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Western Michigan University

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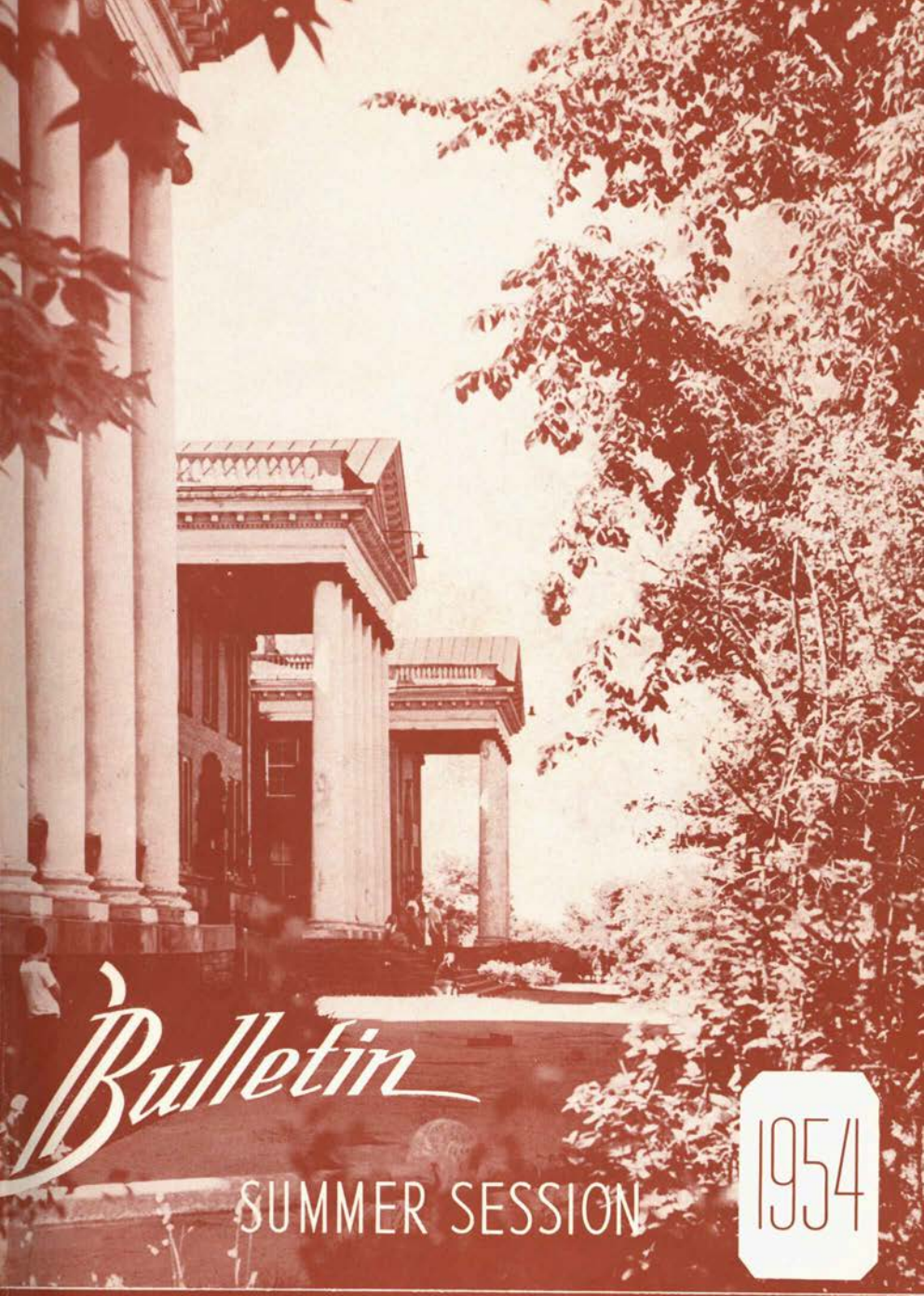

Bulletin

SUMMER SESSION

1954

WESTERN MICHIGAN COLLEGE

KALAMAZOO, MICHIGAN

BULLETIN

Western Michigan College of Education

KALAMAZOO, MICHIGAN

THE FIFTY-FIRST SUMMER SESSION

MONDAY, JUNE 21, THROUGH FRIDAY, JULY 30

This College is a member of the American Association of Colleges for Teacher Education. It is fully accredited by the North Central Association of Colleges and Secondary Schools and is on the approved list of the Association of American Unversities and the American Association of University Women.

Vol. 49 Issued March, 1954 No. 3

Published five times annually by Western Michigan College of Education: July, October, March, April and May.

Entered as Second Class Matter, January 5, 1905, at the Post Office at Kalamazoo, Michigan, under Act of August 24, 1912

DIRECTIONS FOR CORRESPONDENCE WITH WESTERN MICHIGAN COLLEGE OF EDUCATION

Correspondence with Western Michigan College of Education should be addressed as indicated below:

a) Requests for catalogs, bulletins, blanks for recording high school credits, and other literature—*The Dean of Administration.*

b) Concerning the adjustment of credits—*The Dean of Administration.*

c) Concerning board, rooms, and remunerative work for men—*The Dean of Men.*

d) Concerning board, rooms, and remunerative work for women—*The Dean of Women.*

e) Concerning rural life and education—*The Director of the Department of Rural Life and Education.*

f) Concerning extension work and in-service education—*The Director of the Extension Division.*

g) Concerning educational research—*The Director of the Bureau of Educational Measurements and Research.*

h) Concerning graduate work—*The Director of the Graduate Division.*

i) Concerning the summer session—*The Director of the Summer Session.*

j) Concerning personnel and guidance matters—*The Director of Student Personnel and Guidance.*

k) Concerning veterans' matters—*The Veterans' Counselor.*

l) Concerning vocational education—*The Director of Vocational Education.*

m) Other general inquiries—*The Dean of Administration.*

INFORMATION FOR NEW STUDENTS

A student applying for admission should

a) If entering as a freshman, have a certified copy of his high school credits mailed to the registrar by the high school from which he graduated.

b) If entering with advanced standing from any county normal, college, or university, have mailed to the registrar complete official statements regarding the work for which credit is sought.

c) If entering the graduate division, secure application-for-admission blank from the director of the graduate division.

d) Have credits sent in at as early a date as possible.

1. EDUCATION BUILDING & WOMEN'S GYM
2. TRAINING SCHOOL - ELEMENTARY & STATE HIGH
3. LIBRARY BUILDING
4. NATURAL SCIENCES BUILDING
5. HEALTH SERVICE BUILDING
6. MEN'S GYMNASIUM
7. VANDERCOOK HALL
8. SPINDLER HALL
9. THE THEATRE
10. WALWOOD HALL (UNION & DORMITORY)
11. GARAGE
12. MECHANICAL TRADES BUILDING
13. INDUSTRIAL ARTS BUILDING
14.
15. a. WALDO STADIUM - N.W. STANDS
    b. WALDO STADIUM - S.E. STANDS
16. HYAMES FIELD
17. BUSINESS EDUCATION BUILDING
18. THEATRE STORAGE
19. ENGLISH HALL
20. INDUSTRIAL EDUCATION ANNEX
21. MAINTENANCE BUILDING
22. GREENHOUSE
23. a. BARTOO HOUSE
    b. COLHECON HOUSE
    c. "TY HOUSE" HERALD OFFICE & BROWN & GOLD OFFICE
    d. FACULTY RESIDENCE
    e. FACULTY RESIDENCE
    f. FACULTY RESIDENCE
24. a. R.O.T.C. BLDG.
    b. R.O.T.C. BLDG.
25. ARCADIA CAFETERIA
26. a. HILLSIDE APARTMENTS
    b. HILLSIDE APARTMENTS
27. McCRACKEN HALL
28. BURNHAM HALLS
29. MAYBEE HALL
30. DRAPER-SIEDSCHLAG HALLS
31. KANLEY CHAPEL
32. ADMINISTRATION BUILDING
33. PRESIDENT'S RESIDENCE
34. GOLF COURSE CLUB HOUSE
35. TOOL HOUSE
36. SERVICE BUILDING

CAMPUS OF
WESTERN MICHIGAN COLLEGE OF EDUCATION
Kalamazoo, Michigan

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☆ ☆ 1954 ☆ ☆

JANUARY

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College Calendar 1954-55
WESTERN MICHIGAN COLLEGE OF EDUCATION
KALAMAZOO, MICHIGAN

1. SUMMER SESSION 1954 (6 weeks)

June 19, Saturday, and June 21, Monday.....Graduate Enrollment
June 21, Monday.....Enrollment for the Summer Session
June 22, Tuesday.....Recitations Begin
July 5, Monday.....Observance of Independence Day
July 29, Thursday.....Summer Session Commencement Exercises
July 30, Friday.....Session Closes

2. SEMESTER I, 1954-1955

September 13 and 14, Monday and Tuesday.....Orientation Period for Freshmen and New Transferees. "Counseling Days" for Upperclassmen
September 15,Wednesday.....Enrollment of Freshmen and Transferees
September 16, Thursday.....Enrollment of Sophomores and Juniors
September 17, Friday.....Enrollment of Seniors
September 18, Saturday.....Graduate Division Enrollment
September 20, Monday.....Recitations Begin
October 16, Saturday.....Homecoming Holiday
November 13, Saturday.....“Dad's Day”
November 24, Wednesday (12 noon, East Campus; 12:30, West Campus) to Monday, November 29.....Thanksgiving Recess
December 17, Friday (4:00, East Campus; 4:30, West Campus) to Monday, January 3, 1955.....Holiday Vacation
January 20, Thursday, through January 28, Friday....Final Examinations
January 23, Sunday (2:30 P.M.).....Mid-Year Commencement Exercises
January 29, Saturday.....Semester I Ends

3. SEMESTER II, 1954-1955

February 5, Saturday.....Graduate Division Enrollment
February 7, Monday.....Enrollment of Freshmen and Juniors
February 8, Tuesday.....Enrollment of Sophomores and Seniors
February 9, Wednesday (8:00, East Campus; 8:30, West Campus) .....Recitations Begin
April 8, Friday (12:00 noon, East Campus; 12:30, West Campus) to April 18, Monday.....Spring Vacation
(April 10 is Easter Sunday)
May 7, Saturday.....Competitive Scholarship Examinations
May 30, Monday.....Memorial Day Holiday
June 2, Thursday, through June 10, Friday.....Final Examinations
June 10, Friday (7:30 P.M.).....Vesper Services
June 11, Saturday (9:30 A.M.).....Commencement Exercises
June 11, Saturday.....Semester II Ends

4. SUMMER SESSION 1955 (6 weeks)

June 20, Monday.....Registration
June 21, Tuesday.....Recitations Begin
July 29, Friday.....Session Closes

PROGRAM OF SPECIAL EVENTS
SUMMER SESSION, 1954

First Week, June 21-June 26

Saturday, June 19, and Monday, June 21—Graduate Enrollment.

Monday, June 21—Registration.

Tuesday, June 22—Classes begin.

Wednesday, June 23—3:00-5:00 P.M. Annual Tea for Faculty Women and Faculty Dames. Arcadia Brook Club House.

Thursday, June 24—8:00 P.M. Faculty Reception and Entertainment for Summer Session Students. The Faculty Square Dance Club is sponsoring an evening of square dancing. Walwood Hall.

Second Week, June 28-July 3

Wednesday, June 30—4:00 P.M. Summer School Faculty Picnic. Pine Lake Camp.

Thursday, July 1—9:00 A.M. Workshop Breakfast. Walwood Hall Ballroom.

Third Week, July 5-July 10

Annual Book Week

Tuesday, July 6–Thursday, July 8. Exhibits by the leading book companies and school supply concerns. Women's Gymnasium.

Thursday, July 8—8:00 P.M. Feature Entertainment. W. C. Handy, "The Birth of the Blues." With music played by Mr. Handy. Campus Theater.

Fourth Week, July 12-July 17

Monday, July 12—8:00 P.M. Clinic Student Recital. Harper Maybee Music Hall.

Thursday, July 15—8:00 P.M. Concert by the Faculty of the Music Department. Kanley Memorial Chapel.

Fifth Week, July 19-July 24

Sunday, July 18—4:00 P.M. High School Clinic Concert. Kanley Chapel Court.

Wednesday, July 21—12:00 Noon. Luncheon of the Faculty and Students of the Graduate Division. Walwood Hall Ballroom.

Thursday, July 22—8:00 P.M. Feature Entertainment. Walt Scott, creator of "Little Liz" and staff cartoonist for the Newspaper Enterprise Association Services. Campus Theater.

