Western State Teachers College Bulletin v24 n3: Summer 1929

Western Michigan University

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Wednesday, July 17...3 p.m. ____________ Travel Talk. Mrs. Robert Russell.
3-5 p.m. Women's League Room. Open House Tea.
Thursday, July 18...3 p.m. Matinee Tour*—Vegetable Parchment Company.
8 p.m. Feature Entertainment. Sidney Landon.
Friday ................. July 19, 20, 21—Week-end Excursion**—Chicago.

Fifth Week (July 22-July 27)
Monday, July 22...3 p.m. ____________ Departmental Talk. Some Modern Uses of Applied Mathematics. Mr. Hugh Ackley.
Tuesday, July 23...9 a.m. General Assembly. Program of Music. 3 p.m. Matinee Tour*—The Humphrey Heater Company.
Wednesday, July 24...3 p.m. ____________ Travel Talk. Czechoslovakia and Her Neighbors. Dr. Nancy Scott. 3-5 p.m. Women's League Club Room. Open House Tea.
Thursday, July 25...3 p.m. Matinee Tour*—Henderson-Ames Company. 8 p.m. Feature Entertainment. Ramos Mexican Orchestra.
Friday, July 26......
Saturday, July 27...8 a.m. Week-end Excursion**—South Bend.

Sixth Week (July 29-August 2)
Monday, July 29...3 p.m. ____________ Travel Talk. The French Theater. Miss Marian Tamin.
8 p.m. Feature Entertainment. Redpath Players.
Tuesday, July 30...9 a.m. General Assembly. Commencement Exercises. Speaker to be announced. 3 p.m. ____________ Departmental Talk. Progressive Trends in Rural Education. Mr. William McKinley Robinson. 3 p.m. Matinee Tour*—The State Hospital.

*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", and 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 ticket at the Main Office.
4. All excursions will begin and end at the Training School Building.
CALENDAR ANNOUNCEMENTS FOR 1929-1930

1929

SUMMER SESSION

Monday, June 24 ........................................... Registration of Students
Tuesday, June 25 ........................................... Recitations Begin
Friday Noon, August 2 ..................................... Summer Session Ends

FALL TERM

Monday, September 23 to Wednesday, September 25 .......... Freshman Days
Tuesday, September 24 ..................................... Registration of Freshmen
Wednesday, September 25 ................................... Registration of Upper Classmen
Thursday, September 26 ..................................... Recitations Begin
Wednesday Noon, December 18 ................................ Fall Term Ends

1930

WINTER TERM

Monday, January 6 ........................................... Registration of Students
Tuesday, January 7 ........................................... Recitations Begin
Friday Noon, March 28 ..................................... Winter Term Ends

SPRING TERM

Monday, April 7 ............................................. Registration of Students
Tuesday, April 8 ............................................. Recitations Begin
Friday Noon, June 20 ....................................... Spring Term Ends
Saturday, June 21 ........................................... Alumni Day
Sunday, June 22 .............................................. Baccalaureate Address
Monday, June 23 ............................................. Commencement

1930

SUMMER SESSION

Monday, June 30 ............................................. Registration of Students
Tuesday, July 1 .............................................. Recitations Begin
Friday, August 8 ............................................. Summer Session Ends

FALL TERM

Monday, September 22 to Wednesday, September 24 .......... Freshman Days
Tuesday, September 23 ..................................... Registration of Freshmen
Wednesday, September 24 ................................... Registration of Upper Classmen
Thursday, September 25 ..................................... Recitations Begin
Wednesday, December 17 ..................................... Fall Term Ends

1931

WINTER TERM

Monday, January 5 ........................................... Registration of Students
Tuesday, January 6 ........................................... Recitations Begin
Friday, March 27 ............................................. Winter Term Ends
SPRING TERM

Monday, April 6 ........................................ Registration of Students
Tuesday, April 7 ......................................... Recitations Begin
Friday Noon, June 19 .................................... Spring Term Ends
Saturday, June 20 ....................................... Alumni Day
Sunday, June 21 .......................................... Baccalaureate Address
Monday, June 22 .......................................... Commencement

SUMMER SESSION

Monday, June 29 .......................................... Registration of Students
Tuesday, June 30 .......................................... Recitations Begin
Friday, August 7 .......................................... Summer Session Ends
THE STATE BOARD OF EDUCATION

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

THE STATE SUPERINTENDENT OF PUBLIC INSTRUCTION

The Hon. Webster H. Pearce

THE OFFICERS OF ADMINISTRATION

Dwight B. Waldo, A. M., LL.D. ................................. President
John C. Hoekje, A.B. ......................................... Registrar
Bertha S. Davis .............................................. Dean of Women
Ray C. Pellett, A.M. .......................................... Dean of Men
Frank E. Ellsworth, A.B. ................................. Director of Training Schools
William H. Cain, A.M. .................................. Principal Western State High School

THE FACULTY

The Department of Art

Lydia Siedschlag
Graduate Chicago Art Institute.

Selma E. Anderson
Graduate Chicago Art Institute

Ida N. Chambers, Ph.B.
Graduate Art Institute of Chicago; Ph. B., University of Chicago.

Verna Fenstermacher
Western State Teachers College.

Hazel Sinaiko
B. S., University of Wisconsin; Chicago Art Institute.

Nina Ward
Penn. Academy Art.

The Department of Biology

LaVerne Argabright, A. M.
Ph. B., The University of Chicago; A. M., Teachers College, Columbia University.

Harold B. Cook, M. S.
A. B., Cornell College; M. S., Iowa State College; Rush Medical College,
University of Chicago.

Henry N. Goddard, Ph. D.
Ph. B., Ph. D., University of Michigan.

Merrill R. Wiseman, A. B.
A. B., Ohio Northern University; University of Michigan.

The Department of Chemistry

James W. Boynton, A. B.
A. B., Western State Teachers College; University of Michigan.

Robert J. Eldridge, M. S.
B. S., Kalamazoo College; M. S., The University of Chicago.
The Department of Commerce

EUGENE D. PENNELL
University of Minnesota; University of Michigan.
BERTHA M. LEIGHTON, B. S. Ed.,
Boston University; Simmons College; University of Vermont.
EMMA WATSON
Michigan State Teachers College; Gregg School; Columbia University.

The Department of Education and Psychology

PAUL V. SANGREN, Ph. D. (Director Research Dept.)
A. B., Michigan State Normal College; A. M., Ph. D., University of Michigan.
HOMER L. J. CARTER
Michigan State Normal College; B. S., Teachers College, Detroit.
MANLEY M. ELLIS, Ph. D.
Michigan State Normal College; A. B., A. M., Ph. D., University of Michigan.
BELMONT FARLEY, Ph. D. (Publicity)
Pd. B., Missouri State Teachers College; B.S., University of Missouri; A. M., Ph. D., Columbia University.
WILLIAM HALNON, Ph. D.
A. B., Dublin College; Trinity College, Dublin, Ireland; Ph. D., Indiana University.
DAN J. HEMINGWAY, B. S.
B. S., Teachers College, Columbia University.
ROBERTA HEMINGWAY, B. S.
B. S., Teachers College, Columbia University.
GEORGE H. HILLIARD, Ph. D.
A. B., A. M., Ph. D., State University of Iowa; Columbia University.
RAY C. PELLETT, A. M.
A. B., A. M., University of Michigan.
EFFIE B. PHILLIPS, A. M.
B. S., University of Minnesota; A. M., Teachers College, Columbia University.
HENRY J. PONITZ, A. M. (Principal Royal Oak)
B. Ph. University of Chicago; A. M., Teachers College, Columbia University.
ORRIN E. POWELL, A. M.
Western State Teachers College; A. B., Kalamazoo College; A. M., Teachers College, Columbia University.
ELLEN PATRICIA REIDY, A. B.
A. B., Clarke College, University of Chicago.
ROXANA A. STEELE, A. M.
B. S., A. M., Teachers College, Columbia University.
ELMER H. WILDS, Ed. M.
A. B., Allegheny College; A. M., University of Chicago; Ed. M., Harvard University; Teachers College, Columbia University.

The Department of English

GEORGE SPRAU, A. M.
A. B., A. M., Ohio University; A. M., Harvard University.
AMELIA DISCOMB, A. B.
A. B., Kalamazoo College; University of Michigan.
EDITH M. EICHER, A. M.
A. B., Morningside College; A. M., Columbia University.
LORENA MARSH GARY, A. B.
A. B., Western State Teachers College, University of Chicago.
FACULTY

FRANCIS LITTLE, A. B.
A. B., Western State Teachers College.

JAMES R. MASTERSOY, A. M.
A. B., Western State Teachers College; A. M., Harvard University.

LUCILE NOBBS, A. M.
A. B., Kalamazoo College; A. M., University of Michigan; University of Chicago.

ELEANOR OSBORNE, A. M.
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HERBERT SLUSSER, A. M.
A. B., A. M., University of Michigan.

FRANCES SWAIN, A. M.
A. B., A. M., University of Michigan.

FRANCES THOMAS, A. M.
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LOUISE J. WALKER, A. M.
A. B., Albion College; A. M., Teachers College, Columbia University.

The Department of Geography and Geology

LOUISE BOSWELL, S. B.
S. B., The University of Chicago.

BELLE STRUNK, S. B.
S. B., The University of Chicago.

LENA SEAS, S. B.
S. B., The University of Chicago.

The Department of Health

ELLIS J. WALKER, Ph. B., R. N.
Ph. B., University of Wisconsin; Augustana Training School for Nursing, Chicago, Illinois.

KATHERINE E. STANKARD, B. S., R. N.
B. S., Teachers College, Columbia University; R. N., Mary Miller Hayes School of Nursing, Fremont, Ohio.

The Department of History and Social Sciences

SMITH BURNHAM, A. M.
A. B., A. M., Albion College.

ELIZABETH L. BARBOUR, A. M.
A. B., Wellesley College; A. M., School of Political Science, Columbia University.

DELLA B. BARNETT, A. M.
A. B., Grinnell College; A. M., The University of Chicago.

HOWARD F. BIGelow, A. M.
A. B., Wesleyan University; A. M., Harvard University.

