning to teach French. It will include a short review of the physiology of the organs of speech; a careful drill in the use of phonetic symbols, adapted to the need of elementary classes; and practical exercises in pronunciation. 12 weeks' credit. Miss TAMIN.

114. Conversational Course. The aim of this course is to give the student self-confidence in the use of idiomatic French. Text-book incorporating every-day topics will be used; each of these topics will be discussed fully in the class-room by the students. 12 weeks' credit.

MISS TAMIN.

MUSIC

All work done in the Music Department will be credited toward the regular music course or applied on a degree.

Negotiations are pending for a concert to be given by some artist of national reputation. A student recital will be scheduled during the term.

Communities are looking to the supervisors of music as the logical leaders in musical activities. The outlook for a great growth and development in the musical world through the public schools is more in evidence than ever before in the history of education. It is in anticipation of this more extended musical activity that the Western State Normal is offering courses to promote the music life and growth in Michigan. Special courses are being scheduled to meet the demands of Music Supervisors.

128. Musical Administration. The course in Musical Administration will be of special interest to music supervisors as it will deal with the music problems as they exist in the various communities. The following topics will be discussed and outlined:

Musical Activity.
Music Memory Contest.
Concerts and Festivals.
Class Instrumental Music.
Music Clubs.
Material for High Schools.

**MR. MAYBEE.**

129. **Song Repertoire.** This course is designed to acquaint the student with the new material that is available in the song world. Many excellent songs are coming from the pens of our American composers. **MISS COMBS.**

130. **High School Opera.** Several of the standard operas are being arranged for High School use. One or two of these will be used and presented during the summer school. This sort of work is meeting with the most hearty commendation. Communities are looking to the supervisors of Music as the logical leaders in musical activities. **MR. MAYBEE.**

101. **Elements of Vocal Music.** This is an academic course, and should precede the Teachers' Course in Music. It presupposes no previous knowledge, but deals with the very rudiments of vocal music. It consists of the cultivation of the ear, the voice, and the beginning of sight singing. The course covered is that of Book One of any of the standard music courses, and may be eliminated by examination. 12 weeks' credit in Music, and in Art and Music courses. **MRS. JONES.**

123. **Voice Culture I.** This course includes both concert and individual work. Correct breathing, proper placing of the voice, clarity of tone, articulation and enunciation will be treated specifically. Some songs will be taken up for interpretation. This course is open to all students. Laboratory credit, 6 weeks. **MR. MAYBEE.**

106. **Teachers' Course in Music.** This must be preceded by course 101 or its equivalent. Advanced sight reading and ear-training are taken up in this class; discussion of methods, and practice teaching during the class period as a preparation for teaching this subject in the first eight grades. Observation is made in the Training School. 12 weeks' credit. **MR. MAYBEE.**
108. Primary Songs and Games. This course is a suggestive one for teachers in the primary grades as well as for specializing students. The following phases will be developed: Rhythm—feeling for and interpretation of different rhythms through games, balls, percussion instruments, folk dances, and rhythmic steps. Songs—a sequence applicable to seasons and school festivities, taken from the best composers of children's songs, will be learned. The care of the child's voice will be considered. Ability to play the rhythmic studies and accompaniments is desirable and is required from specializing students in the Early Elementary and Music courses. Observations may be made in the Training School. 12 weeks' credit.  

Mrs. Davis.

Special Supervisors Courses

109. Harmony and Ear-Training. This course is offered to meet the demand of the work in ear-training, melody writing and elementary harmony in the upper grammar grades and high school. 6 weeks' credit.  

Mr. Henderson.

113. Musical Appreciation and Biography. This course will cover the lives and works of the great masters from Bach and Handel down to the present time. Biographical notebook and programs suitable for grades and high school will be worked out. The Victrola will be used in this course. 12 weeks' credit.  

Mr. Maybey.

114. Advanced Harmony and Musical Composition. This course consists of a review of elementary harmony, and of advanced work. It should be preceded by a year's work in elementary harmony. This course will be of exceptional value for supervisors of music. 6 weeks' credit.  

Mr. Henderson.

Orchestra. All who have instruments and wish to join the Normal School Orchestra will find it both pleasant and profitable.  

Mr. Maybey.

Penmanship

The aim of this course is to give the student a knowledge of method and teaching in penmanship as well as to develop a practical style of writing.
Students preparing for the county examinations should consult with their commissioners in order to find out whether or not it will be advisable for them to enroll for penmanship in the Summer School.

A credit in penmanship is now required of all candidates for normal school certificates in this state. The work done in the Summer Term will count on that credit.

Mr. Greenwall.

