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Western State Teachers College Bulletin Summer 1932

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Western State Teachers College
KALAMAZOO, MICHIGAN

BULLETIN

1932 SUMMER SESSION
MONDAY, JUNE 27, TO FRIDAY, AUGUST 5

This Institution is a member (Class A) 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

1. 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

2. 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
1932-1933

SUMMER SESSION—1932
Monday, June 27 Registration of Students
Tuesday, June 28 Recitations Begin
Friday, August 5 Summer Session Ends

FALL TERM—1932
Monday, September 26, to Wednesday, September 28 Freshman Days
Tuesday, September 27 Registration of Freshmen
Wednesday, September 28 Registration of Upper Classmen
Thursday, September 29 Recitations Begin
Wednesday, December 21 Fall Term Ends

WINTER TERM—1933
Monday, January 2 Registration of Students
Tuesday, January 3 Recitations Begin
Friday, March 24 Winter Term Ends

SPRING TERM—1933
Monday, April 3 Registration of Students
Tuesday, April 4 Recitations Begin
Friday, June 16 Spring Term Ends
Saturday, June 17 Alumni Day
Sunday, June 18 Baccalaureate Address
Monday, June 19 Commencement

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
PROGRAM OF SUMMER SESSION EVENTS—1932

First Week (June 27-July 1)

Monday, June 27 .... Registration.
Tuesday, June 28 .... 3 P. M. Matinee Tour.* Kalamazoo State Hospital. Opportunity to observe care and treatment of patients including methods of occupational therapy. Discussion of insanity by medical officer is probable.
7:30 P. M. General Assembly. (Speaker to be announced)

Wednesday, June 29 3-5 P. M. Women’s League Room, Open House Tea.
Thursday, June 30 .... 3 P. M. Matinee Tour.* Michigan Bell Telephone Exchange to observe modern methods of communicating by means of intricate automatic and manual controls.

Second Week (July 5-July 9)

COMMERCIAL SCHOOL EXHIBIT WEEK

Tuesday, July 5 .... 9 A. M. General Assembly. Program of Music.
3 P. M. Matinee Tour.* “W.K.Z.O. The Voice of Southwestern Michigan on the Burdick Hotel.”
A visit to the local broadcasting station.

Wednesday, July 6 .... 3-5 P. M. Women’s League Room Open House Tea.
8 P. M. Feature Entertainment. Paul Fleming—Magician.

Thursday, July 7 .... 3 P. M. Matinee Tour.* Ann Kellogg School, Battle Creek. This famous school is designed to provide for both normal and atypical children, with special attention to and equipment for orthopedic, open air, sight-saving, deafened and other special cases of maladjustments.
8 P. M. All College Picnic—College Grove.

Saturday, July 9 .... 7 A. M. Week end excursion.** Michigan State Prison at Jackson. To observe and discuss methods of penology.

Third Week (July 11-July 16)

Monday, July 11 .... 8 P. M. Feature Entertainment. The Filipino Collegians.

Tuesday, July 12 .... 10 A. M. General Assembly. Rev. Frederick Fisher.
3 P. M. Matinee Tour.* Kalamazoo New City Hall. This newest architectural gem is a model of its kind, combining beauty, utility and economy in a manner seldom found in municipal construction.

Wednesday, July 13 .... 3-5 P. M. Women’s League Room Open House Tea.
3 P. M. Matinee Tour.* Kalamazoo State Hospital. To accommodate those unable to make the first tour.

Thursday, July 14 .... 3 P. M. Matinee Tour.* Sutherland Paper Co. To observe the manufacture of paper and its construction into special cartons used for food containers.
Friday, July 15
  3 P. M. Week end excursion.** A three day trip to Chicago to visit the art, civic, merchandise and social centers of that famous city. The pre-viewing of parts of the century of Progress Exposition will be a special feature. Trips will probably include crossing Lake Michigan by steamer. Leave campus Friday afternoon at 3:00, return Sunday at midnight. Cost not to exceed $8.00, without meals.

Saturday, July 16
  7 A. M. Alternate week end excursion.** South Bend. Observe the manufacture of automobiles as guests of the Studebaker Corporation. Visit famous Notre Dame and its noted art galleries and libraries and St. Mary’s College and academy. Spend the day in Indiana.

Fourth Week (July 18-July 23)

Tuesday, July 19
  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 Miner Sanctuary in Ontario.
  8 P. M. Feature Entertainment. Redpath Play Company.

Wednesday, July 20
  3-5 P. M. Women’s League Room Open House Tea.
  3 P. M. Matinee Tour.* Battle Creek Sanitarium, one of the famous health centers in the middle West, to observe equipment and methods for health restoration.

Thursday, July 21
  3 P. M. Matinee Tour.* Camp Custer and U. S. Veterans Hospital. Observe work of R. O. T. C. and C. M. T. C. at first hand. It is probable that dinners will be served for this party in the Officers’ Mess at nominal cost.

Friday, July 22
  1 P. M. Week end excursion.** Niagara Falls via the Michigan Central and Lake Erie Boat Routes. Leave Campus Friday afternoon at 1:00. Arrive at Kalamazoo Sunday afternoon at 5:30. Trip will be made for party of approximately fifty students. Special rates will include transportation by rail and water, sixty-six mile motor coach tour around Niagara Falls, two nights on board ship and other attractions. Cost not to exceed $18.50, without meals.

Saturday, July 23

Fifth Week (July 25-July 30)

Monday, July 25
  8 P. M. Feature Entertainment. The Welch Imperial Singers.

Tuesday, July 26
  10 A. M. General Assembly. Dr. G. J. Laing.
  3 P. M. Matinee Tour.* Nazareth Academy, an outstanding Catholic convent of the Sisters of Saint Joseph, boarding school for girls, boarding school for boys, and a Liberal Arts College.

Wednesday, July 27
  3-5 P. M. Women’s League Room Open House Tea.

Saturday, July 30 . . 6 A. M. Week end excursion.** Michigan Home For Feeble Minded at Lapeer. Observe methods of instructing subnormal children and note the wonderful results of this training in adjusted personalities, economic efficiency and hopeful outlook for life. A trip of instruction and inspiration.

8 A. M. Alternate week end excursion. Battle Creek. Visit the “Home of Kelloggs” and the “Postum Cereal Company” to observe the manufacture of popular breakfast foods. The trip may extend to other attractions in Battle Creek.

Sixth Week (August 1-August 5)

Tuesday, August 2 . . 9 A. M. General Assembly. (Speaker to be announced)
3 P. M., Matinee Tour.* Kalamazoo State Hospital. Final Tour for those students unable to be accommodated on earlier dates.

*Notes on Matinee Tours:
1. All tours will be “personally conducted.” The guide will explain the processes as they are being seen.
2. Each tour will be limited to those who hold a ticket for that tour. Tickets may be obtained at the Main Office.
3. Parties for all tours will assemble in the rotunda of the Training School.
4. Several of the trips will be made in busses at nominal cost.

**Notes on Week end Excursions:
1. Each week end excursion will be “personally conducted.” All points of interest will be explained by expert guides.
2. All trips will be made by bus transportation at cost.
3. Students wishing to make trips must obtain the proper tickets at the Main Office.
4. All excursions will begin and end at the Training School Building.
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THE FACULTY COUNCIL

1. Members elected
   Terms Expire May, 1934
   Sangren, Scott, Hilliard
   Terms Expire May, 1933
   Trumble, Everett, Master
   Terms Expire May, 1932
   S. Burnham, French, Steele

2. Members appointed
   Terms Expire May, 1932
   Fox, Worner, Zimmerman

3. Members Ex-Officio
   President D. B. Waldo
   Registrar John C. Hoekje
## COMMITTEES OF THE FACULTY

### 1932 Summer Session

<table>
<thead>
<tr>
<th>Committee</th>
<th>Personnel</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>1. Appointment</strong></td>
<td>Ellsworth</td>
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<td>Davis</td>
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<td>Mason</td>
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<td><strong>3. Curricula</strong></td>
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<td></td>
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<td><strong>4. Curricula Counsellors</strong></td>
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<tr>
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<td>Phillips</td>
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</tr>
<tr>
<td>Music</td>
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<td>One Year Curriculum</td>
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<td>7. Friendship</td>
<td>Cooper, Argabright</td>
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<td>8. General Advisory</td>
<td>Ellsworth, Cooper</td>
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<td>9. Health</td>
<td>E. Walker, Davis, Ellsworth, Alice Evans, Kenoyer, Pellett</td>
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<td>10. Social Life</td>
<td>Davis, Brown, Cook, M. Gary, Kercher, Mason, Master, M. Moore, Noble, Pellett, Sullivan</td>
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<td>11. Student Activities</td>
<td>Kercher, Davis, Hoekje, Hyames, Pellett</td>
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<tr>
<td>12. Student Organizations Y. M. C. A., Y. W. C. A.</td>
<td>Cooper, Barbour</td>
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N.B.—In each case the person whose name appears first is the Chairman of the Committee.
THE TWENTY-NINTH SUMMER SESSION
of
Western State Teachers College

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 1931, 1,988 students of collegiate rank were enrolled; 246 Life Certificates and 56 Limited Certificates were granted; and 93 degrees conferred. The steady growth in attendance indicates that these sessions have been found of distinct service to prospective and experienced teachers.

The twenty-ninth Summer Session will open June 27 and continue until August 5. Students will be enrolled and classified on Monday, June 27. Instruction will begin in all classes on Tuesday, June 28. 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 on the Detroit to Chicago Michigan Central Railway. The Pennsylvania; the Chicago, Kalamazoo, and Saginaw; and the South Haven Branch of the Michigan Central railway; 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, east 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. Though still inadequate to the growing needs of the college, 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 light-well, 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. Wash-rooms and shower-baths adjoin
BUILDINGS

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, and with its ample equipment, 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 intra-mural 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 intra-mural 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 all 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 department 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 farm is operated on a business basis with the principle of economic production directing rather than the principle of experimentation.

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, shower-baths, and a swimming pool.
ADMISSION

Students may enroll at the opening of any term.

Entrance With Advanced Credits

Advance 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.

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.

Entrance Tests

Standard intelligence and achievement tests are required of each student upon first entrance. The results of these tests are not used as a part of the entrance qualifications but are of service in advising students relative to their scholastic work.

Entrance Requirements

A. Admission on Certificate

(Effective September, 1928)

A graduate of a four-year high school, accredited by the University of Michigan, may be admitted to Western State Teachers College provided that he is recommended by the principal of the high school and that he submits credits as follows:

I. Prescribed Units.*

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<th>Subject</th>
<th>Units</th>
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<tbody>
<tr>
<td>English</td>
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<tr>
<td>Foreign Language**</td>
<td>2</td>
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<tr>
<td>History</td>
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<td>Algebra</td>
<td>1</td>
</tr>
<tr>
<td>Plane Geometry</td>
<td>1</td>
</tr>
<tr>
<td>Laboratory Science (Physics, Chemistry, Botany, or Zoology)</td>
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II. Additional Units from List A

III. Additional Units from List A or B

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<th>Subject</th>
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<tr>
<td>History, 1, 2, or 3 units</td>
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<tr>
<td>Latin, 2, 3, or 4 units</td>
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<tr>
<td>Physics, 1 unit</td>
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<td>Physiology, 1/2 unit</td>
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<tr>
<td>Spanish, 2, 3, or 4 units</td>
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<tr>
<td>Trigonometry, 1/2 unit</td>
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<td>Zoology, 1/2 or 1 unit</td>
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Total 15

List A

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<thead>
<tr>
<th>Subject</th>
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<td>Algebra, 1, 1 1/2 or 2 units</td>
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<tr>
<td>Botany, 1/2 or 1 unit</td>
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<tr>
<td>Chemistry, 1 unit</td>
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<td>Economics, 1/2 unit</td>
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<tr>
<td>English, 3 or 4 units</td>
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<tr>
<td>French, 2, 3, or 4 units</td>
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<tr>
<td>Geology, 1/2 unit</td>
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<tr>
<td>Geometry, 1 or 1 1/2 units</td>
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<tr>
<td>German, 2, 3, or 4 units</td>
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</table>
List B

List B comprises any secondary school subjects not included in List A, which are counted toward graduation by the accredited school.

Note:

1. It is expected that the principal will recommend not all graduates, but only those whose character, scholarship interests and attainments, seriousness of purpose, and intellectual promise are so clearly superior that the school is willing to stand sponsor for their success. The grade required for recommendation should be distinctly higher than that for graduation.

2. *A unit is defined as a course covering an academic year and including in the aggregate not less than the equivalent of one hundred twenty sixty-minute hours of classroom work. Two or three hours of laboratory, drawing, or shopwork are counted as equivalent to one of recitation.

3. **The units of foreign language must be presented by all candidates for a degree. If not pursued in the high school, this work may be made up in the Teachers College but without college credit. Students having had no foreign language in high school must present two other units selected from List A.

4. ***In order that a half unit of science may be accepted, it must be supplemented by a second half unit of science. For this purpose the only groupings permitted are the following:
   (a) Botany and Zoology.
   (b) Zoology (or Botany) and Physiology.
   (c) Physiography and Geology.
   (d) Physiography and Physiology.

B. Provisional Admission

An applicant for admission who presents fifteen acceptable entrance units from Lists A and B as specified above, and who, while presenting twelve units from List A, is deficient in not more than two of the prescribed units, may be admitted provisionally; but these deficiencies must be made up during the first year of residence, except that deficiencies in foreign language may be made up any time before receiving the bachelor's degree.

C. Admission by Examination

Students may also be admitted by examination in fifteen units of work, all of which must be chosen from List A. Arrangements for these examinations should be made with the Registrar at least one month in advance of the date on which the student desires to enter the College.
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-seven classes are now associated in the organization with a total membership of more than 14,000. 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 returned 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 APPOINTMENT BUREAU

The Appointment Bureau aids graduating students of the Teachers College in securing suitable positions. This committee seeks at the same time to serve the best interests of superintendents of the State who desire to secure teachers adapted to the needs of their schools. The committee consists of the Director of the Training School and members of the faculty who are in a position to know intimately the record of students in class work, practice teaching, and general school activities. Two Appointment Secretaries give full time to this work.

