1933

Bulletin: Western State Teachers College Summer 1933

Western Michigan University

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This Institution is a member of the American Association of Teachers Colleges. It is fully accredited as a college by the North Central Association of Colleges and Secondary Schools.
DIRECTIONS FOR CORRESPONDENCE WITH WESTERN STATE TEACHERS COLLEGE

Correspondence with Western State Teachers College should be addressed as indicated below:

a) Requests for catalogs, bulletins, blanks for recording high school credits, and other literature—The Registrar.
b) Concerning the adjustment of credits—The Registrar.
c) Concerning board, rooms, and remunerative work for men—The Dean of Men.
d) Concerning board, rooms, and remunerative work for women—The Dean of Women.
e) Concerning rural education—the Director of the Department of Rural Education.
f) Concerning extension work—the Director of the Extension Department.
g) Concerning educational research—the Director of the Bureau of Educational Measurement and Research.
h) Other general inquiries—The Registrar.

INFORMATION FOR NEW STUDENTS

Students applying for admission should

a) Have certified copies of their high school credits mailed to the Registrar by the high school from which graduated.
b) If entering with advanced standing from any county normal, normal school, college, or university, have mailed to the Registrar complete official statements regarding the work for which credit is sought.
c) Have credits sent in at as early a date as possible.
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CALENDAR ANNOUNCEMENTS
1933-1934

SUMMER SESSION—1933

Monday, June 26............................................................... Registration of Students
Tuesday, June 27.............................................................. Recitations Begin
Friday, August 4.............................................................. Summer Session Ends

FALL TERM—1933

Monday, September 25, to Wednesday, September 27.......... Freshman Days
Tuesday, September 26..................................................... Registration of Freshmen
Wednesday, September 27............................................... Registration of Upper Classmen
Thursday, September 28................................................... Recitations Begin
Wednesday, December 20.................................................. Fall Term Ends

WINTER TERM—1934

Tuesday, January 2........................................................... Registration of Students
Wednesday, January 3....................................................... Recitations Begin
Friday, March 23.............................................................. Winter Term Ends

SPRING TERM—1934

Monday, April 2............................................................... Registration of Students
Tuesday, April 3.............................................................. Recitations Begin
Friday, June 15............................................................... Spring Term Ends
Saturday, June 16............................................................ Alumni Day
Sunday, June 17............................................................. Baccalaureate Address
Monday, June 18............................................................. Commencement

SUMMER SESSION—1934

Monday, June 25............................................................... Registration of Students
Tuesday, June 26.............................................................. Recitations Begin
Friday, August 3.............................................................. Summer Session Ends

FALL TERM—1934

Monday, September 24, to Wednesday, September 26.......... Freshman Days
Tuesday, September 25..................................................... Registration of Freshmen
Wednesday, September 26............................................... Registration of Upper Classmen
Thursday, September 27................................................... Recitations Begin
Wednesday, December 19.................................................. Fall Term Ends
PROGRAM OF SUMMER SESSION EVENTS—1933

First Week (June 26-July 1)

Monday, June 26
Registration.

Tuesday, June 27
9 A.M. General Assembly. (Speaker to be announced.)

Wednesday, June 28
3 P.M. Matinee Tour. Representative church edifices. The party will visit some of the beautiful downtown churches. The Lutheran Evangelical represents the better type of architecture used in the more modern buildings. The First Methodist, First Presbyterian, and First Congregational churches are types of the ultra-modern in design and luxury in furnishings.
3-5 P.M. Tea for Faculty and Students. Women's League Room.

Thursday, June 29
3 P.M. Matinee Tour. The Kalamazoo Gazette. The party will observe the making of the modern newspaper in all of its many fascinating details. Beginning with the editorial rooms, the party will see the preparations of copy, the reception of Associated Press releases on the new automatic telegraphic machines, the set-up of type, and operations of the rotary press.
8 P.M. Faculty Reception to Summer Session students.

Saturday, July 1
7 A.M. Week-end excursion. Michigan State Prison at Jackson. The party will visit the new prison, spending between two and three hours in the corridors, cell blocks, industries, dining hall, and schools. After the trip, one of the prison officials will discuss the theory and practice in modern penology.

Second Week (July 3-July 8)

Wednesday, July 5
3-5 P.M. Tea for Faculty and Students. Women's League Room.

Thursday, July 6
3 P.M. Matinee Tour. Anne Kellogg School at Battle Creek. This famous school was designed to provide for both normal and atypical children, with special attention to equipment for orthopedic, open air, sight-saving, deafened, and other special cases of maladjustments.
8 P.M. Feature Entertainment. Eureka Jubilee Singers.

Saturday, July 8, and Sunday, July 9
Century of Progress Exposition, Chicago. This greatest of expositions will tell in simple form the stories of scientific discoveries and inventions down the ages and how they make our lives so different from those of our ancestors years ago. These two days will be spent quite exclusively within the fair grounds and the Field Museum, Shedd Aquarium, Adler Planetarium, and Art Institute immediately adjacent. The cost will be kept to a minimum, inasmuch as party rates will be obtained wherever possible.

Saturday, July 8
7 A.M. Optional week-end excursion to Lansing. Visit the Capitol Building, School for the Blind, Michigan State College, Michigan School for Boys, State Police Headquarters and Criminal Identification Bureau, and other Capitol City attractions.
Third Week (July 10-July 16)

COMMERCIAL SCHOOL EXHIBIT WEEK

Tuesday, July 11
3 P.M. Matinee Tour. The W. K. Kellogg Camp at Pine Lake. This is an ideal camp set-up and recreation center for the boys and girls of Southwestern Michigan, who, because of physical handicaps are most in need of out-of-door and other special rehabilitation advantages. Endowed by W. K. Kellogg. Many children will be in camp at the time of our visit.

Wednesday, July 12
3 P.M. Matinee Tour. New Borgess Hospital. This is one of the largest, most modern and splendidly equipped hospitals in Western Michigan. Opportunity to visit the various wards, observe the laboratories and operating rooms.
3-5 P.M. Tea for Faculty and Students. Women's League Room.
8 P.M. Feature Entertainment. Pinafore (or Mikado).

Thursday, July 13
3 P.M. Matinee Tour. Kalamazoo State Hospital. To observe the care and treatment of the patients, including methods of occupational therapy, and discussion of mental diseases by a medical officer.

Saturday, July 15
7 A.M. Weekend Excursion. Ann Arbor. Much of the day will be spent on the campus of the University of Michigan. Some time will be spent in the General Hospital. The party will also visit the campus of the Michigan State Normal College at Ypsilanti and the new State Hospital for the insane near Ypsilanti.

Saturday, July 15
8:30 A.M. Optional weekend excursion to Battle Creek. Visit the "Home of Kellogg's" and the "Postum Cereal Company" to observe the manufacture of popular breakfast foods. The trip may include a brief visit to the Battle Creek Sanitarium and to the beautiful headquarters of the Boy Scouts.

Fourth Week (July 17-July 23)

Tuesday, July 18
3 P.M. Matinee Tour. Pretty Lake Vacation Camp for under-privileged school children in Kalamazoo. This famous camp, located on the shores of Pretty Lake about ten miles from Kalamazoo, was founded by Mr. Edward Desenberg and is maintained by the Kiwanis Club and Service Club of this city. This philanthropic and humane service for school children is suggestive of what can be done in many communities. The camp will be in operation during our visit.
8 P.M. Faculty Reception to Summer Session Students.

Wednesday, July 19
7:30 P.M. Matinee Tour. An evening in a bakery. Visit will be made to the Kalamazoo Bread Company, one of the largest in this section of the state. The party will observe the mixing and making of breads, and of Vienna, Irish, and French rolls. The automatic bread slicers and doughnut machines intensify interest in this trip.
3-5 P.M. Tea for Faculty and Students. Women's League Room.

Thursday, July 20
3 P.M. Matinee Tour. Kellogg Bird Sanctuary in the beautiful Gull Lake district; one of the famous bird retreats in this country and similar to the Jack Minor sanctuary in Ontario.
8 P.M. Feature Entertainment. Redpath Play Company.

Friday, July 21; Saturday, July 22; Sunday, July 23
Annual excursion to Chicago. Century of Progress Exposition. The major part of our time will be spent on the lake front enjoying the attractions of the States Expositions, Electrical Buildings, the Old Fort Dearborn, Transportation Building and Pageants, and thousands of the attractions.
of the World's Fair. Some time will be given to the Field Museum, Adler Planetarium, Shedd Aquarium, and Art Institute. In addition to this, the party will visit the Ghetto on Halstead Street, Hull House, and China Town. Party rates will be secured to minimize expense.

Saturday, July 22
7 A.M. Optional week-end excursion to South Bend. The forenoon will be spent in the visiting of the Old Fort St. Joseph and other landmarks of the Spanish, French and English occupation before the Northwest came into the hands of the United States. The afternoon will be spent on the campus of Notre Dame, which is noted for its Art Galleries and Libraries. A visit may also be made to St. Mary's College and Academy.

Fifth Week (July 24-July 30)

Tuesday, July 25
10 A.M. General Assembly. Dr. Ray Yoder, Assistant Medical Superintendent, Ypsilanti State Hospital.
3 P.M. Matinee Tour. Camp Custer and United States Veterans Hospital. Observe the care and treatment of soldiers having nervous diseases. Observe the work of the R.O.T.C. and the C.M.T.C. at first hand. It is probable that dinner will be served for this party in the officers' mess at nominal cost.

Wednesday, July 26
3 P.M. Tea for Faculty and Students, in Women's League Room.

Thursday, July 27
8 P.M. Feature Entertainment. LaPaloma Mexican Orchestra.

Saturday, July 29
5:30 A.M. Week-end excursion. Michigan Home for the Feeble Minded at Lapeer. Observe the methods of instructing the sub-normal children and note the remarkable results of this training in adjusted personalities, economic efficiency, and hopeful outlook on life. A trip of instruction and inspiration.
8 A.M. Optional week-end excursion. This is a purely good-time party. The group will drive directly to the Getz Farm, Holland, which is one of the famous farms of the country for the size and quality of fruits and flowers. It also accommodates one of the largest private zoos. Opportunity to climb Old Baldy at Saugatuck, canoe, golf, play tennis. Dinner will be served on the beach. Surf bathing, visit to Oxbow Art Colony. Wear outing clothes.

Sixth Week (July 31-August 4)

Tuesday, August 1
3 P.M. Matinee Tour. Kalamazoo State Hospital. To accommodate the people who were unable to take advantage of the two former trips through this institution to observe the care and treatment of patients including methods of occupational therapy and hear discussions of mental diseases by a medical director.
THE STATE BOARD OF EDUCATION

The Hon. Fred A. Jeffers ................................................................. President
The Hon. A. M. Freeland ................................................................. Vice President
The Hon. Webster H. Pearce ............................................................. Secretary
The Hon. Frank Cody ............................................................ Member

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The Hon. Webster H. Pearce

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Bertha S. Davis ........................................................................ Dean of Women
Ray C. Pellett, A. M .................................................................. Dean of Men
Frank E. Ellsworth, A. M .......................................................... Director of Training Schools
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Cornell University.

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The Campus Training School

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Cora Walker, A. M.
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Mary C. Wilson, A. M.
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Edward R. Woods, B. S.
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The Alumni Secretary

CARL R. COOPER, A. M.
A. B., Western State Teachers College; A. M., Teachers College, Columbia University; University of Michigan.

The Library

ANNA L. FRENCH, Librarian
Michigan State Normal College; Drexel Institute School of Library Science.

EDITH E. CLARK, A. B., Periodicals
A. B., Western State Teachers College.

VERA F. GRAHAM, A. M., Reference
A. B., Dakota Wesleyan University; A. M., Northwestern University; B. S. in Library Science, University of Illinois Library School.

MARY A. H. HARVEY, Orders and Accessions
Michigan Female Seminary; Oberlin College.

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CLARA L. STERLING, A. B., Circulation
A. B., Western State Teachers College.
## Committees of the Faculty

### Summer, 1933

<table>
<thead>
<tr>
<th>Committee</th>
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<tr>
<td>1. Appointment</td>
<td>Ellsworth, Cooper, Davis, Hilliard, Mason, F. Moore, Pellett, Robinson, Spindler</td>
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### Curriculum

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<td>Rawlinson</td>
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<td>Later Elementary</td>
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<td>Read</td>
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<tr>
<td>Music</td>
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<td>Hussey</td>
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</table>
### Committees of the Faculty

| Rural Education             | Robinson  
|                            | Skinner   |
| Senior High School         | Zimmerman, Cook, Everett, Halnon, Hilliard |
| Three Year Certificate     | Evans, Sanders |
| Unclassified               | Ellis, Bartoo |

### Committee Personnel

<table>
<thead>
<tr>
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<tr>
<td>6. Extra Studies and Scholarship</td>
<td>Hoekje, Carter, Davis, Pellett, Spindler</td>
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<td>7. Friendship</td>
<td>Cooper, Mason</td>
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<td>8. General Advisory</td>
<td>S. Burnham, Ellsworth, McCracken, Sangren</td>
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<td>9. Health</td>
<td>Cook, Davis, Ellsworth, Alice Evans, Maher, Pellett, Wiseman, Worner</td>
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<td>11. Student Activities</td>
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<td>12. Student Organizations</td>
<td>Cooper, Starring, Mason, Shaw</td>
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</table>

N.B. In each case the person whose name appears first is the Chairman of the Committee.
General Information

PURPOSE

Through its Summer Session, Western State Teachers College provides opportunity for professional advancement to varied groups. It enables the experienced teacher to keep in touch with new developments in the educational world, to increase his own academic knowledge; it offers courses directly related to the particular problems of superintendents, principals, and others in supervisory positions; it makes possible the earning of a certificate or a degree by a teacher who is not able to attend during the regular year; it permits students registered during the year to continue their studies in the summer.