PHYSICAL EDUCATION AND COACHING FOR MEN

109S. First Aid. Knowledge and skill in meeting emergencies. Practice in bandaging, dressings, antiseptics, disinfectants. Taping for athletic injuries given particular consideration. 6 weeks' credit. Mr. Read.

112S. Massage and Hydrotherapy. Use of massage in treatment of sprains, bruises and general athletic injuries. Use of hot and cold applications. 6 weeks' credit. Mr. Taylor.

113S. Football Technique. Fundamentals; position of each player on offense and defense, all forms of kicking, tackling and blocking; principles of interference, and carrying the ball; execution of the forward pass. A practical system of offense and defense will be taught with consideration to the conditioning and handling of a team. At least one week will be devoted to soccer football. Lectures and football field work. 6 weeks' credit. Mr. Read.

115S. Basketball Technique. Fundamentals; handling of the ball; passing, goal throwing, pivots, and stops; dribbling, team play, and actual competition. Theory of coaching and study of different offensive and defensive systems taught throughout the country. A complete practical system in itself will also be taught. Lectures and floor work. 6 weeks' credit. Mr. Read.

117S. Physical Education Administration and Practice. General principles of public school physical education. Methods used in general recreation, the recess period and after school athletics. Practical floor work in gymnastics, apparatus and games. 12 weeks' credit. Mr. Taylor.
118S. Base Ball Technique. Fundamentals of batting, bunting, base running, position play, offensive team work. 6 weeks' credit. 

Mr. Hyames.

119S. Technique of Track Athletics. Practical instruction in starting, sprinting, distance running, hurdling, high and broad jumping, pole vaulting, shot putting, discus and javelin throw. Preparation of contestants for standard events; rules of competition; intensive study of physical condition, including endurance, speed and fatigue, with view to promotion, management, and officiating of games and meets. Lectures and athletic field work. 6 weeks' credit. 

Mr. Taylor.

PHYSICAL EDUCATION FOR WOMEN

101-102. Physical Education. This course consists of Swedish and German gymnastics, advanced light apparatus work and folk dancing, games for outdoor and indoor use. 6 weeks' credit in Physical Education. Combined with either Tennis or Swimming, 12 weeks' credit and equivalent to 101 or 102 of the regular school year. Miss Gurney.

103-104. Physical Education. The course presupposes Physical Education 101-2. It consists of more advanced work in all lines. Students are given opportunity to arrange lessons and conduct classes. 6 weeks' credit in Physical Education. Combined with either Tennis or Swimming, 12 weeks' credit and equivalent to 103 and 104 of the regular school year. Miss Spaulding.

105. Physical Education. Playground Organization 123 may be substituted.

123. Playground Organization. The theory of the growth and advancement of playgrounds with attention to their organization. Laying out of grounds and choice and arrangement of apparatus are given due consideration. Play activities from the simplest form to the highly organized competitive games are carried on in the gymnasium. 12 weeks' credit. Miss Spaulding.

Instruction in Tennis will be given each morning at 7 o'clock.
Instruction in Swimming will be given Monday, Tuesday, and Wednesday. Miss Guiot.

Note. All students taking courses in Physical Education must pass a medical examination by the school physician. A gymnasium suit is required for courses 101, 102, 103, 104. (White middy, dark bloomers, and black gymnasium shoes.)

PHYSICS

101A. Mechanics and Heat. A course in general physics, consisting of recitations and laboratory work. This course, together with 101B and 101C, furnishes an excellent foundation for students preparing to teach physics in the high school, or for those who wish to enter engineering or to specialize in physics later. Prerequisite: high school physics and trigonometry. This course consists of five two-hour recitations and four laboratory hours weekly. 12 weeks' credit. Mr. Fox.

101B. Physics. The work covered in this course is equivalent to the work in Electricity and Magnetism during the Winter Term of the year. Students who do this course satisfactorily and gain credit in Physics 101A and 101C will earn the credit ordinarily required for a year's work in general physics of the college grade. These three courses are indispensable to the high school teacher of the subject and furnish the required physics in engineering and medicine. It is the intention of the department to offer these courses in consecutive order in consecutive summers so that a year's work may be gained entirely during Summer Terms. While it is desirable that students take these courses in the order of their numbers, this is not mandatory. A number of important experiments are to be worked by the pupil and the classwork will be amply illustrated by experiment. 12 weeks' credit. Text Kimball's College Physics. Mr. Rood.

102S. Alternating Currents. This course is designed especially for high school teachers of physics. Its aim is to make clear the distinction between alternating and direct currents and to give the students control in handling each.
It is concerned with such problems as the design and function of the transformer; the measurement of impedance and power factor; current and voltage relations in series and parallel circuits; relation between impedance, resistance and reactance; polyphase circuits; calculation of wire sizes for various distributing systems and converters and rectifiers. The wide spread use of the alternating current today makes a knowledge of this course exceedingly valuable to the high school teacher of physics. Class meets five times weekly, 2 hour period. 12 weeks' credit.