Each term all graduating students enroll with the Appointment Bureau, filling out appropriate blanks and receiving full information and instructions relative to securing positions. Full records are kept on file in the Appointment Office. These consist of (1) the student's academic record, (2) the recommendations of at least three faculty members who are familiar with the student's work, (3) the report from the supervisor of the student's practice teaching, (4) a record of his previous teaching experience, if any, and (5) the general rating of the Appointment Committee. The records also include ability and personality ratings, and photographs. Copies of these records are sent out upon application to the superintendents or can be consulted by them when they visit the Appointment Bureau.

Superintendents preferably select teachers as a result of personal interviews with candidates suggested by the committee, but vacancies may be filled satisfactorily through correspondence.

The Bureau likewise aims to afford equally satisfactory replacement service to former graduates qualified for better positions. For superintendents who desire to fill positions requiring a greater degree of maturity and experience,
a complete file is kept of Alumni, including records of their current teaching experience. Each year a number of former graduates are placed in more responsible positions, in county normal work, and in superintendencies of large school systems.

Appointment service is free to all graduates and alumni. An earnest effort is made to place each graduate in as good a position as his record in the institution justifies.

All students are advised to enroll with the Appointment Bureau before graduation, whether or not they desire help in securing teaching positions at that time.

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 twenty-four 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 and 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 the 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.

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.
   The Degree of Bachelor of Science.


3. The Five Year Certificate, valid for five years in the Public Schools of Michigan (See Note 1).

4. 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—
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.

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. IMPORTANT ADMINISTRATIVE REGULATIONS

1. A person who shall have entered Western State Teachers College at any time previous to June 20, 1928, may pursue to its completion any curriculum as offered for the school year 1927-28. Provided, however, that after September 1, 1931, no person shall be eligible for a life certificate on any curriculum requiring less than 144 term hours.

2. After June 20, 1928, no entrant to Western State Teachers College can earn credits to apply on any life certificate curriculum requiring less than 144 term hours. Provided, however, that students who enter this institution by transfer presenting at least 8 term hours of acceptable resident credit earned before June 20, 1928, will be allowed to complete a two year life certificate course, provided the work be accomplished before September 1, 1931.
EXPENSES

FEES

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 prorated 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 is collected for the support of student activities, health service, library purposes, and subscription to the Teachers College Herald, the official weekly student publication.

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

Graduation Fees

<table>
<thead>
<tr>
<th>Curriculum</th>
<th>Fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>Three Year and Five Year Certificate</td>
<td>$2.00</td>
</tr>
<tr>
<td>Life Certificate</td>
<td>3.00</td>
</tr>
<tr>
<td>Degree</td>
<td>3.00</td>
</tr>
<tr>
<td>Alumni Fee (Paid by all graduates)</td>
<td>1.00</td>
</tr>
</tbody>
</table>

Late Enrollment Fee

By action of the State Board of Education, all students who enroll after opening day, June 27, 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:

<table>
<thead>
<tr>
<th>Expense</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Room (one-half of a double room)</td>
<td>$15.00 to $21.00</td>
</tr>
<tr>
<td>Board</td>
<td>30.00 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>Incidentals</td>
<td>8.00 to 12.00</td>
</tr>
<tr>
<td>Tuition and fees</td>
<td>14.00</td>
</tr>
</tbody>
</table>

Total for 6 weeks $75.00 to $100.00

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 average cost of single rooms is from $3.00 to $4.00 per week. The average cost of double rooms is from $2.50 to $3.50 per week for each person. The average cost of board is from $5.50 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 curricula.

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 cannot be carried at the same time.

No person may 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.

FRESHMAN DAYS, 1932

(Monday, September 26 to Wednesday, September 28)

A few days in advance of registration day for the Fall Term, all entering freshmen assemble at Western State Teachers College in order that they may become familiar with their new environment as well as with their duties, responsibilities, and opportunities before the regular work of the college year begins. Entering upon a college course is an event of large significance in the life of an individual, and the success of the new venture may depend upon a right beginning.

During these Freshman Days, lectures are given on how to study, how to use the library, healthful living, college traditions, scholastic ideals, and regulations; the requirements of the several curricula offered are explained and provision is made for consultation with a member of the faculty relative to the one best adapted to the interest and ability of the individual student; the opportunities for participation in extra-curricular activities are announced; under the guidance of conductors, various buildings on the campus are visited; a general intelligence test is given; through a diversity of social functions, acquaintances are made, friendships begun, and a sense of class unity developed.

Because Freshman Days has proved to be of such large value to students beginning their collegiate work, every member of the incoming class is required to be present at all the scheduled exercises. The custom of making attendance compulsory is becoming general in standard colleges.

HEALTH SERVICE

Physical examinations are conducted at the beginning of each year for all new enrollees at the college. These examinations are conducted by the departments of physical education, a medical staff which consists of local physicians who are in attendance at the college at certain times, and nurses and
assistants from the Health Service. Where remedial measures are necessary, suggestions are made for improving the physical well-being of individual students.

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.

It is to the distinct advantage of every student that he enter college in as perfect physical condition as he can. This means that so far as possible defects should be corrected before the beginning of a college course. It is further to the advantage of the student, and to the advantage of his work, that the remedial measures suggested by the physicians and the Health Service be carried out as fully and as speedily as possible.

"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, throughout the year, special numbers are issued, 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.

Upon entrance a student should have available sufficient funds to finance himself at least for one term.

ROUTINE OF REGISTRATION, CREDITS, ETC.

GENERAL INSTRUCTIONS FOR ENROLLMENT

Registration for the Summer Session occurs on Monday, June 27. A circular giving detailed information relative to registration may be obtained at the Information Desk.
CLASSIFICATION OF STUDENTS
(Effective January 1, 1932)

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

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

Credits applying on the degree and certificate curricula may be earned in any of the subjects regularly required.

Courses which meet one hour a week for one regular term will be given 1 term hour of credit (one-fourth unit).
Courses which meet two hours a week for one regular term will be given 2 term hours of credit (one-half unit).
Courses which meet three hours a week for one regular term will be given 3 term hours of credit (three-fourths unit).
Courses which meet four hours a week for one regular term will be given 4 term hours of credit (one unit).

A minimum of 144 term hours of credit is required for a Life Certificate in a three-year curriculum, 56 term hours of credit for the Three-Year Certificate, and 192 term hours of credit for the A.B. or the B.S. degree.

Students who carry successfully four regular subjects which meet four times a week for a term will receive 16 term hours of credit (four units).

Eight term hours (one-half of a full term's credit) is usually the maximum credit for any student during the Summer Session. Classes reciting one hour daily during the Summer Session ordinarily earn 2 term hours while those reciting two hours each day earn 4 term hours.

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 Study Committee. Physical Education, Library Methods, and Penmanship are not counted in term hours.

Students may make application for an extra study by securing an applica-
tion blank from the Chairman of the Extra Study 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 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 F’s.

The mark of F means that the student has failed. F’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 F (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. (Normally 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

Public opinion is asking equal minimum standards of academic and professional preparation for all beginning public school teachers. This opinion is already a state law in Michigan to the extent of a requirement of one full year of professional training after the completion of a four-year high school. All beginning teachers in Michigan will do well to anticipate a state wide requirement of at least two years of preparation in addition to high school graduation.

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. (See pages 67, 83). Advanced courses are offered each term designed to be of special service to those preparing for positions as county normal or helping teachers.

A major is offered in rural education for degree students. Six typical one-teacher rural schools located in Kalamazoo and Van Buren Counties, through the courtesy of the respective school commissioners, school boards, and teachers, have been affiliated with the rural department in order to make more effective the advanced courses for degree students. They supplement the regular training schools maintained by the College and furnish excellent laboratory facilities for students interested in rural school administration and supervision. (For detailed description of courses see page 93; for kinds of certificates granted see pages 62-66).

Many village and county districts are now paying salaries which enable them to demand at least full life certificate preparation on the part of the teachers they employ. However, realizing that probably for several years there will be sufficient demand in rural elementary school positions for students completing two years of preparation, the two-year rural elementary school curriculum has been retained.

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.
A limited amount of field work depending upon the time available by the members of the rural department is done each year in rural schools in cooperation with county commissioners within the service area of the College.

* 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 and 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.

REQUIRED PROFESSIONAL TRAINING

The Western State Teachers College affords every convenience for beginning teachers and will cooperate 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.

Summary of the Teacher Training Law

The following statement by the Superintendent of Public Instruction, set forth in Bulletin No. 6 (Revised) of the Department of Public Instruction, is clear and specific about the certification of teachers by the Superintendent of Public Instruction after March 12, 1929.

a. Before any certificate shall be valid in any school district the holder shall record the same in the office of the county commissioner of schools of the county or in the office of the certificating officer of the city where the person expects to teach.

b. No certificate qualifying a person to teach in the public schools of this state shall be granted to any person who is not at least eighteen years of age and who is not a citizen of the United States or who has not declared his intention of becoming a citizen.

c. Any person who has completed a course of at least one year's work in professional training above an approved four year high school course, (see page 66) may be granted a teacher's certificate by the Superintendent of Public Instruction. The course of study for this professional training and the institution in which such professional training is taken shall have been approved by the Superintendent of Public Instruction.

Two grades of certificates may be issued, each of which qualifies the holder to teach for a period of three years in any public school of the state: Provided, All certificates granted under the provisions of this section shall expire on June thirtieth; those certificates granted between April first and June twenty-fifth shall expire three years from June thirtieth immediately following date of granting; those certificates granted between July first and March thirty-first shall expire three years from June thirtieth immediately preceding the date of granting. A second grade certificate may be granted upon the completion of a course of one year of professional training. Only one second grade certificate shall be issued to any person. A first grade certificate may be granted to any person who shall have taught at least seven months with ability and success upon the completion of a term or terms of twelve weeks of professional training since the date of issue of the last certificate, provided application for such certificate be made within one year of the date of expiration of the last certificate.
Any person who holds a second grade or first grade certificate granted under the provisions of act one hundred forty-seven of the public acts of eighteen hundred ninety-one as amended, or any person who holds a county normal training school certificate may upon the expiration of either of such certificates be granted a first grade certificate by the Superintendent of Public Instruction, provided the person shall have completed a term or terms of twelve weeks of professional training since the last certificate was issued, if application for such certificate be made within one year of the date of expiration of the last certificate: Provided, Any person who was exempt from the requirements for professional training under the provisions of act one hundred forty-seven of the public acts of eighteen hundred ninety-one, as amended, shall be eligible to receive a first grade certificate under the provisions of this act without complying with the requirements for professional training herein designated.

Certificates That May Be Issued

a. Second Grade. A person who completes the approved one year of professional training (see page 66) is granted a second grade certificate. This certificate qualifies the holder to teach in any public school of the state for a period of three years, provided the certificate is recorded in the office of the county commissioner of schools of the county or in the office of the certifying officer of the city. Only one second grade certificate will be granted to any person.

b. First Grade. A person who shall have taught seven months with ability and success may be granted a first grade certificate upon the completion of twelve weeks of professional training since the date of issue of last certificate, provided application for such certificate be made within one year of the date of expiration of the last certificate.

The first grade certificate qualifies the holder to teach in any public school of the state for a period of three years, provided the certificate is recorded in the office of the county commissioner of schools of the county or in the office of the certifying officer of the city. Additional first grade certificates may be granted upon the completion of twelve weeks of professional training since the date of issue of the last certificate.

Additional Information Concerning Certification

a. A person who has completed the work required for a year of professional training as outlined on page 66 and who desires a first grade certificate should select any subjects that will be credited toward a life certificate or toward a degree in an approved university, college, or normal school.

b. If a person has completed a year or more in an approved college or university above the completion of an approved twelve grade high school course, he will be given credit for any of the following subjects not exceeding six, provided he has college credit in the subjects: psychology, written English, hygiene, agriculture, art, music, rural sociology, or a second course in psychology.

c. Any person who now holds a second grade certificate granted under the provisions of Act No. 147 of the Public Acts of 1891 may upon the expiration of such certificate be granted a first grade certificate, provided the applicant has completed a term of twelve weeks of professional training since the last certificate was issued, provided application for such certificate be made within one year of the date of expiration of the last certificate.

d. Any person who was exempt from the requirements for professional training under the provisions of Act No. 147 of the Public Acts of 1891 may be granted a first grade certificate without additional professional training, provided, that the conditions for a renewal have been met.
SCHOLARSHIPS

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 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, 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 72, sq. 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 coordinate 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 want to begin testing work for the purpose of instructing teachers, demonstrating the methods of testing, and actually conducting mental-educational surveys; and holds, at least once a year, a conference on educational measurements.

CO-OPERATIVE STORE

The Co-operative Store, which was organized at the opening of the summer session of 1912, has had a most satisfactory and interesting development. It 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 the necessary supplies on hand for regular class work thereby saving students much time each day.

LECTURES, ENTERTAINMENTS, EXCURSIONS, CONFERENCES

Five 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 1932. 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 AND ATHLETICS

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.

A medical and physical examination is required of all incoming students. This automatically divides the students into two classes; the physically normal and the physically sub-normal. The physically normal will follow the regular physical education activity program, while the physically sub-normal will engage in a prescribed corrective and recreative program approved by the physician.

Intra-mural sports constitute a definite part of the physical education program. The following activities are included: for men, basketball, tennis, handball, horse-shoe pitching, archery, volley ball, indoor baseball, outdoor baseball, track, and cross country; for women, hockey, soccer, basketball, indoor baseball, archery, golf, tennis, track, swimming, skiing, and hiking.

Western has been unusually successful in all phases of inter-collegiate athletics. The following sports are recognized as belonging to this group: football, baseball, basketball, indoor and outdoor track, cross country, tennis, golf, wrestling, and boxing.

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.

The department offers three and four year specialized courses in physical education.

School for Athletic Coaches

The Department of Physical Education 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: picnicking on the wooded hillsides and the shores of the numerous accessible lakes, swimming, and boating being popular pastimes. Students are given free instruction in tennis on the nine 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.
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 building, which houses the pre-high school work, is a model building of its kind, with facilities for effective teaching. The kindergarten and grades one to eight inclusive will be in session from 8:30 to 11:00 under the supervision of regular grade and special supervisors. Three grades will be reserved for observation, one each in early and later elementary and junior high grades. Opportunity will also be given in the city summer school for a limited amount of practice teaching. Demonstration periods will be conducted in these rooms to exemplify progressive methods of education under modern conditions, and opportunity will be afforded for free discussion of the work observed and for the presentation of the underlying theory. The other three grades will be open for a limited amount of practice teaching by students not in residence on the campus during other terms. Application for enrollment for practice teaching should be made to the Director of the Training School well in advance of the opening of the Summer Session.