LEONARD KERChER, A. M.
A. B., A. M., University of Michigan.

FLOYD W. MOORE, A. M.
A. B., Albion College; A. M., University of Michigan; Northwestern University

WILLIAM J. RHYNsburGER, A. M.
Ph. B., Central College, Iowa; A. M., University of Michigan.

ROBERT R. RUSSELL, Ph. D.
A. B., McPherson College; A. M., University of Kansas; Ph. D., University of Illinois.
NANCY E. SCOTT, Ph. D.
A. B., A. M., Indiana University; Ph. D., University of Pennsylvania;
Charles University, Prague.

GRACE EDITH SEEKELL, A. B.
A. B., University of Michigan.

DAVID CARL SHILLING, A. M.
Pd. B., Ohio Northern University; A. B., Miami University; A. M.,
University of Wisconsin.

CHARLES R. STARRING, A. M.
A. B., A. M., Columbia University.

OSCAR S. TRUMBLE, A. M.
A. B., A. M., University of Michigan.

The Department of Home Economics

MARY A. MOORE
Teachers College, Columbia University.

RUTH V. SCHUMACHER, A. M.
B. S., Iowa State College; A. M., Teachers College, Columbia University.

The Department of Languages

ELIZABETH T. ZIMMERMAN, A. M.
A. B., University of Michigan; A. M., University of Wisconsin; Uni-
versity of Berlin; University of Heidelberg; American Academy at
Rome.

H. P. GREENWALL, A. M.
B. L., Ohio Wesleyan University; A. B., Western State Teachers Col-
lege; A. M., Teachers College, Columbia University; University of
Berlin; University of Mexico.

Z. EILENE LAMB, A. M.
A. B., University of Michigan; A. M., Columbia University.

MARIE MATHILDE STECKELBERG, A. M.
A. B., University of Nebraska; A. M., Teachers College, Columbia
University.

MARION TAMIN, A. M.
University of Caen (France); Ph. B., University of Chicago; A. M.,
Teachers College, Columbia University.

MYRTLE WINDSOR, A. B.
A. B., University of Michigan; University of Chicago.

The Department of Manual Arts

CHAS. NICHOLS, A. M.
A. B., Western State Teachers College; A. M., University of Mich-
igan; University of Wisconsin.

GILMAN LANE, A. B.
A. B., Western State Teachers College.

CARL V. LINDEMAN, M. S.
A. B., Des Moines University; M. S., Iowa State Teachers College.

ELMER C. WEAVER, B. S.
Western State Teachers College; B. S., Teachers College, Columbia
University.

EDWARD R. WOODS, B. S.
B. S., Western State Teachers College; State Normal College, Ypsilanti.
The Department of Mathematics

JOHN P. EVERETT, Ph. D.
A. B., A. M., University of Michigan; Ph. D., Columbia University.

HUGH M. ACKLEY, A. M.
A. B., A. M., Olivet College; The University of Chicago.

WILLIAM H. CAIN, A. M.
A. B., University of Michigan; A. M., Teachers College, Columbia University.

PEARL L. FORD, A. B.
A. B., Western State Teachers College.

JERKIE LEE HART, A. B.
A. B., Western State Teachers College.

The Department of Music

HARPE C. MAYLIE
Michigan State Normal College; Columbia University; Student in Paris with Jean de Reszke, Oscar Seagle, and Percy Rector Stephens.

GEORGE E. AMOS
Northwestern State Normal School, Oklahoma; Bethany Conservatory of Music; Chicago Musical College; Wichita Conservatory of Music.

LEOTI C. BRITTON
Western State Teachers College; Northwestern University; Vineland Training School, University of Pennsylvania; Teachers College, Columbia University.

H. GLENN HENDERSON
Michigan Conservatory of Music; Student in Paris with Moskowski and Guilmont.

DOROTHEA SAGE SNYDER
Western State Teachers College; Teachers College, Columbia University.

THELMA HOOTMAN TAWNEY, G. M.
G. M., Northwestern University; B. S., Western State Teachers College.

The Department of Penmanship

ETHEL SHIMMEL, A. B.
A. B., Western State Teachers College.

The Department of Physical Education for Men

JUDSON HYAMES, A. B.
A. B., Western State Teachers College; University of Michigan.

MITCHELL J. GARY, B. S.
B. S., University of Minnesota.

CHARLES MAHEER, A. B.
A. B., Western State Teachers College.

JOHN GILL, A. B.
A. B., Western State Teachers College.

J. TOWNER SMITH
Western State Teachers College

The Department of Physical Education for Women

CRYSTAL WORNER, A. M.
A. B., Michigan State Normal College; A. M., University of Michigan.

DORIS HUSSEY, B. S.
Sargent School for Physical Education, Cambridge, Massachusetts; B. S., Western State Teachers College.
DOROTHY VESTAL, B. S.
Sargent School of Physical Education; B. S., University of Michigan.

MILDRED STEPHAN, B. S.
Battle Creek College; B. S., University of Oregon.

The Department of Physics

JOHN E. FOX, A. M.
A. B., The University of Chicago; A. M., University of Pennsylvania.

WALTER G. MARBURGER, M. S.
A. B., M. S., University of Michigan.

The Department of Rural Education

Wm. McKinley Robinson, A. M. (Director)
B. S., Hiram College; A. M., Teachers College, Columbia University.

ERNEST BURNHAM, Ph. D.
Ph. B., A. M., Albion College; Ph. D., Teachers College, Columbia University.

Cleora Skinner
Western State Teachers College, University of Chicago.

The Department of Speech

Laurav. Shaw, A. M.
E. S., Ohio Wesleyan University; A. M., University of Michigan.

J. Richard Biery, A. B.
A. B., Western State Teachers College; University of California; University of Southern California.

The Campus Training School

Frank Ellsworth, A. B.
A. B., Alma College; Teacher's College, Columbia University; University of Michigan.

HeLEN Barton, A. M.

HeLEN Campbell, A. B.
A. B., Northwestern University.

Ina Kelley, A. M.
A. B., Hillsdale College; A. M., Teachers College, Columbia University.

Florence McLouth, A. M.
B. S., Teachers College, Columbia University; A. M., University of Michigan.

Elizabeth McQuigg, B. S.
B. S., Teachers College, Columbia University.

Ann Reidy, A. M.
A. B., Clarke College; A. M., State University of Iowa.

Ellen Reidy, A. B.
A. B., Mt. St. Joseph College, Dubuque, Iowa.

Grace Edith Seekell, A. B.
A. B., University of Michigan.

Roxana A. Steele, A. M.
B. S., A. M., Teachers College, Columbia University.

Thelma Hootman Tawney, G. M.
B. M., Northwestern University.
THE LIBRARY

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

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

FLORENCe FOWLER, A B., Reference
A. B., University of Missouri; B. S., in Library Science, Columbia University School of Library Service.

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

PHOEBE LUMARRE, A. B., Cataloguer
A. B., Western State Teachers College; B. S., Simmons College School of Library Science.

PAUL RANDALL, A. B., Circulation
A. B., Western State Teachers College; B. S., in Library Science, University of Illinois Library School.

OFFICES, ETC.

John C. Hoekje, A. B. .................................................. Registrar
Sara Ackley ............................................................... Manager, Co-operative Store
Helen Bates .............................................................. Co-operative Store
Blanche Draper ......................................................... Editor, Teachers College Herald
Eva Falk ................................................................. Clerk, Records Office
Margaret Feather ..................................................... Clerk, Dean of Men
Alice Haefner .......................................................... Clerk, Records Office
Dorothy Haight ........................................................ Clerk, Records Office
Bernice Hessellink .................................................. Financial Secretary
Lloyd Jesson ............................................................. Secretary to the President
Eunice Jones .......................................................... Clerk, Dean of Women
Margaret Mabie ........................................................ Clerk, Main Office
Cornelius MacDonald ................................................ .Receiving Clerk
Myrtle MacDonald ....................................................... Clerk, Registrar
Grace Moore .......................................................... Cafeteria
Maxine Noecker ........................................................ Clerk, Main Office
Mary Ruthrauff ....................................................... Clerk, Rural Department
Lucille Sanders ........................................................ Clerk, Rural Department
Helene Hirsch Shull .................................................. Clerk, High School Office
Annie Bell Sibley ...................................................... Appointment Office
Alice Smith .............................................................. Appointment Office
Leah Smith ............................................................. Extension Secretary
Marion Wade ........................................................... Research Office
Marion Gribble White ................................................ Appointment Office
COMMITTEES OF THE FACULTY

1929 Summer Session

1. Appointment
   Ellsworth, Davis, Hoekje, F. Moore, Robinson

2. Assembly
   F. Moore, Hoekje, Maybee, Shaw

3. Athletic Board
   Hoekje, Eicher, Sangren

4. Bulletins
   Hoekje, Eicher, Sangren

5. Curricula
   Sangren, Ellsworth, Everett, Hoekje, F. Moore, Robinson, Steele

6. Curricula Counsellors

<table>
<thead>
<tr>
<th>Curriculum</th>
<th>Freshmen</th>
<th>Upper Classmen</th>
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<tbody>
<tr>
<td>A. B. Degree</td>
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<tr>
<td>B. S. Degree</td>
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<td>Business Administration</td>
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<td>Art</td>
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<td>Commerce</td>
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<tr>
<td>County Cert.: 1 yr. Cur.</td>
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<td>Early Elementary</td>
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<td>Home Economics</td>
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<td>Junior High School</td>
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<td>Later Elementary</td>
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<tr>
<td>Manual Arts</td>
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<tr>
<td>Music</td>
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<tr>
<td>Phys. Ed. for Men</td>
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<td>Phys. Ed. for Women</td>
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<td>Rural Education</td>
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<td>Senior High School</td>
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<td>Three Year Certificate</td>
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<tr>
<td>Unclassified</td>
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7. Curricula Enrolers