Mr. Fox.

RURAL EDUCATION

A belief is rapidly becoming common that teachers of rural schools must be asked to meet, as rapidly as circumstances allow, the requirements in scholarship and professional training demanded for good elementary school teaching anywhere.

Courses of training for rural teachers are already in print which definitely outline four years' preparation beyond the high school. It will take some years to reach this standard, but requirements of one-year and two-year training courses are immediately at hand. No one can begin teaching in Michigan after September, 1925, who has not had at least one year of training after the completion of a four-year high school.

Two courses are offered for the preparation of teachers of rural schools.

1. A Life Certificate in Rural Education may be secured by high school graduates after an attendance of two years. Many village and country districts are now paying salaries which enable them to demand full life certificate preparation on the part of the teachers they employ.

2. A Limited Certificate good in Michigan Schools for three years may be secured by high school graduates after an attendance of one year and one Summer Term.

Subjects which may be applied directly to the completion of either one of the foregoing courses are offered in the Summer Term. There is offered a long list of Special Sum-
Courses as described in pages 19 to 22 in this Bulletin. Credits gained in these special courses may be applied toward the completion of any regular normal school certificate course as specified on page 15.

Summer term students who are interested in completing a life certificate course in rural education, or the limited certificate course should confer with Dr. Burnham. A number of the Summer Term Teachers have had much first hand experience in rural education and their experiences will be utilized in giving interest and value to three rural education courses.

102. Rural Education. This course will utilize new material collected this year from states and institutions. A general view of progressive activities in rural education will be utilized as affording perspective for intensive study of the problems which are directly related to the service needs of members of the class. Questions of maintenance, organization, supervision, teaching and curriculum will be considered. Elective, not open to first year students. 6 or 12 weeks' credit as earned.

Dr. Burnham.

102. County Training Class Problems. Demonstration of Rural School Teaching will be observed in the Oakwood Rural School. There will be observation in the Training School, and the specific questions of the organization and teaching of County Normal Training Classes will be considered in round table conferences. Dorothy Austin, critic teacher in the Allegan County Normal Class will be the demonstration teacher at Oakwood. 12 weeks' credit.

Miss Stewart.

103. Sociology. A study of social relations and activities in small communities. An elementary text-book in general sociology and a text dealing specifically with village and country life are used. A collection of source materials illustrating the co-operation of teachers and schools in local community activities is available. Required in Limited Certificate Course. Elective in other courses. 12 weeks' credit.

Dr. Burnham.
SPEECH

101. Fundamentals of Speech. This course is a prerequisite to all courses offered in the Department of Speech. Every student expecting to take any work in Speech is advised to take this course in the Fall Term of his first year. It aims to develop in the student a thorough understanding of the basic principles of voice production and includes study and drill in the vocal elements. Twelve weeks credit.  

MISS ROUSSEAU.

110. Play Production. This course deals with the methods of staging plays. It includes a study of stage settings, costumes, and make-up. Lists of plays, publishing houses, manuscript houses, etc., will be prepared. If the enrollment permits, the class will study and present a program of one-act plays. Enrollment in this course is only with the consent of the instructor.

MISS ROUSSEAU.

TRAINING SCHOOL

105. Theory and practice of Teaching. The Training School will be in session from 8:00 to 11:00 a.m. each day for the six weeks of the Summer Term and each supervisor in her daily lessons will aim to present proper material for use in the various subjects of the curriculum, such as nature study, geography, history, reading, language, and the special branches, including handwork, as well as to show good methods of teaching. Experienced teachers may observe daily and make a scientific study of the best methods of teaching the various branches. Aside from the daily observation the course will require reading, discussions, class criticism and conferences under the direction of the supervisor. Practical application and criticism of the newer teaching methods such as the socialized recitation and problem project teaching as it is carried out in the better schools will be part of the work. Each supervisor will offer the above course. 12 weeks' credit.

The regular supervisors, special teachers in drawing, music, manual arts, physical training, and household arts will have charge of all work in the Training School.
The Rural Demonstration School at Oakwood will be in session each forenoon. Teaching in the elementary grades will be demonstrated. The Oakland car south from the Normal School goes directly to Oakwood.

It is hoped that large numbers of the students will avail themselves of the help thus afforded. Commissioners may arrange with the director for reports of attendance of their teachers. Observation will be required in connection with the courses in Principles of Teaching and Method and Reading. In addition to the Observation in the Training School, observation in the Rural Observation School will also be required. Each supervisor will reserve the 11 o'clock hour for conference and general discussion with the observers in the grade.
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