WILD LIFE PRESERVE

In 1922 Mrs. Caroline G. Kleinstuck deeded to the State Board of Education over fifty acres of woodland and grassland, about a mile from the campus, to be used as a wild life preserve. It is under the supervision of Western State Teachers College but may be used by any educational institution of this locality.
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 electric 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 this publication as follows:

1. Curricula four years in length:
   - Bachelor of Arts, 44, 46, 47, 48, 49.
   - Bachelor of Science, 45, 46, 47, 48, 49.

2. Special curricula four years in length leading to the bachelor's degree:
   - Business Administration, 46.
   - Manual Arts and Physical Education, 47.
   - Physical Education for Men, 48.
   - Special Education, 49.

3. Curricula three years in length leading to a Life Certificate in—
   Special notice concerning the life certificates, 50.
   - Art, 51.
   - Art and Music, 52.
   - Commerce, 53.
   - Early Elementary, 54.
   - Home Economics, 55.
   - Junior High School, 56.
   - Later Elementary, 57.
   - Manual Arts, 58.
   - Music, 59.
   - Physical Education for Men, 60.
   - Physical Education for Women, 61.
   - Rural Elementary, 62.
   - Rural High School, 63.
   - Senior High School, 67.

4. Curricula two years in length leading to the Five Year Certificate in—
   - Early Elementary, 54.
   - Junior High School, 56.
   - Later Elementary, 57.
   - Rural Elementary, 62.
   - Rural High School, 63.
   - Senior High School, 67.

5. Curriculum one year and one summer term in length leading to the Three Year Certificate—
   Three Year Certificate Curriculum, 65.

6. Curriculum one year in length meeting state professional requirements—
   One Year Professional Training Curriculum, 66.
BACHELOR OF ARTS

Four-Year Curriculum Leading to the Degree of Bachelor of Arts

At its regular meeting, March 29, 1918, the State Board of Education authorized the Teachers Colleges of the State to formulate a four-year curriculum leading to the Bachelor's degree. The curriculum leads to a Life Certificate and the degree of Bachelor of Arts.

The four-year curriculum will in no way interfere with the curricula already in force in the Western State Teachers College, and it is possible for students in many of these curricula to plan their work so that it will count as part credit toward the degree.

Students may enter the institution to begin or continue their work for the degree at the beginning of any regular term.

The degree of Bachelor of Arts and a Teachers' Life Certificate will be granted to students upon satisfactory completion of the curriculum outlined below. The work extends over a period of four years of thirty-six weeks each, and presupposes the completion of a four-year standard high school course as described under the Entrance Requirements. A term hour of work represents a course of instruction in a single subject continuing for twelve weeks and having one class-hour a week.

Two hours of laboratory work will count as one class-hour. The requirements for graduation with this degree are distributed as follows:

Group 1 English Composition and Rhetoric .................. 12 term hours
Group 2 History, Political Science, Economics, Sociology, Philosophy ........................................ 20 term hours
Group 3 Biology, Chemistry, Geography, Geology, Physics, Mathematics, Astronomy ............................ 24 term hours
Group 4 Ancient Languages, Modern Languages, English Language and Literature ............................ 24 term hours

The remaining units may be elected from the courses regularly offered by the various departments, subject to the following restrictions:

1. Courses must be elected so that the requirements in some one of the Life Certificate curricula are fully satisfied.
2. Not more than 64 term hours may be taken in any one department.
3. Courses counted in Group 1 cannot be counted in Group 4.
4. Not more than a total of 64 term hours may be counted from any or all of the following departments: Music, Art, Home Economics, Commerce, Industrial Arts, and Physical Education. Credits in these departments counted toward a degree must be earned in courses generally recognized as of college grade.
5. At least two-thirds of the work taken in residence beyond the second year must be in courses not open to first-year students. No candidate will be recommended for the A. B. degree who has spent less than one year at the Western State Teachers College and who has not been in residence during the term next preceding the time of his graduation.

Minimum term hours required—192.
BACHELOR OF SCIENCE

Four-Year Curriculum Leading to the Degree of Bachelor of Science

The degree of Bachelor of Science and a Teacher's Life Certificate will be granted upon satisfactory completion of the curriculum outlined below. The work extends over a period of twelve terms of twelve weeks each, and presupposes the completion of a four-year standard high school course as described under Entrance Requirements. A term hour of work represents a course of instruction in a single subject, continuing for twelve weeks and having one class-hour a week. Two hours of laboratory work ordinarily count as one class-hour. The requirements for graduation with this degree are distributed as follows:

Group 1: English Composition and Rhetoric
- 12 term hours

Group 2: History, Political Science, Economics, and Sociology
- 12 term hours

Group 3: Psychology and Education:
- Introductory Psychology 100
- Educational Psychology 200
- Principles of Teaching 230
- Teaching 201, 202
- 10 term hours

Group 4: Ancient Languages, Modern Languages, or English in addition to Group 1
- 12 term hours

Group 5: Biology, Chemistry, Geography and Geology, Mathematics, and Physics
- 12 term hours

Group 6: Art

Group 7: Commerce

Group 8: Home Economics

Group 9: Manual Arts

Group 10: Music

Group 11: Physical Education for Men

Group 12: Physical Education for Women

In addition to the minimum amount of work designated under groups 1 to 5 inclusive, the student must elect not more than sixty-four term hours from any of the departments of Group 5, or from any of the groups from six to twelve inclusive. The remaining credits to make up one hundred ninety-two term hours may be taken as free electives, subject to the approval of the chairman of the degree committee.

Courses must be elected so that the requirements in some one of the Life Certificate curricula are fully satisfied.

Credits counted toward a degree must be earned in the courses generally recognized as of college grade. Candidates for the degree of Bachelor of Science must present a major sequence of thirty-six term hours of consecutive, coherent courses elected from a department or from related departments, and a minor sequence of twenty-four term hours of consecutive, coherent courses.

Isolated courses will not be counted toward satisfying the minimum requirements of groups 1 to 5. At least one-half of the work beyond the first year must be in courses not open to first-year students. No candidate will be recommended for the Bachelor of Science degree who has spent less than thirty-six weeks at the Western State Teachers College and who has not been in residence during the term next preceding the time of his graduation.

Minimum term hours required—192.
## BUSINESS ADMINISTRATION CURRICULUM

(A.B. or B.S. Degree)

(Four years in Length)

For the Preparation of Teachers of Commerce and for General Business Education

<table>
<thead>
<tr>
<th>Course</th>
<th>Term Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Psychology and Education:</td>
<td></td>
</tr>
<tr>
<td>Introductory Psychology 100</td>
<td>5</td>
</tr>
<tr>
<td>Educational Psychology 200</td>
<td>4</td>
</tr>
<tr>
<td>Principles of Teaching 230</td>
<td>4</td>
</tr>
<tr>
<td>Teaching 201, 202</td>
<td>8</td>
</tr>
<tr>
<td>2. Rhetoric 104 A, B, C, 315 or 323</td>
<td>13</td>
</tr>
<tr>
<td>3. Foreign Languages or English in addition to Group 2</td>
<td>12</td>
</tr>
<tr>
<td>4. Mathematics:</td>
<td></td>
</tr>
<tr>
<td>Mathematics 100 A, B, C; or 103 A, B, C; or 104 A, B, C</td>
<td>12-15</td>
</tr>
<tr>
<td>Statistics 211</td>
<td>4</td>
</tr>
<tr>
<td>5. Laboratory Science:</td>
<td></td>
</tr>
<tr>
<td>Chemistry, Physics, Geology, Botany, Biology</td>
<td>12</td>
</tr>
<tr>
<td>6. History and Social Science other than Economics:</td>
<td></td>
</tr>
<tr>
<td>U. S. History 101C (101 A, B, elective)</td>
<td>4</td>
</tr>
<tr>
<td>Economic Development of United States 303</td>
<td>3</td>
</tr>
<tr>
<td>Political Science 201 A, B, C</td>
<td>12</td>
</tr>
<tr>
<td>7. Economics:</td>
<td></td>
</tr>
<tr>
<td>Principles of Economics 201 A, B</td>
<td>8</td>
</tr>
<tr>
<td>Financial Organization 202</td>
<td>4</td>
</tr>
<tr>
<td>General Business Administration 302 A, B</td>
<td>6</td>
</tr>
<tr>
<td>Corporations 303 A, B, C</td>
<td>6</td>
</tr>
<tr>
<td>Marketing 304 A, B</td>
<td>6</td>
</tr>
<tr>
<td>Transportation 305 A, B, C</td>
<td>6</td>
</tr>
<tr>
<td>Business and Government 306</td>
<td>4</td>
</tr>
<tr>
<td>8. Commerce:</td>
<td></td>
</tr>
<tr>
<td>Accounting 201 A, B, C</td>
<td>12</td>
</tr>
<tr>
<td>Business Law 304 A, B, C</td>
<td>9</td>
</tr>
<tr>
<td>9. At pleasure or to meet the requirement of A.B. or B.S. curricula</td>
<td>35 to 38</td>
</tr>
<tr>
<td>10. Required of all students in addition:</td>
<td></td>
</tr>
<tr>
<td>Library Methods.</td>
<td></td>
</tr>
<tr>
<td>Physical Education: 5 terms.</td>
<td></td>
</tr>
<tr>
<td>Women must include one individual sport and one team sport.</td>
<td></td>
</tr>
</tbody>
</table>

Minimum term hours required—192.
MANUAL ARTS AND PHYSICAL EDUCATION CURRICULUM
(B. S. Degree) (Four Years in Length)
For the Preparation of Teachers of Manual Arts and Physical Education

1. Psychology and Education:
   - Introductory Psychology 100 ........................................ 5 term hours
   - Educational Psychology 200 ........................................ 4 term hours
   - Principles of Teaching 230 .................................... 4 term hours
   - Teaching 201, 202 ........................................ 8 term hours

2. Rhetoric 104 A, B, C, 315 or 323 .................................. 13 term hours

3. Foreign Languages or English in addition to group 2 ........... 24 term hours
   - Speech .................................................. 4 term hours

4. Social Sciences .................................................. 20 term hours

5. Science and Mathematics:
   - Physics 160 .................................................. 4 term hours
   - Biology 101 A, B ........................................... 8 term hours
   - Applied Mathematics 112 .................................. 4 term hours
   - Anatomy 211 A, B ........................................ 8 term hours
   - Electives ................................................ 12 term hours

6. Manual Arts:
   - Mechanical Drawing 111A ....................................... 4 term hours
   - Household Mechanics 102A .................................. 4 term hours
   - Advanced Benchwork 103A ................................ 4 term hours
   - Wood Finishing 207 .......................................... 4 term hours
   - Shop Organization 301 .................................... 4 term hours
   - General Metal 108 .......................................... 4 term hours
   - 2 Electives .............................................. 8 term hours

7. Physical Education:
   - General Athletics 121A ....................................... 1 term hour
   - Elementary School Gymnastics 121B ......................... 1 term hour
   - Outdoor Games 121C ....................................... 1 term hour
   - Advanced Athletics 221A .................................. 1 term hour
   - Advanced Gymnastics 221B ................................ 1 term hour
   - Advanced Outdoor Games 221C ................................ 1 term hour
   - Football Technique 313 .................................. 3 term hours
   - Basketball Technique 315 .................................. 3 term hours
   - Baseball Technique 317 .................................. 3 term hours
   - Track and Field Technique 319 ................................ 3 term hours
   - Organization and Administration of Physical Education 404 .................................................. 4 term hours
   - Psychology of Coaching 210 .................................. 4 term hours
   - Electives ................................................. 6 term hours

8. At Pleasure (not in Manual Arts or Physical Education) ...... 10 term hours

9. Non-credit courses required of all students:
   - Library Methods.

Minimum term hours required—192

A minimum of one year squad participation in each major sport is required and no one should elect this course who is not qualified for this participation. Likewise, no one should elect this course who has shown no proficiency in Manual Arts.
PHYSICAL EDUCATION FOR MEN CURRICULUM

(A.B. or B.S. Degree)

(Four years in length)

For the Preparation of Teachers and Supervisors of Physical Education for Men and Boys

1. Psychology and Education:
   - Introductory Psychology 100 ........................................ 5 term hours
   - Educational Psychology 200 ......................................... 4 term hours
   - Principles of Teaching 230 ......................................... 4 term hours
   - Teaching 201, 202, 203 ............................................. 12 term hours
   - School Health Problems 390 ...................................... 4 term hours

2. Rhetoric 104 A, B, C, 323 ........................................... 13 term hours

3. English in addition to Group 2 ..................................... 12 term hours
   - Speech ........................................................................ 4 term hours

4. History ........................................................................ 12 term hours
   - Sociology ................................................................. 12 term hours

5. Science:
   - General Biology 103 A, B ............................................ 8 term hours
   - Physiology 211C ......................................................... 4 term hours
   - Anatomy 211 A, B ....................................................... 8 term hours
   - Hygiene 112, 312 ....................................................... 8 term hours

6. Physical Education:
   - History of Physical Education 202 ................................. 3 term hours
   - First Aid and Athletic Training 205 .............................. 4 term hours
   - Psychology of Coaching 210 ........................................ 3 term hours
   - Principles and Technique of Gymnastic Teaching 301 ...... 2 term hours
   - Theory and Practice of Individual Gymnastics 302 ....... 2 term hours
   - Kinesiology 312 ......................................................... 4 term hours
   - Football Technique 313 .............................................. 3 term hours
   - Basketball Technique 315 ............................................ 3 term hours
   - Physiology of Exercise 304 ......................................... 3 term hours
   - Baseball technique 317 .............................................. 3 term hours
   - Track and Field Technique 319 .................................... 3 term hours
   - Swimming 327 ........................................................... 1 term hour
   - Camping and Scouting 332 .......................................... 4 term hours
   - Thesis and Seminar 401 A, B, C .................................. 6 term hours
   - Principles of Physical Education 403 ............................ 3 term hours
   - Organization and Administration of Physical Education 404 4 term hours
   - Playground and Community Recreation 405 ............... 4 term hours
   - Program Problems in Physical Education 406 .......... 2 term hours

7. At pleasure (not in Physical Education) ......................... 19 term hours

8. Required of all students in addition:
   - Library Methods.
   - Practice courses in Physical Education 121 A, B, C, and 221 A, B, C.