To one engaged in teaching during the year attendance at a summer session brings large returns. Friendships formed or renewed, recreational opportunities, and intellectual inspiration through classroom contacts, lectures, round-table conferences, and conducted excursions—all combine to give fresh enthusiasm for the next year's work.

HISTORY

Summer Sessions of six weeks' duration have been conducted since the foundation of Western State Teachers College in 1904. In the summer of 1932, 1,449 students of collegiate rank were enrolled; 33 Life Certificates and 30 Limited Certificates were granted; and 94 degrees conferred. Steady attendance indicates that these sessions have been found of distinct service to prospective and experienced teachers.

THE THIRTIETH SUMMER SESSION

The thirtieth Summer Session will open June 26 and continue until August 4. Students will be enrolled and classified on Monday, June 26. Instruction will begin in all classes on Tuesday, June 27. The majority of the instructors will be members of the regular staff. Departments so arrange their work that it is possible for students to pursue sequences from summer to summer.

LOCATION

Western State Teachers College is in the city of Kalamazoo, whose location, at the intersection of a wonderful series of natural highways, is one of the finest in the Old Northwest. The city is the halfway point between Detroit and Chicago on the Michigan Central Railway. The Pennsylvania; the Chicago, Kalamazoo, and Saginaw; and the South Haven Branch of the Michigan Central railway, together with a network of paved and graveled highways and trunk lines, all following post glacial drainage lines radiating from here, make it easily the hub of southwestern Michigan. Kalamazoo has become a great business, professional and educational center.

The site of the College is one of unusual beauty. Five of the buildings stand upon a hill, which rises a hundred feet above the broad plain of the old glacial Lake Kalamazoo, where are now the celery fields and much of the business and residence part of the city, and through which meanders the Kalamazoo River. From the hilltop on clear days can be obtained a most pleasing panorama, eastward and northeastward, over the wooded city in the bottom lands, to the broken moraine of the Saginaw-Michigan ice lobes. To the west of the
hilltop is the old drainage valley of the once large and vigorous Arcadia Creek, along which now runs the main line of the Michigan Central Railway. In this depression are the athletic field, the Men's Gymnasium, the Manual Arts Building, and classroom buildings.

The city of Kalamazoo has a population of 60,000, dependent upon the business growing out of the rich surrounding farming country, the celery fields within and adjacent to it, the widely known paper mills, and a diversity of other manufacturing industries. The exceptionally pure water supply is obtained from artesian wells that tap the deep glacial gravel beds of the old Kalamazoo Valley.

BUILDINGS AND MATERIAL EQUIPMENT

There are nine buildings, well adapted to their uses. They provide a splendid physical equipment.

1. The Administration Building contains the Administrative Offices, the Bureau of Educational Measurements and Research, the Alumni Office, Classrooms, the High School Assembly Room, the College Co-Operative Store, and the Women's League Room. The latter is a large and attractively furnished room that has been set aside for the use of the women of the college. Students find this charming room with its comfortable chairs and davenports a pleasant place to rest and chat with friends, and to hold informal social gatherings.

2. "The Barracks." In the building used as a barracks during the S. A. T. C. days are the print shop of the Manual Arts Department, the Early Elementary Department, part of the Home Economics Department, the Art Department, and three classrooms. (Laboratories for courses in foods and cookery are in the Administration building and the Training School.)

3. The Campus Training School includes a kindergarten, a room each for grades one to eight, special classrooms, a library, a gymnasium, and laboratories both for art and music. The center of the building, an open lightwell, forms a rotunda with stage for children's assemblies.

4. The Library Building, which was completed in the summer of 1924, enables all the students of the college to do reading and reference work under the most comfortable conditions. One corner of the building, at the side of the wide entrance lobby, is occupied by a long delivery desk, behind which is a steel-constructed stack-well. At the other side of the lobby a corner of the building is devoted to staff work rooms and a faculty reading room. All the rest of this floor is given over to the main reading room two stories high and 158 feet by 38 feet, accommodating 290 readers. The second floor has two large lecture rooms and two seminar rooms. The basement provides more classrooms, a large study room, and a check room for wraps.

The Library consists of 32,000 volumes, arranged according to the decimal classification, and indexed by a card catalog of the dictionary type. There are 60 complete files of periodicals. Three hundred twenty-eight periodicals and twelve newspapers were subscribed for during the current year.

Students are also generously accorded the services of the efficient staff of the Kalamazoo Public Library and the use of its collection of 75,000 volumes.

The Department of Commerce occupies the basement of this building. A complete equipment of typewriters, filing cabinets, duplicating machines, etc., has been provided so that students may have an opportunity to become familiar with modern mechanical office devices.

5. The Manual Arts Building is a fireproof structure of modern factory type. Facilities for specialization in woodworking, metal working, and drafting are complete and adequate. Washrooms and showerbaths adjoin the
locker room. There are separate units for elementary woodwork, advanced woodwork, forging, sheet metal, machine shop, foundry, pattern making, gas engine, and automobile repair work. The drafting room receives north and west light. This building is modern in every respect. With its ample equipment it provides satisfactory training opportunities for those interested in the industrial arts.

6. The Men's Gymnasium was erected in 1925. Its size and equipment make possible adequate training of varsity basketball and indoor track teams, the preparation of physical directors and athletic coaches, and the carrying out of an intramural program of physical education and competitive sports during the winter term. Between 3,500 and 4,000 people may be seated around the varsity court during the big games of the season.

There is a regulation basketball floor, with three cross courts for intramural purposes; a fourteen lap running track, a vaulting and jumping pit on the main floor; two handball courts and a dirt floor area for the training of hurdlers, shot putters, and vaulters, and for the early work of the baseball battery men; exercise rooms, wrestling, and boxing rooms, and equipment for calisthenic apparatus work. Locker rooms take care of the needs of the students. There are also offices and classrooms.

7. The Science Building.
The Department of Agriculture has a very unusual opportunity to do the work described in the departmental courses of study.

A one hundred fifty-acre farm of fertile silt loam is being handled as a demonstration project. A pure bred herd of Guernsey cattle is being raised, feeder cattle are being kept, pure seed is grown, a fine flock of laying hens is sheltered in a modern poultry house. A young orchard of good varieties of fruit is available for observation. Alfalfa fields, cover crop demonstrations, and modern machinery are maintained.

The Department of Biology has laboratories for special work in physiology, hygiene, general biology, botany, zoology, nature study, and agriculture. The department is in every way thoroughly equipped with the instruments and apparatus necessary for high-grade work in the various phases of biological study.

Students of nature study have for their use the college botanical gardens, stocked with many sorts of wild and cultivated plants. There are pens of domesticated animals, and a house especially designed for bird observation. The fifty-acre wild life preserve and other places in the neighborhood are the objectives of field excursions.

The Department of Chemistry has laboratory supplies and equipment for four years of undergraduate work. These include some special equipment for lecture demonstrations, courses in physical chemistry and advanced analysis, an automatic thermostat, and an electric combustion furnace.

In the chemistry section of the general library will be found many of the current chemical journals, together with a large number of works of authoritative chemists.

The Department of Education and Psychology. For the work in psychology, all the instruments necessary for standard introductory or advanced courses are at the disposal of the student. Chronoscopes, kymographs, tachistoscopes, color mixers, ergographs, etc., constitute a part of this equipment. The department is also well supplied with excellent models of the brain and the sensory organs. The general library of the college contains complete files of all the more important psychological and educational journals, as well as a large list of the standard works in these and related fields.
The Department of Geography and Geology. The equipment includes a file of the United States topographic maps; a collection of the United States Geological Survey folios; a collection of foreign topographic maps, rainfall, vegetation, physical, political, population, and economic maps; collections of rocks, minerals, and fossils; meteorological instruments; a balopticon and several hundred slides.

The Department of Physics. This department has two lecture rooms, two well equipped laboratories for general physics, a laboratory for electrical measurements and experimental work in radio, a dark room for photometric, spectroscopic, and photographic work, as well as a shop and stock rooms.

The laboratories are adequate for experimental work in all phases of general physics. Precision instruments and precision standards are available for use in the courses in electricity and electrical measurements. An experimental radio receiver and transmitter are maintained for the study of radio problems. In these laboratories the student has ample opportunity to become familiar with the manipulation and operation of modern high-grade apparatus.

8. The Temporary Buildings. The temporary buildings are well lighted, heated and ventilated. They provide four recitation rooms.

9. The Women's Gymnasium. For their work in physical education the women of the college now have the exclusive use of the gymnasium which was formerly shared with the men. The floor space is 119x68 feet. Sufficient apparatus is available for the needs of all physical education activities, indoor and outdoor athletics. There is also a room equipped for remedial work. In the basement are lockers, showerbaths, and a swimming pool.
ADMISSION

Students may enroll at the opening of any term.

Entrance With Advanced Credits

Advanced credit is allowed for work done in other Normal Schools and Colleges to the extent to which the applicant's record shows that such work is the equivalent of courses offered in the Western State Teachers College. Application for advanced standing, accompanied by credentials, should be made to the Registrar.

High School Credentials Should Be Sent in Advance

Prospective students are urged to send their high school credits to the Registrar in advance that there may be no delay when they present themselves for registration and enrollment. Students who have not filed copies of their high school credits in advance should present them at the time of registration. A Copy of Entrance Credentials can be secured from the High School Principal.

THE ALUMNI ASSOCIATION

The Western State Teachers College Alumni Association was organized June 19, 1906, by the graduates of the first two classes of the college. Twenty-eight classes are now associated in the organization with a total membership of more than 11,000. The Alumni Secretary's office is in the Administration Building. In this office information regarding any alumnus or alumna may be obtained. The Kardex filing system is used; it affords an accurate method of referring to the alumni directory.

Each year headquarters are maintained at Michigan Education Association meetings and the alumni of Western State Teachers College are urged to register and make use of the rooms reserved for this purpose. An annual invitation goes to graduates of Western State Teachers College to return to the campus for Homecoming Day. In June, at Commencement time, there is always the banquet and reception for the alumni.

Graduates of Western State Teachers College enjoy frequent mail from the campus informing them about various matters of mutual interest. Letters of inquiry concerning graduates, who are placed in all parts of the United States and even in foreign countries, are given prompt attention. Once each year the members of the alumni are asked to return a postcard prepared and sent to them to verify the records and secure additional facts as regards schooling, degrees, marriage, children, books and magazine articles published, business records, etc. These return postcards are filed with the Kardex entry and replaced annually when the most recent card arrives.

With an organization as large as the Alumni Association of Western State Teachers College, ways and means of cultivating closer and more friendly relations among the graduates are developing rapidly. Unit organizations are encouraged in localities where there are enough members of the alumni to warrant such organization. The alumni secretary is glad to assist in any plans of this kind.

THE CAFETERIA

Teachers College maintains a Cafeteria in the Basement of the Training School building.

Breakfasts, lunches and dinners are served. The aim is to provide most wholesome food at the smallest consistent cost to the students.
CREDIT FOR BAND, DEBATE, GLEE CLUB AND ORCHESTRA WORK

1. A maximum of four term hours of academic credit annually is given for one year's regular participation in each of the following activities: Band, Debate, Glee Club, and Orchestra.
2. Twelve term hours of academic credit is the maximum allowed for participation in any one of the four activities indicated.
3. A grand total of not to exceed twelve term hours of academic credit is allowed for participation in the four activities noted.
4. Participation in Band may be substituted for Physical Education credit. In such cases a maximum of two Physical Education exemptions will be given for the first year of membership in the Band, and a maximum of three Physical Education exemptions for membership during a succeeding year.

CREDIT RELATIONS WITH OTHER COLLEGES AND UNIVERSITIES

Graduates receiving the five year certificate usually are granted junior standing in colleges and universities. They are able to fulfill the requirements for a degree by an additional two years of work. Senior standing usually is granted to graduates receiving a life certificate. A student who desires to earn a life certificate in the College, and then complete the work for a degree in some other college or university should plan his work with the requirements of the particular institution in mind.

Admission to graduate schools is granted to students completing a four-year curriculum who have made their elections of courses conform to the requirements of such schools. Western State Teachers College is a member of the American Association of Teachers Colleges and of the North Central Association.

DEGREES AND CERTIFICATES

Although a student may enter Western State Teachers College before he is eighteen years of age, all applicants for a certificate to teach must be at least eighteen years of age and must be citizens of the United States, or have signified their intention of becoming citizens by having taken out the first papers.

Applications for degrees and certificates must be filed with the Registrar early in the term in which it is desired that they be granted.

The State Board of Education for the State of Michigan, through Western State Teachers College, confers degrees and grants teachers certificates as follows:

1. The Degree of Bachelor of Arts.
2. The Degree of Bachelor of Science.
4. The Five Year Certificate, valid for five years in the Public Schools of Michigan (See Note 1).
5. The Three Year Certificate, valid for three years in the Public Schools of Michigan.