Sixth Week, July 26-July 30

Monday, July 26—8:00 P.M. Vesper Services. Kanley Memorial Chapel.

Thursday, July 29—8:00 P.M. Graduation Exercises for the Summer Session Graduating Class. Address by Dr. J. W. Maucker, President of Iowa State Teachers College. Women's Gymnasium.

Thursday, July 29—9:30 P.M. Reception for graduates and their friends. Walwood Hall Court.

Friday, July 30—Classes end.

Summer Recreational Activities

Kalamazoo, located in Western Michigan, known as "The Summer Playground of America," offers numerous opportunities for recreation. Picnics in Milham Park or on the beaches of the numerous accessible lakes, swimming, and boating are popular pastimes. An outing on the shore of Lake Michigan is possible. A number of tennis courts are available on the campus. Five golf courses are within a mile of the campus, with special rates for summer students. A riding academy is nearby, where horses may be engaged at reasonable rates.

Summer Session Newspaper

A weekly newspaper, *Summer Session Events*, is published each Saturday during the Summer Session to chronicle the events of the preceding and the following week. Every student and faculty member is entitled to a free copy.

ADMINISTRATION

STATE BOARD OF EDUCATION

CHARLES G. BURNS	President
STEPHEN S. NISBET	
WALTER F. GRIES	
CLAIR L. TAYLOR	Secretary

STATE SUPERINTENDENT OF PUBLIC INSTRUCTION

CLAIR L. TAYLOR

EXECUTIVE COUNCIL OF PRESIDENTS

CHARLES L. ANSPACH
Central Michigan College of Education

EUGENE B. ELLIOTT
Michigan State Norman College

PAUL V. SANGREN
Western Michigan College of Education

HENRY A. TAPE — President
Northern Michigan College of Education

OFFICERS OF ADMINISTRATION

PAUL V. SANGREN, PH.D.	President
WYNAND WICHERS, LL.D.	Vice-President
JOHN C. HOEKJE, ED.M.	Dean of Administration—Registrar
ELMER H. WILDS, ED.D.	Director of Summer Session and Graduate Division
ELIZABETH E. LICHTY, PH.D.	Dean of Women
J. TOWNER SMITH, A.M.	Dean of Men
CORNELIUS B. MACDONALD, A.M.	Comptroller
JAMES H. GRIGGS, ED.D.	Director of Teacher Education
GEORGE H. HILLIARD, PH.D.	Director of Student Personnel and Guidance
VERN E. MABIE, A.M.	Director of Placement and Alumni Relations
GEORGE E. KOHRMAN, ED.D.	Director of Vocational and Practical Arts Education
OTTO YNTEMA, A.M.	Director of Extension and Adult Education

KANLEY MEMORIAL CHAPEL

LEONARD GERNANT, A.M.	Dean of the Chapel

MAINTENANCE OFFICIALS

JOHN A. GOLDSWORTH	Superintendent, Buildings and Grounds
IRVING BARBER	Supervisor, Grounds Service
ROBERT H. WILLIAMS, B.S.	Supervisor, Supplies
RALPH WILLIS	Supervisor, Janitorial Services

MANAGERIAL EXECUTIVES

DONALD N. SCOTT, A.M.	Manager, Union Building and Dormitories
JOHN M. THOMPSON	Manager, Campus Book Store

ADMINISTRATIVE ASSISTANTS

MARY B. ANDERSON, M.S.	Nursing Consultant
ISABEL BEELER, A.M.	Foreign Student Adviser
ROBERT S. BOWERS	Director, Vandercook Hall
KATHERINE B. CHAPMAN	Director, Siedschlag Hall
LEWIS CRAWFORD	Assistant Director, Student Personnel and Guidance
HOMER M. DUNHAM, A.B.	Athletic Records and Publicity
EVA FALK, A.B.	Secretary, Dean of Women
MARGARET FEATHER, A.B.	Secretary, Dean of Men
LEONARD GERNANT, A.M.	Associate Director, Adult Education
KENNETH R. HAWKINS, A.M.	Assistant Manager, College Book Store
BERNICE G. HESSELINK	Financial Secretary
MABLE PEABODY HINKLE	Director, Walwood Hall and Assistant Dean of Women
EDNA L. HIRSCH, B.S.	Secretary, Student Personnel and Guidance
ELIZABETH HOUSEHOLDER	Assistant Dean of Women
HELEN INMAN, A.M.	Director, Draper Hall
VIRGINIA M. JARMAN	Secretary, Campus School
LLOYD E. JESSON, A.B.	Secretary to the President
ELEANOR LINDEN, B.S.	Secretary, Teacher Education
MARGARET T. MABIE, A.B.	Secretary, Graduate Division and Summer Session
CLAYTON J. MAUS, M.S.	Assistant Registrar
MARILYN MOTT	Secretary, Dean of Administration
LOY NORRIX, PH.D.	Education Consultant
KATHERINE R. PARSONS	Director, Spindler Hall
ARCHIE POTTER	Director, Smith Burnham Hall
MYRNA ROSS	Secretary, Adult Education
LUCILLE E. SANDERS, A.B.	Secretary, Rural Life and Education
ALICE SMITH	Placement Secretary
LEAH M. SMITH	Secretary, Extension
EMIL J. SOKOLOWSKI, A.M.	Director, Ernest Burnham Hall
RUSSELL A. STRONG, A.B.	Publicity Director

ADMINISTRATIVE GROUPS

THE ADMINISTRATIVE COUNCIL

The Council meets weekly to keep informed on college affairs, to fix general administrative policies, and to coordinate and unify administrative decisions, practices, and services designed to promote the educational program of the college.

PAUL V. SANGREN, President; WYNAND WICHERS, Vice-President; JOHN C. HOEKJE, Dean of Administration; CORNELIUS B. MACDONALD, Comptroller; ELMER H. WILDS, Director of the Graduate Division; JAMES H. GRIGGS, Director of the Teacher Education Division; GEORGE H. HILLIARD, Director of Student Personnel and Guidance; GEORGE E. KOHRMAN, Director of the Division of Vocational and Practical Arts Education.

THE FACULTY COUNCIL

The Council meets each month to deal with such problems as may be delegated to it; to receive and consider recommendations and suggestions proposed by members of the Faculty, and to recommend to the President or Faculty changes in policy and procedures.

Terms expiring 1954—MITCHELL J. GARY (Chairman); FLOYD W. MOORE; ELMER BELOOF.

Terms expiring 1955—FRED A. BEELER; ANDREW C. LUFF; WILLIS F. DUNBAR.

Terms expiring 1956—CLAYTON MAUS; CYRIL STOUT; OTTO YNTEMA; HARRY LAWSON; WINIFRED MACFEE; SARA SWICKARD.

M.E.A. Representative—CLARA CHIARA.

ExOfficio-President—PAUL V. SANGREN; Vice-Pres., WYNAND WICHERS.

THE ATHLETIC BOARD OF CONTROL

The Board has jurisdiction over all matters pertaining to Intercollegiate Athletics.

JOHN C. HOEKJE, Dean of Administration; MITCHELL J. GARY, Director of Athletics; WILLIAM J. BERRY, CORNELIUS B. MACDONALD, CHARLES A. SMITH, appointed by the President; President of the W Club; Sports Editor of the *Western Herald;* President of the Student Council.

FACULTY STANDING COMMITTEES FOR 1953-54

Persons whose names on a given committee appear opposite number 1 are appointed for one year, those opposite number 2 are appointed for two years, and those opposite number 3 are appointed for three years. Replacements will be made in such a way that new persons are appointed for a three-year period.

ADMISSIONS AND SCHOLARSHIP — GERALD OSBORN, *Chairman*

1. Robert Bowers, Frank Hinds, Lillian Meyer.
2. Robert Russel, Clara Chiara, Fred Beeler.
3. John Hoekje, John Feirer, William Van Deventer.

EDUCATIONAL POLICIES — RUSSELL SEIBERT, *Chairman*

1. George Kohrman, Emeline McCowen, Wynand Wichers, Lewis Crawford.
2. Vern Mabie, Elmer Wilds, Phoebe Lumaree, Harry Hefner.
3. James Griggs, Zack York, Walter Marburger, Elsworth Woods, Robert Limpus.

GRADUATE COUNCIL — ELMER WILDS, *Chairman*

1. Charles Butler, Mitchell Gary, Elsworth Woods.
2. James Knauss, Alice LeFevre, Elwyn Carter.
3. James Griggs, George Kohrman, George Mallinson.

INSTITUTIONAL SERVICES — OTTO YNTEMA, *Chairman*

1. Theodore Carlson, Ethel Green, Arnold Schneider.
2. George Hilliard, Wynand Wichers, Louis Govatos.
3. Wallace Garneau, L. Morris McClure, Lilyan Galbraith.

PUBLIC RELATIONS — WYNAND WICHERS, *Chairman*

1. Willis Dunbar, Leonard Kercher, Winifred MacFee, Russell Strong.
2. Vern Mabie, J. Towner Smith, Otto Yntema.
3. Helen Master, Avis Sebaly, Marguerite Patton.

RESEARCH — ORIE L. FREDERICK, *Chairman*

1. William Berry, Samuel Clark, George Mallinson.
2. George Bradley, Joseph Giachino, Hazel DeMeyer, Stanley Kuffel.
3. Charles Brown, Charles Butler, Jack Murphy.

STUDENT ACTIVITIES — J. TOWNER SMITH, *Chairman*

1. Norman Russell.
2. Winifred MacFee, Cornelius MacDonald.
3. Elizabeth Householder, Robert Wetnight. Plus five students.

SUMMER SESSION — ELMER H. WILDS, *Chairman*

1. Georgiann Burge, Winifred MacFee, Wallace Garneau.
2. Lydia Siedschlag, George Mallinson, Arnold Schneider.
3. Sara Swickard, Homer Carter, Orie Frederick.

VISITATION, RECRUITMENT AND ORIENTATION — JOHN HOEKJE, *Chairman*

1. Isabel Crane, Willis Dunbar, Vern Mabie, Winifred MacFee.
2. Charles Starring, Joseph Hoy.
3. Harry Lawson, Esther Schroeder, Avis Sebaly.

FACULTY

SUMMER SESSION, 1954

(This list includes only those who are in service during the Summer Session of 1954.)

HEADS OF DEPARTMENTS

WILLIAM J. BERRY, PH.D. — GEOGRAPHY AND GEOLOGY
A.B., Iowa State Teachers College; M.S., Ph.D., The University of Chicago.

ROY C. BRYAN, PH.D. — DIRECTOR, CAMPUS SCHOOLS
A.B., Monmouth College; A.M., Teachers College, Columbia University; B.Ed., Teachers College, University of Cincinnati; Ph.D., Teachers College, Columbia University.

CHARLES H. BUTLER, PH.D. — MATHEMATICS
Ph.B., A.M., The University of Chicago; Ph.D., University of Missouri.

ELWYN F. CARTER, ED.D. — MUSIC
A.B., Alma College; A.M., Ed.D., Teachers College, Columbia University.

JOHN L. FEIRER, ED.D. — INDUSTRIAL ARTS
A.B., Stout Institute; A.M., University of Minnesota; Ed.D., University of Oklahoma.

ORIE I. FREDERICK, PH.D. — RESEARCH
A.B., A.M., Findlay College; Ph.D., University of Michigan.

LILYAN K. GALBRAITH, ED.D. — HOME ECONOMICS
B.S., A.M., West Virginia University; Ed.D., Teachers College, Columbia University.

MITCHELL J. GARY, A.M. — PHYSICAL EDUCATION FOR MEN
B.S., A.M., University of Minnesota.

JOSEPH W. GIACHINO, ED.D. — VOCATIONAL-INDUSTRIAL AND TECHNICAL EDUCATION
B.S., Wayne University; A.M., University of Detroit; Ed.D., Pennsylvania State College.

LEONARD C. KERCHER, PH.D. — SOCIOLOGY
A.B., A.M., Ph.D., University of Michigan; University of London.

JAMES O. KNAUSS, PH.D. — HISTORY
A.B., Lehigh University; A.M., Harvard University; Ph.D., Cornell University.

STANLEY KUFFEL, ED.D. PSYCHOLOGY
B.A., St. Thomas; A.M., University of Minnesota; Ed.D., Western Reserve University.

FLOYD W. MOORE, PH.D. ECONOMICS
A.B., Albion College; A.M., University of Michigan; Ph.D., Northwestern University.