Minimum term hours required—192.
SPECIAL EDUCATION CURRICULUM
(A.B. or B.S. Degree)
(Four Years in Length)

For the Preparation of Teachers of Mentally Retarded and Backward Children

1. Psychology and Education:
   - Introductory Psychology 100 .................................. 5 term hours
   - Educational Psychology 200 .................................. 4 term hours
   - Principles of Teaching 230 .................................. 4 term hours
   - Teaching 201, 202, 203 ........................................ 12 term hours
   - Educational Measurements 250 ................................. 4 term hours
   - Education of Exceptional Children 361 ....................... 4 term hours
   - Mental Tests 350 ................................................. 4 term hours
   - The Subnormal Child 362 ....................................... 4 term hours
   - Methods of Teaching Subnormal Children 304 ............... 2 term hours
   - Abnormal Psychology 300 ....................................... 4 term hours

2. Rhetoric 104 A, B, C ............................................. 9 term hours
   - Advanced Rhetoric 323 ......................................... 4 term hours

3. Foreign Languages or English in addition to group 2 .... 24 term hours

4. Science and Mathematics:
   - Fundamentals of Biology 201 A, B, C ......................... 12 term hours
   - Genetics 302 ................................................... 4 term hours
   - Eugenics 303 .................................................. 4 term hours
   - Organic Evolution 301 ......................................... 4 term hours
   - Hygiene 112 or Health Education 190 A, B .................. 4 term hours
   - Mathematics or Laboratory Science other than Biology ... 12 term hours

5. Social Sciences including Sociology 201 A, B, 301 B .... 24 term hours

6. Art: Illustrative Handwork 107 ................................. 4 term hours

7. Home Economics 115 ............................................. 4 term hours

8. Manual Arts: Bench Work 208 ................................... 2 term hours

9. Speech ................................................................. 4 term hours

10. At pleasure ......................................................... 30 term hours

11. Required of all students in addition:
    - Library Methods
    - Penmanship
    - Physical Education: 5 terms
    - Women must include one team sport and one individual sport.

Minimum term hours required—192.

Note.—1. One of the courses in practice teaching must be with normal children, and the other two with subnormal children.

2. Students completing three years of work (144 term hours) of this curriculum under the guidance of the advisor, and complying with requirements of Note 3 may receive a Life Certificate in Special Education.

3. To receive a Degree or Life Certificate in Special Education, the student must have had 1 year of successful teaching experience.
SPECIAL NOTICE CONCERNING THE LIFE CERTIFICATE

By the State Board of Education, November, 1931

1. 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 hours, provided, however, that students who enter by transfer, presenting at least 8 term hours of acceptable residence 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).

2. Full details concerning the new curricular requirements for the life certificate on the four-year basis will be printed in the 1931-32 catalog.
ART CURRICULUM
(Three years in length)

For the Preparation of Teachers and Supervisors of Art

1. Psychology and Education:
   - Introductory Psychology 100 ..................................... 5 term hours
   - Educational Psychology 200 ........................................ 4 term hours
   - Principles of Teaching 230 ........................................ 4 term hours
   - Teaching 201, 202, 203 ............................................ 12 term hours

2. Rhetoric 104 A, B, C ................................................ 9 term hours

3. Foreign Languages, Speech, and English in addition to
   Group 2 ........................................................................ 12 term hours

4. History, Economics, Political Science, and Sociology .......... 12 term hours

5. Science and Mathematics ............................................... 12 term hours

6. Art:
   - Art for Teachers 102 .................................................. 4 term hours
   - Industrial Art 103 ...................................................... 4 term hours
   - Elementary Design 109 ............................................... 4 term hours
   - Mechanical Drawing 112 ............................................. 4 term hours
   - Figure Drawing 205 .................................................... 4 term hours
   - Art Observation 206 ................................................... 4 term hours
   - Demonstration Drawing 207 ......................................... 4 term hours
   - Art Composition 208 ................................................... 4 term hours
   - History of Art 211 A, B ............................................... 8 term hours
   - Commercial Art 214 .................................................... 4 term hours
   - Art Supervision 313 .................................................... 4 term hours

7. At pleasure .................................................................... 26 term hours
   (Not more than 8 term hours may be elected in Art.)

8. Required of all students in addition:
   - Library Methods.
   - Physical Education: 5 terms.
     Women must include one individual sport and one team sport.

Minimum term hours required—144.

Note.—1. The department reserves the right to take creditable work from
   the students for purposes of exhibition.
2. One unit of teaching should be deferred until the third year.
3. In as far as possible, executive courses should be elected in full-
  fillment of the requirements of Groups 3, 4, 5, and 7.
4. If it is desired that the work of this curriculum count as three
   years toward a degree, elections must be made in conformity
   with the requirements of a degree curriculum.
ART AND MUSIC CURRICULUM
(Three years in length)

For the Preparation of Teachers of Art and Music

1. Psychology and Education:
   - Introductory Psychology 100 ........................................ 5 term hours
   - Educational Psychology 200 ........................................ 4 term hours
   - Principles of Teaching 230 ........................................ 4 term hours
   - Teaching 201, 202 ................................................ 8 term hours

2. Rhetoric 104 A, B, C ............................................. 9 term hours

3. Foreign Languages, Speech, and English in addition to
   Group 2 ............................................................... 12 term hours

4. History, Economics, Political Science, and Sociology .......... 12 term hours

5. Science and Mathematics ........................................... 12 term hours

6. Art:
   - Art for Teachers 102 .............................................. 4 term hours
   - Industrial Art 103 ................................................ 4 term hours
   - Elementary Design 109 ........................................... 4 term hours
   - Mechanical Drawing 112 ........................................ 4 term hours
   - Figure Drawing 205 ............................................... 4 term hours
   - Art Observation 206 ............................................. 4 term hours
   - Demonstration Drawing 207 ................................... 4 term hours
   - Art Composition 208 ............................................ 4 term hours
   - History of Art 211B ................................................ 4 term hours
   - Art Supervision 313 ............................................. 4 term hours

7. Music:
   - Fundamentals of Music 101 A, B, C ............................ 12 term hours
   - Voice Culture 116 A, B ........................................... 4 term hours
   - Music Education 206 A, B, C ................................ 12 term hours
   - Harmony 209 A, B ............................................... 8 term hours
   - Modern Composers 212B ........................................ 4 term hours
   - or
   - Music Appreciation 212C ....................................... 4 term hours

8. Required of all students in addition:
   - Library Methods.
   - Physical Education: 5 terms.
     Women must include one individual sport and one team sport.

Minimum term hours required—145.

Note.—1. The department reserves the right to take creditable work from
   the students for the purpose of exhibition.
2. Two years of vocal or instrumental ensemble are required.
3. In as far as possible, consecutive courses should be elected in ful-
   fillment of the requirements of Groups 3, 4, and 5.
4. If it is desired that the work of this curriculum count as three
   years toward a degree, elections must be made in conformity
   with the requirements of a degree curriculum.
5. One unit of teaching should be deferred until the third year.
COMMERCCE CURRICULUM

(Three years in length)

For the Preparation of Teachers of Commerce

1. Education and Psychology:
   - Introductory Psychology 100 ........................................... 5 term hours
   - Educational Psychology 200 ........................................... 4 term hours
   - Principles of Teaching 230 ........................................... 4 term hours
   - Teaching 201, 202 ..................................................... 8 term hours

2. Rhetoric 104 A, B, C .......................................................... 9 term hours

3. Economics:
   - Principles of Economics 201 A, B ..................................... 8 term hours
   - Financial Organization 202 ........................................... 4 term hours
   - Elective from third-year courses .................................. 12 term hours

4. Science and Mathematics:
   - Year sequence in Mathematics, Biology, Chemistry, or Physics .................................................... 12 or 15 term hours
   - Elective ........................................................................... 8 term hours

5. Commerce:
   - Shorthand and Typewriting 102 A, B, C, 202, 203 ................ 16 term hours
   - Commerce 204 or 205 .................................................... 2 term hours
   - Accounting 201 A, B, C ................................................... 12 term hours
   - Accounting 301, 302, or 303 .......................................... 4 term hours
   - Business Law 304 A, B, C ............................................... 9 term hours
   - Problems of Secondary Commercial Education 305 ............. 3 term hours

6. At pleasure:
   - From any department except Commerce or Economics. 21 or 24 term hours

7. Required of all students in addition.
   - Library Methods.
   - Penmanship.
   - Physical Education: 5 terms.
   - Women must include one individual sport and one team sport.

Minimum term hours required—144.

Note.—1. In as far as possible, consecutive courses should be elected in fulfillment of the requirements of Group 6.

2. If it is desired that the work of this curriculum count as three years toward a degree, elections must be made in conformity with the requirements of a degree curriculum.

3. One unit of teaching should be deferred until the third year.
EARLY ELEMENTARY CURRICULUM
(Three years in length)

For the Preparation of Teachers of the Kindergarten and of Grades 1 and 2

1. Psychology and Education:
   - Introductory Psychology 100 ........................................ 5 term hours
   - Educational Psychology 200 ........................................ 4 term hours
   - Principles of Teaching 230 ........................................ 4 term hours
   - Teaching 201, 202 .................................................. 8 term hours
   - Psychology of Reading 212 ........................................ 4 term hours
   - Early Elementary Education ....................................... 24 term hours

2. Rhetoric 104 A, B, C .................................................. 9 term hours

3. Literature ............................................................... 12 term hours

4. History ........................................................................ 12 term hours

5. Science and Mathematics:
   - Nature Study 131 ...................................................... 4 term hours
   - Elective ....................................................................... 8 term hours

6. Music 104 ...................................................................... 4 term hours

7. Art for Teachers 102 ..................................................... 4 term hours

8. Industrial Handwork 107 ............................................... 4 term hours

9. At pleasure .................................................................... 38 term hours

10. Required of all students in addition:
    - Library Methods.
    - Penmanship.
    - Physical Education: 5 terms, including one individual sport, one team sport, and course 230.

Minimum term hours required—144.

Note.—1. In as far as possible, consecutive courses should be elected in fulfillment of the requirements of Groups 3, 4, 5 and 8.

For the Five Year Certificate Students must complete the requirements outlined above excepting Group 9, Educational Psychology 200, Teaching 202 and 8 term hours of Early Elementary Education; and elect sufficient to total 96 term hours.
HOME ECONOMICS CURRICULUM

(Three years in length)

For the Preparation of Teachers and Supervisors of Home Economics

1. Psychology and Education:
   - Introductory Psychology 100 .................................. 5 term hours
   - Educational Psychology 200 .................................. 4 term hours
   - Principles of Teaching 230 .................................. 4 term hours
   - Teaching 201, 202 ........................................ 8 term hours

2. Rhetoric 104 A, B, C ........................................ 9 term hours

3. Foreign Languages, Speech, and English in addition to Group 2 ........................................ 12 term hours

4. History of Social Science .................................... 12 term hours

5. Science:
   - Chemistry 103 A, B, C and 203A .......................... 16 term hours
   - Biology 201 ................................................ 4 term hours
   - Physiology 211C ........................................... 4 term hours

6. Household Arts Design 106 and 210 .......................... 8 term hours

7. Home Economics:
   - Introductory Home Economics 101, 102 .................... 4 term hours
   - Clothing 103 ............................................... 4 term hours
   - Foods 104 .................................................. 4 term hours
   - Clothing 205 ................................................ 4 term hours
   - Nutrition 206 .............................................. 4 term hours
   - Home Economics Education 209 ............................ 4 term hours
   - Millinery 305 .............................................. 4 term hours
   - Home Management 306 ..................................... 4 term hours
   - Advanced Foods 312 ...................................... 4 term hours
   - Home Nursing 315 ......................................... 3 term hours
   - Child Care 415 ............................................. 2 term hours

8. At pleasure ................................................... 17 term hours

9. Required of all students in addition:
   - Library Methods.
   - Physical Education: 5 terms, including one individual sport and one team sport.

Minimum term hours required—144.

Note.—1. If it is desired that the work of this curriculum count as three years toward a degree electives must be in conformity with the requirements of a degree curriculum.
JUNIOR HIGH SCHOOL CURRICULUM

(Three years in length)

For the Preparation of Teachers of Grades 7, 8 and 9

1. Psychology and Education:
   - Introductory Psychology 100 ............... 5 term hours
   - Educational Psychology 200 .................. 4 term hours
   - Principles of Teaching 230 .................. 4 term hours
   - Teaching 201, 202 .......................... 8 term hours
   - Junior High School Education 320 ...... 4 term hours

2. Rhetoric 104 A, B, C .................................. 9 term hours

3. One major sequence, consisting of 27 to 36 term hours including 4 term hours of teaching in that subject.

4. One minor sequence, consisting of 18 to 24 term hours, in another subject, including 4 term hours of teaching.

5. Two sequences, other than the major and minor, consisting of 12 term hours each.

6. The remaining units are to be taken in groups of three or miscellaneous with the consent of the advisor.

7. Required of all students in addition:
   - Library Methods.
   - Penmanship.
   - Physical Education: 5 terms.
     Women must include one individual sport, one team sport, and course 232.

Minimum term hours required—144.

Note.—1. A sequence consists of two or more consecutive, coherent courses in a given subject.

2. All elections for major and minor sequences must be made with the approval of a member of the department in which the work is to be taken.

3. Majors and minors may be counted only in Literature, Mathematics, History, Geography, and General Science.

4. In determining the courses to be taken, in fulfillment of the requirements of Groups 3, 4, 5, 6, the student should hold in mind that there is a demand for teachers qualified to teach the following groups of subjects:
   - Science (geography, general science, nature study, physiology and hygiene, elementary botany, elementary biology, agriculture), history.
   - English, geography, history.
   - Mathematics, geography, other sciences (enumerated above).
   - English, geography, science (enumerated above).
   - Geography, history, other sciences (enumerated above).
   - Music and any two of the subjects.