<table>
<thead>
<tr>
<th>Curriculum</th>
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<tbody>
<tr>
<td>A. B. Degree—Everett, Greenwall, Osborn, Shilling</td>
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<tr>
<td>B. S. Degree—Blair, Fox, Hillard</td>
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<tr>
<td>Business Administration—Pennell</td>
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<tr>
<td>Art—Siedschlag, Anderson</td>
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<tr>
<td>Commerce—Pennell</td>
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<tr>
<td>County Certificates, 1 year Curriculum—Robinson, Sanders</td>
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<tr>
<td>Early Elementary—Phillips, Seekell</td>
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<tr>
<td>Home Economics—Moore, Schumacher</td>
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<tr>
<td>Junior High School—Wells, Ford, Heathcote, F. Moore, Rawlinson</td>
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<tr>
<td>Later Elementary—Steele, Argabright, Halnon, Powell, Strunk</td>
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<tr>
<td>Manual Arts—Sherwood, Weaver</td>
<td></td>
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<tr>
<td>Music—Maybee, Henderson</td>
<td></td>
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<tr>
<td>Phys. Ed. for Men—Hynes, Read</td>
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<tr>
<td>Phys. Ed. for Women—Werner, Hussey</td>
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<td>Rural Education—Robinson, E. Burnham</td>
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<tr>
<td>Senior High School—Zimmerman, Nobbe, Powell</td>
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<tr>
<td>Three Year Certificate—Robinson</td>
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<tr>
<td>Unclassified—Bartoo, Ellis</td>
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</tr>
</tbody>
</table>

8. Extra Studies and Scholarship
   Hoekje, Davis, Sangren

9. Friendship
   Argabright, Zimmerman

10. General Advisory Committee
    Ellsworth, Sangren

11. Health
    E. Walker, Davis, Ellsworth

12. Social Life
    Davis, Barbour, Greenwall, Heathcote, Siedschlag, Worner

13. Student Affairs
    Wells, Blair, Eicher, Hoekje, F. Moore, Steele

14. Student Organizations
    Y. M. C. A.—Ackley, Hynes
    Y. W. C. A.—Barbour, Phillips

N. B. In each case the person whose name appears first is the Chairman of the Committee.
THE TWENTY-SIXTH 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 and 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 1928, 1,951 students of collegiate rank were enrolled; 148 Life Certificates and 87 Limited Certificates were granted, and 50 degrees conferred. The steady growth in attendance indicates that these sessions have been of distinct service to prospective and experienced teachers.

The twenty-sixth Summer Session will open June 24 and continue until August 2. Students will be enrolled and classified on Monday, June 24. Instruction will begin in all classes on Tuesday, June 25. Nearly 200 courses will be available, and a teaching staff of some 100 will be employed. 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 Grand Rapids and Indiana; the Chicago, Kalamazoo, and Saginaw; and the South Haven Branch of the Michigan Central railway, together with the Michigan United Railway, a network of paved and graveled highways, and the trunk lines, U. S.-12, U. S.-131, and M-43, all following post glacial drainage lines radiating from here, make it easily the hub of southwestern Michigan and a great business and professional 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 a classroom building. 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 school. 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 manual arts and home economics. The center of the building is an open light-well forming a rotunda with stage for children's assemblies and a fireplace.

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, and 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 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 grown, feeder cattle are being kept, pure seed is grown, a fine flock of laying hens is housed 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 or 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 school 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 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 school now have the exclusive use of the gymnasium which was formerly shared with the men of the school. The floor space is 110x68 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.

SPECIAL FEATURES

LECTURES, ENTERTAINMENTS, EXCURSIONS, CONFERENCES

Six evening entertainments will be offered to Summer session students in place of the usual Chautauqua program. In addition, departmental 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 1929. Announcement of each event will be made in the Teachers College Herald.

BUREAU OF EDUCATIONAL MEASUREMENT AND RESEARCH

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

The Bureau has on hand a large number of intelligence and educational tests to serve as sample and informational material; it will answer ques-
SPECIAL FEATURES

Among the special features of the College of Education is the Department of Education and Psychology. This department carries on a large number of activities relating to measurement and research activities; it carries on statistical work necessary to answer questions relative to educational problems; it edits bulletins or 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.

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 62 and 63. Various departments offer courses dealing with the teaching of their particular subjects.

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 recreational 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, skating, 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.

This college is a member of the Michigan Collegiate Conference which promotes intercollegiate athletics among its members and requires, among other things, that its members enforce the one-year residence rule, a high standard of scholarship, and emphasizes those qualities which make for the finest and best in athletics.

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.
Teachers, principals, and superintendents, though not actively engaged in coaching, may also find these courses profitable as an aid to intelligent supervision and direction of athletics. The work of this "Summer School for Athletic Coaches" is conducted directly by the experienced coaching corps of the department supplemented by outside instructors who have made a name for skill in special lines of work.

All work is intensely practical since field, floor, and track work are closely coupled to classroom theory. An interclass baseball league is conducted and a program of intra-mural sports carried out where workable ideas of service in general physical education administration may be gained.

Those who enroll in this school will be expected to furnish for themselves such equipment as is necessary for the practical work of the courses. There is no charge for admission to this school other than the regular tuition and fees.

**ORCHESTRA**

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

**THE 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.

**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, which are provided with nets and frequently reconditioned. The city golf links are within one mile of the campus and 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 acquaintanceship of faculty and students.

**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 the 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 each student in his class work, practice teaching, and general school activities. An Appointment Secretary gives 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, and (4) a record of his previous teaching experience, if
any. 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 are also filled satisfactorily through correspondence.

Appointment service is free to each graduating class. An earnest effort is made to place each graduate in as good a position as his record in the institution justifies. The Bureau likewise aims to afford equally satisfactory re-placement service to former graduates seeking better positions.

**TRAINING SCHOOL FACILITIES**

The Training School Building, which houses the pre-high school work, is a model building of its kind, with facilities for effective teaching.

Grades one to six will be in session daily 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 primary, intermediate, and upper elementary work. Demonstration lessons 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.

**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 rural 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 56 and 72. Advanced courses are offered each term designed to be of special service to those preparing for positions as county normal or helping teachers. Seven 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 pages 80, 81 and 82 for kinds of certificates granted see pages 51, 52, 53, 55 and 56.)

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 continue a demand in rural elementary school positions for students completing two years of preparation, the two-year rural elementary 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 Teachers 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.

REQUIRED PROFESSIONAL TRAINING

The Western State Teachers College will afford every convenience for beginning teachers and will co-operate to the fullest extent with the State Department of Public Instruction and the county boards of school examiners 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. 16 (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 office 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 56), 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 the 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.

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: 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 56) 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, provided the certificate is recorded in the office of the county commissioner of schools of the county or in the office of the certificating 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. 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 certificating 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 last certificate.

Additional Information Concerning Certification

3. a. A person who has completed the work required for a year of professional training as outlined on page 56 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.

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.

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.

THE 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 residence 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, usually on Saturdays, in centers within range
of the school, or by means of carefully organized courses offered by correspondence. As far as possible, courses are equivalent to corresponding resident courses.

Residence 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, Michigan.

THE ALUMNI ASSOCIATION

June 19, 1906, the graduates of the first two classes began the organization of the Western State Teachers College Alumni Association. Twenty-five classes are now associated in the organization with a total membership of more than 10,000 graduates. The alumni secretary, whose office is in the Administrative Building, may be consulted any time for up-to-date information regarding any alumnus or alumna of Western State. The office of the alumni secretary is equipped with the Kardex Filing System which insures an accurate method of reference to the alumni directory.

Each year headquarters are maintained at the 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. The annual Homecoming Day finds larger and larger numbers of the alumni back to their Alma Mater for a week-end on the campus. In June, at commencement time, there are always the reception for the alumni and a banquet for its members.

The alumni enjoy frequent mail from the College 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 10,000 students who have graduated are developing rapidly. Unit organizations in localities where there are enough members of the alumni to warrant such organization are encouraged. The alumni secretary is glad to assist in any plans of this kind.

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.

**STUDENT ADVISORY SYSTEM**

Experience has demonstrated that college students, especially beginners, need to be advised. During the past year Western State Teachers College has taken rank among the leaders in this type of activity. Immediately upon registration each Freshman is assigned to a Faculty 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.

**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.

**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.

**THE TEACHERS COLLEGE HERALD**

The "Herald," the official weekly publication of the college, is issued as a six page paper 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 a paid subscriber. The alumni give the paper cordial support.

**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.
EXPENSES

FEES

Tuition Fees

For residents of Michigan there is a tuition fee for the Summer session of $3.00; for non-residents of Michigan the fee is $6.00. 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 may not have County Normals.

Miscellaneous Fees

A fee of $6.75 is collected for the support of athletics, 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.

Graduation Fees.

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

Late Enrollment Fee

By action of the State Board of Education, all students who enroll after opening day will be charged an additional fee of $2.00. No exceptions will be made to this rule.

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

ESTIMATE OF EXPENSES

An estimate of the expenses for one term may be formed from the following table:

<table>
<thead>
<tr>
<th>Item</th>
<th>Cost Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Room (one-half of a double room)</td>
<td>$15.00 to $18.00</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>$9.75 to $9.75</td>
</tr>
<tr>
<td><strong>Total for 6 weeks</strong></td>
<td><strong>$70.75 to $92.75</strong></td>
</tr>
</tbody>
</table>

BOARD AND ROOM

A list of approved rooming and boarding houses for men can be obtained from the Dean of Men, and for women from the Dean of Women. It is advisable for students to see the rooms before definitely engaging them.

Rooms are available in the vicinity of the school sufficient to house 1,800 students. The cost of room and board varies. The average cost of double rooms is from $2.00 to $3.00 per week per person. The average cost of single rooms is from $3.00 to $4.00 per week. The average cost of board is from $5.50 to $6.50 per week.
RENUMERATIVE OCCUPATION

Kalamazoo offers 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. For those who have had experience in business lines, there is occasional demand.