ALFRED H. NADELMAN, PH.D. PAPER TECHNOLOGY
A.M., Ph.D., University of Berlin.

GAYLE POND, A.M. HEALTH SERVICE
Presbyterian Hospital, Chicago; B.S., Northwestern University; A.M., Columbia University.

WM. MCKINLEY ROBINSON, PH.D. RURAL LIFE AND EDUCATION
B.S., Hiram College; A.M., Ph.D., Teachers College, Columbia University.

WILLIAM V. WEBER, PH.D. POLITICAL SCIENCE
A.B., A.M., Ph.D., University of Iowa.

ELSWORTH P. WOODS, PH.D. BASIC STUDIES
A.B., A.M., Ph.D., University of Iowa.

CRYSTAL WORNER, A.M. PHYSICAL EDUCATION FOR WOMEN
A.B., Michigan State Normal College; A.M., University of Michigan.

ZACK L. YORK, PH.D. SPEECH
A.B., Western Michigan College of Education; Ph.D., University of Wisconsin.

PROFESSORS

ALBERT B. BECKER, PH.D. SPEECH
A.B., Western Michigan College; A.M., University of Michigan; Ph.D., Northwestern University.

FRED A. BEELER, PH.D. MATHEMATICS
B.S., University of Alaska; A.M., University of Indiana; Ph.D., University of Michigan.

RORERT S. BOWERS, PH.D. ECONOMICS
A.B., Kansas Wesleyan University; A.M., American University; Ph.D., University of Wisconsin.

HOMER L. J. CARTER, A.M. PSYCHOLOGY
(Director of Psycho-Educational Clinic)
B.S., Wayne University; A.M., Ohio State University.

CLARA R. CHIARA, PH.D. EDUCATION
B.S., Miami University; A.M., Western Reserve University; Ph.D., Ohio State University.

WILLIS FREDERICK DUNBAR, PH.D. HISTORY
B.A., Kalamazoo College; A.M., Ph.D., University of Michigan.

WALLACE L. GARNEAU, A.M. SPEECH
A.B., Western Michigan College; A.M., University of Michigan.

FRANK J. HINDS, A.M. BIOLOGY
A.B., Western Michigan College; A.M., University of Michigan.

HARRY W. LAWSON, A.M. PERSONNEL AND GUIDANCE
B.S., Boston University; A.M., University of Michigan.

CHARLES H. MAHER, A.M. PHYSICAL EDUCATION FOR MEN
A.B., Western Michigan College; A.M., West Virginia University.

GEORGE G. MALLINSON, PH.D. EDUCATION AND PSYCHOLOGY
A.B., A.M., New York State College for Teachers; Ph.D., University of Michigan.

A. EDYTHE MANGE, PH.D. HISTORY
A.B., Greenville College; A.M., Ph.D., University of Illinois.

ARTHUR J. MANSKE, PH.D. EDUCATION
A.B., Wayne University; A.M., Ph.D., Teachers College, Columbia University.

DONALD G. MAY, M.D. MEDICAL DIRECTOR
A.B., Kenyon College; M.D., Medical School, Wayne University.

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GENERAL INFORMATION

THE FIFTY-FIRST SUMMER SESSION

The fifty-first summer session of Western Michigan College of Education will open Monday, June 21, 1954, and continue for six weeks until Friday, July 30, 1954. The majority of the instructors will be members of the regular staff. Courses will be offered at both undergraduate and graduate levels. Departments so arrange their work that it is possible for students to pursue sequences from summer to summer.

PURPOSE

Through its Summer Session, Western Michigan College of Education provides educational opportunities for each of various groups. An exceptional range of courses is offered in both teaching and non-teaching fields applicable to degrees and certificates at both the undergraduate and graduate levels. Although the summer session is of special value to teachers, those preparing for other occupations will find its courses adequate for their needs.

The summer session 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 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 at Western Michigan College of Education since its foundation in 1903. In the summer of 1953, 960 undergraduates and 515 graduates were enrolled. At the close of the summer session, 134 bachelor's degrees were granted. These included 97 Bachelor of Science degrees, 37 Bachelor of Arts degrees. There were 72 Master of Arts degrees granted.

Teaching certificates were awarded as follows: State Elementary Provisional—64; State Secondary Provisional—25; and State Limited Certificates—18.

GROUNDS AND BUILDINGS

LOCATION

Western Michigan College of Education is located at Kalamazoo, Michigan, midway between Detroit and Chicago on the Michigan Central Railroad. This location ensures easy transportation to the campus from almost any direction, with three major highways, two railroads, an airline and numerous bus routes serving the community. The population of greater Kalamazoo is nearly 100,000, offering numerous cultural opportunities to students.

GROUNDS

The rolling campus of Western Michigan College now covers more than 280 acres, lying astride US-12 at its west entrance to Kalamazoo. The school began on a hilltop, but has expanded greatly and since World War II has moved a mile to the westward where the newer buildings are located. Two unusual features of the local campus are the nine-hole golf course adjacent to the west campus and the Kleinstueck Wild Life preserve one mile south of the east campus.

BUILDINGS

ADMINISTRATION AND CLASSROOM BUILDING—Administrative offices, the Graduate Division, Adult Education and Extension Division, Main Campus Store and other service facilities are housed in this newest structure, opened in the fall of 1952. Situated on the west campus, 25 classrooms are also provided here for the divisions of Language and Literature and Social Sciences.

ARCADIA BROOK CLUBHOUSE AND DINING HALL—This building on the west campus provides a cafeteria and soda bar for faculty and student use, with seating for 100. Faculty clubrooms are also provided.

EDUCATION BUILDING—The oldest building on the campus, it was formerly the Administration Building. It now houses a part of the Campus Training School, the Audio-Visual Center, Educational Service Library, Distributive Education Office and Education Department classrooms and offices.

HEALTH SERVICE BUILDING—This three-story structure, completed in 1940, houses on its first floor the Director of Teacher Education, Director of Vocational and Practical Arts, Director of Research, Rural Life and Education Department and the Psychology Department. The second floor is devoted entirely to the Student Health Service. On the third floor are classrooms for psychology, the Psycho-Educational Clinic and Speech Correction Clinic.

HILLSIDE APARTMENTS—Two modern buildings on the west campus provide 32 living units for faculty members, including bachelor, one-bedroom and two-bedroom apartments.

INDUSTRIAL ARTS BUILDING—This modern industrial arts classroom building, built in 1921, houses classes in printing, woodworking, machine shop, metal work and drafting.

KANLEY MEMORIAL CHAPEL—A main chapel, a smaller chapel in the basement, robing rooms, offices, conference rooms, a social room, kitchenette and bride's room are in this building which was constructed by a bequest from the estate of the late William Kanley. Designed in a modern motif, this structure serves as a campus religious center for all faiths.

LIBRARY BUILDING—The main floor reading room, with adjoining stacks, accommodates 300 students, with a periodical room in the basement holding another 50. The library's book collection now totals more than 91,650 volumes, which are housed in the general library on the east campus, the library annex in the Administration Building and the music library in Maybee Hall. Some 740 periodicals are currently being received, with 325 of them being bound. The Librarianship Department is housed on the second floor of the Library and the Mathematics Department in the basement.

HARPER MAYBEE MUSIC HALL—Of unusual and original design, the music building on the west campus was opened in 1949. It was constructed as a self-liquidating unit. Offices for the department, individual offices with adjoining instruction rooms, choral and instrumental rehearsal rooms, individual and ensemble practice rooms, a music library and a social room are included. The top floor houses the studios of WMCR, campus FM broadcasting station.

MAINTENANCE BUILDING—The maintenance staff here has offices, shops and storage facilities.

WILLIAM MCCRACKEN HALL—Lecture rooms and laboratories for the Departments of Chemistry, Physics, Occupational Therapy, Home Economics and Art are provided in the $1,000,000 classroom building opened in 1949 on the west campus. Quarters for the pulp and paper technology curriculum of the Chemistry Department are also provided.

MECHANICAL TRADES BUILDING—Over 20,000 square feet of floor space are provided in this building through a 1941 gift from the W. E. Upjohn Unemployment Trustee Corporation of Kalamazoo. The Department of Vocational-Industrial and Technical Education is centered here.

NATURAL SCIENCE BUILDING—Housed in this older east campus building are the Departments of Agriculture, Biology and Geography and Geology, with some other classes meeting here. An adjoining greenhouse is stocked with more than 200 species of plants from around the world. Basement space for the campus training school shop is provided.

TEMPORARY BUILDINGS—Six buildings have been obtained from the federal government for instructional uses. They provide facilities for business education, industrial arts and vocational education, reserve officer training corps and speech and dramatics.

THEATER—This unique little theater on the east campus is a center for campus dramatic activities, with an auditorium seating 350 persons. Classrooms for speech and dramatics, dressing rooms, rehearsal rooms and offices are included.

WALWOOD UNION BUILDING—In this social center, opened in 1939, one finds the Men's Union room and the Davis room for the Associated Women Students, a large cafeteria, private dining rooms, a soda bar and offices. A large ballroom and student offices and committee rooms are on the second floor.

DORMITORIES—Since 1939 Western Michigan College has opened all seven of its dormitories, three on the east campus and four on the west. All but Vandercook hall have their own dining facilities. A new double women's dormitory for the west campus is now being planned.

WALWOOD RESIDENCE HALL FOR WOMEN—This structure houses 115 girls in double rooms. A spacious lounge and recreational facilities are included.

LAVINA SPINDLER HALL FOR WOMEN—In this attractive building on the east campus 193 girls live in single and double rooms. An attractive lobby, reception rooms, recreation rooms, music practice rooms, a laundry, kitchenettes and sunrooms are a part of it.

HENRY B. VANDERCOOK HALL FOR MEN—Housing for 200 men is provided here, with a snack bar in the north lobby. It was named for one of the men instrumental in the founding of Western.

BURNHAM HALLS FOR MEN—This huge double dormitory on the west campus houses 500 men. Fine lounges and recreational facilities are a feature of the building.

BLANCHE DRAPER AND LYDIA SIEDSCHLAG HALLS FOR WOMEN—These twin dormitories adjacent to Burnham halls house 500 women. Gracious lounges, uniquely and individually decorated, furnish an immediate appeal for the buildings.

ATHLETIC PLANT

HYAMES FIELD—One of the finest collegiate baseball layouts in the nation, permanent seats are provided for 2,500 spectators.

MEN'S GYMNASIUM—Seating for basketball is about 3,000, with other facilities for indoor track and field events, handball courts, baseball practice pit, locker rooms and several classrooms.

WALDO STADIUM—Two concrete stands, each seating 7,500 persons, run from goal line to goal line, with the south stands topped by a large press box and beneath it a concession stand. Locker rooms, officials' rooms and equipment storage are provided under the north stands. An eight-lane quarter-mile track, with 220-yard straightaway, circles the football field.

WOMEN'S GYMNASIUM—Adjoining the Education Building is the women's gymnasium, including a gym floor 60 by 119 feet, with a stage at one side. A running track circles the floor, with offices and classrooms nearby. Beneath are lockers, showers and a swimming pool.

Tennis enthusiasts will find 12 courts, six concrete and six Har-Tru, on the east campus. A nine-hole golf course adjoins the west campus, with several local courses also available.

TRAINING SCHOOLS—A wide range of typical schools is included in the unique training school program at Western Michigan College. Included are a one-room rural school, a consolidated school, a large village school, a city-graded school and a high school. These give the student an opportunity for observation of and directed teaching in any subject and in any grade from kindergarten through the twelfth. Transportation to outlying schools is by college bus.

CAMPUS ELEMENTARY SCHOOL—Included are a nursery, kindergarten, rooms for each grade from one to eight, a library, gymnasium, special rooms for art, vocal music, instrumental music, home economics and shop training. A cafeteria is also provided in the building.

CAMPUS HIGH SCHOOL—One major function of the school is to offer a broad curriculum in which teaching procedures designed by leaders in the field of secondary education are put into practice. Another is to offer an effective laboratory situation for training prospective teachers for secondary schools. Standard facilities are included, and a well-rounded athletic and social program is a part of school life.

HURD ONE-ROOM RURAL SCHOOL—This modern building, west of Kalamazoo on M-43, provides a typical school scene, with an additional room for directed teaching.

PAW PAW LARGE-VILLAGE SCHOOL—Western Michigan College and the Paw Paw board of education unite to make this school a progressive one in every particular. Organized on the six-three-three plan, it is an outstanding school in the state.

PORTAGE TOWNSHIP SCHOOLS—Several elementary schools and a modern high school provide excellent laboratory situations.