Students completing two years of work (96 term hours) of this curriculum, under the guidance of their advisers, may qualify for the Five Year Certificate. These students omit Educational Psychology 200 and Teaching 202.
# LATER ELEMENTARY CURRICULUM

(Three years in length)

For the Preparation of Teachers in Grades 3, 4, 5, and 6

1. **Psychology and Education:**
   - Introductory Psychology 100 .................................................. 5 term hours
   - Educational Psychology 200 .................................................... 4 term hours
   - Principles of Teaching 230 ..................................................... 4 term hours
   - Psychology of Reading 212 ..................................................... 4 term hours
   - Teaching 201, 202 .................................................................. 8 term hours
   - Later Elementary Education 211 .............................................. 4 term hours

2. **Rhetoric 104 A, B, C ......................................................... 9 term hours

3. **Literature ................................................................. 12 term hours

4. **History ................................................................. 12 term hours

5. **Science and Mathematics:**
   - Arithmetic 101 ................................................................ 4 term hours
   - Geography 101 A, B, and an elective .................................. 12 term hours
   - Nature Study 131, or 132 ................................................... 4 term hours

6. **Music 105 ................................................................. 4 term hours

7. **Art for Teachers 102 ...................................................... 4 term hours

8. **At pleasure ................................................................ 58 term hours
   (At least 12 term hours must be elected in work directly related to subjects taught in the later elementary grades. These courses will be in addition to any courses in that subject elected in fulfillment of the other requirements.)

9. **Required of all students in addition:**
   - Library Methods.
   - Penmanship.
   - Five terms of Physical Education which must include one individual sport, one team sport, and course 231.

**Minimum term hours required—144.**

**Note.—1.** In as far as possible, consecutive courses should be elected in fulfillment of the requirements of Groups 3, 4, and 8.

For the Five Year Certificate students must complete the requirements outlined above excepting Group 8, Educational Psychology 200, and Teaching 202; and elect sufficient to total 96 term hours.
MANUAL ARTS CURRICULUM
(Three years in length)

For the Preparation of Teachers and Supervisors of Manual Arts

1. Psychology and Education:
   - Introductory Psychology 100 ....................................... 5 term hours
   - Educational Psychology 200 ......................................... 4 term hours
   - Principles of Teaching 230 ......................................... 4 term hours
   - Teaching 201, 202 ..................................................... 8 term hours

2. Rhetoric 104 A, B, C ..................................................... 9 term hours

3. Foreign Languages, Speech, and English in addition to
   Group 2 ........................................................................ 12 term hours

4. History, Economics, Political Science, and Sociology ......... 12 term hours

5. Science and Mathematics:
   - Applied Mathematics 112 .............................................. 4 term hours
   - Physics 160 .................................................................... 4 term hours
   - Electives .......................................................................... 12 term hours

6. Manual Arts:
   - Printing 116A .............................................................. 4 term hours
   - Mechanical Drawing 111 A, B ......................................... 8 term hours
   - Advanced Benchwork 103A ............................................ 4 term hours
   - Wood Finishing 207, A, B .............................................. 4 term hours
   - General Shop 212 .......................................................... 4 term hours
   - Sheet Metal 222 ............................................................. 4 term hours
   - Shop Organization 301 .................................................. 4 term hours
   - Electives .......................................................................... 20 term hours

7. At pleasure (Not in Manual Arts) ...................................... 18 term hours

8. Required of all students in addition:
   - Library Methods.
   - Five terms of Physical Education.

Minimum term hours required—144.

Note.—1. In as far as possible, consecutive courses should be elected in fulfillment of the requirements of Groups 3, 4, 5, 7.
2. If it is desired that the work of this curriculum count as three years toward a degree, elections must be made in conformity with the requirements of a degree curriculum.
3. Students who enter without high school physics must elect Physics 100 A, B, C.
4. Those who elect a year of either college physics or mathematics may substitute another subject for Applied Mathematics 112.
5. Woodshop 99 and Mechanical Drawing 99 are required of all students who have not had similar work in high schools.
6. One unit of teaching should be deferred until the third year.
7. Those who elect a year of College Physics should not take Physics 160 or Applied Mathematics 112.
MUSIC CURRICULUM
(Three years in length)

For the Preparation of Teachers and Supervisors of Music

1. Psychology and Education:
   - Introductory Psychology 100 .................................. 5 term hours
   - Educational Psychology 200 ................................ 4 term hours
   - Principles of Teaching 230 .................................. 4 term hours
   - Teaching 201, 202, 203 ................................. 12 term hours

2. Rhetoric 104 A, B, C .................................. 9 term hours

3. Foreign Languages, Speech, and English in addition to
   Group 2 ......................................................... 8 term hours

4. History, Economics, Political Science and Sociology .... 8 term hours

5. Science and Mathematics .................................. 8 term hours

6. Music:
   - Fundamentals of Music 101 A, B, C ......................... 12 term hours
   - Voice Culture 116 A, B, C, 216 A, B, C ............. 12 term hours
   - Music Education 206 A, B, C ........................ 12 term hours
   - Harmony 209 A, B, C ................................ 12 term hours
   - Ancient and Medieval Music 212A ...................... 4 term hours
   - Modern Composers 212B ................................ 4 term hours
   - Musical Appreciation 212C .............................. 4 term hours
   - Musical Composition and Analysis 320 A, B, C ...... 12 term hours
     (An elective in music may be substituted.)
   - Orchestration 331A .................................. 4 term hours

7. At pleasure (Not in Music) ................................ 10 term hours

8. Required of all students in addition:
   - Library Methods.
   - Physical Education: 5 terms.
     Women must include one individual sport and one team sport.

Minimum term hours required—144.

Note.—1. Vocal or instrumental ensemble is required throughout the course.
2. In as far as possible, consecutive courses should be elected in fulfillment of the requirements of Groups 3, 4, 5, and 7.
3. If it is desired that the work of this curriculum counts as three years toward a degree, elections must be made in conformity with the requirements of a degree curriculum.
4. One unit of teaching should be deferred until the third year.
5. Only 64 term hours in Music may be applied toward fulfillment of the requirements of a degree.
PHYSICAL EDUCATION FOR MEN CURRICULUM
(Three years in length)

For the Preparation of Teachers and Supervisors of Physical Education for Men and Boys

1. Psychology and Education:
   - Introductory Psychology 100 .................................. 5 term hours
   - Educational Psychology 200 .................................. 4 term hours
   - Principles of Teaching 230 .................................. 4 term hours
   - Teaching 201, 202, 203 ........................................ 12 term hours
   - School Health Problems 390 .................................. 4 term hours

2. Rhetoric 104 A, B, C ........................................... 9 term hours

3. Foreign Languages, Speech, and English in addition to Group 2 ........................................ 12 term hours

4. History or Sociology ............................................. 12 term hours

5. Science:
   - General Biology 103 A, B ...................................... 8 term hours
   - Hygiene 112, 312 ................................................. 8 term hours
   - Anatomy 211 A, B ............................................... 8 term hours
   - Physiology 211C .................................................. 4 term hours

6. Physical Education:
   - History of Physical Education 202 ............................. 3 term hours
   - First Aid and Athletic Training 205 ........................... 4 term hours
   - Psychology of Coaching 210 .................................... 3 term hours
   - Principles and Technique of Gymnastic Teaching 301 ........ 2 term hours
   - Theory and Practice of Individual Gymnastics 302 .......... 2 term hours
   - Kinesiology 312 .................................................. 4 term hours
   - Football Technique 313 ........................................ 3 term hours
   - Basketball Technique 315 ...................................... 3 term hours
   - Baseball Technique 317 ........................................ 3 term hours
   - Track and Field Technique 319 ................................ 3 term hours
   - Swimming 327 .................................................... 1 term hour
   - Camping and Scouting 332 ...................................... 4 term hours
   - Organization and Administration of Physical Education 404 4 term hours
   - Playground and Community Education 405 .................... 4 term hours

7. At pleasure (Not in Physical Education) ........................................ 12 term hours

8. Required of all students in addition:
   - Library Methods.
   - Practice courses in Physical Education 121 A, B, C, and 221 A, B, C.

Minimum term hours required—144.
PHYSICAL EDUCATION FOR WOMEN CURRICULUM
(Three years in length)

For the Preparation of Teachers and Supervisors of Physical Education for Women and Girls

1. Psychology and Education:
   - Introductory Psychology 100 ............................................ 4 term hours
   - Educational Psychology 200 ............................................. 4 term hours
   - Principles of Teaching 230 ............................................. 4 term hours
   - Teaching 201, 202 ....................................................... 8 term hours
   - School Health Problems ................................................. 4 term hours

2. Rhetoric 104 A, B, C ..................................................... 9 term hours

3. Foreign Languages, Speech, and English in addition to Group 2:
   - Fundamentals of Speech 101A ......................................... 4 term hours
   - Elective ........................................................................... 12 term hours

4. History, Economics, Political Science, and Sociology ............. 12 term hours

5. Science:
   - Biology 103 A, B ............................................................. 8 term hours
   - Hygiene 112 ..................................................................... 4 term hours
   - Anatomy 211 A, B ............................................................ 8 term hours
   - Physiology 211C ............................................................... 4 term hours

6. Physical Education:
   - Methods 217 ..................................................................... 4 term hours
   - Playground Organization 219 ............................................. 4 term hours
   - Applied Anatomy 220 ....................................................... 4 term hours
   - Theory of Athletics 222 .................................................... 3 term hours
   - Theory of Games 223 ......................................................... 2 term hours
   - Theory of Swimming 224 .................................................. 2 term hours
   - Rhythmic Plays and Singing Games 318 ............................. 2 term hours
   - History and Administration of Physical Education 321 ....... 4 term hours
   - Community Recreation, Scouting, Campfire 322 ............... 4 term hours
   - Individual Gymnastics 323 .............................................. 4 term hours
   - Advanced Coaching Technique 324 .................................. 3 term hours

7. Musical Construction 129 .................................................... 4 term hours

8. At pleasure with consent of adviser (Not in Physical Education) .... 18 term hours

9. Required of all students in addition:
   - Library Methods.
   - Physical Education 110 A, B, C; 111; 113; 125 A, B, C; 126 A, B, C;
     210 A, B, C; 213 A, B, C; 225 A, B, C; 226 A, B, C; 310 A, B; 311;
     313 A, B, C; 325 A, B, C; 326 A, B, C.

Minimum term hours required—144.

Note—1. In as far as possible, consecutive courses should be elected in fulfillment of the requirements of Groups 3, 4, and 7.
2. If it is desired that the work of this curriculum count as three years toward a degree, elections must be made in conformity with the requirements of a degree curriculum.
3. One unit of teaching should be deferred until the third year.
4. Candidates for a degree are required to take five hours a week of practice work each term of their senior year. These courses must be selected with the approval of the adviser.
RURAL ELEMENTARY CURRICULUM
(Three years in length)
For the Preparation of Teachers of One-teacher, Consolidated and Village Schools
(This Curriculum Leads to a Life Certificate)

1. Psychology and Education:
   - Introductory Psychology 100 ........................................ 5 term hours
   - Educational Psychology 200 ......................................... 4 term hours
   - Principles of Teaching 101R ......................................... 4 term hours
   - Teaching 201, 202 ..................................................... 8 term hours
   - Curriculum 101 ......................................................... 4 term hours
   - Rural Education 201 A, B, C ........................................ 12 term hours
   - Psychology of Reading 212 .......................................... 4 term hours

2. Rhetoric 104 A, B, C .................................................. 9 term hours

3. Foreign Languages, Speech, and English in addition to Group 2 ................................. 12 term hours

4. History, Economics, Political Science, and Sociology ........................................... 12 term hours

5. Science and Mathematics:
   - Arithmetic 101 ......................................................... 4 term hours
   - Nature Study 131, 132, or Agriculture 141 ...................... 4 term hours
   - Geography 101 A, B ................................................... 8 term hours

6. Music 106 ................................................................. 4 term hours

7. Art for Teachers 102 .................................................... 4 term hours

8. At pleasure ............................................................... 46 term hours

9. Required of all students in addition:
   - Library Methods.
   - Penmanship.
   - Physical Education: 5 terms.
   - Women must include one individual sport, one team sport, and course 233.

Minimum term hours required—144.

Note.—1. In as far as possible, consecutive courses should be elected in fulfillment of the requirements of Groups 3, 4.
RURAL HIGH SCHOOL CURRICULUM

(Three years in length)

For the Preparation of Teachers of Rural Consolidated and Village High Schools

(This Curriculum Leads to a Life Certificate)

1. Psychology and Education:
   - Introductory Psychology 100 ........................................ 5 term hours
   - Educational Psychology 200 ........................................ 4 term hours
   - Principles of Teaching 101R ........................................ 4 term hours
   - Teaching 201, 202 .................................................... 8 term hours
   - Rural Education 201 A, B, C ...................................... 12 term hours

2. Rhetoric 104 A, B, C .................................................. 9 term hours

3. A sequence of 28 term hours including 4 term hours of teaching.

4. A sequence of 16 term hours including 4 term hours of teaching.

5. Two sequences in addition to the requirements in Groups 3 and 4 consisting of 12 term hours each.

6. At pleasure ................................................................. 42 term hours

7. The remaining units to be taken in groups of 12 term hours each ormiscellaneously with the consent of the adviser.

8. Required of all students in addition:
   - Library Methods.
   - Penmanship.
   - Physical Education: 5 terms.
   Women must include one individual sport, one team sport, and course 232.

Minimum term hours required—144.

Note.—1. All elections for sequences must be made with the approval of a member of the department in which the work is to be taken.
2. Sequences are available in science, mathematics, literature, history and social science, agriculture, home economics, and manual arts.
3. Mature second year students who have had sufficient teaching experience and who are able to do independent study, may elect work in rural education in the seminar courses for third and fourth year students with the consent of the instructors. These courses each meet two hours per week.

Rural Agricultural High School Curriculum: Students desiring to complete their degrees and receive Smith-Hughes vocational agricultural teaching certificates from Michigan State College may meet the requirements by completing the first two years of this curriculum. As sequences they should elect agricultural courses Animal Husbandry 142 A, B, C; Soils 143; Farm Crops 144; Horticulture 145; also, if desired, Manual Arts courses Farm Mechanics 203 A, B, C. The remaining sequences should be chosen with the consent of the adviser.