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 and to her all applications for work at the noon hour should be made.
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 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

Admission on Certificate

(Effective Sept. 1, 1928)

A graduate of a four-year high school, accredited by the University of Michigan, may be admitted to any one of the four state teachers colleges provided that he is recommended by the principal of the high school and that he submits credits as follows:

I. Prescribed Units.*

<table>
<thead>
<tr>
<th>Subject</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>3</td>
</tr>
<tr>
<td>Foreign Language**</td>
<td>2</td>
</tr>
<tr>
<td>History</td>
<td>1</td>
</tr>
<tr>
<td>Algebra</td>
<td>1</td>
</tr>
<tr>
<td>Plane Geometry</td>
<td>1</td>
</tr>
<tr>
<td>Laboratory Science</td>
<td>1</td>
</tr>
<tr>
<td>(Physics, Chemistry, Botany, or Zoology)</td>
<td></td>
</tr>
</tbody>
</table>

II. Additional Units from List A

<table>
<thead>
<tr>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
</tr>
</tbody>
</table>

III. Additional Units from List A or B

<table>
<thead>
<tr>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
</tr>
</tbody>
</table>

15
ENTRANCE REQUIREMENTS

List A

- Geometry, 1 or 1½ units
- Trigonometry, ½ unit
- Physics, 1 unit
- Chemistry, 1 unit
- Botany, ½ or 1 unit
- Zoology, ½ or 1 unit
- Physiology, ½ unit
- Physiography, ½ or 1 unit
- Geology, ½ unit

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.

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.

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.
ROUTINE OF REGISTRATION, CREDITS, ETC.

GENERAL INSTRUCTIONS FOR ENROLLMENT

Registration for the Summer Session occurs on Monday, June 24. A circular giving detailed information relative to registration may be obtained at the Information Desk.

CLASSIFICATION

Students are classified as 1, 2, 3, or 4. Students with fewer than nine units of credit are 1 (first year students); with nine to twenty-four units inclusive, are 2; with twenty-five to thirty-four units inclusive, are 3; with more than thirty-four units, are 4. Beginning students entering without advanced credit are always classified as 1.

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

Numbers of courses available through extension have Cl added to indicate class work, and Co to indicate correspondence work.
The various consecutive terms in a given year subject are designated by the letters A, B and C.

CREDIT IN TERM HOURS

The unit of credit is the term hour and the number of term hours credit given for a course generally indicates the number of class periods a week. In the Summer Session, most classes meet for two consecutive hours. Eight term hours of credit is a normal class load during the Summer Session.

EXTRA STUDIES.

It is deemed more desirable for a student to do work of a high grade of excellence than to take an extra subject with mediocre success or because of the additional class load to deprive himself of the time to take advantage of the numerous opportunities for gaining inspiration and help through other agencies than the classroom. Permission to carry an extra subject is usually granted only to those whose previous record has been superior.

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 interests pertaining to the welfare of the student body. They may be consulted freely on any matter in which they can be of assistance.
The Teachers 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. To ensure desirable housing conditions, frequent inspection is made of rooming houses. *Students are permitted to room only in such houses as have been approved.*

**MARKING SYSTEM**

Each course receives one grade, which combines the results of class work and all tests but is lowered by absences. 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>(Per 4 term hours credit)</th>
<th>Honor Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Excellent</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>B</td>
<td>Good</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>C</td>
<td>Fair</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>D</td>
<td>Passing</td>
<td></td>
<td>0</td>
</tr>
<tr>
<td>E</td>
<td>Failure</td>
<td></td>
<td></td>
</tr>
<tr>
<td>I</td>
<td>Incomplete</td>
<td></td>
<td></td>
</tr>
<tr>
<td>W</td>
<td>Withdrawn</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

The mark I means that the student has not finished the work of the course, through illness, unsatisfactory work, or some other cause, *and may be given opportunity to complete it.*

The mark of E means that the student has failed. I's must be removed during the next succeeding term (except when the student does not return, and then within one year) or they automatically become E's.

E's and W's can be removed only by taking again all the work involved. The mark of W will be given only when the Registrar issues an *official* Drop Slip. If a student withdraws from a class without the Registrar's permission, a mark of E will be given.

**HONOR POINTS**

The minimum number of honor points required of each student for graduation equals the number of subjects carried. Normally a student in a two-year curriculum carries 24 subjects. He should earn at least 24 honor points. If he should fail in one subject, he would need to earn 25 honor points; if he should fail in three subjects he would need to earn 27 honor points.
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 RESIDENCE 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 144 term hours or three 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.

3. For the Five Year Certificates (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 term;
   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 residence credit there earned, 16 term hours shall satisfy the residence 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 residence credit there earned, 16 term hours shall satisfy the residence 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 residence 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 residence 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.
CREDIT RELATIONS WITH 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 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.

THE CURRICULA

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

Specific details of the curricula for the various degrees conferred and certificates granted by Western State Teachers College appear in this publication as follows:

1. Curricula four-years in length leading to the Degree of—
   Bachelor of Arts 36, 38, 49
   Bachelor of Science 37, 38, 49

2. Curricula three-years in length leading to a Life Certificate in—
   Art 39
   Art and Music 40
   Commerce 41
   Early Elementary 42
   Home Economics 43
   Junior High School 44
   Later Elementary 45
   Manual Arts 46
   Music 47
   Music and Art 40
   Physical Education for Men 48
   Physical Education for Women 50
   Rural Elementary 51
   Rural High School 53
   Senior High School 54

3. Curricula two-years in length leading to the five year certificate in—
   Early Elementary 42
   Junior High School 44
   Later Elementary 45
   Rural Elementary 52
   Rural High School 53
   Senior High School 54
4. Curriculum one year and one summer term in length leading to the three-year certificate—
   Three-Year Certificate Curriculum 55.

5. Curriculum one year in length meeting state professional requirements—
   One Year Professional Training Curriculum 56.
   To study in detail the requirements in professional training for teachers in the State of Michigan and the conditions under which the student may receive a certificate after having completed the curriculum outlined the reader is referred to pages 21-23 of this publication.
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 is the same for all of the Teachers Colleges of Michigan, and 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, and 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 preceding the time of his graduation.

Minimum term hours required—192.
THE CURRICULA

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 101 ........................................ 4 term hours
- Educational Psychology 202 .................................... 4 term hours
- Principles of Teaching 201 ....................................... 4 term hours
- Teaching 201, 202 .................................................. 8 term hours
- Elective ........................................................................ 4 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 terms hours required—192.
# BUSINESS ADMINISTRATION CURRICULUM

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

(4 years in length)

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

1. **Psychology and Education:**
   - Introductory Psychology 101 .................................. 4 term hours
   - Educational Psychology 202 .................................... 4 term hours
   - Principles of Teaching 201 ..................................... 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** ............... 12 term hours

4. **Mathematics:**
   - Mathematics 100 A, B, C; or 103 A, B, C; or 104 A, B, C ........ 12-15 term hours
   - Statistics 211 .................................................... 4 term hours

5. **Laboratory Science:**
   - Chemistry, Physics, Geology, Botany, Biology ..................... 12 term hours

6. **History and Social Science other than Economics:**
   - U. S. History 101 C (101 A, B, elective) .......................... 4 term hours
   - Economic Development of United States 303 ........................ 3 term hours
   - Political Science 201 A, B, C ................................... 12 term hours

7. **Economics:**
   - Principles of Economics 201 A, B .................................. 8 term hours
   - Financial Organization 202 ........................................ 4 term hours
   - General Business Administration 302 A, B .......................... 6 term hours
   - Corporations 303 A, B, C ......................................... 6 term hours
   - Marketing 304 A, B .................................................. 6 term hours
   - Transportation 305 A, B, C ....................................... 6 term hours
   - Business and Government 306 ..................................... 4 term hours

8. **Commerce:**
   - Accounting 201 A, B, C ............................................ 12 term hours
   - Business Law 304 A, B, C .......................................... 9 term hours

9. **At pleasure or to meet the requirements of A. B. or B. S. degree** ................. 36 to 39 term hours

10. **Required of all students in addition:**
   - Library Methods.
   - Physical Education: 5 terms.

**Minimum term hours required—192.**
ART CURRICULUM
(Three years in length)

For the Preparation of Teachers and Supervisors of Art

1. Psychology and Education:
   - Introductory Psychology 101 .................................. 4 term hours
   - Educational Psychology 202 .................................. 4 term hours
   - Principles of Teaching 201 .................................. 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 .................................. 27 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.

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, consecutive courses should be elected in ful-
  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 101 .......................... 4 term hours
   - Educational Psychology 202 .......................... 4 term hours
   - Principles of Teaching 201 .......................... 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.

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 fulfillment 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.
COMMERCE CURRICULUM
(Three years in length)

For the Preparation of Teachers of Commerce

1. Education and Psychology:
   - Introductory Psychology 101 ........................................ 4 term hours
   - Educational Psychology 202 ........................................ 4 term hours
   - Principles of Teaching 201 ....................................... 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 ........... 22 or 25 term hours

7. Required of all students in addition.
   - Library Methods, Penmanship, Physical Education: 5 terms.

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 101 ........................................ 4 term hours
   - Educational Psychology 202 ........................................ 4 term hours
   - Principles of Teaching 201 ........................................ 4 term hours
   - Teaching 201, 202 .................................................. 8 term hours
   - Psychology of Reading 104 ......................................... 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 ......................................................... 39 term hours

10. Required of all students in addition:
    - Library Methods.
    - Penmanship.
    - Physical Education; 5 terms.

   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 202, 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 101 ........................................ 4 term hours
   Educational Psychology 202 ........................................ 4 term hours
   Principles of Teaching 201 ........................................ 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 or 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 and Child Care 315 ............................... 4 term hours

8. At pleasure ............................................................... 19 term hours

9. Required of all students in addition:
   Library Methods, ....................................................... 5 terms.
   Physical Education .....................................................

Minimum terms 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.
WESTERN STATE TEACHERS COLLEGE

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 101 ........................................... 4 term hours
   - Educational Psychology 202 ............................................ 4 term hours
   - Principles of Teaching 201 .............................................. 4 term hours
   - Teaching 201, 202 ......................................................... 8 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 miscellaneously with the consent of the advisor.

7. Required of all students in addition:
   - Library Methods.
   - Penmanship.
   - Physical Education:
     - For men—five terms.
     - For women—five terms, including course 202.