A. ACADEMIC AND RESIDENT REQUIREMENTS

1. For the Bachelor's Degree the candidate shall—
   a. present credits satisfying a prescribed curriculum and aggregating 192 term hours or four years;
   b. have satisfactorily completed in residence at this institution at least 48 term hours;
   c. have been in residence at this institution the term immediately preceding graduation;
   d. satisfy the requirements for a life certificate.
2. For the Life Certificate the candidate shall—
   a. present credits satisfying a prescribed curriculum and aggregating 192 term hours or four years;
b. have satisfactorily completed in residence at this institution at least 48 term hours;

c. have been in residence at this institution the term immediately preceding graduation."

IMPORTANT NOTICE

By action of the State Board of Education in November, 1931, "after June 20, 1932, no entrant to Western State Teachers College can earn credits to apply on any life certificate curriculum requiring less than 192 term hours, provided, however, that students who enter by transfer, presenting at least 8 term hours of acceptable resident credit earned before June 20, 1932, will be allowed to complete a three-year life certificate course if the work shall be accomplished before September 1, 1936. Provided further, that after September 1, 1936, no person shall be eligible for a life certificate on any curriculum requiring less than 192 term hours (4 years)."

3. "For the Five Year Certificate (See Note 1) the candidate shall—
   a. present credits satisfying a prescribed curriculum and aggregating 96 term hours or two years;
   b. have satisfactorily completed in residence at this institution at least 32 term hours; (See Note 2.)
   c. have been in residence at this institution the term immediately preceding graduation.

4. For the Three Year Certificate the candidate shall—
   a. present credits satisfying a prescribed curriculum and aggregating 56 term hours or one year and one summer session;
   b. have satisfactorily completed in residence at this institution at least 32 term hours; (See Note 3.)
   c. have been in residence at this institution the term immediately preceding graduation.

Note.—1. The Five Year Certificate may be extended for one period of three years provided the holder shall
   (a) make application to the college for such extension before the expiration of the certificate;
   (b) submit satisfactory evidence that he has taught successfully during the life of the certificate for not less than three years;
   (c) submit evidence that he has during the life of the certificate completed work aggregating not less than 16 term hours of acceptable credit.

Note.—2. (a) If the Candidate for the Five Year Certificate shall have entered from a Michigan State Teachers College or from the Detroit Teachers College with at least 16 term hours of acceptable resident credit there earned, 16 term hours shall satisfy the resident requirement at this institution.
   (b) If the candidate for the Five Year Certificate shall have entered as a graduate from a Michigan County Normal School he shall complete in residence at this institution 48 term hours.

Note.—3. (a) If a candidate for the Three Year Certificate shall have entered from a Michigan State Teachers College or from the Detroit Teachers College, with at least 16 term hours of acceptable resident credit there earned, 16 term hours shall satisfy the resident requirement at this institution.
   (b) If a candidate for the Three Year Certificate shall have entered as a graduate from a Michigan County Normal School he shall complete in residence at this institution 24 term hours.

Note.—4. A candidate presenting credits as a graduate of a Michigan County Normal School and who in addition thereto presents entrance credits satisfying the requirements of this institution shall be granted—
THE CURRICULA

1. For the Life Certificate, 40 term hours;
2. For the Five Year Certificate, 40 term hours;
3. For the Three Year Certificate, 32 term hours.”

[Credits ordinarily accepted from County Normal—]
1. Agriculture ................................................ 4 hours
2. Arithmetic ...................................................... 4 hours
3. Art Education .................................................. 4 hours
4. Geography ....................................................... 4 hours
5. Grammar (English elective) .......................... 4 hours
6. (U. S.) History ................................................... 4 hours
7. Psychology ....................................................... 4 hours
8. Psychology of Reading .................................. 4 hours
9. Teachers’ Music ............................................... 4 hours
10. Teaching ......................................................... 4 hours

40 term hours]

Note.—5 “Not more than one-fourth of the number of hours necessary for any certificate or degree may be taken in extension or by correspondence. Such credit, however, cannot be applied to modify the minimum or final resident requirements.”

B. THE CURRICULA

The curricula in Western State Teachers College are planned to prepare teachers for the different departments and various phases of public school work, and also to give students who are preparing to teach, opportunity for general higher education. Recognizing that the prospective teacher should have some opportunity to adapt his education to his peculiar ability or personal ambition, the faculty, in outlining curricula sufficiently flexible to prepare teachers for both general and special school work, has made provision for students to exercise individual preference in elective work. A prospective student should study carefully the details of the various curricula as outlined, that he may understand clearly the purposes of each. He should choose the curriculum for which he considers himself best fitted.

Specific details of the curricula for the various degrees conferred and certificates granted by Western State Teachers College appear in the annual catalog, a copy of which will be mailed on request.

The following curricula are offered:

1. Special curricula four years in length leading to the bachelor’s degree and life certificate:
   - Art
   - Art and Music
   - Business Administration
   - Commerce
   - Early Elementary
   - Home Economics
   - Junior High School
   - Later Elementary
   - Manual Arts
   - Manual Arts and Physical Education
   - Music
   - Physical Education for Men
   - Physical Education for Women
   - Rural Elementary
   - Rural High School
   - Senior High School
   - Special Education

2. Curricula two years in length leading to the Five Year Certificate in—
   - Early Elementary
   - Junior High School
   - Later Elementary
   - Rural Elementary
   - Rural High School

3. Curriculum one year and one summer term in length leading to the Three Year Certificate—
   - Three Year Certificate Curriculum.

4. Curriculum one year in length meeting state professional requirements—
   - One Year Professional Training Curriculum.
EXPENSES

Tuition Fees
For residents of Michigan there is a tuition fee for the Summer Session of $6.00; for non-residents of Michigan the fee is $12.00. Tuition will be pro-rated on the basis of the number of courses taken.

Kalamazoo County students who enroll for work in Rural Education may attend Western State Teachers College for one year without paying fees, because counties having county normals provide for one year of free tuition, and because, by law, counties having State Normals (Teachers Colleges) may not have County Normals.

Miscellaneous Fees
A fee of $8.00 has been authorized for the support of student activities, health service, library purposes, subscription to the Teachers College Herald, the official weekly student publication, etc.

A student for whom no Identification Photo is on file pays an additional 25c, when such photo is taken.

Graduation Fees
Three Year and Five Year Certificate Curricula ............................................ $ 2.00
Life Certificate Curricula ................................................................................. 3.00
Degree Curricula ................................................................................................ 3.00
Alumni Fee (Paid by all graduates) .................................................................... 1.00

Late Enrollment Fee
By action of the State Board of Education, all students who enroll after opening day, June 26, will be charged an additional fee of $2.00.

Refunds
No refund of fees will be made after the first week of the Summer Session.

ESTIMATE OF EXPENSES
An estimate of the expenses for the Summer Session may be formed from the following table:

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<th>Item</th>
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<td>Room (one-half of a double room)</td>
<td>$12.00 to $18.00</td>
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<tr>
<td>Board</td>
<td>$27.00 to $36.00</td>
</tr>
<tr>
<td>Laundry</td>
<td>$0.00 to $5.00</td>
</tr>
<tr>
<td>Textbooks and supplies</td>
<td>$8.00 to $12.00</td>
</tr>
<tr>
<td>Incidents</td>
<td>$8.00 to $12.00</td>
</tr>
<tr>
<td>Tuition and fees</td>
<td>$14.00 to $14.00</td>
</tr>
</tbody>
</table>

Total for 6 weeks .................. $69.00 to $97.00

HOUSING REGULATIONS FOR COLLEGE STUDENTS
The college has a list of approved rooming houses on file in the offices of the Deans. Students may not live in houses that are not on this list, without special permission from the Deans.

Students are expected to stay the full term in the rooms first engaged, changes being made only with the approval of the Deans.

The cost of room and board varies. The cost of single rooms is from $2.00 to $3.00 per week. The cost of double rooms is from $2.00 to $3.00 per week for each person. The cost of board is from $4.50 to $6.00 per week.

A deposit of the first week's rent is required of students taking a room. Payment of rent should be made weekly in advance.
EXTENSION DEPARTMENT

Through the Extension Department Western State Teachers College offers opportunities to study for credit in absentia 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 a regular term or a summer session is accepted on the certificate and degree curricular requirements.

All instruction is given by members of the regular faculty in classes which meet at frequent intervals, in centers within range of the college, or by means of carefully organized courses offered by correspondence. As far as possible, courses are equivalent to corresponding resident courses.

Resident and Extension work are not to be carried simultaneously.

A person is not to enroll for extension work with Western State Teachers College, if he is carrying work with any other educational institution.

Special announcements bearing on the work of the Extension Department will be mailed to those interested, if they address the Extension Director, Western State Teachers College, Kalamazoo, Mich.

HEALTH SERVICE

For the nominal fee of twenty-five cents a term, medical care and advice are rendered in proportion as the College is equipped to dispense such service. Many minor cases of indisposition are treated daily, although preventive rather than curative medicine is the aim. All cases of indisposition should be reported to the Health Service promptly, in order that diagnosis of incipient diseases may be made as soon as possible. The offices are in the north basement of the Science Building.

"THE HERALD"

The "Herald," the official weekly publication of the college, is issued each Wednesday. It chronicles the important activities of the College. From time to time, special numbers are issued. These are devoted to art, music, industrial training, athletics, co-educational activities of a special nature, and other particular college interests. Every student and faculty member is entitled to a copy weekly. The alumni give the paper cordial support.

REMUNERATIVE OCCUPATION

Kalamazoo offers some opportunities for students who wish to support themselves in part during residence in the College. There are openings in a number of lines, including the care of lawns and furnaces, waiting table, care of children, assisting in housework, etc.

A woman student, working in a private home for room and board, is expected to give in ordinary housework a maximum of 30 hours a week. If she works for room only, she is expected to give 10 hours a week; if for board only, she is expected to give 20 hours a week. The rates paid for miscellaneous work by the hour vary with the ability and speed of the worker and the type of work done.

Women should address applications for remunerative work to the Dean of Women; men should apply to the Dean of Men.

The College lunchroom offers employment to several students. Miss Grace E. Moore is in general charge of the lunchroom; to her all applications for work should be made.

ROUTINE OF REGISTRATION, CREDITS, ETC.

GENERAL INSTRUCTIONS FOR ENROLLMENT

Registration for the Summer Session occurs on Monday, June 26. A circular giving detailed information relative to registration may be obtained at the Information Desk.
CLASSIFICATION OF STUDENTS

Students at Western State Teachers College are classified officially as follows:

First Year—Students credited with .................................. 0 - 45 Term Hours Incl.
Second Year—Students credited with ................................. 45 - 90 Term Hours Incl.
Third Year—Students credited with .................................... 90 - 138 Term Hours Incl.
Fourth Year—Students credited with more than 138 Term Hours.

The above classification relates to eligibility for participation:

a) In Class activities
b) As Officers
c) In Social Affairs

CREDIT IN TERM HOURS (SUMMER SESSION)

A unit of work represents a course of study pursued for six weeks with four double class periods of fifty minutes each per week. It is regularly recorded as four term hours of credit.

Fractional units of work are accorded credit as indicated on the term’s schedule of classes.

(No credit will be given for a course for which the student is not officially registered.)

THE STANDARD STUDENT CLASS LOAD FOR THE SUMMER SESSION

Eight term hours of work carrying academic credit is the standard student class load for a summer session. As all courses do not carry the same number of term hours of credit, the load may vary.

EXTRA STUDIES

No student may enroll for more than ten term hours of work carrying academic credit during the Summer Session without the permission of the Extra Studies Committee. Physical Education, Library Methods, and Penmanship are not counted in term hours.

Students may make application for an extra study by securing an application blank from the Chairman of the Extra Studies Committee, filling out the same, and filing the application with the chairman of the committee. Only in exceptional cases is permission granted to carry extra studies during the first term of residence.

It is deemed more desirable for a student to do work of a high grade of excellence with a normal class load than to take extra subjects with mediocre success.

IDENTIFICATION PHOTOS

When a student enrolls for the first time he is required to have taken an identification photo. One copy of the photo becomes part of the student’s permanent record, another copy is given to the student to serve to identify him at College functions, while a third copy is filed in the Dean’s office. The charge for the photos is 25c.

MARKING SYSTEM

Each course receives one grade, which combines the results of class work and tests.

Grades are indicated by letters, to each of which is given a certain value in “honor points.”

<table>
<thead>
<tr>
<th>Grade</th>
<th>Significance</th>
<th>Honor Points (Per 4 term hours credit)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Excellent</td>
<td>3</td>
</tr>
<tr>
<td>B</td>
<td>Good</td>
<td>2</td>
</tr>
<tr>
<td>C</td>
<td>Fair</td>
<td>1</td>
</tr>
<tr>
<td>D</td>
<td>Passing</td>
<td>0</td>
</tr>
<tr>
<td>E</td>
<td>Failure</td>
<td></td>
</tr>
<tr>
<td>I</td>
<td>Incomplete</td>
<td></td>
</tr>
<tr>
<td>W</td>
<td>Withdrawn</td>
<td></td>
</tr>
</tbody>
</table>
The numerical value of E is -1. The mark of I means that the student has not finished the work of the course, through illness, unsatisfactory work, or some other excusable cause, and may be given opportunity to complete it. I's must be removed during the next succeeding term (except when the student does not return, and then within one year) or they automatically become E's. The mark of E means that the student has failed. E's and W's can be removed only by taking again all the work involved.