Students completing two years of work (96 term hours) of this curriculum, under the guidance of their advisers, may qualify for the Five Year Certificate. Such students omit Educational Psychology 202, Teaching 202, and Group 4.
RURAL ELEMENTARY CURRICULUM
(Two years in length)

Leading to a Five Year Certificate for Teachers of One-teacher, Consolidated, and Village Schools

1. Psychology and Education:
   - Introductory Psychology 100 ........................................ 5 term hours
   - Principles of Teaching 101 ........................................ 4 term hours
   - Teaching 201 .................................................................. 4 term hours
   - Curriculum 101 ................................................................ 4 term hours
   - Rural Education 201 A, B, C ........................................ 12 term hours

2. Rhetoric 104 A, B, C ...................................................... 9 term hours

3. Foreign Languages, Speech, and English in addition to Group 2 ................................... 12 term hours

4. History, Economics, Political Science, and Sociology ................................................... 12 term hours

5. Science and Mathematics:
   - Arithmetic 101 ............................................................. 4 term hours
   - Nature Study 131, 132, or Agriculture 141 .................... 4 term hours
   - Geography 101 A, B ..................................................... 8 term hours

6. Music 106 ........................................................................ 4 term hours

7. Art for Teachers 102 ....................................................... 4 term hours

8. At pleasure ...................................................................... 10 term hours

9. Required of all students in addition:
   - Library Methods.
   - Penmanship.
   - Physical Education: 5 terms.
     Women must include one individual sport, one team sport and course 233.

Minimum term hours required—96.

Note.—1. In as far as possible, consecutive courses should be elected in fulfillment of the requirements of Groups 3, 4.
RURAL THREE YEAR CERTIFICATE CURRICULUM

[Formerly Called Limited Certificate Curriculum]

(One year and one Summer Session in length)

A Shorter Curriculum for the Preparation of Teachers of One-teacher, Consolidated, and Village Schools

1. Psychology and Education:
   - Introductory Psychology 100 ........................................... 5 term hours
   - Principles of Teaching 101R ........................................... 4 term hours
   - Curriculum 101 .................................................................. 4 term hours
   - Teaching 101 ...................................................................... 4 term hours

2. English Composition 101A .................................................... 4 term hours

3. Sociology 103 ....................................................................... 4 term hours

4. Art for Teachers 102 ............................................................. 4 term hours

5. Music 106 ............................................................................ 4 term hours

6. Electives (selected from the following) .................................. 24 term hours
   - Literature for Children 103 ................................................ 4 term hours
   - Psychology of Reading 212 ............................................... 4 term hours
   - American History 101 A, B, or C ...................................... 4 term hours
   - Geography 101 ................................................................... 4 term hours
   - Arithmetic 101 ................................................................... 4 term hours
   - Hygiene 112 or Health Education 190 A, B ........................ 4 term hours
   - Nature Study 131 or 132 .................................................... 4 term hours
   - Agriculture 141 .................................................................. 4 term hours

7. Non-credit courses required of all students:
   - Library Methods.
   - Penmanship.
   - Three terms of Physical Education.
   - Women must include course 233.

**Minimum term hours required—56.**

**Note.**—1. A student may elect any six of the courses listed in Group 6 or he may elect certain consecutive courses in a given subject with the consent of the adviser.

2. Students who have not had Agriculture in the high school should elect this subject or Nature Study according to the enroller’s advice.
RURAL ONE YEAR PROFESSIONAL TRAINING CURRICULUM

The Curriculum Approved by the State Department of Public Instruction for the Preparation of Teachers for Rural Elementary Schools

(a) Each applicant must complete the following subjects:

*Introductory Psychology 100 .......................... 5 term hours
Observation and Teaching 101 .......................... 4 term hours
English Composition 101A ................................ 4 term hours
Hygiene 112 or Health Education 190 A, B ........ 4 term hours
Agriculture 141 ........................................... 4 term hours
Psychology of Reading 212 ............................. 4 term hours

**Principles (Technique) of Teaching 101R .......................... 4 term hours

**Curriculum 101 ........................................... 4 term hours

(b) Each applicant must complete a year's work by electing from this list of subjects:

Art for Teachers 102 .......................................... 4 term hours
Music 106 .................................................. 4 term hours
History 101 A, B, or C .................................. 4 term hours
Geography 101A ............................................. 4 term hours
Arithmetic 101 .............................................. 4 term hours
Grammar ..................................................... 4 term hours
Rural Sociology 103 ....................................... 4 term hours
Nature Study 131 ......................................... 4 term hours
Educational Psychology 200 .............................. 4 term hours

(c) Required of each applicant in addition:

Penmanship.
Physical Education, 2 terms.
Women must include course 233.

Minimum term hours required—48.

Note.—1. "Four term hours" means one course for twelve weeks with four recitations per week or their equivalent.
2. Not more than one-sixth of the work required for one year of professional training may be done by correspondence or in extension classes.
3. In order to obtain a certificate, after the completion of the course outlined above, the student must make application to the Superintendent of Public Instruction at Lansing.

*The State Department requires only 4 term hours.
**These courses are required at Western State Teachers College.
SENIOR HIGH SCHOOL CURRICULUM

(Three years in length)

For the Preparation of Teachers of Grades 10, 11 and 12

1. Psychology and Education:
   - Introductory Psychology 100 .............................................. 5 term hours
   - Educational Psychology 200 .............................................. 4 term hours
   - Principles of teaching 230 .............................................. 4 term hours
   - Teaching 201, 202 ......................................................... 8 term hours
   - Senior High School Education 325 .................................. 4 term hours

2. Rhetoric 104 A, B, C ....................................................... 9 term hours

3. A major sequence of 36 term hours including 4 term hours of teaching.

4. A minor sequence of 18 to 24 term hours in another subject, including 4 term hours of teaching.

5. A sequence, other than major or minor, consisting of 12 term hours.

6. The remaining units should be taken in groups of 12 term hours of consecutive courses in subjects not chosen as a major or minor sequence, or miscellaneous with the consent of the advisor.

7. Required of all students in addition:
   - Library Methods.
   - Physical Education: 5 terms.
   - Women must include one individual sport, one team sport and course 232.

Minimum term hours required—144.

Note.—1. A sequence consists of two or more consecutive, coherent courses in a given subject.

2. All elections for major and minor sequences must be made with the approval of a member of the department in which the work is to be taken.

3. Majors and minors may be counted in Foreign Languages, English, History, Mathematics, Biology, Geography, Chemistry, Physics and Speech.

4. In making elections, it should be held in mind that graduates in this curriculum obtain positions in the small high schools only, and will be expected to teach at least four subjects.

Students completing two years of work (96 term hours) of this curriculum, under the guidance of their advisers, may qualify for the Five Year Certificate. Such students omit Educational Psychology 200 and Teaching 202.
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.

ART

LYDIA SIEDSCHLAG
SELMA ANDERSON

LOUISE FULLERTON STRUBLE

HAZEL PADEN
ELAINE STEVENSON

102. Art for Teachers. 4 term hours. Miss Paden.

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.

103. Industrial Art. 4 term hours. Miss Anderson.

Problems in handwork naturally evolving from a study of how the world provides itself with food, clothing, shelter, utensils; of how it puts itself on record, and of modes of travel.

107. Illustrative Handwork. 4 term hours.

Problems relating to interests in primary grades worked out in wood, paper, clay, and other mediums.

Note.—Required of early elementary students.

113B. Appreciation of Art. 2 term hours. Prerequisite: Art 113A. Miss Siedschlag.

A brief survey of the history of painting and sculpturing. Application of principles of Art 113A.

113C. Appreciation of Art. 2 term hours. Prerequisite: Art 113A, B. Miss Siedschlag.

An appreciation course in architecture and minor arts of the past and present.

212. Handicraft. 4 term hours. Prerequisite: Art 102 or 103. Miss Anderson.

Includes problems in batik, gesso, metal, leather tooling, and other problems in handwork.
220. Stage Design. 4 term hours. Miss Siedschlag.
A course for Art and Speech students. Class makes practical use of knowledge of scene painting, lighting, and mechanics of staging in connection with one act plays.

321. Painting. 4 term hours. Prerequisite: Art 102, 109, 208, or consent of the instructor. Miss Stevenson.
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**

**General Courses**

**101B. General Biology.** 4 term hours. Prerequisite: Biology 101A. Dr. Goddard.
Emphasis upon animal biology. Physiology and life relations are developed through a somewhat detailed laboratory study of several typical animals, such as the earthworm, the crayfish, the grasshopper, and the frog.
Classroom, 2 hours a week; laboratory, 2 or 3 double periods.

**201. Fundamentals of Biology.** 4 term hours. Not open to students who have taken or who 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.

**204. General Science.** 4 term hours. Prerequisite: previous work in collegiate science. Mr. Wiseman.
Intended for those who expect to teach general science in either junior or senior high schools. Also adapted to the needs of those who cannot specialize in science, but who would like to take a general introductory course. The problem method is largely followed. The common phenomena of everyday life both in the physical and the living world will form the basis for the work. Attention is directed both to subject matter and means of presentation.

**301. Organic Evolution.** 4 term hours. Prerequisite: Biology 101, or 201. Dr. Kenoyer.
It is important that the teacher understand evolution as the logical scientific attitude toward nature,—the most satisfactory means of explaining all progress that has occurred and shall occur in the universe. The student is given an outline of the evidences for and the probable steps in the evolution of both the plant and the animal kingdoms. Two hours per week are devoted to laboratory work.

Anatomy and Hygiene

**112. Hygiene.** 4 term hours. Mr. Cook.
This course considers the factors of both personal and social hygiene with special emphasis upon the causes of ill-health and disease and their control and prevention.
311. **Bacteriology.** 4 term hours. Prerequisite: Hygiene 112 and at least one term of General Biology. Mr. Cook.

A classroom and laboratory course in elementary bacteriology based on the study of structural, functional, and growth characters of harmless and harmful bacteria. Work will include the history of bacteriology, classification of microorganisms, principles of immunology, bacteriophage, microbial ecology, allergic reactions, staining technique, sterilization methods, and relation to health and disease. Especially recommended to prospective doctors, dentists, nurses, laboratory technicians or teachers of health subject.

### Botany

221C. **Field Botany.** 4 term hours. Prerequisite: Biology 101 or equivalent. Dr. Kenoyer.

Plants are considered mainly from the standpoints of ecology and taxonomy. The student learns to identify the plants of the region and through field trips become familiar with their habits and interrelations. One Saturday will be used for a trip to the Lake Michigan dune region.

222. **Botanical Field Work.** 5 term hours. Prerequisite: a year of college botany or its equivalent. Dr. Kenoyer.

The plan is to select from the portion of Canada lying north of the Great Lakes a locality easily accessible but little known botanically, and make a rather intensive study of this locality during the four weeks immediately following the summer session. A bus and camping equipment will probably be used. Tuition $25; expense on pro-rata basis. Consult instructor for details.

### Zoology

251. **Insect Study.** 4 term hours. Dr. Goddard.

Designed to offer a systematic study of the leading groups of insects. Life habits, structural adaptations, life histories, natural homes, classification, and economic importance will be considered. Frequent field excursions will be made for collection of material, identification, and study of habits. Methods of rearing living material and preparing museum specimens will be studied. Control of insects in relation to disease, destruction of crops, and household pests will be especially emphasized.

Note.—Either Insect Study 251, or Bird Study 254, may be taken with Invertebrate Zoology 252, and Vertebrate Zoology 253, as a year’s sequence.

### Nature Study

131. **Biological Nature Study.** 4 term hours. Miss Argabright, Miss Hadley.

The aims of this course are to help the student become familiar with material which may be used in the elementary grades; to develop an understanding of the problems of plants and animals; and to appreciate the beauties of nature. Students should keep in mind that the seasonal changes make it necessary to offer different subject matter in each term.

Summer term: Trees, flowers, insects, birds, construction and equipment of either a vivarium or aquarium.

135. **Bird Study.** 4 term hours. Prerequisite: Nature Study 131 or its equivalent. Miss Hadley.

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.

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 a 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. Boynton.
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. Boynton.
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. Boynton.
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. Boynton.
The aliphatic (open chain) and aromatic (closed chain) compounds are studied.
Classroom, 3 double periods a week; laboratory, 4 double periods a week.
COMMERCCE

EUGENE D. PENNELL

*102A. Beginning Shorthand and Typewriting. 2 term hours. Miss Watson.

This is a beginning course in the Elementary theory of Gregg shorthand and the technique of touch typewriting. The first six chapters of the Gregg Manual, Anniversary Edition, supplemented by the assignments from Speed Studies are covered.

Note.—*Shorthand and typewriting must be taken three consecutive terms to secure credit with the following exceptions:

Students who present one unit of Gregg shorthand and one unit of typewriting for entrance will not be allowed credit for Shorthand and Typewriting 102A, and should enroll for 102B. Students who present two units of Gregg Shorthand and two units of typewriting for entrance will not be allowed credit for Shorthand and Typewriting 102A or 102B, and should enroll for 102C. Early in the first week of the fall term a special examination will necessitate taking the work for review without credit.

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 vices for giving expression to these principles; the effect of current business transactions upon 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.

205. The Teaching of Junior Business Science. 2 term hours. Miss Watson.

This involves the principles and aims of the junior business curriculum. A consideration of the various objectives that are advanced for such a course—social science, intelligent consumption, exploratory, vocational, character development, and guidance. Selection and presentation of material. Discussion of methods of teaching such a course. If time permits, some consideration will be given to the teaching of elementary bookkeeping.

305. Problems in Secondary Commercial Education. 3 term hours. Mr. Pennell.

In this course a brief analysis of modern business is made in an effort to ascertain the objectives of education for business at different levels. An examination of secondary commercial curricular is made to determine whether or not the best interests of the schools 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. Some attention is given to the history and development of education for business.
EDUCATION AND PSYCHOLOGY

ERNEST BARNHAM
HOMER L. J. CARTER
MANLEY M. ELLIS
ALICE EVANS
DAN J. HEATHCOTE
GEORGE H. HILLIARD

KATHERINE A. MASON
RAY C. PELLETT
EFFIE B. PHILLIPS
ROXANA A. STEELE
BESS L. STINSON
JOHN C. SULLIVAN

Elmer H. Wilds

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.
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.
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.

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.

321. Junior High School Problems. 4 term hours. Prerequisite: Psychology 100, 200, Principles of Teaching 230. Mr. Wilds.
An advanced course dealing with such practical problems as the adaptation of instruction to the different levels of intelligence, the adequate provision of guidance and the exploration opportunities, the organization and supervision of home room activities, and the articulation of the junior high school with the elementary school and the senior high school. Opportunity will be given for trips to outstanding junior high schools for study and investigation.
322. Extra-Curricular Activities. 3 term hours. Prerequisite: Psychology 100, 200, Principles of Teaching 230. Mr. Wilds.