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 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 202 and Teaching 202.
# LATER ELEMENTARY CURRICULUM

(Three years in length)

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

1. **Psychology and Education:**
   - Introductory Psychology 101 ........................................ 4 term hours
   - Educational Psychology 202 ........................................ 4 term hours
   - Principles of Teaching 201 ........................................ 4 term hours
   - Psychology of Reading 104 ........................................ 4 term hours
   - Teaching 201, 202 ............................................... 8 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** ................................................ 59 term hours
   (At least twelve 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 course 202.

**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 202 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 101 ................. 4 term hours
   - Educational Psychology 202 .................. 4 term hours
   - Principles of Teaching 201 ................... 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:
   - Mechanical Drawing 111 A, B ................ 8 term hours
   - Household Mechanics 102A .................. 4 term hours
   - Advanced Benchwork 103A ................... 4 term hours
   - Wood Finishing 207 A, B .................... 5 term hours
   - Sheet Metal 222 ............................. 4 term hours
   - Shop Organization 301 .................... 5 term hours
   - Electives .................................... 23 or 24 term hours

7. At pleasure (Not in Manual Arts) ............... 17 or 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.
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.
MUSIC CURRICULUM
(Three years in length)

For the Preparation of Teachers and Supervisors of Music

1. Psychology and Education:
   Introductory Psychology 101 ...................... 4 term hours
   Educational Psychology 202 ...................... 4 term hours
   Principles of Teaching 201 ...................... 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) ....................... 11 term hours

8. Required of all students in addition:
   Library Methods. ..................................
   Physical Education: 5 terms.

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 count 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 101 ..................................... 4 term hours
   - Educational Psychology 202 ..................................... 4 term hours
   - Principles of Teaching 201 ...................................... 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 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
   - Kinesiology 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
   - First Aid and Athletic Training 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 Recreation 406 ..................... 4 term hours

7. At pleasure (Not in Physical Education) .............................................. 16 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 MEN CURRICULUM
(A.B. or B.S. Degree)

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

1. Psychology and Education:
   - Introductory Psychology 101
   - Educational Psychology 202
   - Principles of Teaching 201
   - Teaching 201, 202, 203
   - Introduction to Educational Measurements 206
   - School Administration 316
   4 term hours
   4 term hours
   4 term hours
   .. 12 term hours
   .. 4 term hours
   .. 4 term hours

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

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

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

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

6. Physical Education:
   - History of Physical Education 202
   - Kinesiology 205
   - Psychology of Coaching 210
   - Principles and Technique of Gymnastic Teaching 301
   - Theory and Practice of Individual Gymnastics 302
   - First Aid and Athletic Training 312
   - Football Technique 313
   - Basketball Technique 315
   - Physiology of Exercise 304
   - Baseball Technique 317
   - Track and Field Technique 319
   - Swimming 327
   - Camping and Scouting 332
   - Thesis and Seminar 401 A, B, C
   - Principles of Physical Education 403
   - Organization and Administration of Physical Education 404
   - Playground and Community Recreation 405
   - Program Problems in Physical Education 406
   3 term hours
   4 term hours
   2 term hours
   3 term hours
   3 term hours
   1 term hour
   4 term hours
   6 term hours
   3 term hours
   4 term hours
   2 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—192.
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 101 ....................................... 4 term hours
   - Educational Psychology 202 ....................................... 4 term hours
   - Principles of Teaching 201 ....................................... 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:
   - 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
   - Child Hygiene and Health Procedure 114 ..................... 4 term hours

6. Physical Education:
   - Swedish Theory and Practice 212 ................................ 2 term hours
   - Health Education 215 ............................................. 4 term hours
   - Methods 217 ........................................................ 4 term hours
   - Rhythmic Plays and Singing Games 218 ....................... 2 term hours
   - Playground Organization 219 .................................. 3 term hours
   - Applied Anatomy 220 ............................................ 4 term hours
   - Theory of Athletics 222 ........................................ 2 term hours
   - Theory of Games 223 ............................................ 3 term hours
   - Theory of Swimming 224 ....................................... 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 ............................. 4 term hours

7. At pleasure with consent of adviser (Not in Physical Education) .......... 13 term hours

8. 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 towards 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 Rural Elementary Schools Leading to a Life Certificate**

1. **Psychology and Education:**
   - Introductory Psychology 101 ........................................ 4 term hours
   - Educational Psychology 202 ......................................... 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 104 ........................................... 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** ......................................................... 47 term hours

9. **Required of all students in addition:**
   - Library Methods.
   - Penmanship.
   - Physical Education:
     - For men—five terms.
     - For women—five terms, including course 202.

**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 ELEMENTARY CURRICULUM
(Two years in length)

Leading to a Five Year Certificate for Teachers of Rural Elementary Schools

1. Psychology and Education:
   - Introductory Psychology 101 ........................................ 4 term hours
   - Principles of Teaching 101R ........................................ 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 .......................................................................... 11 term hours

9. Required of all students in addition:
   - Library Methods.
   - Penmanship.
   - Physical Education:
     - For men—five terms.
     - For women—five terms, including course 202.

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 HIGH SCHOOL CURRICULUM
(Three years in length)

For the Preparation of Teachers of Rural High Schools

1. Psychology and Education:
   - Introductory Psychology 101 ........................................... 4 term hours
   - Educational Psychology 202 ........................................... 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. The remaining units to be taken in groups of 12 term hours each or miscellaneously with the consent of the advisor.

7. Required of all students in addition:
   - Library Methods.
   - Penmanship.
   - Physical Education:
     - For men—five terms.
     - For women—five terms, including course 202.

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, and in agriculture, home economics, and manual arts.

3. Mature second year students who have had sufficient teaching experience and are able to do independent study, may elect work in rural education in the seminar course for third and fourth year students with the consent of the instructor. This course meets two hours per week.

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 202 and Teaching 202.
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 101 .................................................. 4 term hours
   - Educational Psychology 202 .................................................... 4 term hours
   - Principles of Teaching 201 ..................................................... 4 term hours
   - Teaching 201, 202 .................................................................. 8 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 miscellaneously with the consent of the advisor.

7. Required of all students in addition:
   - Library Methods.
   - Physical Education:
     - For men—five terms.
     - For women—five terms, including course 202.

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, and 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. These students omit Educational Psychology 202 and Teaching 202.
THREE YEAR CERTIFICATE CURRICULUM

(One year and one Summer session in length)

A Shorter Curriculum for the Preparation of Teachers of Rural Elementary Schools

The Limited Certificate curriculum requires a year and a Summer session of work beyond the four-year high schools, and leads to a certificate good for three years in Michigan schools.

Students in the Three Year Certificate curriculum are urged to elect three consecutive units, with a view of taking any Life Certificate curriculum which they may decide to enter when they return for further work.

1. Psychology and Education:
   - Introductory Psychology 101 ........................................... 4 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 104 .......................................... 4 term hours
   - American History 101, A, B, or C ............................... 4 term hours
   - Geography 101A ....................................................... 4 term hours
   - Arithmetic 101 ........................................................ 4 term hours
   - Hygiene 112 ............................................................. 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.
     For women—must include course 202.

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.
ONE YEAR OF PROFESSIONAL TRAINING

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 101 ............................................... 4 term hours
- Observation and Teaching 101 ............................................ 4 term hours
- English Composition 101A ................................................... 4 term hours
- Hygiene 112 ........................................................................... 4 term hours
- Agriculture 141 ................................................................. 4 term hours
- Psychology of Reading 104 ................................................... 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 16 term hours
from the following 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 202 ................................................... 4 term hours

(c) Required of each applicant in addition:

- Penmanship.
- Physical Education, 2 terms.

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 ex-
tension classes.

3. In order to obtain a certificate, after the completion of the course
outlined above, the student must make application to the Super-
intendent of Public Instruction at Lansing, Michigan.
COURSES OF INSTRUCTION

AGRICULTURE

111. Rural School Agriculture. 4 term hours. Mr. Corbus.

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 by the college farm.

ART

101. Teaching of Junior High School Art. 3 term hours. Miss Fenstermacher.

Lettering, color study, art appreciation, arrangement of bulletin board, pictures, flowers, correlation of the teaching of art with geography, history, and English.

Note.—This course is open to students in the Junior High School curriculum only and credit will not be given any one who has taken Art for Teachers 102.

102. Art for Teachers. 4 term hours. Miss Chambers, Miss Siedschlag, Miss Sinaiko.

This course prepares the student to direct art activities in the elementary grades. It includes such things as drawing, lettering, color theory, and paper cutting. Problems suitable for different grades and methods of presenting them to children are discussed. 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. Miss Siedschlag.

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

Note.—Required of Early Elementary students.

210. Home Furnishing. 4 term hours. Miss Chambers.

This course is planned especially for students of Household Art. Color, designs, historic furniture, and arrangement of furnishings will be studied.

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

Gesso, paintex, chemi-color, dye, and similar art materials are used in the decoration of various craft problems.

308. Advanced Art Composition. 4 term hours. Prerequisite: Art 102, 109, 208. Miss Ward.
The work centers about the study of prints and print making, etching, and woodblock printing.

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

Painting of still life and landscape in the studio and outdoors. Oil or water color is used. The course involves the study of composition, color, and good technique.

BIOLOGY

General Courses

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 102. Dr. Goddard.

It is important that the teacher understand evolution as the logical scientific attitude toward nature—the 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 and Community Health. 4 term hours. Prerequisite: one year of chemistry. Mr. Cook.

Study is made of the structure and function of favorable and unfavorable bacteria, of the lives, work, and heroism of some of those who have been associated with the development of bacteriology and with the fight against communicable diseases, and of the activities of health agencies in protecting the health of the community. Surveys of their home communities are made by the students. Some simple experiments are introduced which are suitable for use in the grades and in junior high school in suggesting ways of presenting community hygiene and the principles of infection and immunity. Stress is laid upon the responsibility of the individual for community health and of the community for individual health.

Botany

121. Elementary Botany. 4 term hours. Mr. Wiseman.

Designed for freshmen and others who have not taken botany. Devoted mainly to the structure, functions, and classification of seed plants. Classroom, 2 hours a week; laboratory, 2 double periods.
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, classifications, 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.