WITHDRAWAL FROM COURSES
The mark of W will be given only when the Registrar issues an Official Drop Slip. If a student withdraws from a class without the Registrar's permission, a mark of E (Failure) will be given.

SIGNIFICANCE OF COURSE NUMBERS
Unless otherwise noted subjects numbered
1-99 inclusive are reserved for high school students
100-199 inclusive are intended for freshmen
200-299 inclusive are not open to freshmen
300-399 inclusive are open only to juniors and seniors
400-499 inclusive are open only to seniors
The various consecutive terms in a given year subject are designated by the letters A, B and C.
Numbers of courses available through extension have Cl added to indicate class work, and Co to indicate correspondence work.

STANDARD FOR GRADUATION (HONOR POINTS)
The minimum number of honor points required of each student for graduation equals the number of four term hour subjects carried. (Usually a student in a three-year curriculum carries 36 subjects. He should earn at least 36 honor points. If he should fail in one subject, he would need to earn 37 honor points; if he should fail in three subjects, he would need to earn 39 honor points).

STUDENT ADVISORY SYSTEM
Experience has demonstrated that college students, especially beginners, need to be advised. Immediately upon registration each Freshman is assigned to The Freshman Adviser, with whom he consults relative to the details of the curriculum he wishes to pursue, sequence of studies, etc., etc. The adviser plans with him his daily program for the following term. Being advised is required of all Freshmen. With upper classmen being advised is optional, though opportunity for it is provided and students are strongly urged to avail themselves of this service.

RURAL EDUCATION
Western State Teachers College offers courses of study for the initial preparation of teachers of one-teacher, consolidated, and village schools, as well as subjects in rural education for students who are candidates for a degree. Arrangements are made for rural students who desire to specialize in the teaching of agriculture or agriculture and manual arts combined in high schools. Advanced courses are offered each term designed to be of special service to those preparing for positions as county normal or helping teachers. The enrollment and direction of students who are interested in teaching, administrative, and supervisory positions in rural, village, and consolidated schools, and the promotion of knowledge about and interest in rural education both within and without the College are functions of the Department of Rural Education.
The Western State Teachers College affords every convenience for beginning teachers and will co-operate to the fullest extent with the State Department of Public Instruction, in carrying out the provisions of the law regarding the professional training of all public school teachers.
For detailed information, see the Year Book.
BURNHAM RURAL LIFE FUND

Commemorating the twenty-fifth anniversary of Dr. Ernest Burnham's work at Western State Teachers College as the pioneer in rural education in Teachers Colleges in America, his students, colleagues, and friends established the Burnham Rural Life Fund. A part of this fund has been used to supplement the collection of books on rural life and education in the College Library; the remainder has been invested to yield an annual income which may be used for the purchase of additional books, for scholarships in the Rural Department, or for such services in behalf of rural life as the committee in charge shall consider of most value.

COUNTY NORMAL AND HELPING TEACHERS

Subjects adapted to the needs of teachers, who are working during the year as principals and critics in county normal schools or as helping teachers in county supervision, are available in the summer session, and every effort will be made to serve these teachers.

COUNTY COMMISSIONERS' SUMMER CONFERENCE

A conference is called of the county school commissioners of Southwestern Michigan during the early part of the summer session to consider their professional problems. These meetings usually include reports of progress by the different commissioners and representatives of the State Department of Public Instruction, supplemented by addresses by one or more speakers of national reputation. This meeting gives commissioners a splendid opportunity to meet the teachers from their counties in attendance at the summer session.

SCHOLARSHIP AND MEMORIAL FUNDS

The Fannie Ballou Memorial Fund, founded in 1921 in honor of Fannie Ballou, who was for seven years supervisor of the second grade of the Training School, is administered as a loan fund. Loans are awarded to persons of superior ability in the field of elementary education who have completed at least one year of resident work in this college. Preference is given to students in the Early Elementary department. The administration of this fund is in charge of the Loan Fund Committee.

The Debate Scholarship and Loan Fund. In the fall of 1920, the four debating organizations on the campus, the Academy, the Forum, the Senate and the Tribunal, combined to start a fund which should be available for loans to worthy debaters, and which should eventually be used to award scholarships to debaters. The fund has now passed the thousand dollar mark, and has been instrumental in making it possible for several debaters to remain in college. The money is administered as a trust fund, and is under the management of the Forensic Board of Control.

The Goldsworthy Scholarship, founded by Amelia Goldsworthy, former head of the Art department, provides funds to aid worthy students who give promise in art.

The Katherine Mulry Johnson Scholarships were founded in 1926 by Mrs. Johnson, for some time supervisor of the sixth grade in the Training School and later a member of the History Department of Western State Teachers College, in honor of her mother. These scholarships are awarded annually by a committee from the Department of History to two upper class women students of superior ability who plan to become teachers of history.

The Matie Lee Jones Memorial Loan Fund, founded in 1929 in honor of Matie Lee Jones, who organized the Department of Physical Education for Women, is available to women students. The fund is administered through a committee consisting of the officers and the faculty advisers of the Women's League.
SPECIAL FEATURES

ADVANCED PROFESSIONAL COURSES OF INTEREST TO EXPERIENCED TEACHERS AND ADMINISTRATORS

The Department of Education and Psychology announces several courses of special interest to experienced teachers who desire training for supervisory and administrative work. Details of these courses are given on pages 40-42. Various departments offer courses dealing with the teaching of their particular subjects.

ART COLLECTION

An interesting collection of pictures, porcelains, rare books, and manuscripts gathered through many years by the late Honorable Albert M. Todd is on exhibition in the Library Building.

BUREAU OF EDUCATIONAL MEASUREMENT AND RESEARCH

The Bureau of Educational Measurement and Research of Western State Teachers College has been established for a three-fold purpose: (1) to direct and co-ordinate the measurement and research activities of the training schools and the Teachers College; (2) to aid in the more adequate preparation of teachers for participation in measurement work; (3) to aid schools and school systems of the state in carrying forward testing programs and experimental work.

The Bureau has on hand a large number of intelligence and educational tests to serve as sample and informational material. It will answer questions relating to measurement and research activities; it carries on statistical work necessary to answer questions relative to educational problems; it edits bulletins of information concerning educational problems; it conducts the intelligence examinations of students of the Teachers College; it will send representatives to visit schools and school systems which wish to begin testing work for the purpose of instructing teachers, demonstrating the methods of testing, and actually conducting mental-educational surveys.

CO-OPERATIVE STORE

The Co-operative Store not only serves as a convenience to people on the campus, but also furnishes employment for a number of worthy students. Service is the keynote of the store and every effort is put forth to keep necessary supplies on hand for regular class work, thereby saving students much time each day.

LECTURES, ENTERTAINMENTS, EXCURSIONS, CONFERENCES

Four evening entertainments will be offered to Summer Session students. In addition, lectures, travelogues, round table discussions, and conferences with different faculty members will be held, usually in the late afternoon, and will be open to all students interested. Week-end trips outside of the city and mid-week excursions to places of interest in Kalamazoo are planned on a definite schedule. A faculty reception, two dancing parties, afternoon teas are social features of former Summer Sessions to be repeated in 1933. Announcement of each event will be made in the Teachers College Herald.

ORCHESTRA

An orchestra under expert conducting will be organized. Those interested in joining are urged to bring their own instruments, although the College provides the larger pieces.

PHYSICAL EDUCATION

Every student is required to participate in some form of physical education, approved by the department of physical education, which is in keeping with the condition and physical needs of the individual. It is hoped that as
a result right habits and attitudes of recreation will be developed which will be followed after college days are over.

Western has excellent physical education facilities: two large gymnasiums, a swimming pool, several tennis courts, a newly regraded gridiron covered with a splendid turf, a baseball field, a quarter-mile cinder running track, and other play fields for the use of soccer, hockey, speedball, and baseball players.

School for Athletic Coaches

The Department of Physical Education for Men offers each summer a number of courses particularly designed to render service to coaches and prospective coaches who are unable to take the work of the department during the other terms, or who wish to supplement and bring their training up to date.

RECREATIONAL OPPORTUNITIES

Kalamazoo is in the heart of the southwestern Michigan glacial lake country and opportunities for diversion are numerous; picknicking on the wooded hillisdes and the shores of the numerous accessible lakes, swimming, and boating being popular pastimes. Students are given free instruction in tennis on the eight campus courts. The city golf links are within one mile of the campus. Bus service to them is frequent. Summer students may have the use of the links by payment of the customary greens fee. Bus and train service makes possible a day's outing on the shore of Lake Michigan. Through various social functions every effort is put forth to further mutual acquaintance of faculty and students.

STUDENT LOAN FUND

In September, 1912, the nucleus of a student loan fund was established by the gift of $200 from Miss Blanche Hull. This fund has been increased to a total of several thousand dollars. Money is loaned to deserving students on the recommendation of a faculty committee. A low interest rate of five per cent is charged. Notes are given for not to exceed one year. Applications for loans should be made to the Student Loan Fund Committee. The Registrar is chairman.

SCHOLARSHIP COMMITTEE STANDARDS

High Scholarship List: To have his name placed on a term's High Scholarship List a Freshman must have earned at least 10½ honor points; and an upper classman, at least 10½ honor points. No grade below B may be counted. Not more than five term hours of B credit may be counted. Grades for non-credit courses (Penmanship, Physical Education, etc.) are not to be considered.

STUDENT WELFARE

Conduct in harmony with the ideals for which the institution stands is expected of each student. Effort is made to stimulate the student to earnest, honest endeavor, and to develop new and worthy interests. In order to foster his best impulses and ideals, the administration follows the policy of dealing with him as an individual. In the furtherance of this policy, a Dean of Women and a Dean of Men devote their time to matters pertaining to the welfare of the student body. They may be consulted freely on any matter in which they can be of assistance.

The College has never assumed an attitude of paternalism toward her students. However, on the assumption that the student has entered the institution for the definite purpose of educational advancement, regularity of class attendance, reasonable evening hours, and a sane social program are required.
TRAINING SCHOOL FACILITIES

The Campus Training School will be operated for the summer session. The kindergarten and grades one to eight inclusive will be open from 8:30 to 11:00 A. M. in charge of regular grade and special supervisors. A limited amount of practice teaching will be offered for students not in residence during other terms, or who can complete the work for a life certificate. Three grades will be designated as demonstration rooms, for observation and discussion courses. A few practice teaching assignments will be made in the city summer schools in junior high classes. Application for enrollment for practice teaching should be made to the Director well in advance of the opening of the Summer Session.

WILD LIFE PRESERVE

In 1922 the late Mrs. Caroline G. Kleinstueck deeded to the State Board of Education nearly fifty acres of woodland and grassland, about a mile from the campus, to be used as a wild life preserve. The preserve is under the supervision of Western State Teachers College, but may be used by any educational institution of this locality.
DETAILS OF DEPARTMENTAL COURSES

AGRICULTURE

Howard D. Corbus

141. Rural School Agriculture. 4 term hours.
This course is intended for those planning to teach in rural communities although they may not teach agriculture as a separate subject. Knowledge gained in this course may be used as an environmental method of approach to other subjects to interest pupils coming from homes where agriculture supplies the cash income. It will of necessity be very general and may not even in a simple treatment cover all phases of farm life. An attempt will be made to adapt the course to the type of agriculture typical of the locality in which the majority of the class is interested. Excellent opportunity for practical observation is afforded on the college farm.

VERNA FENSTERMACHER
HAZEL PADEN
LOUISE FULLERTON STRUBLE

ART

ELAINE STEVENSON
NINA WARD

102. Art for Teachers. 4 term hours. Miss Fenstermacher, Miss Ward.
This course is especially arranged to help the student to direct art activities in the grades. The term’s work includes lettering, design, color theory, free hand drawing, cut paper problems, holiday projects, together with methods of presenting problems and the developing of a greater appreciation in art among children. Required of Early Elementary, Later Elementary, Art, Art and Music, and Three-Year Certificate students.

104. Lettering and Poster Making. 4 term hours. Miss Stevenson.
Special problems for grades; poster work to advertise school activities. The work has been planned to be of special help to students other than Art, or Art and Music students.

107. Illustrative Handwork. 4 term hours. Miss Fenstermacher.
Problems relating to interests in primary grades worked out in wood, paper, clay, and other mediums.
Note.—Required of Early Elementary students.

110. Costume Design. 4 term hours. Miss Paden.
This course is planned especially for students of Home Economics. The principle of art is applied to costumes for individual types, and a study is made of its application to historic pageant, and play costumes.

208. Art Composition. 4 term hours. Prerequisite: Art 102, 109. Miss Paden.
A study of composing within a given space figures, landscapes, flowers, birds, and animals, emphasizing unity, good spacing, good distribution of dark and light, study of tone relationship, and color harmony. Mediums used are show card paints, charcoal, pen and ink, and linoleum cuts.