KLEINSTUECK WILD LIFE PRESERVE

In 1922 the late Mrs. Caroline Hubbard Kleinstueck deeded to the State Board of Education for the use of Western Michigan College nearly 50 acres in a tract about one mile south of the east campus.

This wild life preserve abounds with land and water birds and many of the native plant species of the area. A 25-year stand of pine covers part of the area, with a hardwood forest, swamp and lake also to be found. Classes and student groups make a wide use of the area for instructional and recreational purposes.

MICHIGAN VETERANS VOCATIONAL SCHOOL

The Michigan Veterans Vocational School is a state institution under the supervision and management of the State Board of Education and is operated in conjunction with Western Michigan College. The major objectives of the school are to furnish the best possible vocational and trade training for veterans, and, as far as possible, to be a center for the rehabilitation of non-veterans authorized to take such training under Public Law 113. It is located on the north side of Pine Lake, 22 miles from Kalamazoo.

Direct application for admission may be made to the school by writing Michigan Veterans Vocational School, Pine Lake, Doster, Michigan.

SUMMER WORKSHOPS AND CLINICS

READING WORKSHOP

For the eighth successive summer, Western Michigan College of Education is offering a reading-improvement program for both elementary and secondary teachers and administrators. This integrated program will emphasize many phases of the reading problem. The course, Educational Therapy in Reading, will provide both graduate and undergraduate credit. In addition to and supplementing this course, the Psycho-Educational Clinic is providing a series of reading demonstrations and discussions throughout the summer session. The purpose of these demonstrations is to show teachers at the various levels how to plan and carry out an integrated and systematic program for providing remedial and corrective work in reading. The latest types of technical materials for clinical purposes and instructional reading materials of all kinds will be available.

In each demonstration a child, teacher, and one of the parents will participate. A special attempt will be made to present and make clear such standard procedures as those employed by Monroe, Fernald, Dolch, and Betts. Mechanized equipment such as rate boards, the Harvard Reading Films, and the Tachistoscope will be presented. Discussions and demonstrations will be held in Room 205, Natural Science Building.

WORKSHOP FOR TEACHERS OF MACHINE SHOP

A workshop for teachers of machine-shop work in the secondary and vocational schools is being planned for the two-week period, June 21 through July 2. Problems in the development of teaching aids and procedures best suited to the needs of the teachers in this field will be studied. New materials and techniques used by industry will be stressed. Opportunity will be provided for visits to machine-tool industries in the area.

The two-week workshop will carry two semester hours of graduate credit. The State Department of Public Instruction will accept credit for the workshop in lieu of recent trade experience required for the renewal of vocational certificates of machine-shop instructors.

SPECIAL EDUCATION WORKSHOP

The Workshop in Special Education was established to meet the needs of three groups of educational personnel: (1) Teachers and prospective teachers of all types of handicapped children. (2) Teachers in regular grades desiring courses pertaining to exceptional children. (3) Visiting teachers, social workers, school nurses, physio-therapists and occupational therapists who in the course of their work frequently encounter atypical children.

The Workshop seminars will include discussions of the medical, educational, vocational, and social problems of special class children with defec-

tive hearing, impaired vision, orthopedic involvements, and retarded mental development. Theory and method courses will be supplemented with class demonstrations and observations of handicapped children enrolled in the Workshop Demonstration School. Opportunities for practice teaching and for special research with any group of atypical children will be provided.

The presence on the campus of the Speech Clinic, the Psycho-Educational Clinic, and the Remedial Reading Workshop makes possible a varied and integrated program in Special Education.

MUSIC CLINIC

The two-week Summer Music Clinic, offering a stimulating musical experience in a vacation atmosphere, will be in session from July 5 through July 18. Staffed by the faculty of the College Music Department, the Clinic will be open to high school students, from the 9th through the 12th grades. College students who assist with the Clinic may earn 3 hours of undergraduate credit or 2 hours of graduate credit.

The integrated program will emphasize all phases of music, and will include, as well, planned recreational activities. The Clinic will offer daily instruction in orchestra, choir, band, and theory. Students may also participate in small ensembles and receive private instruction.

The session will close with a concert by the various groups.

TEACHERS WORKSHOP IN RADIO

Radio and television have made rapid strides during the past few years as increasingly important aids to the classroom teacher. WKAR and WKAR-FM radio outlets of Michigan State College, and WUOM-FM, operated by the University of Michigan, have greatly expanded their offerings for in-school listening. WMCR, the FM radio voice of Western Michigan College, broadcasts tape recordings of several of the above-mentioned series, as well as classroom series from many member stations of the National Association of Educational Broadcasters.

The Radio Workshop has been developed to train classroom teachers to use the many fine radio offerings already on the air and to give teachers practical experience in planning, writing, and producing their own programs in various subject-matter areas. Each member of the workshop is given intensive training in the use of magnetic-tape recording as an aid in teaching reading, literature, history, geography, and other subjects. Radio as a public-relations medium to explain educational policies and procedures to the general public is emphasized.

The workshop will be held in the studios of WMCR, a 250-watt FM station located in Maybee Hall. Professional facilities are available, giving workshop members opportunity to work out their problems in one of the best-equipped radio teaching set-ups in the country. So that teachers may have actual production experience and become familiar with educational station operation, WMCR will be on the air from five to nine p.m., during the summer session.

A new feature of the 1954 workshop will be experimental work in producing an educational motion picture synchronized with sound for possible use in the classroom or on television. Resource people from commercial radio and television will be brought in. Radio and television field trips will be arranged if desired.

WORKSHOP FOR COACHES OF ATHLETIC SPORTS

The Workshop for Coaches is offered again this summer as a result of enthusiastic response from the graduate students who participated in the workshop last summer.

Enrollment is open to graduate students only who have had coaching experience or who have completed undergraduate courses in the sport concerned. The course will consider problems in the coaching of fundamentals, the organization of practice periods, and offensive and defensive strategy.

Football and basketball will be considered during the first three weeks of the session, and baseball and track during the second three weeks of the session.

Coaches of varsity teams will instruct.

Classwork in the course will extend over three periods of two hours' duration each week. Football and basketball clinics will be offered during the period 1:50 to 3:30 on June 22, 23, 28, 29, 30, and July 6, 7, 12. Baseball and track clinics will be offered during the period 1:50 to 3:30 on July 13, 14, 19, 20, 21, 26, 27, 28. Thus, with the exception of June 21 and July 5, the clinics will be offered on Monday, Tuesday, and Wednesday of each week during the summer session.

SOCIAL STUDIES SEMINAR IN ENGLAND

Western Michigan College, in cooperation with Ashridge College, England, offers as part of its 1954 summer session, a second Social Studies Seminar abroad.

It is designed primarily for teachers and graduate or advanced undergraduate students in the Social Studies, and for other civic-minded persons with a major interest in contemporary affairs. Its primary aims are threefold: (1) to advance international understanding and goodwill, (2) to develop better-informed teachers of the Social Studies, and (3) to develop more effective community leaders.

The seminar will be in formal session for a period of five and one-half weeks, during June and July, on the campus of Ashridge College near London. During this period all students will be enrolled in regularly scheduled lecture and discussion courses. Conducted trips will constantly relate the lectures to the contemporary scene. Following the close of the formal session, the seminar party will travel for approximately three weeks through the Netherlands, Germany, Switzerland, and France.

Membership in the seminar is limited, and enrollments for 1954 have already been completed. The next Social Studies Seminar will probably be conducted in 1957.

STUDENT SERVICE FACILITIES

STUDENT WELFARE

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

The college has never assumed an attitude of paternalism toward its students. On the assumption, however, 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 expected.

STUDENT PERSONNEL AND GUIDANCE SERVICES

During the regular year, counseling services are furnished to all freshman and sophomore students on a mandatory basis. It is furnished to juniors and seniors on a voluntary basis. Such services are available to students of the Summer Session upon application to the Director of Student Personnel and Guidance. The counselors are responsible for helping the student on a total program basis. This includes planning to take care of the group requirements and other special requirements of the curriculum in which the student is enrolled, the choosing of suitable major and minor fields, and helping the student with any social or personal problem.

The Departmental Advisers are responsible for helping the student outline the subjects required in a major or minor field, their proper sequences, and to assist the student with other matters relating to the subjects taught in the department in which the major or minor falls. Majors and minors should be chosen by the end of the sophomore year.

Students are urged to avail themselves of the services of both the counselor and the Departmental Advisers. Names of the Departmental Advisers, their rooms and office hours, will be found in the Summer Session Schedule of Classes.

EMPLOYMENT FOR MEN AND FOR WOMEN

Students interested in earning money with which to pay in part their expenses will be given advice and detailed information upon application. Students whose point-hour ratio is less than .8 are not eligible for campus employment. Off-campus employment for students is handled through the offices of the Dean of Men and the Dean of Women.

VETERANS COUNSELING SERVICES

A complete counseling service is maintained exclusively for veterans of World War II and the Korean War. Counselors assist veterans in enrolling and preparing the necessary papers for securing Veterans Administration subsistence.

The service is available throughout the school year, and veterans avail themselves of the opportunity to secure information, gain assistance in preparing papers and reports demanded by the Veterans Administration, filing applications for loans, and checking on many other matters in which they are interested.

OCCUPATIONAL COUNSELING SERVICE

The occupational counseling service has as its primary objective the assistance to individuals in making suitable occupational choices. This service is rendered in cooperation with the Psycho-Educational Clinic.

Any enrolled student desiring a complete discussion of his interests, aptitudes and abilities as shown by education or work experiences and by scores on standard tests may seek this help. Referrals are made by counselors, faculty, or staff members. Individuals may also seek occupational counseling, either general or for a specific objective.

Students who have not made their specific vocational plans are urged to avail themselves of this opportunity early in their college careers.

HOUSING FOR WOMEN

Single, undergraduate women under 25 years of age, not living at home or with relatives, are required to live in college dormitories. Spindler Hall on the east and Draper Hall on the west campus will be open. The regular dormitory rules will be relaxed for the summer session for mature women over 25 years of age, graduate women students, and those who are married. The rates follow:

Room only:

Single room (for six weeks)	$36.00
Double room rented as single (for six weeks)	36.00
Double room rented as double (for six weeks)	27.00

Request for information and application for a dormitory reservation should be addressed to the Office of the Dean of Women. The application must be accompanied by a $10.00 deposit.

Women eligible to live off campus may receive information concerning living quarters in private homes from the Office of the Dean of Women.

HOUSING FOR MEN

Men students of the summer session are required to live in residences approved by the Office of the Dean of Men.

Vandercook Hall, Western's dormitory for men, is available for men students upon making application to Mr. J. Towner Smith, Dean of Men.

Henry B. Vandercook Hall—Residence for Men

Room only

Two in room (each person for six weeks session)	$27.00
Double rooms rented as single for six weeks session	36.00

For information and reservation for men, write to Mr. J. Towner Smith, Dean of Men.

HOUSING FOR MARRIED STUDENTS

During the past year, ninety-six tastefully furnished apartments in eight units, of permanent block construction, were completed on the west campus. These units replaced temporary post-war structures. The average apartment has about 600 square feet of living space with one bedroom. A few two-bedroom units are included. Laundry and storage facilities are also provided in the building. They are located adjacent to Draper-Siedschlag and Burnham residences. All applications are to be made to Mr. J. Towner Smith, Dean of Men. A $10.00 deposit is required.

ADMINISTRATIVE REGULATIONS

Drinking. The college is opposed to the use of liquor in any form. It will not allow the use of liquor at college functions, in college buildings, or on college property. Students entering their rooming places, either the dormitories or private houses, under the influence of liquor, and students who introduce liquor into any rooming place or college building will be subject to dismissal from the college.

Hitch-hiking. There is to be no hitch-hiking. No college woman is to accept a ride with any person she does not know.

THE COLLEGE CAFETERIA

Walwood Hall Cafeteria is maintained for student and faculty use. Wholesome food is provided here at low cost.

The Cafeteria hours are:

Monday through Friday

Breakfast	6:45 to 8:30 A.M.
Lunch	11:00 to 1:15 P.M.
Dinner	5:00 to 6:30 P.M.

Saturday

Lunch	11:30 to 1:00 P.M.
Dinner	5:30 to 6:30 P.M.

Sunday ..... 12:15 to 1:45 P.M.

ARCADIA BROOK CAFETERIA AND SNACK BAR

Monday through Friday only	7:00 A.M.-6:30 P.M.
Saturday	8:30-9:30, 11:30-1:00, 5:00-6:30.
Sunday	8:30-9:30, 3:00-8:00.