Nature Study

131. Biological Nature Study. 4 term hours. Miss Argabright.
The students make materials which they can use in their schools. Outline drawings of trees, birds, and flowers are colored. An aquarium and a net which can be used for water and air insects are made. Each student has an individual garden where he prepares the soil, plants the seed, and cares for the plants that he raises. By trips through the meadows and woods the student learns to recognize the trees, flowers, birds, and insects that are common inhabitants of our fields, woods, and streams. The theories and problems of biology and the ideals of nature study are given in lectures throughout the course.

135. Bird Study. 4 term hours.
The student learns to identify at least fifty birds in the field and makes colored plates of seventy-five birds. Lectures are given on the economic importance of birds, their life problems, the measures necessary for their protection, and what the United States and Michigan have done for their protection.

CHEMISTRY

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

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

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

104. **Chemistry and the Modern World.** 4 term hours. Mr. Boynton.

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. Mr. Eldridge.

Basis analysis. Classroom, 2 double periods a week; laboratory, 8 double periods a week.

201B. **Qualitative Analysis.** 4 term hours. Prerequisite: Chemistry 201A. Mr. Eldridge.

Acid analysis. Almost entirely laboratory work. A minimum of 20 hours of laboratory work per week required.

202A. **Organic Chemistry.** 4 term hours. Prerequisite: Chemistry 101 or 102. Mr. Eldridge.

The aliphatic (fatty) series are studied—paraffins, alkyl halides, alcohols, aldehydes, ketones, sugars, amines, and acids. Classroom, 3 double periods a week; laboratory, 4 double periods a week.

202B. **Organic Chemistry.** 4 term hours. Prerequisite: Chemistry 101 or 102 and 202A. Mr. Boynton.

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

303A. **Quantitative Analysis.** 5 term hours. Prerequisite: Chemistry 101 or 102, and 201 A, B. Mr. Boynton.

Gravimetric methods. Studies in precision, solubility product principles, and principles of separation. Classroom, 1 double period a week; laboratory, 8 double periods a week.

303B. **Quantitative Analysis.** 4 term hours. Prerequisite: Chemistry 101 or 102, and 201 A, B, 303A. Mr. Boynton.

Volumetric methods. Studies in acidimetry, alkalimetry, radiometry, theory of indicators, and oxidation-reduction theory. Classroom, 1 double period a week; laboratory, 8 double periods a week.

Note.—For special courses in chemistry consult the instructors.
102A. Beginning Shorthand and Typewriting. 2 term hours. Miss Leighton.

This is a beginning course in the Elementary theory of Gregg shorthand and in the technique of typewriting. The first ten lessons of the Gregg Manual, supplemented by the assignments from Speed Studies and Graded Readings, are covered.

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

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 these principles; the effect of current business transactions upon balance sheet accounts; a study of the 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.

206. Business Correspondence. 4 term hours. Prerequisite: Rhetoric 104 or equivalent. Miss Watson.

An attempt is made in this course to cover the principles of modern business writing as exemplified in the better type of letters used in commercial activities. These principles are explained, illustrated, and applied. Abundant opportunity will be given for practice in the art of business letter writing.

208. Advanced Shorthand and Typewriting. 2 term hours. Prerequisite: Shorthand and Typewriting 102 or equivalent. Miss Leighton.

This is an advanced course designed for teachers. Special attention will be given to a thorough review of principles, to accuracy of writing, to speed, and to acquiring facility in transcription.

210. General Methods of Commercial Teaching. 4 term hours. Open only to commercial teachers of experience. Miss Watson.

By class discussions, assigned readings, reports, and conferences, an effort will be made to interpret and evaluate present tendencies toward the improvement of instruction in the major subjects of the high school commercial curriculum: viz, shorthand, typewriting, bookkeeping, and junior business training. Attention will be given to recent text material, methods of presentation, results to be attained, tests and examinations, collateral material for the teacher’s use, and results of research studies pertaining to instruction.

305. Problems in Secondary Commercial Education. 4 term hours. Mr. Pennell.

In this course an analysis of modern business is made in an effort to ascertain what education for business should strive to do. An examination of secondary commercial curricula is made to determine whether or not the best interests of business and of the students are served. Certain modifications of existing curricula are considered and new subject matter examined. Considerable time is given to the investigation of recent research studies of various phases of commercial education. Some attention is given to the history and development of education for business.
EDUCATION AND PSYCHOLOGY

Education

104. Psychology of Reading. 4 term hours. Prerequisite: Psychology 101. Dr. Hilliard, Miss Reidy.

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.

201. Principles of Teaching. 4 term hours. Prerequisite: Psychology 101, 202. Dr. Ellis, Miss Steele.

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.

205. Mental Tests. 4 term hours. Prerequisite: Psychology 101, 202. Dr. Sangren.

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

206. Introduction to Educational Measurements. 4 term hours. Prerequisite: Psychology 101. 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 standard mental and school subject tests.

301. Junior High School Education. 4 term hours. Prerequisite: Psychology 101, 202, Principles of Teaching 201. Mr. Heathcote.

A survey of the field of junior high school education. Comprises a brief study of the biological and physiological 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.

302. Junior High School Problems. 4 term hours. Prerequisite: Psychology 101, 202, Principles of Teaching 201. 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 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.

303. Extra-curricular Activities. 4 term hours. Prerequisite: Psychology 101, 202, Principles of Teaching 201. Mr. Wilds.

A study and discussion of selected problems in the organization, administration and supervision of such activities as aid in training for citizenship,—debating, journalism, athletic clubs. Intended for prospective directors or advisers of student activities or home-room teachers.
306B. The Secondary School Curriculum. 4 term hours. Prerequisite: Psychology 101, 202, Principles of Teaching 201. Mr. Ponitz.

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.

310. Education of Exceptional Children. 4 term hours. Prerequisite: Psychology 101, 202. Dr. Ellis.

A beginning course in the field of special education dealing with the education of the gifted, subnormal, neurotic, delinquent, speech defective, blind and deaf, and crippled child.

316. School Administration. 4 term hours. Prerequisite: Psychology 101, 202, Principles of Teaching 201. Mr. Pellett.

A course for students preparing for work as school superintendents. Problems commonly met by school administrators will be studied in some detail. The major problems discussed are: selection and functions of boards of education and of the superintendent of schools; selection, training, tenure, and salaries of teachers; organization of teaching force and the planning of responsibility; business organization, educational organization.

330B. School Supervision. 4 term hours. Prerequisite: Psychology 101, 202, Principles of Teaching 201, Teaching 201, 202, School Supervision 330A. Miss Steele.

The diagnosis of observed instruction, suggested methods of improvement, methods of meeting teachers individually and in groups, the selection of textbooks.


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 the agencies of education to the personal achievement and utilization of a philosophy of life equal to the needs of individuals in their generation.

420. Educational Sociology. 4 term hours. Prerequisite: Sociology 201 A, B, Psychology 101, 202. Dr. Halnon.

For description of course see Sociology department, page 70.
Early Elementary Education

101. Early Elementary Education. 4 term hours. Mrs. Phillips.

A study of the physical child and the environmental conditions best suited to his normal, healthful development together with methods the school uses to promote health habits and knowledge.

201A. Early Elementary Education. 4 term hours. Prerequisite: Early Elementary Education 101, Psychology 101. Mrs. Phillips.

The course will be devoted to the study of oral and written language and the technique of beginning reading and spelling.

202. Stories for Childhood. 4 term hours. Miss Reidy.

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

302. Early Elementary School Problems. 4 term hours. Miss Hemingway.

A study of existing practice in early childhood education throughout the country, the nursery school movement, psychological clinics, recent literature in the field, laboratory work in training school as provided.

305. Nursery School Education. 4 term hours. Prerequisite: Psychology 101, Early Elementary Education 301. Miss Hemingway.

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.

Psychology

101. Introductory Psychology. 4 term hours. Dr. Ellis, Mr. Ponitz, Mr. Powell.

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

202. Educational Psychology. 4 term hours. Prerequisite: Psychology 101. Dr. Halnon, Dr. Hilliard, Mr. Powell.

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

ENGLISH

Composition and Rhetoric

101A. Composition. 4 term hours. Miss Little, Miss Swain, Miss Thomas.

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 Osborn.

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

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.

323. **Advanced Rhetoric.** 4 term hours. 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**

103. **Literature for Children.** 4 term hours. Mrs. Biscomb, Miss Walker.

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.

110. **English Literature.** 4 term hours. Mr. Masterson.

In this course an attempt is made to introduce the student to the general field of literary study and to develop in him some skill in critical interpretation. The typical forms of literature are carefully studied, and different ways of approaching the subject are considered. The course is intended to be a foundation for further study of literature.

121. **American Poets.** 4 term hours. Miss Thomas.

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. Miss Swain.

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.

202A. **Representative English Poetry.** 4 term hours. Miss Eicher.

The aim of this course is to help the student become more familiar with representative poets of England and the relation of each to the period and movement in which he worked. Selections will be read and discussed in class.

Students who take this course and later desire a survey course in English Literature should select History of English Literature 302.
202B Representative English Prose. 4 term hours. Miss Osborn.

The purpose of this course is to give the student a greater familiarity with the most representative work of England’s best prose writers. Stress will be placed upon the significance of each work in relation to the literary and social movements of the time. Selections will be read and discussed in class.

Students who take this course and later desire a survey course in English Literature should select History of English Literature 302.

219. The Short Story. 4 term hours. Miss Nobbs.

This course aims to trace the development of the short story in England, France, and America, with an account of its 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.

310. Romantic Poets. 4 term hours. Mr. Sprau.

This course offers opportunity for wide reading in the English poetry of the early nineteenth century. The class hours will be devoted to lectures on this period of literature, and to critical studies of representative selections from the poetry of Wordsworth, Coleridge, Southey, Scott, Byron, Keats, and Shelley.

314. Shakespeare. 4 term hours. Mr. Sprau.

The aim of the course is to help students read Shakespeare with a fuller appreciation, and to give those who teach Shakespeare a clearer understanding of their subject and its relation to educational work. A tragedy and a comedy are carefully studied in class, and ten or more plays are assigned for careful reading. This course may not be counted together with Shakespeare 214 regularly given during the school year.