321. Painting. 4 term hours. Prerequisite: Art 102, 109, 208, or consent of the instructor. Miss Ward.
A study of color and form found in the various nature growths such as fruits, flowers, and landscape. Still-life object forms included. Various techniques are studied. Open to students from any department who have a knowledge of drawing and composition.
BIOLOGY

LESLIE A. KENOYER
HAROLD B. COOK
HENRY N. GODDARD

THEODOSIA HADLEY
Dr. PIRNIE
MERRILL R. WISEMAN

General Courses

101C. General Biology. Daily. 4 term hours. Prerequisite: Biology 101A and 101B. Mr. Wiseman.

Emphasis upon plant biology. A study is made of the leading plant groups with reference to their physiology, adaptations and life relations. Practical problems, such as plant diseases and plant propagation are emphasized. Laboratory and field studies constitute an important part of the course. In the lecture periods the general subjects of physiology, embryology, heredity, and evolution are covered.

201. Fundamentals of Biology. 4 term hours. Not open to students who have taken or expect to take Biology 101. Mr. Wiseman.

The student gets a general notion of the manner in which animals and plants feed, grow, react to their surroundings, reproduce, and develop. He gains some ability in interpreting the facts of organic nature. Classroom work and demonstrations.

302. Genetics. 4 term hours. Prerequisite: Biology 101 or 201. Daily.

The course considers why living things differ from one another and how these differences are transmitted from parents to offspring. In the laboratory the principles of inheritance are worked out through the breeding of the fruit fly.

Anatomy and Hygiene

112. Hygiene. 4 term hours. Mr. Cook.

This course considers the factors of both personal and social hygiene with especial emphasis upon the causes of ill-health and disease and their control and prevention.

211C. Physiology. 4 term hours. Prerequisite: General Biology and Anatomy. Mr. Cook.

The facts of physiology are presented to a moderately advanced degree. Stress is laid on the relation of these facts to the interpretation of disease.

Botany

223. Summer Flora. Daily. 4 term hours. Prerequisite: A year of Biology. Dr. Kenoyer.

Plants are studied from the standpoint of classification and group relationship. Some stress is placed on plant ecology. Field work constitutes an important part of the course.

Nature Study

135. Bird Study. 4 term hours. Prerequisite: Nature Study 131 or its equivalent. Summer term. Miss Hadley, Dr. Pirnie.

This course is to develop a knowledge of birds so that their beauty, methods of life, dangers of environment, and problems of food supply may be appreciated. The student learns to identify a minimum of fifty birds in the field, and one hundred birds from colored plates. Lectures are given on the economic importance of birds, their nest building habits; their different methods of protection; and what is being done for their preservation.

333. Nature Guiding and Camp Craft. 4 term hours. Miss Hadley, Miss Worner.

This course is intended to initiate the student into natural trail making, Camp Fire and Girl Scout activities. It includes games and recreation for camp grounds, outdoor cookery, and recognition of the common trees, weeds, wild flowers, and birds.
CHEMISTRY

WILLIAM MCCRACKEN  

Students preparing to teach chemistry in the high school must have as a minimum preparation in chemistry courses 101 or 102. Through arrangement with the department of physics a major in physical science may be made by taking two years of chemistry and one year of physics. A minor in chemistry consists of 24 term hours and may not be made by combining chemistry and physics.

102A. General Chemistry. 5 term hours. Dr. McCracken.
   Similar to course 101A but intended for students who have had no high school chemistry.
   Classroom, 3 double periods a week; laboratory, 4 double periods a week.
   Note.—Courses 102A, 102B, 102C will be given according to demand.

102B. General Chemistry. 5 term hours. Prerequisite: General Chemistry 102A. Mr. Eldridge.
   A continuation of course 102A.
   Classroom, 3 double periods a week; laboratory, 4 double periods a week.

102C. General Chemistry. 5 term hours. Prerequisite: General Chemistry 102A. Mr. Eldridge.
   A continuation of course 102A and B.
   Classroom, 3 double periods a week; laboratory, 4 double periods a week.

104. Chemistry and the Modern World. 4 term hours. Dr. McCracken.
   Some knowledge of chemistry is indispensable to the understanding of the world today. This course is designed for those students who have never studied chemistry and do not wish to elect a year's work in the subject, yet desire to gain an insight into the part played by chemistry in modern life and industry, and some acquaintance with the general laws of chemical action and the properties of common elements and compounds.
   No laboratory work.

201A. Qualitative Analysis. 4 term hours. Prerequisite: Chemistry 101 or 102. Dr. McCracken.
   Basis analysis.
   Classroom, 2 double periods a week; laboratory, 8 double periods a week.

201B. Qualitative Analysis. 4 term hours. Prerequisite: Chemistry 201A. Dr. McCracken.
   Acid analysis. Almost entirely laboratory work. A minimum of 20 hours of laboratory work per week required.

202A. Organic Chemistry. 4 term hours. Prerequisite: Chemistry 101 or 102. Mr. Eldridge.
   The aliphatic (fatty) series are studied—paraffins, alkyl halides, alcohols, aldehydes, ketones, sugars, amines, and acids.
   Classroom, 3 double periods a week; laboratory, 4 double periods a week.

202B. Organic Chemistry. 4 term hours. Prerequisite: Chemistry 101 or 102 and 202A. Mr. Eldridge.
   The aliphatic (open chain) and aromatic (closed chain) compounds are studied.
   Classroom, 3 double periods a week; laboratory, 4 double periods a week.

303S. Quantitative Analysis. 5 term hours. Prerequisite: Chemistry 101 or 102, and 201. Consult the instructor before enrolling. Mr. Eldridge.
   Special summer course aims to meet the requirements of the student.
   Classroom, 2 double periods a week; laboratory, a minimum of 12 hours a week.
100. **Personal Typewriting.** No credit. Miss Leighton.

The correct technique of operating the keyboard by the touch method is taught, together with complete instruction on the working parts of the typewriter, and its care. Some instruction is given in letter arrangement, addressing envelopes, making carbon copies, correcting errors, and manuscript work.

102S. **Beginning Shorthand.** 4 term hours. Miss Leighton.

This is an intensive course in the theory of Gregg Shorthand, intended to cover the entire manual. Supplementary reading and dictation exercises are given. The texts used are: Gregg Shorthand Manual, Anniversary Edition, and Graded Readings in Gregg Shorthand, Anniversary Edition.

201A. **Beginning Accounting.** 4 term hours. Mr. Pennell.

This is a beginning course in the study of the principles of the double-entry system of accounting, and an examination of the principal technical accounting devices for giving expression to those principles; the effect of current business transactions on balance sheet accounts; a study of theory and practice of recording temporary changes of proprietorship in expense and revenue accounts; and the development of simple definite rules of debit and credit. Special attention is given to columnar journals, subsidiary ledgers, and control accounts.

208. **Shorthand and Typewriting for Teachers.** 4 term hours. Prerequisite: Shorthand and Typewriting 102A, B, C, or the equivalent. Miss Leighton.

This is an advanced course for experienced teachers. Special attention will be given to application of the psychology of skill to the teaching of shorthand and typewriting; the principles underlying Gregg shorthand; supplementary materials; and the development of speed and accuracy in transcription. Recent research studies, tests and standards, and available reading material on the teaching of shorthand and typewriting will be discussed.

305. **Principles of Secondary Commercial Education.** 3 term hours. Mr. Pennell.

A brief analysis of modern business is made in an effort to ascertain the objectives of education for business at different school levels. An examination of present secondary commercial curricula is made to determine whether or not the best interests of students and of business are served. Certain modifications of existing curricula are considered and new subject matter examined. Considerable time is given to investigating recent research studies of different phases of commercial education, and some attention is given to the history and development of education for business. This course gives credit in education.
211. Later Elementary Education. 4 term hours. Prerequisite: Psychology 100, 200. Miss Mason.
A course designed for students of Later Elementary Education. Consideration will be given to the psychology and the school needs of children of the Later Elementary Grades. Emphasis will also be placed upon the materials and methods of instruction for children of these grades.

212. Psychology of Reading. 4 term hours. Prerequisite: Psychology 100. Dr. Hilliard.
A summary of the results of the scientific studies made in the field of reading, with suggestions as to the bearing of these studies upon the material and methods of teaching.

230. Principles of Teaching. 4 term hours. Prerequisite: Psychology 100, 200. Miss Mason, Miss Spindler.
Includes such topics as the curriculum, moral and social training, discipline, type lessons, questioning, and lesson plans. Systematic observation of classes in the Training School is made, and standards for judging classroom instruction are worked out.

250. Introduction to Educational Measurements. 4 term hours. Prerequisite: Psychology 100. Mr. Carter.
The purpose of this course is to train the student in the ability to apply educational and mental tests and to co-operate in school testing programs. This course will include an introduction to the theories underlying the construction and use of mental and educational tests, training in the simple statistics of measurement and the administration of tests. The student will receive an acquaintance with typical mental and school subject tests.

310. The Elementary Curriculum. 4 term hours. Prerequisite: Psychology 100, 200, Principles of Teaching 230. Dr. Hilliard.
Introduction to the field of curriculum making; basic principles underlying the same to be worked out; general review of the curriculum materials and content of the elementary grades.

320. Junior High School Education. 4 term hours. Prerequisite: Psychology 100, 200, Principles of Teaching 230. Mr. Heathcote.
A survey of the field of junior high school education. Comprises a brief study of the biological and psychological foundations upon which the junior high school is based; a survey of the origin, development, and present status of the junior high school movement; and a study of the junior high school curriculum, including a consideration of the various subjects and the points of view to be emphasized in their treatment.

325. Senior High School Education. 4 term hours. Prerequisite: Psychology 100, 200, Principles of Teaching 230. Dr. Halnon.
Character and classification of secondary school population; the secondary school teacher; classroom routine; problems of discipline; types of recitations; tests and examinations; records and reports.
327. **Senior High School Curriculum.** 4 term hours. Prerequisite: Psychology 100, 200, Principles of Teaching 230. Dr. Halnon.

Aims and functions of secondary education; evaluation of the various high school subjects; trend in the content of each subject; organization of subject matter; measurement of results; individual problems in the construction of high school curricula.

350. **Mental Tests.** 4 term hours. Prerequisite: Psychology 100, 200. Dr. Sangren.

An introduction to the use of mental tests. About two-thirds of the course is given to supervised training in the administration of the Stanford Revision of the Binet-Simon individual intelligence tests. Actual practice in the giving of mental tests is provided.

351. **Individual Diagnosis and Remedial Instruction.** 4 term hours. Prerequisite: Psychology 100, 200, Education 250. Mr. Carter.

The purpose of this course is to train the advanced student in the use of school subject tests for the purpose of diagnosis. A more careful training is given in the field of school subject tests with an attempt to show the students how to evaluate tests critically, how to detect the specific strengths and weaknesses of pupils and how to apply standard remedial devices in the improvement of instruction.

362. **The Subnormal Child.** 4 term hours. Prerequisite: Psychology 100, 200, 361. Dr. Ellis.

A course in psychology and school treatment of subnormal children. This course places its major emphasis upon the education treatment of subnormal children of the moron and borderline classes.

364. **Methods of Teaching Subnormal Children.** 4 term hours. Prerequisite: Psychology 100, 200, 361. Spring term. Miss Swanson.

The course is designed to acquaint the student with the principles and practices of instruction of subnormal children.

365. **Mental Hygiene.** 2 term hours. Prerequisite: Psychology 100, 200. Dr. Sangren.

This course is designed to acquaint the prospective teacher with the problems of mental hygiene in childhood, adolescence, and adulthood. The lectures are concerned with the mental hygiene of childhood and cover such topics as the mental examination of children, heredity and environment, nutrition, delinquency, convulsions, tics, sex development, discipline. Special emphasis is placed on the problems of adolescence.

370A. **School Administration.** 2 term hours. Prerequisite: Psychology 100, 200, Principles of Teaching 230. Mr. Pellett.

A course for students preparing for work as school superintendents. Problems commonly met by school superintendents will be studied in some detail. Among the problems discussed are the following: Relation of city to state educational organization; growth of city school organization; functions of school boards; nature of the superintendent's work; financial organization; building planning; educational organization.

371B. **School Supervision.** 3 term hours. Prerequisite: Psychology 100, 200, Principles of Teaching 230, Teaching 201, 202. Miss Mason.

This course is the continuation of 371A and includes the discussion of such topics as methods of meeting teachers individually and in groups; teacher rating; the supervisor and course of study making; the selection of instructional material.
Early Elementary Education

241B. Early Elementary Education. 4 term hours. Prerequisite: Early Elementary Education 140, 241A, Psychology 100. Miss Blackburn.

The students work with large centers of interests involving such subject matter as the social studies, numbers, and nature study.

242. Stories for Childhood. 4 term hours. Mrs. Phillips.

A study of stories and poems suitable to childhood. A survey of the field, and classroom practice in story telling.

340. Psychology of Childhood. 4 term hours. Prerequisite: Psychology 100, 200. Mrs. Phillips.

A study of the mental development of the young child; his original nature; conditions best suited to conditioning behavior in relation to his own needs and his social environment. This course should be taken simultaneously with practice teaching.

342. Parent Education. 4 term hours. Prerequisite: Psychology 100. Early Elementary Education 340, or consent of instructor. Miss Blackburn.

This course enables students to appraise and organize materials and methods of work suitable for child study groups or parent-teacher meetings.