A study of the organization and supervision of the extra-curricular program in elementary and secondary schools. Consideration is given to such topics as the justification of extra-curricular activities, extra-curricular evils, typical experiments in organization and administration, relation of extra-curricular program to the curriculum, centralization and unification, faculty participation, student participation and student government, point systems, systems of school credit and honor awards, financing the extra-curricular program.

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. Ellis.

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 will be to train the advanced student in the use of school subject tests for the purpose of diagnosis. A more careful training will be 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 will place its major emphasis upon the education treatment of subnormal children of the moron and borderline classes.

365. Mental Hygiene. 1 term hour. Prerequisite: Psychology 100, 200.

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

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

A course for those students who are looking forward to administrative work. The course will deal with such problems as personnel; recruiting the teaching profession; teacher training; selection of teachers; introducing the teacher to his work; home talent; the married woman teacher; measuring
success; teaching load; salaries; teachers' councils; recreation and leisure; pupil classification; pupil promotion; education guidance and placement.

371A. School Supervision. 4 term hours. Prerequisite: Psychology 100, 200, Principles of Teaching 230, Teaching 201, 202, School Supervision 371, A. B. Miss Steele.

The emphasis in this course is upon the practical application of material covered in Supervision 330A and 330B. Insofar as possible adaptation will be made to the needs and interests of the Individual members of the class.

Early Elementary Education

140. Early Elementary Education. 4 term hours.
A study of the physical child and the environmental condition best suited to his normal, healthful development together with methods used by the school to promote health habits and knowledge.

Note.—Courses 140 and 241 constitute a year sequence designed specifically for students preparing for teaching in the kindergarten, first and second grades.

241A. Early Elementary Education. 4 term hours. Prerequisite: Early Elementary Education 140, Psychology 100. Mrs. Phillips.
This course will be devoted to the study of oral and written language and the technique of beginning reading and spelling.

242. Stories for Childhood. 4 term hours.
A study of stories and poems suitable to childhood. A survey of the field and classroom practice in story telling.

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.

343. Nursery School Education. 4 term hours. Prerequisite: Psychology 100, Early Elementary Education 340.
This course will acquaint students with the history and present day status of the Nursery School Movement. Consideration will be given to the organization, equipment, and curriculum of the various types of existing nursery schools. A study will be made of the nature of the pre-school child and of the materials and environment necessary to promote correct growth.

Philosophy

381A. History of Philosophy. 2 term hours. Prerequisite: Psychology 100.
Open to Juniors and Seniors. Mr. Pellett.
A study of Greek and early medieval philosophy both with regard to their interrelations and their influence on modern thought.

430. Philosophy of Education. 4 term hours. Prerequisite: Psychology 200, 201. Desirable antecedents: Sociology 301A, 431. Dr. Burnham.
This course will attempt an inclusive analysis in the large of the possibilities of growth in normal human beings and will inquire how education may progressively reveal the significant goals of life. The purpose of this course is to relate to 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. Various members of the staff.
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.

201. Genetic Psychology. 4 term hours. Prerequisite: Psychology 100, 200.
A study of the development in mind in the race and in the individual.

300. Abnormal Psychology. 4 term hours. Prerequisite: Psychology 100, 200.
A discussion of the more common forms of mental abnormality and maladjustment. Some attention will be given to feeble-mindedness. The relationship between such conditions and character development will also be considered.

Health Education

Health Education 190 A and B should be taken in the same term in a combined four term hours course by all students in the One Year Professional Training curriculum (Rural) and Three Year Certificate curriculum (Rural). All other groups are advised to take Health Education 190A early in their freshman year and Health Education 190B just before practice teaching experience.

Courses in Health Education 190 A, B, and 390 may be taken for either science or education credit hours toward degree or certification. Health Education 190 A, B, and 390 are open electively to all students.

190A, B. Health Education. 4 term hours. Miss Evans.
Hygiene and Health Education Problems. This course is designed for the students who have had little or inadequate training in hygiene. It will try to build up habits of hygienic living and adequate understanding of the scientific principles underlying these habits. It will include all phases of health problems related to the school child and covers content of health instruction suggesting methods and materials for a progressed and integrated health teaching program.

390. Health Education. 4 term hours. Prerequisite: Hygiene 112 or its equivalent. Miss Evans.
School Health Problems. The course will cover the detail of the protective program for child health and the responsibility of home, school and community toward developing the child in self-directed healthful living. It will include content and methods of the health program in the schools with special emphasis on the supervisory aspects.
The present day trend in health control and development on a broad basis will be considered.
ENGLISH

Composition and Rhetoric

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

323. Advanced Rhetoric. 4 term hours. Mr. Foley, Miss Loutzenhisser, Miss Nobbs, Mr. Slusser.
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. Mr. Masterson.
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.

122. American Prose. 4 term hours. Mr. Masterson.
The work of this course consists of wide reading in the prose of Irving, Emerson, Hawthorne, Melville, Thoreau, and Mark Twain. This is supplemented by individual study of other prose writers as recent as Henry James and William Dean Howells.

203. Literature for Children. 4 term hours. Mrs. Biscomb.
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 will be paid to the subject of general reading for children, both inside and outside of school.

205A and B. Nineteenth Century English Prose. 4 term hours. Mr. Slusser.
A careful reading of selected non-fiction English prose of the nineteenth century, including many of the essays of Matthew Arnold, Robert Louis Stevenson, Thomas Henry Huxley, as well as Walter Pater's Marius the Epicurean and John Henry Newman's Apologia pro Vita Sua.
211. **Lyric Poetry.** 4 term hours. Mr. Sprau.

This course is a more thorough study of one form of literature considered in 210. (See Catalogue). Its aim is to help the student to a fuller appreciation of good poetry, to know why a poem is good literature, and to suggest ways of using poetry with classes.

219. **The Short Story.** 4 term hours. Dr. Brown.

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 will serve to acquaint the student with the best short stories and the method of teaching such material. Themes and reports will be required.

225. **The Ballad.** 4 term hours. Mr. Foley.

A study of the form and method of development of the traditional popular ballad. A number of ballads representative of various types will be studied minutely, and many others will be read. The course will pay some attention secondarily to the later artistic ballad.

226 A and B. **Masterpieces.** 4 term hours. Miss Loutzenhiser.

The purpose of this course is to study intensively some of the masterpieces of English literature. One example of the tale, the epic, the drama, and the novel will be read and analyzed. The masterpieces studied are as follows: The Canterbury Tales, The Faerie Queene, Othella, and Jude the Obscure.

308. **The English Drama.** 4 term hours. Dr. Brown.

This course aims to trace the development of the English drama from its origin in mystery and miracle plays through the imitation of Latin tragedy and comedy by Shakespeare's predecessors to the work of Shakespeare, Jonson, Beaumont and Fletcher, and Webster.

315. **Literary Criticism.** 4 term hours. Mr. Sprau.

A careful study of the fundamental principles of literary criticism, supplemented with wide reading in English critical essays. Each student writes several short criticisms. The work of the course is arranged to develop in the student a careful critical judgment and to cultivate the habit of careful criticism.

322. **American Literature.** 4 term hours. Miss Nobbs.

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 will permit.

**GEOGRAPHY AND GEOLOGY**

**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 Marks.

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

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

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.

203. Geography of Europe. 4 term hours. Prerequisite: Geography 101A and B or 301. Mr. Berry.

This course takes up first the continent as a whole with special consideration of its world relations, the continent is then taken up by geographic regions, studying the adjustments people are making to the complex of natural environmental features of each region.

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 in the Grades. 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.
305. Field Geography. 4 term hours. Prerequisite: Geography 101A and B or 301. Mr. Berry.

An intensive study is made of various type areas within the Kalamazoo vicinity with the purpose of observing the adjustments made in various types of agriculture, important industrial developments, transportation facilities, commercial organizations, and urban pattern to the environmental complex of the type areas studied. The course is based primarily upon field work, and affords training in observing geographical facts, accurate field notetaking, and detailed mapping of areas studied. Required of students who desire recommendation to positions in the field of geography.

Classroom, 2 periods a week; in field, two afternoons.

Geology

207. Geology. 4 term hours. Mr. Wood.

An introduction to earth history. It includes a brief study of the earth's physiography, climate, minerals, genesis of ore deposits, the origin of mountains, and the history and growth of the continents.

Note.—This is an appreciation course similar to survey courses in chemistry and biology, and should not be elected by students desiring a Year's work. Such students should elect Geology 320.

THE SOCIAL SCIENCES

Smith Burnham
Elizabeth L. Barbour
Della B. Barnett
Howard F. Bigelow
Margaret E. Burnham
Clayton J. Ettinger

Verne E. Mabie
Floyd W. Moore
Robert R. Russell
Edith Seekel
Charles Starring
Oscar S. Trumble

History

101A. 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.

101B. 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.

101C. 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.

104. Medieval Europe, 476-1500. 4 term hours. Miss Seekell.

The Teutonic invasions and their results, Charlemagne's empire, the rise and nature of feudalism, the medieval church and its work, the social and intellectual life of the period, the Crusades, the rise of cities, the development of commerce, and the Renaissance.
HISTORY

105A. English History, 55 B.C.-1603. 4 term hours. Dr. Russell.
A study of the origin and growth of English nationality, early Britain, Anglo-Saxon institutions, Norman centralization, rise of the common law, limitation of monarchy, decay of feudalism, commercial development, separation from Rome and the Anglican Establishment, sea power and nationalism during the Elizabethan 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.

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 will 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 will be considered.

305. International Relations, 1850-1914. 3 term hours. Dr. Scott.
The foreign relations of the Great Powers and the history of their expansion into less developed areas of Asia, Africa, the Pacific, and Latin America will be treated in this course in their political, economic, and social aspects.

308B. United States History, 1877-1901. 3 term hours. Mr. Burnham.
A study of the rapid industrial progress of the country during this period and of the problems growing out of that development. The tariff, the currency, trusts, labor organizations, and reform movements are among the topics studied.

Economics

201A. Principles of Economics. 4 term hours. 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, interregional trade, business organization, and marketing are frequently included.

201B. **Principles of Economics.** 4 term hours. Prerequisite: 201A. Mr. Bigelow.

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.

203. **Labor Problems.** 4 term hours. Prerequisite: Economics 201. Mr. Bigelow.

An analysis of the nature and underlying causes of the problems facing the worker in modern economic society, followed by a consideration of the attempts which have been made at their solution by employers and public as well as by the workers themselves. Present methods are evaluated in the light of underlying economic principles in order to develop sound thinking about these problems.

304A. **Marketing.** 3 term hours. Prerequisite: Economics 201. Mr. Moore.

A study of the principles, methods, and problems of marketing. The following are some of the topics covered in this course and in Marketing 304B: the marketing functions, the marketing of farm products, raw materials, and manufactured goods; the operation of middlemen, and their place in the market structure; retail types and policies; consumer and producer co-operation; market finance; brands and trade names; specialization; price maintenance; unfair competition; cost of marketing; prices and price factors; general criticism of existing market structure and proposals for its reform.

**Political Science**

201C. **Practical Politics.** 4 term hours. Prerequisite: Government 201A or B. Mr. Shilling.

A detailed study of the nature and activities of political parties of the United States, including rise, development, and mechanism. Elections, ballots, and civil service are given emphasis.

301B. **Comparative Government.** 3 term hours. Prerequisite: Government 201A and B, or History 201, and 301A. Mr. Shilling.

A study is made of France, Germany, Italy, Russia, and Switzerland. Special emphasis is given to the study of each country, problems of administration, civil service, taxation, and foreign relations.

**Sociology**

201A. **Society and the Individual.** 4 term hours. Dr. Ettinger.

A discussion of the psychological approach to the study of sociology. It includes some consideration of the bearing of the evolutionary theory on sociological thought, and takes up such subjects as suggestion and choice, sociability and personal ideas, sympathy, the social self, hostility, emulation, leadership, conscience, degeneracy, and freedom.

Note.—Courses 201 A, 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. Ettinger.
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 communication 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.

301B. Social Pathology. 4 term hours. Prerequisite: Sociology 201A, B. 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 will be considered.
See note under course 301A.

304. Criminology. 4 term hours. Prerequisites: Sociology 201A and 201B. Dr. Ettinger.
This course is a study of crime as a sociological problem. It considers the theories and aims of punishment; the physical, economic, and social factors of crime; types of criminals, with special emphasis upon the causes, prevention, and treatment of juvenile delinquency. An essential feature of this study will be field trips to prisons, reformatories, and other penal institutions.

HOME ECONOMICS

MARY A. MOORE
RUTH V. SCHUMACHER

110. Clothing. 2 or 4 term hours. Mrs. Schumacher.
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.

A general discussion of the essentials of an adequate diet; application of such knowledge to the feeding of individuals and family groups and the planning of typical dietaries.

207. Foods. 4 term hours. Prerequisite: Foods 102, 107 or equivalent. Miss Moore.
Problems in planning, marketing, preparing, and serving meals.

409. Clothing. 4 term hours. Prerequisite: Home Economics 101, 103, 205.
As scheduled. Mrs. Schumacher.
Applied dress design is taught by modeling and draping on the dress form. A tailored coat or suit is made in this course.

LATIN

ELISABETH T. ZIMMERMAN
MATHILDA STECKLEBERG

205. Teachers Course. 4 term hours. Miss Steckelberg.
This course treats of the problems of the first two years of high school Latin and is a prerequisite for practice teaching. The methods of present-day Latin teaching, the objectives, the materials of instructions, and the
classroom activities are considered. Provision will be made to meet the needs of individuals enrolling in this course.

208. Greek Mythology. 4 term hours. Miss Zimmerman.
A study of the mythology of Greece and Rome, with wide reading in English literature treating of these myths, and special reference to their use in the teaching of children.

**LIBRARY**

A course of ten lessons on the use of the library. Required of all freshmen.

**MANUAL ARTS**

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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.

101. Woodshop. 4 term hours. Prerequisite: Consent of instructor. Mr. Woods.
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.

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

A course presenting, through a series of unit activities, the methods used in handling and shaping metals. Processes in forging, bending, riveting, oxy-acetylene welding, brazing, soldering, spinning, stamping, etching, and polishing are demonstrated and applied.

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.