322. American Literature. 4 term hours. Mr. Slusser.

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.

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

A study of the plays of Ibsen, Pinero, Jones, Galsworthy, Shaw, and others, with a careful inquiry into the relation between the continental, English, and American Drama.

GEOPHYSICS

Courses 101A and 101B are foundational courses in geography and should precede all other courses except 103 and 308. 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 the student is especially interested. Pre-
    requisite to these courses is either 101 or 308.

(b) If major is in business administration: 101, 210.

(c) If preparing to teach general science: 101, 207.

(d) If electing geography merely as a year sequence in science: 101 and
    one other course, or 308 and two other courses to which either 101 or
    308 are prerequisite.

101A. Elements of Geography. 4 term hours. Miss Strunk.

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

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

A continuation of 101A but with the emphasis placed upon adjustments to
location, land forms, soils, minerals, ground and surface waters, oceans and
coast lines in selected regions. An elementary study is made of map projec-
tions.

202. Geography of the United States and Canada. 4 term hours. Pre-
       requisite: Geography 101. Miss Boswell.

A study of the two countries by geographical regions.

HISTORY AND SOCIAL SCIENCE

History

101A. United States History of 1815. 4 term hours. Miss Barnett.

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. Dr. Russel, Mr.
       Trumble.

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. Mr.
       Starring.

The industrial development of the United States, the coming of 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.

201A. Modern Europe, 1500-1763. 4 term hours. Miss Barbour.

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.

201B. Modern Europe, 1763-1870. 4 term hours. Mr. Trumble.

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.

201C. Modern Europe, 1870-1927. 4 term hours. Dr. Scott.

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 in 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.

301B. United States History, 1815-1848. 3 term hours. Dr. Russel.

The rise of the Middle West, the growth of democracy, the tariff, internal improvements, banking, slavery and anti-slavery, and territorial expansion to the Pacific are among the topics studied.

303. Economic Development of the United States. 3 term hours. Mr. Rhynsburger.

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 the less developed areas of Asia, Africa, the Pacific, and Latin America will be treated in this course in their political, economic, and social aspects.
Political Science

A college course in the history of the United States is prerequisite to all courses in this department.

201A. National Government. 4 term hours. Mr. Shilling.

A study of the national government of the United States including its structure, functions, and operations.

201B. State and Local Government. 4 term hours. Mr. Rhynsburger.

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

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

This is the first of a two-term course and will cover the larger component parts of the British Empire. In each country problems of administration, civil service, taxation, and foreign relations will receive special emphasis.

Economics

201A. Principles of Economics. 4 term hours. Mr. Moore, Mr. Bigelow.

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

Note.—Principles of Economics 201 A and B form a single course in Principles of Economics which are prerequisite to advanced work in the field. A student planning to take only a single term’s work in Economics should consult the instructor before electing Economics 201A.

201B. Principles of Economics. 4 term hours. Mr. Moore, 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.


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

204. Economics of Expenditure. 4 term hours. Mr. Bigelow.

A study of present day problems of the consumer which help to establish rational standards of expenditure, based upon a careful analysis of human wants, to give consideration of his available income, and existing standards
of living. Careful analysis is made of the marketing system, investment and insurance, the recent development of installment buying, and the wise use of credit by the consumer.

**Sociology**

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

A study of social relations and activities in small communities. An elementary textbook in general sociology and a text dealing specifically with village and country life are used. A collection of source materials illustrating the co-operation of teachers and schools in local activities is available.

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

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.

**201B. Social Organization.** 4 term hours. Prerequisite: Sociology 201A. Mr. Kercher.

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.

**203. Rural Sociology.** 4 term hours. Dr. Burnham.

See description of course in Rural Education department, page 82.

**301B. Social Pathology.** 4 term hours. Prerequisite: Sociology 201 A, B. Dr. Barnes.

Modern methods of dealing with poverty, and the defective and delinquent classes of society. Child-caring agencies and their methods; institutional treatment of the feeble-minded, the insane, and the criminal; causes and methods of prevention of juvenile delinquency will be studied. Training required for social workers and methods of investigation will also be taken up. The text will be supplemented by reference reading, particularly along lines of criminology and juvenile delinquency. Some field work will be done and reports made on special topics.

**301C. The Family.** 4 term hours. Prerequisite: Sociology 201 A, B. Dr. Barnes.

A review of the history of the family and marriage. Lectures, reports, and discussions of modern theories and problems.


This course is a study of the relation of education to social conduct. How education may be made effective as an instrument for changing the individual in his social relations—e.g., in his family, in his group, in his recreation, and in his civic and moral relationships—is a major inquiry. Emphasis will be placed upon the subject matter, the method of instruction, and the school organization believed to result in desirable changes in the social behavior of individuals and communities.
HOME ECONOMICS

Foods


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. Advanced Foods. 4 term hours. Prerequisite: Foods 102, 107 or equivalent. Miss Moore.

Problems in planning, marketing, preparing and serving meals.

Clothing

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.

405. Clothing. 4 term hours. Prerequisite: Home Economics 101, 103, 205. Mrs. Schumacher, Miss Walker.

Applied dress design is taught by modeling and draping on the dress form. A tailored coat or suit is also made in this course.

Household Administration

315. Home Nursing and Child Care. 4 term hours. Prerequisite: Nutrition 220 and a course in biology. Mrs. Schumacher, Miss Ellis Walker.

Prevention and care of illness in the home, including simple nursing procedures, and first aid treatment for common household emergencies. A study of maternity and infancy. The pre-school child is also studied with respect to its care, development, and habits.

LATIN

101A. Cicero. 4 term hours. Miss Steckelberg.

Reading of selected orations and letters of Cicero with attention to the history and political movement of his time. Work in prose composition.

Note.—Students who desire credit in 101A or in 101B or in second-year high school Latin may register for this course and the work will be arranged to suit their needs.

205A. Teachers’ Course. 4 term hours. Miss Steckelberg.

Problems of the first two years of high school Latin. Required of students majoring in Latin.

LIBRARY


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

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### 99. Elementary Woodwork
High school credit only. Mr. Woods.

A beginner's course in the fundamentals of hand woodworking including care and use of the common bench tools and simple wood finishing. Designed particularly to prepare the student of limited experience for shop courses of college grade and required of all students who have not had this work in accredited high schools.

### 99. Mechanical Drawing
High school credit only. Mr. Lane.

Lettering, technical sketching, working drawings of simple objects, tracing, inking, and blue printing 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. 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. Content of small high school farm courses leading to Smith-Hughes vocational courses will be studied.

### 102A. Household Mechanics
4 term hours. Mr. Lindeman.

A course in the selection, care, and repair of mechanical devices used in the modern home. Includes practical problems in glazing, painting, soldering, furniture repair, refinishing, plumbing, care, and repair of electrical appliances.
102B. **Household Mechanics.** 4 term hours. Prerequisite: Household Mechanics 102A. Mr. Woods.

A more advanced study of tools, materials, and appliances in the home. Special attention is given to the construction of a course of study and instruction sheets suitable for junior high schools. A course of special interest to those preparing to teach or supervise household mechanics.

103A. **Advanced Benchwork.** 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 worked out.

111A. **Mechanical Drawing.** 4 term hours. Prerequisite: Mechanical Drawing 99 or equivalent. Mr. Lane.

A continuation of the principles emphasized in Mechanical Drawing 99. Lettering, sketching, drawing, tracing, and electric blue printing of suitable shop projects.

111B. **Mechanical Drawing.** 4 term hours. Prerequisite: Mechanical Drawing 111A. Mr. Lane.

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.

204A. **Wood Turning.** 4 term hours. Mr. Nichols.

An elementary course in the fundamentals of woodturning. It includes spindle and oval turning, chuck, faceplate, and spherical turning. Special attention is given to tool grinding, the care of various types of wood lathes, and the organization of a course of study.

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 fitting. Types of furniture construction are worked out through a series of fundamental problems.

207A. **Woodfinishing.** 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.
222. **Sheet Metal.** 4 term hours. Prerequisite: Drawing 111B. Mr. Weaver.

The application of hand and machine processes in cutting, forming, seaming, burring, crimping, 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 design 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.

242B. **Auto Mechanics.** 4 term hours. Mr. Weaver.

Shop practice in automotive oxy-acetylene welding, battery repairing, tire vulcanizing and electrical work. Repairs to starters, generators, and ignition apparatus, using job sheets.

242C. **Auto Mechanics.** 4 term hours. Mr. Weaver.

Advanced practice in motor overhauling and rebuilding, general chassis repairs, and car refinishing.

308. **Woodshop.** 4 term hours. Prerequisite: Woodshop 205, Wood Finishing 207A. Mr. Nichols.

An advanced course in machine woodshop designed for those who wish to specialize in woodworking. This course includes more advanced problems in furniture 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**

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

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. Mr. Hart.

Plane trigonometry, trigonometric functions, identities, inverse functions, solution of triangles by logarithms.
101. Arithmetic. 4 term hours. Prerequisite: high school algebra and geometry. Miss Ford.

A teachers' course. Lectures and discussions on the history and teaching of the subject, with assigned reading. Extended treatment of typical problems of applied arithmetic.

110. Surveying. 4 term hours. Prerequisite: trigonometry. Mr. Ackley.

A course in field work involving actual problems in surveying and leveling. The final test consists of field notes and a map from a personal survey of an irregular tract.

115. College Algebra. 4 term hours. Mr. Cain.

A thorough review of elementary algebra, followed by topics usually studied in college algebra, such as the function concept, determinants, permutations and combinations, theory of equations, and logarithms.

116. Analytic Geometry. 5 term hours. Prerequisite: trigonometry and college algebra. Mr. Ackley.

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. Not open to freshmen.

205A. Calculus. 4 term hours. Prerequisite: college algebra and analytic geometry. Miss Ford.

An elementary course in differential calculus. An opportunity for a second term's work in calculus will be extended to qualified students. Consult the instructor.

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 either precede or accompany 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 either precede or accompany 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 of credit.