The means of securing better habits and attitudes in school and home are studied. Behavior problems based upon actual case material secured from experiences of visiting teachers are discussed. Efforts are made to secure real practice in handling child study groups. This course is adapted to the needs of both early and later elementary teachers.

Philosophy

381B. History of Philosophy. 2 term hours. Prerequisite: Psychology 100. Open to Juniors and Seniors. Mr. Pellett.

A continuation of 381A studying the late medieval and modern systems of philosophical thought.

430. Philosophy of Education. 4 term hours. Prerequisite: Psychology 200, 201. Desirable antecedents: Sociology 301A, 431. Dr. Burnham.

This course attempts an inclusive analysis in the large of the possibilities of growth in normal human beings and inquires how education may progressively reveal the significant goals of life. The purpose of this course is to relate the agencies of education to the personal achievement and utilization of a philosophy of life equal to the needs of individuals in their generation.

Psychology

100. Introductory Psychology. 5 term hours. Dr. Henry.

An introductory course serving as a scientific basis for subsequent courses in education, as well as an introduction to the field of psychology itself.

200. Educational Psychology. 4 term hours. Prerequisite: Psychology 100. Various members of the staff.

An application of the principles of psychology to the practical work of teaching in the classroom.

300. Abnormal Psychology. 4 term hours. Prerequisite. Psychology 100, 200. Dr. Henry.

A discussion of the more common forms of mental abnormality and maladjustment. Some attention is given to feeble-mindedness. The relationship between such conditions and character development are also considered.
Composition and Rhetoric

101A. Composition. 4 term hours. Miss Walker.
A consideration of the principles of composition with emphasis upon sentence and paragraph structure. Representative prose selections are read and analyzed, and many written compositions are required.

101B. Composition. 4 term hours. Miss Little.
A general discussion of the four forms of discourse with analysis of specimens of each form. Most of the time is devoted to the writing and correction of themes.

323. Advanced Rhetoric. 4 term hours. Miss Eicher, Mr. Foley, Miss Loutzenhiser, Miss Van Horn.
In this course some attention is given to the historical background and method of development of the language. Such subjects as point of view, fashion in language, euphemism, poetic imagery, and shifting meanings of words are studied, with a view to illuminating much that lies back of literary expression, and to sharpening and vivifying the student's appreciation of literature. It is taken for granted that those who enroll in the course have had considerable work in English or in foreign language.

Literature

121. American Poets. 4 term hours. Miss Walker.
The work of this course consists of wide reading in the poetry of Bryant, Poe, Longfellow, Emerson, Whittier, Lowell, Holmes, Whitman, and Lanier. This is supplemented by intensive study of some of their chief poems and by some consideration of their significance in American literature.

202A. Representative English Poetry. 4 term hours. Miss Loutzenhiser.
The aim of this course is to help the student become more familiar with representative poets of England and the relation of each to the period and movement in which he worked. Selections are read and discussed in class.

202B. Representative English Prose. 4 term hours. Miss Van Horn.
The purpose of this course is to give the student a greater familiarity with the most representative work of England's best prose writers. Stress is placed upon the significance of each work in relation to the literary and social movements of the time. Selections are read and discussed in class.

203. Literature for Children. 4 term hours. Mrs. Biscomb, Miss Rawlinson.
This course aims: (1) to give a general survey of the fields 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 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 is paid to the subject of general reading for children, both inside and outside of school.
218A. The English Bible. 4 term hours. Mr. Sprau.

A general introduction to systematic reading and study of the Bible. Some attention is given to the making of the Bible and to its translation into English. However, most of the time is devoted to a careful study of the more literary books of the Old Testament.

219. The Short Story. 4 term hours. Mr. Foley.

This course aims to trace the development of the short story in England, France and America, with an account of the various types, and its general technique. The required reading serves to acquaint the student with the best short stories and the method of teaching such material. Themes and reports are required.

310. Tennyson. 4 term hours. Mr. Sprau.

A critical study of the poetry of Alfred Tennyson, the most representative poet of the Victorian period. Students are required to read most of the poetry of Tennyson, and the class hour is devoted to interpretation of the more important poems. The course is open to students who can pursue intensive study with profit.

322. American Literature. 4 term hours. Dr. Brown.

This course is intended primarily for juniors and seniors who have had no other courses in American literature and desire more intimate acquaintance with the subject. The work consists of lectures, discussions, and as wide reading as the time permits.

324. A General Literature. 4 term hours. Dr. Brown.

In this course the student is offered the opportunity of reading in translation the masterpieces of Continental European drama. The plays are studied with reference to their share in the development of dramatic theory as well as their influence upon English drama.

338. Modern Drama. 4 term hours. Miss Eicher.

A study of the plays of Ibsen, Pinero, Jones, Galsworthy, Shaw, and others, with a careful inquiry into the relations between the Continental, English, and American drama.

Education in English

Courses in this group may not be counted to fulfill requirements in English, but may be counted to fulfill requirements in Education.

204. Teaching Literature to Children. 4 term hours. Miss Rawlinson.

It is desirable that students undertaking this course should have considerable acquaintance with literature, and some knowledge of child psychology. Some attention is given to the principles governing the selection of literature for children, but the chief emphasis is on the various means of awakening and stimulating in children an interest in literature.
Courses 101A and 101B are foundational courses in geography and should precede all other courses except 301. Other elections to complete the requirements for a major or minor in geography should be made with the approval of the chairman of the department. Students preparing to teach geography should include course 212 in their elections. It is highly desirable that students majoring in geography elect, if possible, Economics 201, 305, and Botany 221C.

A major in earth science may be made by combining Geology 320 and six courses in geography.

Other recommended sequences are as follows:
(a) If chief interest is history: 310 and the regional geography of the country in whose history especially interested. Prerequisites to these courses are either 101A and B or 301.
(b) If major is in business administration: Either 101A and B, or 301, 210.
(c) If preparing to teach general science: Either 101A and B or 301, 207.
(d) If electing geography merely as a year sequence in science: 101A and B and one other course, or 301 and two other courses to which either 101A and B or 301 are prerequisite.

101A. Elements of Geography. 4 term hours. Miss Harrison, Miss Logan.

An introductory study of the mutual relationships between man and the natural environment with special emphasis upon types of climate and some of the adjustments which man makes to climatic conditions in selected regions.

101B. Elements of Geography. 4 term hours. Prerequisites: Geography 101A. Miss Seas.

A continuation of 101A. A study is made of relationships between various human activities and the major elements of natural environment not studied in Geography 101A. The course also includes an elementary study of map projections.

201. Geography of Michigan and the Old Northwest. 4 term hours. Mr. Wood.

The development of the “Old Northwest” in its relationship to the various natural environmental features. Special emphasis is given to the climate, geology, soils, minerals, native vegetation, and scenic features of Michigan as related to various types of economic developments within the state.

202. Geography of the United States and Canada. 4 term hours. Prerequisite: Geography 101A and B or 301. Open to qualified freshmen with consent of instructor. Miss Boswell.

A study of United States and Canada by geographic regions.

204. Geography of South America. 4 term hours. Prerequisite: Geography 101A and 101B or 301. Miss Harrison.

The relationships between the combination of natural environmental conditions existing in each of the major geographic regions of the continent and the economic activities carried on therein. The place of South America in world trade.

210. Industrial and Commercial Geography. 4 term hours. Prerequisite: Geography 101A and B. Miss Boswell.

The geographic factors underlying commerce and industry; the geography of the major industries; the principal trade routes of the world and the commerce which passes over them; great trade centers and the geographic reasons for their importance.

212. The Teaching of Geography. 4 term hours. Prerequisite: Geography 101A and B. Desirable antecedent: Principles of Teaching. Open to qualified freshmen with consent of instructor. Miss Logan.

Objectives in the teaching of geography, evaluation and technique of visual aids, organization and presentation of textual material, geographic tests.
THE SOCIAL SCIENCES

SMITH BURNHAM
MARGARET E. BURNHAM
LEONARD C. KERCHER
FLOYD M. MOORE
WILLIAM J. RHYNDSBURGER

ROBERT R. RUSSELL
EDITH SEEKELL
D. C. SHILLING
CHARLES STARRING
WALTER A. TERPENNING

History

102. History of Greece. 4 term hours. Miss Seekell.
After a brief survey of ancient Oriental civilization, this course studies the political, social, and cultural life of the Greek people from their earliest history to the breaking up of the Empire of Alexander the Great. Emphasis is placed upon our debt to the Greeks for the elements which they contributed to modern civilization.

105B. English History, 1603-1815. 4 term hours. Dr. Russel.
The struggle for Parliamentary supremacy, the Great Civil War and the Revolution of 1688, England and the Continental powers, the wars of the eighteenth century, colonial expansion, the American Revolution, opposition to France during the Napoleonic era.

106A. Modern Europe, 1500-1763. 4 term hours.
A study of the Reformation and the religious wars which followed it, the struggle between Spain and England, the rise of the Dutch republic, the growth of absolutism in France, the establishment of parliamentary supremacy in England, the rise of Russia and Prussia, and the world conflict between France and Great Britain.

106B. Modern Europe, 1763-1870. 4 term hours.
European life in the eighteenth century, the French Revolution, the era of Napoleon, the industrial revolution, reaction after 1815, the rise of democracy, and nationality in the nineteenth century.

106C. Modern Europe, 1870-1931. 4 term hours.
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 and since.

201A. United States History of 1815. 4 term hours.
This course begins with the European background of American history, traces the origin and growth of the colonies, discusses their relation to the mother country, gives special attention to the causes and course of the Revolution and to the beginnings of state and national government, and concludes with the study of the Federalist and Jeffersonian periods.

201B. United States History, 1815-1877. 4 term hours.
This course treats the history of the rising West, the influence of the frontier, the industrial revolution and its consequences, the rise of democracy, the slavery controversy, the Civil War, and the period of reconstruction.

201C. United States History, 1877 to the Present Time. 4 term hours.
The industrial development of the United States, the coming of the big business, the organization of labor, the settlement of the Far West, recent industrial, social, and political problems and the efforts to solve them, America as a World Power and its part in the War, and the history of recent years are the chief topics in this course.

202. The Teaching of History. 4 term hours. Prerequisite: Two college courses of history. Mr. Burnham.
This course is intended for students in the later elementary and junior high school groups. It deals with the aims, content, organization, presentation,
and testing of history in the grades. The evaluation of texts, the planning of lessons, the selection and gradation of collateral reading, the correlation of history with the other branches of the curriculum and with the various activities of the school receive attention.

303. **Economic Development of the United States.** 3 term hours. Dr. Russel.

Analysis of our economic development from colonial times to the present. Such forces and factors as the westward movement, the industrial and agricultural revolutions, the tariff and public finance, conservation and allied topics are considered.

306. **The World War.** 3 term hours. Prerequisite: International Relations 305.

This course deals with the causes and nature of the Great War, describes its military and other aspects, and traces the history of the negotiations for peace. A special study is made of the development of the machinery for international action—arbitration, the Hague Conferences, the World Court, and the League of Nations.

308C. **United States History, 1901 to the Present Time.** 3 term hours. Spring term. Mr. Burnham.

The Era of Roosevelt and Wilson. Social unrest and new social and political ideals, progressive legislation, America as a World Power and its part in the Great War. Problems of the present.

309. **History of China and Japan.** 3 term hours. Dr. Knauss.

A course designed to show in outline the development of civilization in the two countries. A study is made of their chief present day problems.

**Political Science**

201B. **State and Local Government.** 4 term hours. Mr. Shilling.

Since the citizen has many contacts with the state, city, or county government, an effort will be made to acquaint the student with the organization, aims, and problems of state, county, and municipal government.

401A. **Comparative Government.** 3 term hours. Prerequisite: Government 201A and B, or History 201. Mr. Shilling.

This course aims to acquaint the student with the structure, problems, and workings of the governments of the more important European countries. During this term the British Empire is studied.

**Sociology**

103. **Sociology.** 4 term hours. Elective for freshmen only. Given each term. Dr. Burnham.

See description of courses in Rural Education department, page 58.

201A. **Society and the Individual.** 4 term hours. Mr. Kercher.

A discussion of the physiological approach to the study of sociology. Some consideration is given to the biological basis of personality and social life. The chief emphasis is upon the social origin and character of human nature and individuality.

Note—Courses 201A, B, C constitute a year's work in social theory. If all three terms are elected, the second and third terms must be taken consecutively. During the year students will be required to make an original application of the principles of the course in the form of a thesis.

201B. **Social Organization.** 4 term hours. Prerequisite: Sociology 201A. Dr. Terpenning.

The group phase of the organic relation between society and the individual is presented in connection with such subjects as the following: primary groups and the ideals which develop in them; the importance of communica-
tion in the extension of primary ideals to the more elaborate groupings; systems of idealism such as Democracy and Christianity; the organization and function of social classes; the nature, functions, and dangers of institutions; the importance and control of public will.

See note under course 201A.

203. Rural Sociology. 4 term hours. Dr. Burnham.
See description of course in Rural Education department, page 58.

301A. The History of Social Thought. 4 term hours. Prerequisite: Sociology 201A and 201B. Dr. Terpenning.
A critical study of about thirty important men from Zoroaster and Confucius to contemporary social theory. The course will also include estimations of various schools of thought such as the economic determinist, the militarist, the eugenist.