SHUTTLE BUS

Shuttle bus service between the east and west campuses will be in operation during the summer session at frequent intervals. The schedule for this service will be published in the *Summer Session Events*, the weekly publication of the summer session.

CAMPUS STORES

Western's Campus Stores exert every effort to keep adequate stocks of all supplies needed by students for class work, as well as many other items for their convenience. Their locations are: No. 1 in the Administration Building and No. 2 in the Education Building.

SERVICE TO FOREIGN STUDENTS

Students from many countries give a cosmopolitan atmosphere to Western's campus. In the regular school year of 1953-1954 more than fifty foreign students, displaced persons, and American citizens from overseas were enrolled. Among the countries represented were: France, Germany, Latvia, Paraguay, Korea, Thailand, Puerto Rico, Liberia, Hawaii, Turkey, Colombia, Canada, Jordan, and Hungary.

Many of these students live in the dormitories with American roommates. They participate actively in the life of the college and of the Kalamazoo community and make a valuable contribution to international understanding.

STUDENT HEALTH SERVICE

Health is fundamental to the enjoyment of a student's college life and indispensable to his success as a teacher or in other professional and business careers. Health signifies the adjustment to living which comes from mental, emotional, and physical well-being.

The purpose of the student health service at Western Michigan College is to help students develop an appreciation of the essentials of healthful living and to assume the responsibility for intelligent self-direction and a knowledge of when to ask for expert advice.

Students are entitled to the following services:

1. Medical examinations and conferences.
2. Dental examinations and conferences.
3. First-aid emergencies.
4. Care of minor ailments and followup treatments, as advised by the doctor during clinic hours.

The clinic on the east campus, in the Health Service building, is open for consultation and treatment from 8:00 A.M. until 4:30 P.M. Monday through Friday, and from 9:00 A.M. until 12:00 noon on Saturdays. The college physician is in the office for consultation from 8:30 until 10:00 A.M., Monday through Friday. The dentist is in the office on Tuesday and Thursday mornings each week.

Consultations and treatments given in the Health Service are free to the students, except for special medications and the materials used by the dentist; even these are purchased at wholesale rates, when possible, and the student is given the benefit of the lower cost.

It is necessary to concentrate all of the work in the main office during the summer session; therefore, the branch office in the Administration Building will be closed.

THE GENERAL LIBRARY

The General Library on the east campus provides seating for 300 in the Reading Room on the first floor where the reference collection is shelved, and the Periodical Room in the basement provides 50 seats.

The General Library's collection consists of more than 91,650 volumes. Approximately 740 periodicals are currently received and of these more than 325 are bound for permanent retention.

About 1800 volumes are housed on the west campus in Room 206, Maybee Hall, where a Music Library with a seating capacity of 50 is supervised by a member of the professional library staff as a branch of the General Library. This branch receives a dozen current periodicals and has a collection of 2100 phonograph records which can be used in the adjoining listening room.

In Room 208, Administration Building, the Library Annex has a seating capacity of 85. The library's holdings include 1400 books in the physical sciences, over 400 books on reserve for the Social Sciences and English, and some 500 general reference books. The library subscribes to 75 current science and 13 general periodicals, and to 4 newspapers. The holdings include 950 bound periodicals in science. The Library Annex is also a branch of the Main Library and is supervised by a member of the general library staff.

During the summer session, the General Library is open for service from 7:00 a.m. to 10:00 p.m., Monday through Thursday; 7:00 a.m. to 9:00 p.m., Friday; and 8:00 a.m. to 5:00 p.m., Saturday.

The Music Library is open from 8:00 a.m. to 4:00 p.m., Monday through Friday. The Library Annex is open from 8:00 a.m. to 5:00 p.m., Monday through Friday.

EDUCATIONAL SERVICE LIBRARY

The Educational Service Library, formerly the Textbook Library and Curriculum Bureau, Room 103, Education Building, provides for students of teaching and education a representative collection of the latest editions of textbooks both in the elementary and secondary fields, texts for each of the common branches and special subjects, books in general education, professional books in the different subject areas, teaching and curriculum aids, source and reference material, a fine collection of elementary and secondary courses of study in all subject fields, children's literature, bulletin and ephemeral materials in all subject fields, and current educational magazines. Loan service is provided and the open shelves aid in reference and research work.

The Library serves not only the various departments on the campus, the undergraduate and graduate students in various subject fields, but also students and teachers who desire help in the solving of problems in the workshop or in the field. In-service use is extended to conferences, visiting teachers, and correspondents.

PSYCHO-EDUCATIONAL CLINIC

The purpose of the Psycho-Educational Clinic at Western Michigan College of Education is to provide psychological service for maladjusted children and adults, centering not only upon diagnosis but upon remedial measures as well. It is the plan of the clinic, whose laboratory is equipped with modern psychological apparatus, to train a number of competent students to deal with psycho-educational problems involving academic, social and emotional maladjustment and with educational and vocational counseling. The personnel cooperating in these clinical studies consists of a director, associate director, and three assistants, members of the Division of Student Personnel and Guidance, and local psychiatrists, pediatricians, and ophthalmologists. The average case load each month has consisted of approximately fifty-two clinical, advisory, and vocational problems. Approximately 34 per cent of these cases are referred by social and relief agencies in Michigan, 35 per cent by school authorities, 18 per cent by parents and relatives, 10 per cent by other persons and organizations, and 3 per cent by private physicians.

READING LABORATORY

Individuals wishing to improve their reading skill may spend from one to two hours in the Reading Laboratory on Tuesday and Thursday of each week. The personnel of the laboratory consists of the director and three technicians. Twenty-two basic assignments have been prepared, and each student is expected to proceed from assignment to assignment as his ability permits. The facilities of the Psycho-Educational Clinic will be drawn upon to provide clinical service whenever the student's needs warrant.

DIRECTED TEACHING FACILITIES

Opportunities for directed teaching will be available for a limited number of students during the morning hours of the summer session. The Campus Elementary School, with kindergarten and grades one through eight, will be open from 8:30 a.m. to 12:00 m., and some opportunities for directed teaching in selected secondary school subjects will be available at Central High School, Kalamazoo. Three semester hours of credit in directed teaching will be offered to students with experience who are unable to be in residence during the regular session. Application for enrollment for directed teaching in the elementary or secondary school should be made to the Director of Teacher Education well in advance of the opening of the session.

PLACEMENT SERVICE

The Office of Placement and Alumni Relations is designed to give service to all graduating students and alumni of Western Michigan College of Education. The placement work of the office is divided into four main fields, (a) teacher placement for those entering the teaching profession, (b) vocational placement for those graduating from technical and vocational courses, (c) placement for graduates with the general degree, and (d) placement of alumni who are seeking new positions.

(a) TEACHER PLACEMENT—Candidates for teaching positions enroll with the placement bureau early in the year in which their teaching certificate will be granted. The credentials compiled for each student include, (1) a statement of his choice of teaching fields, (2) a short autobiography of the candidate, (3) letters of recommendation from faculty members selected by the student, (4) a copy of the student's academic record, (5) a departmental recommendation, and (6) the report from the supervisor of the student's directed teaching. Recommendations from former employers are often included. Photographs of the candidates are also required.

These placement credentials are supplied to superintendents and boards of education who are searching for teachers. Direct contacts between the teacher candidate and employing officials are established.

(b) VOCATIONAL PLACEMENT—Graduating students in the Division of Vocational and Practical Arts Education also enroll for placement service with the Office of Placement and Alumni Relations. Credentials quite similar to those compiled for teacher candidates are assembled for each enrollee. Special emphasis is placed upon recommendations in the candidate's field of specialization. Close cooperation is maintained between the Office of Placement and Alumni Relations and the Vocational Division which counsels students generally on occupational matters. Contacts are maintained with large numbers of employers in industrial, business, technical and professional fields. These employers are advised of the quality and amount of training our vocational students are given. Names and credentials of prospective employees are furnished upon the employer's request.

(c) PLACEMENT OF GENERAL DEGREE GRADUATES—General Degree students who are not pursuing a vocational curriculum should also use the services of the Office of Placement and Alumni Relations. Many calls come from prospective employers that college-trained people can readily fill.

(d) ALUMNI PLACEMENT—Alumni of Western in any field who have qualified themselves for promotion by successful experience and by advanced study are urged to use the facilities of the Placement and Alumni Relations Office when change of position or promotion is desired. The alumnus who seeks such advancement should furnish the Office of Placement and Alumni Relations with records that show his progress, and with letters of recommendation from those who can speak with authority regarding his accomplishments and abilities. Experienced candidates in all fields are frequently in demand. The alumnus who desires to be considered when opportunity for placement arrives should keep his credentials up-to-date and currently active.

ALUMNI ORGANIZATION

A large portion of the work of the Office of Placement and Alumni Relations deals with the problem of maintaining mutually helpful communication between Western Michigan College and her graduates and ex-students.

In its brief history of a half century, Western Michigan College has granted degrees and/or certificates to approximately 24,000 individuals. More than 50,000 ex-students who did not take a degree or certificate have had part of their educational training at Western. This constantly growing body of alumni increases the stature and significance of Western Michigan College with every succeeding year. Her sons and daughters are to be found in many lands pursuing many walks in life. More of her alumni are engaged in teaching than any other single occupation, but others have entered business, agriculture and the various professions.

Western Michigan College benefits immeasurably by the spirit of good will her alumni are building. Numbers of fine students are sent to Western's campus every year by former graduates. Several of these students are the recipients of scholarships provided by these interested and loyal alumni.

A main function of the Office of Placement and Alumni Relations is to keep as accurate mailing lists as possible of our alumni and to supply them periodically with information concerning changes and developments at the college. Another important project is to provide two annual reunion occasions upon which the members of the Alumni Association, first formed in 1906, may return to the campus to renew old friendships. These are the annual Homecoming held on the week-end of an important football game in the fall, and the annual alumni day held in the spring.

Numerous local units of Western Alumni have been formed in areas where there are enough alumni members to warrant such organization. Plans are being projected to increase the number of these considerably.

The placement service for alumni by the Office of Placement and Alumni Relations has been fully discussed in the section on "Placement Service."

OFFICE OF EXTENSION AND ADULT EDUCATION

The Office of Extension and Adult Education offers educational opportunities to persons who do not participate in the regular full-time undergraduate or graduate program of the college.

Serving primarily the 16 counties of Southwestern Michigan, Western's offerings through Extension and Adult Education last year reached 28,373 persons. Of these, 4,540 represented extension class and correspondence enrollments. The remainder were contacted through adult education activities in conferences and discussion groups; through in-service education programs; and through extension course planning meetings.

A variety of courses is offered to benefit teachers in the field and the other interested adult students. Course offerings in the 16 counties are planned in committees with county superintendents, public school superintendents, and their teacher committees. Courses are offered on both the undergraduate and graduate levels. A special schedule of on-campus offerings is planned each semester for persons who can attend Saturday or evening classes.

There is also a wide variety of correspondence courses available. These may be taken for credit and applied toward the undergraduate degree within the limitations described in this bulletin on page 58.

In the field of adult education the office supplies advising services, speakers, discussion leaders, and persons qualified to handle leadership training programs. Upon request, such services are available to farm groups, labor unions, schools, church organizations, and other organizations.

In-service education programs are planned with schools, businesses, and any institutions seeking to improve personnel within the institutions. Advisory services are offered, as well as actual training programs.

For a schedule of fees, details of policy, and further information please write the Office of Extension and Adult Education.

AVIATION TEACHER EDUCATION

Due to the importance of aviation and its effect on the social, economic and political structure of the world at large, all teachers should have some understanding of aviation. In order that prospective and in-service teachers many secure a basic knowledge of aviation and be prepared to infuse pertinent aviation materials in the courses which they expect to teach, a sequence of aviation courses has been arranged for this purpose. Those who are particularly interested in aviation my take a minor in this area. For many students, one or two aviation courses are recommended.

UNDERGRADUATE DIVISION

RULES AND REGULATIONS

ADMISSION

Students may be admitted at the opening of any semester or summer session.

GENERAL QUALIFICATIONS

The college expects that those who wish to enter will have shown intellectual capacity, and will be able to apply themselves to their studies and to work systematically. While definite evidence of intellectual capacity is indispensable, the college believes that, after such evidence is established, positive qualities of character and personality should operate as determining factors in admission. Each application will be carefully reviewed and much weight will be attached to character, personality, previous record, and promise, as well as to scholarly attainments. Satisfactory showing in scholarship alone is not of itself sufficient to guarantee admission. The college will arrange for personal interviews whenever requested.