211. Introduction to Statistics. 4 term hours. Dr. Everett.

The object of this course is to give the students 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.
MODERN LANGUAGES

French

101A or 101B. Elementary French. 4 term hours. Miss Windsor.

At regular intervals, beginning work in French is offered, with the thought that it may be continued during successive summers or in residence. No credit is given for the work of any term until the year's work is completed. The fundamentals of French grammar, pronunciation, and ear training will be stressed.

Note.—101B is open only to those who begin 101A as a Summer course.

102A. Intermediate French. 4 term hours. Prerequisite: French 101 A, B, C. Miss Windsor.

Composition based on text and on assigned topics and further practice in oral French. The term's work will count for 102A, 102B, or 102C according to the enrollment.

205 A, B, C. France and the French. 4 term hours. Miss Tamin.

This course is conducted in English and is open to those not in the French department. A study of topics, oral and written, pertaining to French life. Discussion on the art, geography, education, and historical monuments of France. Intended as a cultural background for other courses and for general information.

208A. Phonetics. 4 term hours. Miss Tamin.

This course is especially planned to give the students a scientific foundation for pronunciation.

German

101A. Elementary German. 4 term hours. Miss Zimmerman.

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 and about 100 pages of easy German reading. The remainder of the year's work may be done by extension.

102A. Intermediate German. 4 term hours. Miss Zimmerman.

This will be a course in rapid reading of German texts and will include a review of German grammar and the study of poems and songs. The composition work will be based upon the texts read.

Spanish

101A or 101B. Elementary Spanish. 4 term hours. Mr. Greenwall, Miss Lamb.

The elements of grammar and pronunciation are given particular attention. The use of oral Spanish is encouraged.

Note.—Of courses 101A or 101B, the one with the larger enrollment will be given.

102 A, B, C. Intermediate Spanish. 4 term hours. Prerequisite: Spanish 101. Mr. Greenwall, Miss Lamb.

A modern novel will be read, and composition and grammar work will be based on the same.

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 the 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. Britton, 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. Mrs. Eckhardt Wilkinson.
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.

116A. Voice Culture. 2 term hours. Mr. Maybee.
Stresses the fundamental processes of breath control and tone production. Group singing for each student every day, singing of songs in small groups, and later some individual coaching.

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.

209A. 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: Music 101, 212 A, B. Mrs. Tawney, Mrs. Eckhardt Wilkinson.
A study of the masterpieces is made, and appreciation work in preparation for teaching children is definitely worked out.

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

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

Penmanship. Non-credit course. Miss Shimmel.

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

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

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

101A. Tennis. Mr. Lewis.

May be substituted for Physical Education 101.

103. Physical Education. Mr. Maher.

Intramural teams and County Baseball League play a regular schedule of games from 3:00 to 5:00.

312. First Aid and Athletic Training. 2 term hours. Mr. Gary.

The conditioning, care, and training of members of athletic teams. Passive and active movements in the treatment of athletic injuries.

313. Football Technique. 3 term hours. Mr. Gary, Mr. Gill, Mr. Martineau.

Fundamentals of football coaching with special emphasis on catching, punting, kicking, blocking, interference, tackling, principles of line and backfield work, the most approved manner of playing the various positions. Building and formation of plays, generalship, signal systems, and scouting. Some problems of the coach. Study of the rules.

315. Basketball Technique. 3 term hours. Mr. Gill, Mr. Hyames.


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

Theory and practice in base running, fielding, batting, and pitching; detailed study of each position; offensive and defensive team play; officiating; scoring; study of rules.

319. Track and Field Technique. 3 term hours. Mr. Smith.

The best accepted forms of starting, hurdlng, distance running, pole vaulting, discus and javelin throwing, sprinting. Study of physical conditions 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. Mr. Smith.

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.

405. Playground and Community Recreation. 4 term hours. Mr. Hyames.

Nature and function of play; adaptation of activities to age periods; social environment; playground development, construction, management, and supervision. Practice in class instruction in games, story plays, handwork, and other physical activities. A discussion of recreational material, and of athletic and field meets. Laboratory work with Training School children required.

PHYSICAL EDUCATION FOR WOMEN

Each student is required to take both a physical and a medical examination upon entering and is then assigned to the type of activity approved by the physician. No student is excused from physical education. Courses 102, 103, and 104 are planned for students in restricted groups.

The regulation gymnasium suit consists of black circular bloomers and a white middy. 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.

101A. Physical Education. Miss Hussey, Miss Vestal.

Tennis.

101B. Physical Education. Miss Worner.

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

102. Physical Education.

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

103. Restricted Exercise. Miss Vestal.

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

104. Individual Gymnastics. Miss Hussey.

A course of remedial exercises for students recommended to this course at the time of the physical examination.

105. Swimming. Miss Hussey, Miss Vestal, Miss Worner.

Swimming, diving, life saving.


A course in basketball playing and coaching.
202. Physical Education. Miss Worner.

Physical education activities suited to the various grades. Each student is given some opportunity for teaching within the group. Two periods of activities and one of lecture and discussion.

203. Folk Dancing. Miss Worner.

Country, folk, and national dances. Clogging.

204. Life Saving. Miss Hussey.

A course in life saving with opportunity to take the Red Cross test.

301. Physical Education. Miss Vestal, Miss Worner.

A course intended for teachers of physical education who wish further work in any activities. Advanced dancing, clogging, stunts, or other activities selected by the group.

313B. Physical Education. Miss Vestal.

Danish gymnastics, tumbling, and stunts.

323. Individual Gymnastics. 4 term hours. Prerequisite: Anatomy 211 A, B, and Applied Anatomy 220.

The study of prescribed exercises for remedial effects in cases of curvature and abnormalities. Massage and practice with patients will be given.

PHYSICS

Students preparing to teach physics in the high school must have as a minimum preparation in physics course 201. Through arrangement with the department of chemistry a major in physical science may be made by taking one year of chemistry and two years of physics. A minor in physics consists of 24 term hours and may not be made by combining physics and chemistry. 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 demand.

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.
PHYSICS

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. Marburger.

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. Fox.

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. Fox.

See description of course 202A.

202C. Electricity and Magnetism Problems. 1 term hour. To accompany 201C. M. Marburger.

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.

RURAL EDUCATION

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 21.
Facilities for training for work in rural education available at Western State Teachers College, page 21.
Certificates granted, page 23.
Curricula offered, pages 51-56.
Provision for county normal and helping teachers, page 23.
Provision for training teachers of agriculture, page 53.

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 stand-
ardized 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 101. 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.

201B. Rural Education. 4 term hours. Mr. Robinson.

Attempts to increase specific understanding in rural economics. The work of the term concludes with a study of the possibilities of elementary and secondary rural school instruction in vocational subjects.

Note.—Rural Education 201C will be given in the summer of 1930.

203. Rural Sociology. 4 term hours. 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.

A seminar course for advanced students who are interested in keeping abreast of current progress in rural education. The best material in print in rural life and education will be read and discussed, and recent constructive ideas in education will be adapted to the needs of schools in smaller communities. One piece of research work will be required of each student. The course is designed to be of special service to those preparing for positions as county normal or helping teachers.

Note.—304 A, B, or C will be offered according to major interest.

SPEECH

101A. Fundamentals of Speech. 4 term hours. Mr. Bietry.

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 Shaw.

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.

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

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 the problems of coaching and judging. An intensive study will be made of the question to be used for 1929-1930 in the Michigan High School Debate League.

315. **Play Production.** 4 term hours. Prerequisite: Speech 101 and 110 or the consent of the instructor. Miss Shaw. Methods of staging plays, including stage settings, costume, and make-up. Plays will be presented by the class. Each student will direct at least one play.

**TRAINING SCHOOL**

**Teaching**

The Training School will be open from 8:30 to 11:00 daily in grades one to six during the Summer session. The work will be under the direction of the classroom and special supervisors. Opportunity for observation is afforded (See Teaching 205). The privilege of practice teaching is restricted to holders of limited certificates who are completing the work for life certificates and who have not been in residence during the regular terms (See Teaching 202). Since there is a limited number of such teaching opportunities, application should be made to the Director of Practice well in advance of the enrollment day for the Summer session.

Pupil enrollment is by application. Children of students attending the Summer session are among those accepted. The work is designed to furnish profitable experience for the children rather than to provide opportunity for the making up of grades by those who have failed of promotion.

Students enroll for teaching at the Training School Office on enrollment day. At this time assignment is made to a definite grade and supervisor. Class meetings with the supervisors are held Mondays, Tuesdays, Thursdays, and Fridays, 11:00 to 11:50. Meetings with the Director are held Wednesdays, 11:00 to 11:50. The hours from 9:00 to 11:50 must therefore be reserved by all students enrolling for teaching.

Students are advised not to take extra studies if enrolled in practice teaching in the Summer session.

**Courses**

202. **Teaching.** 4 term hours. Prerequisite: Psychology 101, 202, Principles of Teaching 201, and Teaching 201.

Offered in the Summer session to holders of a limited certificate who are completing work for a life certificate. Not open to students in residence the other terms. The hours from 9:00 to 11:50 must be reserved for this course. This course includes the teaching of classes in the Training School, the observation of lessons taught by Supervisors, the study and measurement of children as individuals and in groups, and meetings with the Supervisors of practice teaching, and with the Director of the Training School. Exemption from attendance at the latter meetings is granted to those who took this work in connection with Teaching 201. Students are urged to become as familiar as possible with the spirit and general workings of the Training School.
205. **Teaching.** 4 term hours. Prerequisite: maturity and experience. Given Summer session only. Mr. Ellsworth, Grade and Special Supervisor.

A course in observation and discussion designed to keep teachers of experience in touch with the best present-day practice. Demonstration rooms are conducted, one each, in primary, intermediate, and upper grades. The aim is to present progressive methods of education under modern conditions. Meetings are held for discussion of the work observed and for presentation of underlying theory Mondays, Tuesdays, and Fridays, 11:00 to 11:50. Meetings with the Directors are held Wednesdays, 11:00 to 11:50. The hours from 9:00 to 11:50 must therefore be reserved for this course.
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