Note.—Courses 301 A, B, C, D may be taken separately and they may be taken in any order by students who have had the prerequisite courses.

301B. Social Pathology. 4 term hours. Prerequisite: Sociology 201A and 201B. Mr. Kercher.
A study of pathological or diseased aspects of modern society from the point of view of fundamental causes and scientific remedies. Poverty, delinquency, divorce, unemployment, insanity, crime, and kindred subjects are considered.

See note under course 301A.

Economics

201A. Principles of Economics. 4 term hours. Given each term. Mr. Moore.
A study of the fundamental principles of Economics and their application to some of the more important of our economic problems. Special emphasis is placed upon the laws of price, the fundamental principles involved in production, and the principles underlying our monetary and banking systems. A few problems such as those presented by the business cycle, inter-regional trade, business organization, and marketing are frequently included.

201B. Principles of Economics. 4 term hours. Prerequisite: 201A. Mr. Rhynsburger.
Primary emphasis is placed upon the principles involved in what is technically known as distribution of wealth. The list of problems studied includes: railroad regulation, the control of industrial monopolies, risk bearing, insurance, speculation, public finance, taxation, employment relations, and proposed reforms of our economic system.

202. Financial Organization. 4 term hours. Prerequisite: Economics 201. Mr. Rhynsburger.
A survey course designed to present the essential features of the modern financial system, and to enable the student to obtain an understanding of the economic functions performed by each of the numerous financial institutions,—investment banks, stock exchanges, commercial banks, trust companies, savings institutions, commercial paper houses, discount companies, Federal Reserve and Federal Farm Loan institutions,—which together comprise this system.

303. Business and Government. 4 term hours. Prerequisite: Economics 201. Work in government may be substituted in special cases by permission of the instructor. Mr. Moore.
The relations of the government to public service corporations and to private businesses. The course includes a study of the necessity of regulation, franchises, intermediate permits, public utility commissions, principles of valuation, rate-making, service, capitalization, government ownership, legal and constitutional aspects of regulation, control of corporations and trusts, regulation of competition, governmental encouragement of business and national policies toward business.
HOME ECONOMICS

EVELYN WALTON  
CORAL WALKER  
RUTH V. SCHUMACHER

110. Clothing. 2 or 4 term hours. Miss Walker.
A course for non-specializing students. Clothing appreciation and garment construction are taught to help the student of any department to clothe herself appropriately and economically.

207. Foods. 4 term hours. Miss Walton.
Problems in planning, marketing, preparing, and serving meals.

210. Clothing. 4 term hours. Prerequisite: Clothing 110 or its equivalent. Mrs. Schumacher.
Applied dress design. The course includes making a paper dress form and its use. Emphasis is placed upon application of art principles to the costume.

An elective course for students not specializing in the department. One-half of the time is devoted to the study of artistic principles connected with the planning and furnishing of the home. The other half is given to a study of the family and administrative problems.

305. Millinery. 3 term hours. Prerequisite: Home Economics 101, Clothing 103. Miss Walker.
A study of line and design in hats as a part of the complete costume. The fundamental processes in millinery construction are taught in the blocking and draping of inexpensive hats of felt, straw, ribbon, and fabric.

Note.—This course is open to other than Home Economics students upon recommendation of the adviser.

409. Home Economics Education. 4 term hours. Prerequisite: Home Economics Education 209, Practice Teaching 201, 202. Mrs. Schumacher.
A study is made of the problems which the student teacher or the teacher of experience has met. The development of home economics and the requirements of the Smith Hughes act are also studied.

LATIN

EUNICE E. KRAFT

100 A, B, or C. Elementary and Second-Year Latin. 4 term hours. Miss Kraft.
This course is designed for those students who need two units of Latin for admission to the A. B. curriculum, or to a medical, dental, or other professional course. It covers the work of two units of high school language requirement. One unit of high school Latin may be applied provided the remainder of the course is taken here.

205. Teachers Course. 4 term hours. Miss Kraft.
This course treats of the problems of the first two years of high school Latin. Observations of teaching, reports and discussion form a part of the work. This course must precede practice teaching in Latin. This course is given credit in Education.

207. Roman Life. 4 term hours. Miss Kraft.
The distinctive features of Roman private and public life are presented with a view to the needs of the high school teacher. Since a knowledge of Latin is not required, the enrollment is not limited to students of the department.

LIBRARY

A course of ten lessons on the use of the library. Required of all freshmen.
98. **Mechanical Drawing.** High school credit only. Mr. Huff.
Lettering, technical sketching, working drawings of simple objects, tracing, inking, and blueprinting as outlined by the State of Michigan Course of Study. Required of all manual arts students who have not had a satisfactory course in high school mechanical drawing.

99. **Elementary Woodwork.** High school credit only. Mr. Sherwood, Mr. Woods.
A beginner's course in the fundamentals of hand woodworking including care and use of the common bench tools and simple wood finishing. Designed particularly to prepare the student of limited experience for shop courses of college grade and required of all students who have not had this work in accredited high schools.

101. **Woodshop.** 4 term hours. Prerequisite: Consent of instructor. Mr. Sherwood.
A continuation of course 99. This course includes shop drawing, blue print reading, and fundamental tool processes, as well as general information helpful in organizing elementary woodworking classes. A combination theory and laboratory course suitable for students enrolled in other departments. This course will also give special attention to those students who are preparing to go into rural high schools where they will be expected to give a general course in farm shop.

103. **Advanced Bench Work.** 4 term hours. Prerequisite: Elementary Woodwork 99 or equivalent. Mr. Sherwood.
An advanced course in bench woodworking with particular emphasis on technique of hand tools, grinding and sharpening. Includes elementary pattern making and molding.

111A. **Mechanical Drawing.** 4 term hours. Prerequisite: Mechanical Drawing 98 or equivalent. Mr. Huff.
A continuation of the principles emphasized in Mechanical Drawing 98. Lettering, sketching, drawing, tracing, and electric blueprinting of suitable shop projects.

111B. **Mechanical Drawing.** 4 term hours. Prerequisite: Mechanical Drawing 111A. Mr. Huff.
More advanced problems in mechanical drawing, detailing, design, theory
and application, ranging from simple geometrical problems through surface development to machine details, cams, and gears. Special emphasis on review of the fundamentals of drawing and discussions of practical problems.

**201. Mechanical and Machine Drawing.** 4 term hours. Prerequisite: Mechanical Drawing 98 or equivalent. Mr. Huff.

Special attention is given to orthographic projection, detailing assemblies, and other fundamentals of drafting. This course is the equivalent of drawing I, of the Engineering Department, University of Michigan, and satisfies the requirements of engineering students.

**212. General Shop.** 4 term hours. Mr. Woods.

This course succeeds Household Mechanics 102A. It should be accompanied or preceded by Electricity 160. It makes a study of the problems of industrial arts at the junior high school level. The course includes practicable problems in glazing, painting, plumbing, electrical construction, and the repair of electric appliances.

**215. A, B, or C. Architecture.** 4 term hours. Prerequisite: Mechanical Drawing 111. Mr. Huff.

Plans, elevations, detailing, rendering, perspective, estimates, tracing, and blueprinting of structures ranging from simple one-story buildings to original designs for modern homes are included. Special emphasis is placed on practical work and architectural appreciation.

**224A. Machine Shop.** 4 term hours. Mr. Weaver.

A course in the fundamentals of machine tool operation, involving work at the bench and the use of machines making simple projects.

**224B. Machine Shop.** 4 term hours. Mr. Weaver.

Advanced practice in the operation of machine tools and making parts of simple machines requiring some assembly and fitting of parts.

**224C. Machine Shop.** 4 term hours. Mr. Weaver.

Simple tool making, taps, reamers, small dies and designs of jigs and fixtures. A study is made of shop layouts and equipment, and a course is outlined for teaching machine shop practice.

**301. Shop Organization.** 2 term hours. Mr. Sherwood.

This course includes the organization of models, outlines, and various teaching aids as well as a discussion of modern tool and equipment arrangements for school shops.

**MATHEMATICS**

**JOHN P. EVERETT**

**HUGH M. ACKLEY**

**GROVER C. BARTOO**

**PEARL F. FORD**

**100A. Algebra Beginning with Quadratics.** 4 term hours. Mr. Bartoo.

Designed for students who present for admission one year only of algebra. For those students it should precede all other courses in mathematics.

**100C. Trigonometry.** 4 term hours. Miss Ford.

Plane trigonometry, trigonometric functions, identities, inverse functions, solution of triangles by logarithms.

**101. Arithmetic.** 4 term hours. Prerequisite: High school algebra and geometry. Mr. Cain.

A teachers course. Lectures and discussion on the history and teaching of the subject, with assigned reading. Extended treatment of typical problems of applied arithmetic.
115. **College Algebra.** 4 term hours. Mr. Cain.
A thorough review of elementary algebra, followed by topics usually studied in college algebra, such as the function concept, determinants, permutations and combinations, theory of equations, and logarithms.

116. **Analytic Geometry.** 4 term hours. Prerequisite: Trigonometry and college algebra. Miss Ford.
Analytic geometry of the straight line, circle, and conic sections. This course is designed to follow course 115, and students who have completed courses 100C, 115, and 116 will be admitted to Calculus.

202. **Teaching of Junior High School Mathematics.** 4 term hours. Prerequisite: High school algebra and geometry. Dr. Everett.
This course consists of a series of talks and discussions, with assigned readings, on the best methods of teaching mathematics in the seventh, eighth, and ninth grades. Such topics as the function concept, graphs, the transition from arithmetic to algebra, formulas, and the more modern business application of the subject are considered along with the more traditional material of these grades.

205A or B. **Calculus.** 4 term hours. Prerequisite: College algebra and analytic geometry. Mr. Ackley.
An elementary course in differential calculus.

208. **The Teaching of Geometry.** 2 term hours. Mr. Bartoo.
The aim of this course is to give the prospective teacher the best educational thought relating to the content and teaching of geometry in the high school. It is recommended that this course precede practice teaching in geometry. See note following course 209.

209. **The Teaching of Algebra.** 2 term hours. Mr. Bartoo.
The aim of this course is to give the prospective teacher the educational thought with reference to the content and teaching of algebra in the high school. It is recommended that this course precede practice teaching in algebra.

Note.—Courses 208 and 209 will be given at consecutive hours, making it convenient for those who desire to take both courses for four hours credit.

210. **Surveying.** 4 term hours. Prerequisite: Trigonometry. Mr. Ackley.
A course in field work involving actual problems in surveying and leveling. The final test consists of field notes and a map from a personal survey of an irregular tract.

211. **Introduction to Statistics.** 4 term hours. Dr. Everett.
The object of this course is to give the student a knowledge of logical principles and of methods of procedure underlying statistical analysis. The topics discussed include measures of central tendency, of dispersion, and of relationship.

**MODERN LANGUAGES**

**French**

M. AMELIA HOCKENBERRY  
MYRTLE WINDSOR

101A. **Elementary French.** 4 term hours. Miss Windsor.
The rudiments of French grammar, pronunciation, and ear training are stressed. No credit for the work of any term will be given until the year's work is completed.

101B or 101C. **Elementary French.** 4 term hours. Miss Windsor.
A continuation of 101A. This course is planned to accommodate students who have completed 101A or 101B as a summer course. Students may pursue work giving credit for either 101B or 101C.
203. Readings from Modern French Novels and Stories. 4 term hours. Mrs. Hockenberry.
This course is intended for those who have had two years of college French or its equivalent. Students having less prerequisite may consult the instructor for adjusting of work and credit. This course consists of reading, resumés, and discussions from the various points of view of language, ideas, and French life.

205A, B, and C. France and the French. 4 term hours. Mrs. Hockenberry.
A course conducted in English, intended for background and general information. The work consists of discussions and reports, supplemented with lantern slides, on the art, geography, education, and historical monuments of France.

**German**

Elisabeth T. Zimmerman

101A. Elementary German. 4 term hours. Miss Zimmerman.
The work of this course covers that of the first term of elementary German. It includes the study of the elements of German grammar, oral work, and the reading of simple German. To capable students an opportunity of finishing the year's work by correspondence is offered.

102A, B, or C. Intermediate German. 4 term hours. Miss Zimmerman.
The work of this course covers that of the first term of the second year of German and is also adapted to meet the needs of students who wish credit for German 101C or 102B. It includes a review of grammar, the reading of simple modern German texts, composition based upon them, and the study of poems.

**Spanish**

Harry P. Greenwall

101A. Elementary Spanish. 4 term hours. Mr. Greenwall.
The elements of grammar and pronunciation are given particular attention. The use of oral Spanish is encouraged.

102A, B, or C. Intermediate Spanish. 4 term hours. Mr. Greenwall.
A modern novel is read, which serves as a basis for composition and grammar work.
Note.—This course may be substituted for 101C with the consent of the instructor.

**MUSIC**

Harper C. Maybee
George E. Amos

H. Glenn Henderson
Dorothea Sage Snyder

104. Early Elementary Music. 4 term hours. Mrs. Britton, Mrs. Snyder.
This course gives a singing knowledge of syllables in all major and minor keys, study of song material for first three grades, treatment of monotones, experience in presentation and teaching of rote songs and introduction of notation.

105. Later Elementary Music. 4 term hours. Mrs. Snyder.
Material suitable for upper grades, method of introducing part singing, and experience in unison and part singing in all major and minor keys.