Attendance at Western Michigan College of Education is considered a privilege and not a right. In order to safeguard its ideals of scholarship, character, and personality, the college reserves the right, and the student concedes to the college the right, to require the withdrawal of any student at any time for any reason deemed sufficient to the college.

CREDENTIALS SHOULD BE SENT IN ADVANCE

All prospective students desiring admission to the college are urged to submit their problems of eligibility for entrance to the registrar, who will act upon each case individually.

High school credits should be sent to the registrar in advance, that there may be no delay when the student presents himself for registration and enrollment. A student who has not filed a copy of his high school credits in advance should present it at the time of registration.

A prospective student should confer with his high school principal regarding the filling out of an "Application for Admission" blank.

ENTRANCE FROM HIGH SCHOOLS

Students may be admitted in any one of the following ways:

I. ADMISSION BY CERTIFICATE: A graduate of a high school, academy or equivalent may be admitted upon presentation of an acceptable written official record.

II. ADMISSION BY EXAMINATION: A person who does not qualify for admission by certificate may be admitted by passing satisfactorily examinations prescribed by the college.

III. ADMISSION UNDER THE SECONDARY SCHOOL-COLLEGE AGREEMENT: A graduate qualified under this agreement will be admitted provided he is recommended by the school as having shown evidence of being reasonably certain to handle college studies satisfactorily.

IV. ADMISSION BY ADVANCED STANDING: A student transferring from an accredited college, university, or junior college may be admitted upon presentation of an acceptable written official transcript of credits showing honorable dismissal. A graduate of a Michigan county normal, having completed the four-year high school course may also be admitted upon presentation of an acceptable written official transcript of credits showing honorable dismissal.

V. ADMISSION AS A SPECIAL STUDENT: A person who holds a bachelor's degree or a higher degree for which it is prerequisite, may be admitted to the college as a special student upon presentation of credentials showing that he holds such degree or degrees. A person twenty-one years of age or older who wishes to study at this college may be admitted by the Supervisor of Admissions with the approval of the President, provided he is unable to furnish other credentials upon which his admission might be based. Before any special student can receive a degree or certificate from this college, he must have met the requirements for admission prescribed under the other admission procedures numbered I-IV above.

VI. ADMISSION AS A GUEST: One who is regularly matriculated at another college may be admitted as a guest student. The student assumes full responsibility for determining whether or not the courses he takes at this college will apply on his program of study. A guest matriculant is urged to have the courses to be taken approved in advance by the registrar of the college to which the credits are to be transferred. The principal or counselor of the student will be asked to recommend him only with respect to his moral character.

TRANSFER STUDENTS

Western Michigan College of Education accepts students with advanced standing from other regularly accredited institutions. They are required to have had mailed to the registrar, in advance, official transcripts of their credits, including statements of honorable dismissal. Students entering by transfer are required to maintain at least a "C" average while in residence, and, in addition, to remove any deficiency in honor points which may be involved.

The maximum amount of credit which may be accepted from a junior college is 60 semester hours. If a student has attended any college prior to his attendance at junior college, such hours earned will be deducted from the 60 hours he may present.

Students desiring to transfer to this college from other institutions of higher education must furnish complete official transcripts of their records, listing all credits earned by them up to the beginning of the session they wish to attend. The student should request the registrar of each institution attended to submit the official transcript directly to the admission officer named above. These transcripts should include (1) a complete list of and the record obtained in the college courses pursued and (2) statements of honorable dismissal from the institutions attended. It is also necessary for the student to submit a personal application blank and to request his high school principal to submit an official statement of his preparatory record. Blanks for personal application and for the high school record may be secured from the admission officer named above. Consideration of admission on transfer is on the basis of the *entire* record of the student, both high school and collegiate. No part of the record may be disregarded.

There are no exceptions to this regulation. Students applying for admission for the summer session are urged to submit their credentials as early as possible.

Inquiries concerning admission from other institutions of higher education should be addressed to Mr. John C. Hoekje, Registrar, in charge of admissions on advanced standing.

Students with unsatisfactory scholarships or conduct records will not be admitted.

TRANSIENT STUDENTS

A student from another institution who wishes to enroll for the summer session but who is not transferring permanently to this college is required to submit an official statement from his college to the effect that he is in good standing at that institution. Those transferring permanently are, of course, required to submit official transcripts of credits earned in other institutions.

TRANSFER TO OTHER COLLEGES AND UNIVERSITIES

Graduates who have received the former five-year certificate or the new State Limited Certificate usually are granted junior standing in colleges and universities. They are able to fulfill the requirements for a degree by an additional two years of work. A student who desires to earn a provisional certificate in the college and then complete the work for a degree in some other college or university should plan his work with the requirements of the particular institution in mind.

Admission to graduate schools is granted to students completing a four-year curriculum who have made their elections of courses conform to the requirements of such schools. Western Michigan College of Education is fully accredited by the American Association of Teachers Colleges and by the North Central Association. The college is also on the approved list of the Association of American Universities.

TRANSCRIPTS

A student desiring a transcript of his record in this college should write to John C. Hoekje, Registrar, giving dates of attendance and, if a graduate, the date of graduation. *He should give the full name under which he was enrolled.* Each student is entitled to one transcript of his record without charge, but all additional copies are charged for at the rate of one dollar a copy.

College authorities, school officials and boards of education desiring transcripts of records of students or graduates of Western Michigan College of Education should furnish, together with their request, as much of the information indicated as possible.

IDENTIFICATION PHOTOGRAPH

When a student enrolls for the first time, he is required to have taken an identification photograph of which three copies are made. One copy 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.

COLLEGE-ABILITY TESTS

Tests of ability to do college work acceptably are required of each student upon entrance. This applies not only to freshmen but to upperclassmen as well. The results of these tests are not used as a part of the entrance qualifications, but are of service in advising students regarding their scholastic work. Credits will be withheld from students for whom there is no record of such entrance tests having been taken.

These qualifying examinations are used to predict the student's ability to do satisfactory academic work. The tests are also a measure of the student's ability to read and interpret content material at the college level. The ability to use language is the criterion for the predictions and interpretations of the tests. These examinations do not deal with specific subject-matter areas and no intensive preparation should be made by the examinee.

REGISTRATION, CLASSIFICATION, ETC.

All students are required, at the beginning of each semester or summer session to enroll with the registrar of the college, to pay their fees to the cashier of the college, and to file an election blank properly filled out, showing the courses they expect to pursue during the semester. The completion of the foregoing constitutes registration in this college.

GENERAL INSTRUCTIONS FOR ENROLLMENT

Before the beginning of each semester or summer session the dean of administration prepares a special form, giving full information for enrollment. A copy of this form may be obtained upon request.

Enrollment for the summer session will occur on Monday, June 21, 1954. A circular giving detailed information relative to registration may be obtained at the Information Desk in the Administration Office on enrollment day.

STANDARD CLASS LOAD FOR SUMMER SESSIONS

The normal load for the six weeks' session is six semester hours. Credit in excess of these amounts will not be granted unless permission to carry extra hours is obtained from the registrar prior to registration.

EXTRA HOURS

No student may enroll for more than six semester hours in the summer session without the permission of the registrar.

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

SUB-MINIMUM LOAD

Students desiring to carry less than four semester hours during the summer session must make application on the regular blanks provided for that purpose. These can be secured from the registrar.

CLASSIFICATION OF STUDENTS

Students at Western Michigan College of Education are classified officially as follows:

Freshmen—Students credited with 0-30 semester hours inclusive.

Sophomores—Students credited with 30-60 semester hours inclusive.

Juniors—Students credited with 60-90 semester hours inclusive.

Seniors—Students credited with more than 90 semester hours.

The above classification relates to eligibility for participation:

a. In class activities

b. As officers

c. In social affairs

WITHDRAWAL FROM COURSES

Necessary changes in enrollment must have been made by the end of the first week of the session.

The mark *W* will be given only when the registrar issues an Official Drop Slip. If a student withdraws from a class without the registrar's written permission, a mark of *E* (failure) will be given.

Permission to drop courses will not be given upperclassmen after the end of the third complete week of a semester. Freshmen will not be allowed to drop courses after the end of the fourth complete week of a semester.

ABSENCES AND EXCUSES

The following constitutes the official rulings covering absences and excuses as authorized by the President, following discussion with the Faculty Council and Scholarship Committee.

1. Students are responsible directly to their instructors for class and laboratory attendance as well as for petitions for excuses for absences.
2. Instructors must file weekly with the deans detailed records of absences for a given week.
3. The deans will maintain a cumulative record of absences, but will not issue excuses. These absences will be recorded also on the permanent record and in the placement bureau.

It is to be noted that students who anticipate being absent or who have had prolonged periods of absence should confer with the appropriate dean and give explanation concerning their cases. But such "explanations of absence" are not to be construed by instructors as constituting "excuses for absences."

HONORS IN COURSE

Honors in course are bestowed upon graduating students who have displayed special attainments in scholarship. Such honors are announced at a special convocation.

Recipients of honors receiving their degrees:

Cum laude	When having a point-hour ratio of 2.5 to 2.69 inclusive
Magna cum laude	When having a point-hour ratio of 2.7 to 2.89 inclusive
Summa cum laude	When having a point-hour ratio of 2.9 to 3.0 inclusive

In figuring point-hour ratios the following method will be used:

For all students attending from the beginning of the freshman or the sophomore year, semesters 3 to 7 inclusive will be counted.

For all students a minimum of 150 honor points earned here will be required.

Credits earned in correspondence and extension classes and transferred credits will not be counted toward honors.

REGULATIONS RELATING TO EXAMINATIONS

1. A final examination is given in every course.

2. Students are required to take examinations in all courses except such as they may have dropped with the consent of the registrar.

3. Students are in no case examined at any other time than that set for the examination of the class in which the work has been done. In case of unavoidable conflicts a special examination during examination week may be arranged by the instructor with the consent of the registrar.

4. A student desiring to take a second examination in a given subject must make formal application to the registrar at least ten days before the time for the second examination.

MARKING SYSTEM

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

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

Grade	Significance	Honor Points (Per Hour of Credit)
A	Excellent	3
B	Good	2
C	Fair	1
D	Passing	0
*U	Unsatisfactory	Not to be counted
E	Failure	0
I	Incomplete	
W	Withdrawn	

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

I's must be removed during the next succeeding semester (except when the student does not return, and then within one year) or they automatically become *E*'s.

The mark *E* means that the student has failed. *E*'s and *W*'s can be removed only by taking again all the work involved.

Upon his entrance to the institution, after the acceptance of his entrance credentials, a Student's Credit Book is made out for each student. It may be secured at the Records office (Room 109, Administration Building). Freshman grades are mailed directly to parents by the Registrar.

ATTENDANCE AT COMMENCEMENT

All students who complete the requirements for graduation and are entitled to receive degrees in August are expected to be present at the commencement exercises.

*For Directed Teaching only.

SCHOLARSHIP INDEX

The total number of honor points acquired divided by the total number of semester hours taken gives the scholarship index (courses repeated are counted each time taken).

STANDARD FOR GRADUATION

No student will be graduated on any curriculum if his scholarship index based on the work of that curriculum is less than 1.0.

LOW SCHOLARSHIP LIST

1. Any freshman whose point-hour ratio for any semester or summer session falls below 1.0 shall be warned; if the ratio falls below 0.6, he shall be automatically placed on probation. If, during this first semester of probation, his point-hour ratio rises above the 0.6 but falls below 1.0 he may, at the discretion of the Dean of Administration, be continued on probation for one more semester.

2. Any student beyond freshman standing whose point-hour ratio for any semester or summer session falls below 0.8, shall be automatically placed on probation. If he fails to maintain a 1.0 ratio during the first semester of probation but achieves a ratio of 0.8 or higher, he may, at the discretion of the Dean of Administration, be granted one more semester of probation.

3. No student may be restored to good standing until the point-hour ratio for any probationary semester has been raised to a minimum of 1.0.

4. No student may be granted a third consecutive semester of probation.

5. Any student who receives *E* in 75 per cent of the work attempted during a semester shall be automatically dropped from college.

6. In the case of a student who is dropped, at least one full semester shall elapse before the student is eligible for consideration for re-admission.

7. In administering the above regulations, the Dean of Administration has authority to permit deviations in unusual circumstances. He will, each semester, report to the President the progress of students granted such special dispensation.