205. **Woodshop.** 4 term hours. Prerequisite: Advanced Benchwork 103A. Mr. Nichols.

An introductory course in the use and care of woodworking machines. Special emphasis is given to the various types and points to be considered in the buying of woodshop equipment. Much attention is given to jointer and surfacer grinding, band saw filing, brazing, and circular saw fitting. Types of furniture construction are worked out through a series of fundamental problems.

207. **Wood Finishing.** 4 term hours. Mr. Nichols.

An introductory course in the principles and methods of modern wood finishing. This course includes the working out of the standard and more popular finishes now in vogue and industrial finishing. Much time is devoted to the study of wood structure, finishing materials, and the organization of a course of study in connection with wood laboratory work.

Some time is devoted to the theory of color as applied to interior decorating in a selection of wall hangings, floor coverings, and furniture fabrics.

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

This course supersedes Household Mechanics 102A and should be accompanied by Electricity 160. It is designed for those who will teach industrial arts in classes of junior school level. It will include practical problems in glazing, painting, plumbing, electric wiring, and care and repair of mechanical devices found in the home.

215 A, B, C. **Architecture.** 12 term hours. 4 hours a week throughout the year. 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.
222. **Sheet Metal.** 4 term hours. Prerequisite: Drawing 111. Mr. Weaver.
   The application of hand and machine processes in cutting, forming, seam-
   ing, burring, crimpling, notching, and wiring as applied to the making of
   tinware, spouts, gutters, and large containers.

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.

242A. **Auto Mechanics.** 4 term hours. Mr. Weaver.
   A study of the various parts of the automobile and simple repairs to be
   made with the use of job sheets.

308. **Woodshop.** 4 term hours. Prerequisite: Woodshop 205, Wood Fin-
   ishing 207 A. Mr. Nichols.
   An advanced course in machine woodshop designed for those who wish to
   specialize in woodwork. This course includes more advanced problems in fur-
   niture construction and design. Some attention is given to caning and simple
   upholstery, wood steaming, and bending. In this course each student makes
   a complete layout of an ideal woodshop with specifications for installations.
   Much time is given to the selection of material and the organization of a
   course of study.

**MATHEMATICS**

*JOHN P. EVERETT*  
*HUGH M. ACKLEY*  
*PEARL F. FORD*

100A. **Algebra Beginning with Quadratics.** 4 term hours. Mr. Cain.
   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. Blair.
   A teachers course. Lectures and discussion on the history and teaching
   of the subject, with assigned reading. Extended treatment of typical prob-
   lems of applied arithmetic.

115. **College Algebra.** 4 term hours. Mr. Ackley.
   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 will consist 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 will be considered along with the more traditional material of these grades.

205 A 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. Cain.

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. Cain.

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.

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 will include measures of central tendency, of dispersion, and of relationship.

321. **Differential Equations.** 4 term hours. Prerequisite: Calculus 205C. Mr. Blair.

**MODERN LANGUAGES**

**French**

**Marion Tamin**

**Myrtle Windsor**

101A. **Elementary French.** 4 term hours. Miss Windsor.

The rudiments of French grammar, pronunciation, and ear training will be stressed. No credit for the work of any term will be given until the year's work is completed.

101B or 101C. 4 term hours. Miss Windsor.

A continuation of 101A. The 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.
102 or 202. **Rapid Reading.** 4 term hours. Miss Tamin.
Reading in representative works of masters of French literature. The course is open to students who have had at least two years of college French.

208. **Phonetics.** 4 term hours. Prerequisite: Two years of college French or equivalent. Miss Tamin.
The aim of this course is to make a scientific study of sounds and their various groupings so as to develop accuracy in pronunciation. A great deal of corrective work will be done aside from the study of theories and rules. Required of all students majoring or minoring in French.

**German**

ELISABETH T. ZIMMERMAN  
MATHILDA STECKELBERG

101A. **Elementary German.** 4 term hours. Miss Steckelberg.
The work of this course will cover that of the first term of elementary German. It will include 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.

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

**Spanish**

HARRY P. GREENWALL  
JUANITA MATLOCK

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.

101B. **Elementary Spanish.** 4 term hours. Miss Matlock.
This course is designed for students who have had one term of Spanish.

102. **Intermediate Spanish.** 4 term hours. Prerequisite: Spanish 101. Mr. Greenwall.
A modern novel will be read, and composition and grammar work will be based on the same.

204 A, B, C. **Hispanic Civilization.** 4 term hours. Miss Matlock.
A study of the history and culture of the Spanish-speaking nations. The course will be conducted in English and is not limited to students of the Spanish department.

Note.—This term's work will count for 102A, 102B or 102C, according to the needs of the students. May be substituted for 101C with consent of instructor.
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 206 A, 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 for 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
ETHEL SHIMMEL

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.

PHYSICAL EDUCATION FOR MEN

JUDSON A. HYAMES  MITCHELL GARY
HAROLD F. BARNHART  JOHN W. GILL
CHARLES MAHER

101. Physical Education. One hour period four days a week.

Athletics, team games, and general recreation for physical education programs. Tennis instruction will be offered if requested.

101A. Tennis.

May be substituted for Physical Education 101.

103. Physical Education. Mr. Barnhart.

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. Barnhart.

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. Gill.


317. Baseball Technique. 3 term hours. Mr. Hyames.

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.

The best accepted forms of starting, hurdling, 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.** 2 term hours.

Principles of scout work organization, equipment, rope tying, patrols, signaling, and hiking. Hikes and at least two week-end trips will be taken. The object of this course is to make every graduate of the department a potential scout master.

404. **Organization and Administration of Physical Education.** 4 term hours.

Mr. Hyames.

This course will draw up, plan, and discuss physical education programs for city, village, and rural schools; the organization of health lessons, games, tests, meets, tournaments, and seasons of play; principles of supervision; construction and equipment of the buildings, grounds, swimming pools, athletic fields, stadia.

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**PHYSICAL EDUCATION FOR WOMEN**

**Isobel Crane**

**Mary Bottje**

**Marion A. Spalding**

**Katherine Thielten**

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 Spalding.

Volley ball and folk dancing are emphasized. Some marching and gymnastics are included.

**102. Physical Education.** Miss Crane.

A daily rest period for students who are physically unable to participate in class activity.

**103. Restricted Exercise.** Miss Bottje.

Exercise for restricted groups. Hiking, bowling, and quoits.

**105. Swimming.** Miss Bottje.

Swimming, diving, life saving.

**107. Basketball.** Miss Spalding.

A course in basketball playing and coaching.

**201. Tennis.** Miss Bottje, Miss Spalding, Miss Thielen.

**202. Golf.** Miss Thielen.

Practice in form for the various shots with some work on the course.
203. **Folk Dancing.** Miss Crane.
   Country, folk, and national dances. Clogging.

206. **Interpretative Dancing.** Miss Thelen.
   Individual and group specialty of expression through rhythmic movement.
   Class limited to 20 members.

207. **Archery.** Miss Bottje.

230. **Earl Elementary Education.** Miss Crane.
   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 Crane.
   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.

232. **Junior and Senior High School Physical Education.** Miss Spalding.
   A course giving in theory and practice, physical education activities suit·
   able for junior and senior high students.

233. **Rural School Physical Education.** Miss Spalding.
   Suggested indoor and outdoor program for mixed age groups. Ideas for
   track meets, picnics, play days, holiday programs, and student leadership
   systems.

**PHYSICS**

**JOHN E. FOX**

**WALTER G. MARBURGER**

A major in physics consists of 36 term hours. Through arrangements 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. A year of college mathematics should precede 201.

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 Summer students. 201 A, B, or C will be offered in response to de·
mand.

100A. **Elementary Physics.** 4 term hours. Mr. Marburger.
   The aim of this course is to bring the student to an understanding of some
   of the laws which govern his everyday life. Individual laboratory experi·
   ments illustrate many of the principles discussed. It is designed for students
   who enter without credit in high school physics. The summer term will
   be arranged especially for teachers and students of general science and
   astronomy. This course represents the work covered in the first term of the
   year course.

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. 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 will be studied.
   Classroom, 4 single periods a week; laboratory, 1 double period a week.
201A. Mechanics and Sound. 4 term hours. Prerequisite: high school physics and trigonometry. Mr. Fox, Mr. Marburger.

A general college course in mechanics of solids and fluids. The last part of the term will be devoted to a study of sound. The work will consist of demonstration lectures and recitations with illustrative problems.

Classroom, 4 double periods a week; laboratory, 2 double periods a week.

201B. Heat and Light. 4 term hours. Prerequisite: Physics 201A. Mr. Fox, Mr. Marburger.

A general course dealing with the phenomena of heat and light. This course, together with 201A and 201C, constitutes a year's work in physics and should be elected by all students who desire a completion unit in general physics as stated in the description of course 201A.

Classroom, 4 double periods a week; laboratory, 2 double periods a week.

201C. Magnetism and Electricity. 4 term hours. Prerequisite: Physics 201A. Mr. Fox.

A college course in magnetism and electricity. Same general plan of presentation is used as in Physics 201A. This course, together with courses 201A and 201B, constitutes a year's work in college physics and should be elected by all students who desire a complete unit of credit either as a foundation for high school teaching or in preparation for more advanced courses in physics and engineering.

Classroom, 4 double periods a week; laboratory, 2 double periods a week.

202A. Mechanics and Sound Problems. 1 term hour. To accompany Physics 201A. Mr. Marburger.

Students desiring the required ten hours of physics for engineering must elect this course.

One double period a week.

202B. Heat and Light Problems. 1 term hour. To accompany 201B. Mr. Marburger.

See description of course 202A.

202C. Electricity and Magnetism Problems. 1 term hour. To accompany 201C. Mr. Fox.

See description of course 202A.

210. Astronomy. 4 term hours. Mr. Fox.

A non-mathematical course in descriptive astronomy which will serve as an aid to students in general science and to others who wish to get an understanding of the elements of the subject. Open as an elective to students of all curricula.

404. Advanced Laboratory Physics. Credit depending upon work accomplished. Prerequisite: Physics 201 A, B, C and experience in other courses offered in this department. Mr. Fox, Mr. Marburger.

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

WILLIAM MCKINLEY ROBINSON

CLEORA A. SKINNER

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 36.
- Facilities for training for work in rural education available at Western State Teachers College, page 36.
- Certificates granted, page 38.
- Curricula offered, page 43.
- Provision for county normal and helping teachers, page 39.
- Provision for training teachers of agriculture, page 36.
- 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 Skinner.

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 Skinner.

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.

201A. 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 201B will be given in the Summer of 1933.

203. Rural Sociology. 4 term hours. Prerequisite: Consent of instructor. Dr. Burnham.

This course will present the materials of the several excellent up-to-date textbooks in rural sociology and will make students aware of the research and constructive activities of the national and state associations working in this field. The results of the work of the experiment stations in social research in small communities under the federal subsidy provided by the Purnell act will be kept in view.

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.
101A. **Fundamentals of Speech.** 4 term hours. Mr. Lahman, Miss Lindblom.

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.

101B. **Fundamentals of Speech.** 4 term hours. Prerequisite: Speech 101A. Miss Eccles.

Further study of principles, with additional opportunity for individual practice. Students interested in Speech are advised to elect both A and B the first year.

120. **Informal Public Speaking.** 4 term hours. Prerequisite: Speech 101A. Miss Lindblom.

Introductory study of the rhetorical principles of public speech and audience psychology. The primary aim is to develop clear thinking, and ease and effectiveness in speaking. Frequent opportunity for platform work.

210A. **Interpretive Reading.** 4 term hours. Prerequisite: Speech 101. Miss Eccles.

Analysis and oral interpretation of the more simple types of prose and poetry.

225. **Argumentation and Debate.** 4 term hours. Prerequisite: Speech 101 or consent of instructor. Mr. Lahman.

A course designed particularly for high school debate coaches and those who expect to coach debate. In addition to a thorough study of the principles of argumentation with practice in debating current public questions, special attention is given to problems of coaching and judging. An intensive study will be made of the question to be used for 1932-33 in the Michigan High School Debate League.

**THE TRAINING DEPARTMENT**

**Practice Teaching**

Students should enroll for Teaching in the Training School office early in the term preceding their term of teaching and well in advance of the day regularly scheduled for enrollment. Each student must present a tentative program, approved by his curriculum adviser; his practice teaching assignment will then be made in accordance with this program. This enrollment will be cared for daily in the Training School office.

Teaching 201 and 202 are required in all the Life Certificate curricula. As far as possible, students are urged to take both units of teaching in the same term. At least two consecutive hours of the school day should be reserved for this work. All curricula should require that at least one unit of teaching be done in the third or fourth year.

In case Teaching 201 and 202 are taken in different terms, meetings with the Director are required only the first term.

Students are strongly advised not to undertake extra studies or remunerative work during the term or terms in which practice teaching is being done. Each unit of Teaching, 101, 201, 202, 203, 204, and 205, counts the same as one academic subject and is entitled to four term hours credit, hence to a corresponding amount of time and effort in preparation.
Students preparing to do administrative work are advised to do at least one unit of teaching in the lower grades of the Training School.

Courses of Instruction

101. Teaching. 4 term hours. Prerequisite: Psychology 100, Principles of Teaching 101R, as many honor points as courses completed. Mr. Ellsworth and Supervisors.

For students enrolled in the Three-Year Certificate and Required Professional Training Curricula only.

201, 202. Teaching. 4 term hours. Prerequisite: Psychology 100, Principles of Teaching 230, as many honor points as courses completed. Mr. Ellsworth and Supervisors.

These courses include (1) the teaching of classes in one of the Training Schools; (2) the observation of lessons taught by Supervisors; (3) the study and measurement of children as individuals and in groups; and (4) meetings with the Director of the Training Schools and the Supervisors of practice teaching.

Students are expected to become familiar with the courses of study and the general workings of the Training School and to enter into the life and activities of the school. Opportunity is afforded for participation in assemblies, social affairs, and parents' meetings.

All practice teachers meet Saturdays at 8 o'clock with the Director. Class meetings with the Supervisors of Campus Training School are held Tuesdays and Thursdays at 8:00. Class meetings for the other Training Schools are held at hours especially arranged. These hours must, therefore, be reserved by all students enrolling in practice teaching.

Practice teaching is offered in the Summer session to a limited number of those who can finish a life certificate course by so doing. It is not open in Summer to those students who are on the campus the other terms.
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