106. Rural School Music. 4 term hours. Mrs. Snyder.
The course consists of sight reading of unison songs, introduction of part singing, theory, methods of teaching music in the rural school, organization of music work in the school and the community. The importance and value of music in the life of school and community are emphasized. Material for school singing, community singing, appreciation work, and recreational play are considered.
106A. **Musical Appreciation for Rural Schools.** 2 term hours.
Stresses beauty through music as developed by means of a phonograph and records; its correlation with other school subjects; and, in general, rhythmic, melodic, and harmonic development.

206C. **Music Education.** 4 term hours. Prerequisite: Music 206A, B, or equivalent. Mr. Maybee.
The course presents methods of organizing classes and material suitable for both junior and senior high schools. It involves study of the changing voice, voice testing, chorus management, methods of organizing and conducting class work, glee club, chorus, and voice culture.

209. **Harmony.** 4 term hours. Prerequisite: Music 101, and at least the ability to play hymns. Mr. Henderson.
The course presents sufficient material to enable a student to gain an intelligent knowledge of modern harmonic treatment. Part writing from given basses and melodies, chord and melodic progressions required.

212C. **Musical Appreciation.** 4 term hours. Prerequisite: One of the following: Music 101, 104, 105, 106. Mrs. Britton.
A study of the masterpieces is made, and appreciation work in preparation for teaching children is definitely worked out.

216A. **Voice Culture.** 2 term hours. Mr. Maybee.
The work in this course is designed to further the development of the first year's work. The class is divided into sections with the idea of having voices of similar character and quality work together for more intensive and individual study. Suggestions are made to individuals before the class so that all may have the advantage of the work. Songs are taught to the groups and eventually sung by the individual.

320A. **Musical Composition and Analysis.** 4 term hours. Prerequisite: Music 101, 209. Mr. Henderson.
Advanced harmony and the analysis of the various musical forms; working out of original vocal and instrumental selections.

331A. **Orchestration.** 4 term hours. Prerequisite: Consent of the instructor. Mr. Amos.
The orchestration of hymns, songs, and larger works. Opportunity will be provided for students to learn to tune and to study the fundamental principles of playing the various instruments of the orchestra.

**PENMANSHIP**

**Penmanship.** Non-credit course.
A study of the psychology, physiology, and pedagogy of handwriting. Includes a study of the objectives in the teaching of handwriting, of the relation of writing to the other subjects of the curriculum, of the measurement of handwriting, and of the best methods of presentation. Special training is given in the use of scales and score cards in diagnosing handwriting difficulties and in determining the remedial work that would be most helpful.
101. **Physical Education.** One hour period four days a week. Mr. Smith.
Athletics, team games, and general recreation for physical education programs. Tennis instruction is offered if requested.

101A. **Tennis.**
May be substituted for Physical Education 101.

103. **Physical Education.** Mr. Gary, Mr. Maher, Mr. Read.
Intramural teams and County Baseball League play a regular schedule of games from 3:00 to 5:00.

312. **First Aid and Athletic Training.** 2 term hours. Mr. Gary.
The conditioning, care, and training of members of athletic teams. Passive and active movements in the treatment of athletic injuries.

313. **Football Technique.** 3 term hours. Mr. Gary.
Fundamentals of football coaching with special emphasis on catching, punting, kicking, blocking, interference, tackling, principles of line and backfield work, and the most approved manner of playing the various positions. Building and formations of plays, generalship, signal systems, and scouting. Some problems of the coach. Study of the rules.

315. **Basketball Technique.** 3 term hours. Mr. Read.

317. **Baseball Technique.** 3 term hours Mr. Maher.
Theory and practice in base running, fielding, batting, and pitching; detailed study of each position; offensive and defensive team play; officiating; scoring; study of rules.

319. **Track and Field Technique.** 3 term hours. Mr. Smith.
The best accepted forms of starting, hurling, distance running, pole vaulting, discus and javelin throwing, sprinting. Study of physical condition affecting speed, endurance, and fatigue. The selection and preparation of contestants for the different track and field events. Managing and officiating of games and meets. Study of rules. Practice on the track.

332. **Camping and Scouting.** 4 term hours. Mr. Read.
Principles of scout work organization equipment, rope tying, patrols, signaling, and hiking. Hikes and at least two week-end trips are taken. The object of this course is to make every graduate of the department a potential scout master.

405. **Playground and Community Recreation.** 4 term hours. Mr. Maher.
Nature and function of play; age periods, and adaptation of activities; social environment; playground development; construction, management, and supervision. Practice in class instruction in games, story plays, handwork, and other physical activities. A survey of recreational material, athletic and field meets. Laboratory work with Training School children required.
Each student is required to take both a physical and medical examination upon entering and is then assigned to the type of activity for which she is best fitted. No student is excused from physical education. Courses 102, 103, and 104 are planned for students in restricted groups.

The required gymnastic costume consists of black circular bloomers and a white blouse. A gray tank suit is required for swimming. This equipment may be purchased at the Co-operative Store.

Students are not permitted to earn more than one credit in physical education in any one term and are not given credit for more than three terms of the same activity.

101B. Physical Education. Miss Stephen.
Volley ball and folk dancing are emphasized. Some marching and gymnastics are included.

102. Physical Education. Miss Hussey.
A daily rest period for students who are physically unable to participate in class activity.

103. Restricted Exercise. Miss Stephen.
Exercise for restricted groups. Hiking, bowling, and quoits.

105. Swimming. Miss Hussey, Miss Worner.
Swimming, diving, life saving.

A course in basketball playing and coaching.

201. Tennis. Miss Hussey, Miss Worner.

Practice in form for the various shots with some work on the course.

203. Folk Dancing. Miss Worner.
Country, folk, and national dances. Clogging.

207. Archery. Miss Hussey.

230. Early Elementary Education. Miss Stephen.
A study of the physical, mental, and social nature of children in the Early Elementary Group and consistent activities to take care of their needs. Two periods a week are devoted to presentation of material by members of the class. One period is for lecture and discussion.

231. Later Elementary Education. Miss Vestal.
A study of needs and interests of pupils of later elementary grades, along physical education lines, and presentation of physical education activities suitable to that age.

A course giving in theory and practice, physical education activities suitable for junior and senior high students.

Suggested indoor and outdoor program for mixed age groups. Ideas for track meets, picnics, play days, holiday programs, and student leadership systems.

333. Nature Guiding and Camp Craft. For description of course see page 37.
A major in physics consists of 36 term hours. Through arrangement with the department of chemistry a major in physical science may be made by taking one year of chemistry and two years of physics. A minor in physics consists of 24 term hours and may not be made by combining physics and chemistry. Although it is desirable that students start their college physics with the course in mechanics, exceptions may be made to this requirement in the case of students enrolled in the summer.

166. Practical Radio. 3 term hours. Prerequisite: High school physics. Mr. Marburger.

An elementary non-mathematical course in the fundamental principles underlying radio reception and transmission. It is designed to meet the needs of teachers and students preparing to teach high school physics and general science. Different types of receiving and transmitting circuits are studied. Classroom, 4 single periods a week; laboratory, 1 double period a week.

203A. Mechanics and Sound. 5 term hours. Prerequisite: High school physics and trigonometry. Mr. Rood.

A general college course in mechanics of solids and fluids. The last part of the term is devoted to the study of sound. The work consists of demonstration lectures and recitations with illustrative problems. Classroom, 5 double periods a week; laboratory, 2 double periods a week.

203B. Heat and Light. 5 term hours. Prerequisite: Physics 203A. Mr. Marburger.

A general course dealing with the phenomena of heat and light. Classroom, 5 double periods a week; laboratory, 2 double periods a week.

203C. Magnetism and Electricity. 5 term hours. Prerequisite: Physics 203A. Mr. Marburger.

A college course in magnetism and electricity. The same general plan of presentation is used as in Physics 203A. Classroom, 5 double periods a week; laboratory, 2 double periods a week.

Note.—Courses 203 A, B, and C constitute a year’s work in college physics and should be elected by students who desire a complete unit of credit for this subject, either as a foundation for teaching high school physics or in preparation for more advanced courses in physics and engineering. Either 203B or 203C will be given in response to demand.

210. Astronomy. 4 term hours. Mr. Rood.

A non-mathematical course in descriptive astronomy for students of general science and others who desire an understanding of the elements of the subject. Open as an elective to students of all curricula.

404 Advanced Laboratory Physics. Credit dependent upon work accomplished. Prerequisite: Physics 203A, B, C and experience in other courses offered in this department. Mr. Marburger, Mr. Rood.

Work may be done in any field of physics. This course should be elected by students only after consultation with the instructor who will supervise it.
RURAL EDUCATION

WILLIAM MCKINLEY ROBINSON

CLEORA A. SKINNER

ANNA L. EVANS

Additional information relating to the work of the Department of Rural Education may be found on the following pages:

Opportunities in the field of rural education, page 31.
Facilities for training for work in rural education available at Western State Teachers College, page 31.
Certificates granted, page 26.
Curricula offered, page 27.
Provision for county normal and helping teachers, page 32.

Attention is called to the course in Musical Appreciation 106A and Home Economics 120 which are especially designed for students in one-teacher consolidated and village schools.

101. Curriculum. 4 term hours. Miss Evans.
A discussion of modern methods in curriculum making, with special attention to the elementary school subjects; a survey of the development of these subjects, together with the objectives to be sought in each and the standardized tests used with each; a detailed study of the Michigan State Course of Study; and a brief comparative study of the Michigan State Course of Study and the courses of other states and cities.

101R. Principles of Teaching. 4 term hours. Prerequisite: Psychology 100. Miss Evans.
A study of the general principles of teaching, with particular application to rural school situations. Textbook discussions, supplementary reading, and observations in the Training School are required. Prerequisite to practice teaching.

103. Sociology. 4 term hours. Elective for freshmen only. Mr. Robinson.
A study of social relations and activities in small communities. An elementary textbook 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 activities is available.

201B. Rural Education. 4 term hours. Mr. Robinson.
Deals with the general questions of teaching, supervising, and administering rural schools. Executive facility and efficiency in the whole work of the school are the major considerations.

Note.—Rural Education 201 C will be given in the Summer of 1934.

304. Rural Education. 2 term hours. Prerequisite: Consent of instructor. Mr. Robinson.
This is a seminar course for advanced students who are interested in keeping abreast of current progress in rural education. The best material in print on rural life and education will be read and discussed. A study is made of problems relating specifically to administration, teaching, the curriculum, supervision of all types of rural schools, and the preliminary and service preparation of teachers. Research by individual members of the class is required.

Note.—The A, B, or C term of this course will be offered according to major interests.
TRAINING SCHOOL

SPEECH

LAURA V. SHAW

101A. Fundamentals of Speech. 4 term hours. Miss Eccles.
The basic course for all work in the department. A study and application
of the fundamental principles underlying the use of the voice and body for
effective communication.

215. Acting. 4 term hours. Prerequisite: Speech 101A and B, 210, or the
consent of the instructor. Miss Shaw.
Improvisation and practical work on the stage. Through criticism from the
instructor and the class, the student acquires an understanding of the basic
principles of the art of acting.

315. Play Production. 4 term hours. Prerequisite: Speech 101A and B, 210,
215, and the consent of instructor. Miss Shaw.
Methods of staging plays, including stage settings, costume, and makeup.
Plays are presented by the class. Each student directs at least one play.

TRAINING SCHOOL

Teaching

The Campus Training School is open in the summer session from 8:30 to
11:00 A.M. Courses in observation and practice teaching are offered.
Practice teaching assignments are reserved for students who have not been
in residence during the other terms, and for those who can complete the
work for a life certificate. Since the number of such opportunities is limited,
application should be made to the Director of the Training School well in
advance of the summer session enrollment day.
Pupil enrollment is by application. Children of students attending the sum-
mer session are among those accepted. The work is designed to furnish profitable
experience for the children rather than to provide opportunity for the
making up of grades by those who have failed of promotion.
Students enroll for teaching at the Training School office on enrollment
day. At this time assignment is made to a definite grade and supervisor.
Class meetings with the Supervisors are held Mondays, Tuesdays, Thurs-
days and Fridays, 11:00 to 11:50. Meetings with the Director are held
Wednesdays, 11:00 to 11:50. All who enroll for teaching must therefore re-
serve the hours from 9:00 to 11:50.
Students enrolled for practice teaching are advised not to take extra studies
the same term.

Courses

301, 302. Teaching. 4 term hours each. Prerequisite: Psychology 100, 200, Prin-
ciples of Teaching, and one-fourth as many honor points as term
hours of credit earned. Mr. Ellsworth, Grade and Special Super-
visors.
These courses include the teaching of classes in the Training School, the
observation of lessons taught by the Supervisors, the study and measurement
of children as individuals and in groups, and meetings with the Supervisors of
practice teaching, and with the Director of the Training School the first term.
Students are urged to become as familiar as possible with the spirit and
general workings of the Training School.

305. Teaching. 4 term hours. Prerequisite: Maturity and experience. Given
summer session only. Mr. Ellsworth and Supervisors.
A course in observation and discussion designed to keep teachers of experi-
ence in touch with the best present-day practice. Demonstration rooms are
conducted, one each in primary, intermediate and upper grades. The aim is
to present progressive methods of education under modern conditions.
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