HIGH SCHOLARSHIP LIST

To have his name placed on the High Scholarship List for a semester or summer session a student must have a point-hour ratio of 2.64 or more. No grade below *B* may be counted. Not more than eight semester hours in any one department may be counted. No more than five semester hours of *B* credit may be counted. Grades for non-credit courses (library methods, physical education, etc.) are not considered. The minimum number of hours to be taken must be fourteen semester hours.

CREDIT FOR BAND, GLEE CLUB, AND ORCHESTRA WORK

1. A maximum of two semester hours of academic credit annually is given for one year's regular participation in each of the following activities: Band, Glee Club, Orchestra, and Auxiliary Choir.

2. Eight semester hours of academic credit is the maximum allowed for participation in any one of the four activities indicated.

3. A grand total of not to exceed twelve semester hours of academic credit is allowed for participation in the four activities noted.

4. Participation in Band may be substituted for physical education credit up to a maximum of three semester hours. A minimum of one semester hour of credit must be earned by actual participation in general physical education classes by each student who is participating in Band. Substitution of Band participation for physical education credit during the second semester is possible only if the student has participated in the marching Band during the first semester.

5. Official enrollment cards must bear notations of work in music the student wishes to carry. Semester hour values must be indicated.

SIGNIFICANCE OF COURSE NUMBERS

I. Course numbering and availability

1. Courses numbered
   a. 100-199, inclusive, are primarily for freshmen;
   b. 200-299, inclusive, are primarily for sophomores;
   c. 300-399, inclusive, are primarily for juniors and seniors;
   d. 400-499, inclusive, are for upperclassmen and graduate students;
   e. 500-599, inclusive, are for graduate students.

2. In general, students will be permitted to carry only courses numbered to correspond with their official classification. But exceptions may be made, with the approval of curricula advisers, for such reasons as maturity, experience, necessity of meeting prerequisites to other courses, etc.

II. Explanation of numbering

1. All consecutive, coherent courses are numbered similarly and lettered sequentially.

2. All fundamental, consecutive, coherent courses are numbered as follows:

a. The number 100 is reserved for fundamental courses having no high-school prerequisite.

b. The number 101 is reserved for fundamental courses having as prerequisites one year (or fraction thereof) of high-school work.

c. The number 102 is reserved for fundamental courses having as prerequisites two years of high-school work.

d. The number 103 is reserved for fundamental courses having as prerequisites three years of high-school work.

e. The number 104 is reserved for fundamental courses having as prerequisites four years of high-school work.

3. All other courses primarily intended for freshmen are numbered serially beginning with 105.

4. Prerequisites for all courses numbered 200-399, inclusive, may be found in the "details of Department Courses" as printed in the current college catalog.

5. All consecutive courses are numbered sequentially.

6. Numbers 300-302 inclusive are reserved for courses which are offered in departments other than the Department of Education, the so-called "professional courses."

7. Courses offered as subdivisions of a given department are designated by numbers grouped by decades.

8. A course offered off-campus for residence credit has the letters *R.Cl.* added to the number.

9. To the number of a course available by correspondence there is added *Co.*

CREDIT IN SEMESTER HOURS

The unit of credit is the semester hour; the number of semester hours credit given for a course generally indicates the number of class periods a week.

Classes which meet one hour a week for one regular semester will be given 1 semester hour of credit.

Classes which meet two hours a week for one regular semester will be given 2 semester hours of credit.

Classes which meet three hours a week for one regular semester will be given 3 semester hours of credit.

Classes which meet four hours a week for one regular semester will be given 4 semester hours of credit.

A minimum of 60 semester hours of credit is required for a State Limited Certificate in the two-year Rural Elementary Curriculum, and 124 semester hours of credit for the A.B. or B.S. degree.

Six semester hours is the standard class load for a summer session.

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

CLASS PERIODS FOR SUMMER SESSIONS

First Period	7:30- 9:10	(100 minutes)
Second Period	9:30-10:20	(50 minutes)
Third Period	10:40-12:20	(100 minutes)
Fourth Period	12:40- 1:30	(50 minutes)
Fifth Period	1:50- 3:30	(100 minutes)
Sixth Period	3:50- 4.40	(50 minutes)

PLAN FOR SCHEDULING UNDERGRADUATE CLASSES

1 hour credit	Three 50-minute periods weekly
2 hours credit	Five 50-minute periods weekly
3 hours credit	Four 100-minute periods weekly
4 hours credit	Five 100-minute periods weekly

PLAN FOR SCHEDULING GRADUATE CLASSES

First Period	7:30-8:20	(graduates only)
	8:30-9:20	(graduates only)
Second Period	9:30-10:20	(graduates and upperclassmen)
Third Period	10:40-11:30	(graduates only)
	11:30-12:30	(graduates only)
Fourth Period	12:40-1:30	(graduates and upperclassmen)
Fifth Period	1:50-2:40	(graduates only)
	2:50-3:40	(graduates only)
Sixth Period	3:50-4:40	(graduates and upperclassmen)

EXPENSES

FEES FOR UNDERGRADUATES

Schedule of fees for the Summer Session, 1954:

	Tuition Fees		Local Fees*	Total Tuition and Fees	
	Resident	Non-Resident		Resident	Non-Resident
1-3 semester hours	$ 7.50	$15.00	$20.00	$27.50	$35.00
4-6 semester hours	15.00	30.00	20.00	35.00	50.00
7-9 semester hours	22.50	45.00	20.00	42.50	65.00

*These local fees are collected each session for the support of student activities, health service, student union, library purposes, departmental laboratories, identification photograph, cap and gown, diploma, etc.

There is a special departmental music fee for Applied Music of $20.00.

Late Enrollment Fee

By action of the State Board of Education all students who enroll after the established registration day of a session will be charged an additional fee of $5.00.

RESIDENCE REQUIREMENTS

Residence in Michigan for the purpose of registration shall be determined according to the state constitutional provision governing the residence of electors (See Article III, Sections 1 and 2); that is, no one shall be deemed a resident of Michigan for the purpose of registration in the college unless he has resided in this state six months next preceding the date of his proposed enrollment, and no person shall be deemed to have gained or lost a residence in this state while a student in the college.

The residence of minors shall follow that of the legal guardians.

The residence of wives shall follow that of their husbands.

Persons of other countries who have taken out their first citizenship papers and who have otherwise met these requirements for residence shall be regarded as eligible for registration as residents of Michigan.

It shall be the duty of every student at registration, if there be any possible question as to his right to legal residence in Michigan under rules stated above, to raise the question with the registration officer and have such question passed upon and settled previous to registration.

Auditors' Fees

Auditors (students who attend classes but do not desire credit) are governed by the same regulations as are students desiring credit.

REFUNDS

SUMMER SESSION

State Tuition and College Fee—A student who withdraws from college or who has been approved for a reduced load resulting in lower fees will be granted a refund according to the following schedule:

1. A student who withdraws seven calendar days or less after the last official registration day will be entitled to a refund of 90% of the total paid.
2. No refund will be granted if the student withdraws after the seventh calendar day after the last official registration day of the summer session.
3. No refunds will be granted unless applied for by the 14th day after the last official registration day of the term in which the student withdraws.
4. No refund will be made to a student eligible for benefits under Act 245 of the Public Acts of 1935, as amended, unless request is made not more than one week after registration.
5. Refunds are not automatic but must be applied for at the Business Office within the prescribed time limits.

ESTIMATE OF EXPENSE

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

Room (one-half of a double room)	$ 27.00	to	$ 36.00
Board	72.00	to	84.00
Laundry	0.00	to	15.00
Textbooks and Supplies	15.00	to	25.00
Incidentals	12.00	to	24.00
Tuition and Fees (resident student)	27.50	to	42.50
Total for 6 weeks	$153.50	to	$226.50

UNDERGRADUATE DIVISION CURRICULA

REGULATIONS RELATING TO CURRICULA

OBJECTIVES AND GENERAL SCOPE OF CURRICULA

The Constitution of the State of Michigan places the Michigan Colleges of Education under the authority of the State Board of Education.

From time to time the Legislature has defined the objectives and scope of work of the Colleges of Education. It has repeatedly declared that the purpose of these institutions "shall be the instruction of persons in the art of teaching and in all the various branches pertaining to the public schools of the state of Michigan."

The Michigan Colleges of Education have always stood and do now stand for two things paramount and inseparable in an institution for the training of teachers:

1. A thorough grounding in such fields of study as may lead to the intellectual growth of the student.

2. A thorough grounding in the science and art of teaching attained by sufficient and actual teaching under direction.

The program of study outlined for the first and second years in the curricula of the Michigan Colleges of Education is organized to serve, among others, the following purposes:

1. To provide the student with essential factual information; to give him an introduction to methods of thought and work and to provide such opportunities for study and growth as may lead to a well-rounded general education.

2. To prepare the student for undertaking the more advanced and specialized work embraced in the curricula of the third and fourth years of the Colleges of Education or for more advanced work elsewhere.

This program represents sixty semester hours of work, at least half of which must fall in Groups I, II, III. The student must complete during the first year at least six semester hours of Rhetoric and at least fifteen semester hours from Groups I, II, III.

The program for the third and fourth years is designed to enable the student

1. To pursue more extensively and intensively courses which acquaint him with the fields of his special interest and which broaden his general education.

2. To pursue a curriculum designed to give him the knowledge and skills necessary for teaching in a specific field.

Admission to the program of the third and fourth years is based upon the satisfactory completion of the work outlined above or upon evidence

of equivalent work done satisfactorily elsewhere. In addition the student must satisfy such special tests or examinations as may be prescribed to determine his general intelligence, scholastic aptitude, and fitness for the teaching profession.

SUBJECT GROUPINGS

The Instructional Departments of the Michigan Colleges of Education are classified in groups as follows:

Group I. Language and Literature
Ancient language and literature, English language and literature, modern language and literature, certain courses as indicated in the Departments of Librarianship and Speech.

Group II. Science
Anatomy, astronomy, biology, botany, chemistry, geography, geology, hygiene, mathematics, nature study, physics, physiology, psychology, zoology, certain courses as indicated in the Department of Agriculture.

Group III. Social Science
Economics, history, philosophy, political science, sociology, certain courses as indicated in the Department of Librarianship.

Group IV. Education
Education (includes methods courses and directed teaching), certain courses as indicated in the Department of Librarianship.

Group V. Fine Arts
Art, music, and certain courses in occupational therapy.

Group VI. Practical Arts
Agriculture, business education, home economics, industrial arts, military sciences, certain courses as indicated in the Department of Librarianship, and certain courses in occupational therapy.

Group VII. Physical Education and Health
Health, physical education.

DEGREES DEFINED

BACHELOR OF ARTS (WITH OR WITHOUT TEACHING CERTIFICATE)

The student who regularly completes a curriculum conforming to the degree requirements and embracing at least 70 semester hours from Groups I, II, and III, including at least 8 semester hours in one foreign language, is eligible for the degree of Bachelor of Arts. If two or more units of one

foreign language are presented for entrance, the requirements for foreign language may be waived.

BACHELOR OF BUSINESS ADMINISTRATION

This degree will be conferred upon completion of the Business Administration curriculum as outlined in this catalog.

BACHELOR OF SCIENCE (WITH OR WITHOUT TEACHING CERTIFICATE)

The student who regularly completes a curriculum conforming to the degree requirements and embracing 38 hours or more in the first three groups (the minimum group requirements in Groups I, II, III) is eligible for the degree of Bachelor of Science.

BACHELOR OF MUSIC (AND TEACHING CERTIFICATE)

The student who completes a curriculum as outlined by the Department of Music with a major in Public School Music is eligible for certification. A total of 132 semester hours is required for graduation. The student must include 20 semester hours in a single field of Applied Music, which will be offered as his first minor. The second minor must be in a non-music area.

BACHELOR OF MUSIC (WITHOUT TEACHING CERTIFICATE)

Students who indicate by their placement examination certain levels of proficiency will be accepted as majors in the various fields of Applied Music or Composition. A total of 132 semester hours is required for graduation and must include specific requirements as indicated in the curricular outline as well as major and minor requirements as approved by the Department of Music.

GENERAL DEGREE (WITHOUT TEACHING CERTIFICATE)

Students who do not have in mind preparation for teaching may elect basic courses which provide a general education or which satisfy preliminary requirements for other professional curricula. When such a program of work is carried on for four years and conforms to the degree requirements except the professional requirements in Group IV, the degree of Bachelor of Arts or Bachelor of Science may be granted *without the teaching certificate.*

SECOND BACHELOR'S DEGREE

A graduate of Western Michigan College of Education with the degree of Bachelor of Music or Bachelor of Science who subsequently becomes a candidate for the degree of Bachelor of Arts, or vice versa, is required, in addition to the credits he already has, to complete 30 semester hours of residence credit and to satisfy any other specific requirements for the degree.

DEGREE REQUIREMENTS

Any curriculum leading to the bachelor's degree and teacher's certificate consists of at least 124 semester hours of credit and must include

Group I (Including Freshman Rhetoric, 6 s.h., or Communications, 8 s.h.)	at least 14 semester hours
Group II	at least 12 semester hours
Group III	at least 12 semester hours
Group IV	at least 20 semester hours
Physical Education	at least 4 semester hours

The remaining semester hours may be selected from the courses regularly offered by the college, subject to the following restrictions:

1. Not more than 40 semester hours may be taken in any one subject.
2. At least two-thirds of the work beyond the second year must be in courses not open to first year students.
3. The student must complete a major subject of at least 24 semester hours and at least two minor subjects of not less than 15 semester hours. (A candidate for the elementary provisional certificate may present, instead, 4 minors, 15 semester hours each.) Credits in the required English composition and credits in Education which are required in general on all curricula do not count toward majors or minors.
4. Minimum residence requirements: (a) every candidate for the bachelor's degree must have earned at least thirty semester hours of credit on the campus; and (b) must offer residence credit as the final work required during the last semester or summer session preceding graduation. (An exception is made in the combined pre-professional curricula.)
5. Courses may be selected so that the requirements in some one of the provisional certificate curricula are fulfilled.
6. Students who wish to qualify for the bachelor's degree without the teachers' certificate will not be required to take the work prescribed under Group IV but must satisfy all the other requirements.

GENERAL EDUCATION REQUIREMENTS

Western Michigan College of Education is interested, not only in the training of students for specific skills, but in the development of their general education. To that end, the following minimum requirements will be operative beginning in the fall of 1952:

(These requirements are for candidates for the B.A., B.B.A., or B.S. degree)

Group I	12 semester hours
Group II	8 semester hours
Group III	8 semester hours
Group VII	4 semester hours
	32 semester hours

For further description of these requirements, reference may be made to the *Annual Catalog*.

MAJOR AND MINOR REQUIREMENTS AND REGULATIONS

REQUIREMENTS

A major is a sequence of courses totaling a minimum of 24 semester hours; a minor is a sequence of courses totaling a minimum of 15 semester hours. Under certain conditions students may elect beyond this minimum up to a maximum of 40 hours offered by any department. In the Division of Science and Mathematics and in the Division of Social Sciences group majors and group minors are permitted.

1. *General Degree (without Teaching Certificate).* The academic training shall include a major and two minors.

2. *Bachelor's Degree and State Elementary Provisional Certificate.* The academic training shall include four minors, or a major (may be a group major) and two minors. The equivalent of two minors must be in subjects or subject fields taught in the elementary grades.

3. *Bachelor's Degree and State Secondary Provisional Certificate.* The academic training shall include one major and two minors, in subjects or subject fields in which the applicant expects to teach.

REGULATIONS AND SUGGESTIONS

1. The latest *Annual Catalog* carries an introductory statement for each department preceding its description of courses, for its approved major and minor course sequences. Students should consult the department advisers for approval of their major and minor programs.

2. All secondary students shall be known as "majors" in the fields of selected departments, e.g., Home Economics, Art, Mathematics, English, etc. If a student chooses to elect a major in each of two or more departments, he will be listed accordingly, e.g., Art and English; Industrial Arts and Mathematics, etc.

3. Decision concerning field of majors must always be made by students before the close of sophomore year or beginning of junior year.

4. Decision concerning pursuance of elementary or secondary curriculum must be made by the close of freshman year or beginning of sophomore year.

5. In certain cases, "group" majors totaling a minimum of 30 semester hours and "group" minors totaling a minimum of 20 semester hours are allowed. They usually consist of courses selected from the related departments of a division, (See the Division of Social Sciences and the Division of Science and Mathematics.) Students should consult the chairmen of the divisions relative to these group majors and group minors.

6. Group requirements (Groups I, II, and III) of the several curricula may be satisfied through the use of major and minor sequences. Likewise short sequential requirements of some of the curricula may sometimes be included as parts of major or minor groupings.

7. Minors may often be related to majors, so as to recognize naturally or closely related fields; for example, mathematics and physics, history and geography, literature and history, etc.

8. Students who wish to major in any of the "special" fields (art, business education, home economics, industrial arts education, librarianship, music, occupational therapy, physical education, and special education) are advised to follow the same procedure as indicated in item 1.

Attention is called to the regulation of the State Board of Education as to the "special" fields which lead to certification in both elementary and secondary grades, when the candidate qualifies in both fields. In respect to this, Western Michigan College of Education at present prepares students in the fields of art, librarianship, music, occupational therapy, physical education for women, and special education.

RESTRICTIONS

1. It is usually not permissible to use education as a major or minor in any undergraduate curriculum.

2. The following courses are not to be counted as satisfying major and minor requirements:

a. Required courses in rhetoric (See Group I).

b. Uniformly required courses in education from Group IV: Human Growth and Development 251, Introduction to Directed Teaching 240 or 351, and Directed Teaching, Laboratory in Education, and General Education Problems 370 A, B, C.

c. Professional courses numbered 300 to 302. These are courses in teaching school subjects.

3. A combination of foreign languages, or of English or American literature with a foreign language, is not permissible. The major or minor must be in one language only.

4. Mathematics may not be combined with Science (physics, geography, chemistry, biology) for a major or minor sequence.

REQUIREMENTS FOR GRADUATION

The State Board of Education for the State of Michigan, on recommendation of the president and faculty of Western Michigan College of Education, confers degrees and grants teachers' certificates as follows:

I. BACHELOR DEGREES

1. Bachelor of Arts
2. Bachelor of Business Administration
3. Bachelor of Music
4. Bachelor of Science

For the degrees of Bachelor of Arts and Bachelor of Science, the candidate shall present:

1. Credits satisfying a prescribed curriculum for a total of 124 semester hours, including required physical education.
2. Thirty semester hours of satisfactory work in residence on the campus at this institution.
3. Residence credit at this institution during the semester or summer session immediately preceding graduation.

For the degree of Bachelor of Music, the candidate shall present the number of semester hours and course sequences as stipulated in the requirements of that curriculum.

For the degree of Bachelor of Business Administration, the candidate shall present the number of semester hours and course sequences as stipulated in the requirements of that curriculum.

II. TEACHING CERTIFICATES

The following types of teaching certificates are granted:

1. State Elementary Provisional Certificate
2. State Secondary Provisional Certificate
3. State Limited Certificate

1. State Elementary Provisional Certificate
   a. This certificate qualifies the holder to teach for a period of five years from date of issue in the elementary grades (kindergarten to eighth) in any public school in Michigan.
   b. The candidate must meet the requirements for a degree as defined above.
   c. The holder of the State Elementary Provisional Certificate may be issued the State Elementary Permanent Certificate when the candidate shall have met the following conditions:
      1) Application must be made to the college within one year following the expiration of the State Elementary Provisional Certificate.
      2) The candidate must submit satisfactory evidence that he has taught successfully during the life of the certificate for not less than three years in elementary schools.
      3) The holder of an Elementary Provisional Certificate issued after July 1, 1945, must have earned in addition 10 semester hours of acceptable college credit.
   d. For procedure for permanent certification see page 62.
2. State Secondary Provisional Certificate
   a. This certificate qualifies the holder to teach for a period of five years from date of issue in the secondary grades (seventh to twelfth) in any public school in Michigan, in subjects or subject fields indicated on the certificate.

b. The candidate must meet the requirements for a degree as defined above.

c. The holder of the State Secondary Provisional Certificate may be issued the State Secondary Permanent Certificate provided the candidate shall have met the following conditions:

1) Application must be made to the college within one year following the expiration of the State Secondary Provisional Certificate.

2) The candidate must submit satisfactory evidence that he has taught successfully during the life of the certificate for not less than three years in secondary schools.

3) The candidate must have earned in addition 10 semester hours of acceptable college credit.

d. For procedure for permanent certification see III listed below.

3. State Limited Certificate

a. This certificate qualifies the holder to teach in the state of Michigan for a period of three years from the date of issue in any school district except a school district which maintains an approved high school. (See "Directions to Holders of Limited Certificates Based on the Michigan Teachers' Certification Code," on page 63.

b. The candidate shall present credits satisfying a prescribed curriculum aggregating 62 semester hours.

c. The candidate shall have satisfactorily completed in residence at this institution 15 semester hours.

d. The candidate shall have been in residence at this institution the semester or summer session immediately preceding graduation.

III. PROCEDURE FOR PERMANENT CERTIFICATION

The holder of an Elementary Provisional or Secondary Provisional Certificate, who has fully met the requirements, may be issued a Permanent Certificate. Below is outlined the procedure to be followed:

1. The candidate will

a. obtain from the Director of Teacher Education an application blank. This may be done after three years of teaching under the Provisional Certificate, but it must be done within one year following the expiration of the Provisional Certificate.

b. fill out the application as required and return it to the college;

c. return with the application blank his Provisional Certificate with his Teacher's Oath attached.

2. The college will

a. investigate the qualifications of the candidate to ascertain if he satisfies requirements for permanent certification;

b. recommend the candidate to the State Board of Education for permanent certification if his qualifications are found satisfactory;

c. deliver to the candidate the Permanent Certificate properly executed.

IV. MISCELLANEOUS PROVISIONS REGARDING CERTIFICATES

1. 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:
   a) Toward the Provisional Certificate, 25 semester hours;
   b) Toward the State Limited Certificate, 25 semester hours.
2. Not more than 15 semester hours may be taken by correspondence to apply on the minimum requirements of any degree or certificate. The number of semester hours which may be taken by residence extension is not limited. Such credit, however, cannot be applied to modify the minimum or final residence requirements.
3. No teacher's certificate will be granted to any person who is less than eighteen years of age.
4. No teacher's certificate will be granted to any person who is not a citizen of the United States or who has not declared his intention of becoming a citizen.
5. A person who holds an expired provisional certificate on either the elementary or the secondary level may renew such certificate and restore it to good standing by completing ten semester hours of acceptable college work. Application for reinstatement must be made through the institution upon whose recommendation the certificate was issued. For an application for reinstatement, please write to John C. Hoekje, Dean of Administration.

DIRECTIONS TO HOLDERS OF LIMITED CERTIFICATES

No person can be employed to teach in any school district unless he is legally qualified by holding a valid certificate. In order that the holder of any limited certificate may retain without interruption his status as a legally qualified teacher, he must make application for renewal to the State Board of Education between April 1 and September 1 of the year the certificate expires; if the candidate on the expiration of the certificate does not arrange for renewal as here stated, he will forfeit his status as a legally qualified teacher, and therefore will not be permitted to teach. He will, however, remain eligible to make application for renewal until June 30 of the year following expiration of his certificate, after which date renewal privileges are canceled.

A. To the holder of the State Limited Certificate or of the State Limited Renewal Certificate.
   1. The holder of a State Limited Certificate may be issued (five times) a State Limited Renewal Certificate provided the candidate shall have met the following conditions:
      (a) Subsequent to the date of issue of the last certificate held, the candidate must have acquired 10 semester hours of credit, of an average grade of "C" or better, earned in an institution or ac-

cepted by an institution approved by the State Board of Education. These credits must be applicable toward the requirements of the curriculum prescribed for the State Provisional Certificate eventually desired.

(b) In order to assure that the credits earned toward renewal will apply on the State Provisional Certificate curriculum at the institution where the candidate intends to qualify eventually for that certificate, *the candidate should arrange in advance in each case to have his course selections approved by that institution.* Also all credits wherever earned should be submitted to that institution for evaluation and by it transmitted to the State Board of Education with recommendations.

B. To the holder of the County Limited Certificate or of the County Limited Renewal Certificate.

1. The holder of a County Limited Certificate may be issued (two times) a County Limited Renewal Certificate, each valid for two years provided the candidate shall have met the following conditions:

(a) Subsequent to the date of issue of the last certificate held, the candidate must have acquired 10 semester hours of credit, of an average grade of "C" or better, earned in an institution or accepted by an institution approved by the State Board of Education. These credits must be applicable toward the requirements of the curriculum prescribed for the State Limited Certificate and for the State Provisional Certificate.

(b) In order to assure that the credits earned toward renewal will apply on the State Limited Certificate curriculum and on the State Provisional Certificate curriculum at the institution where the candidate intends to qualify for either certificate, *the candidate should arrange in advance in each case to have his course selections approved by that institution.* Also all credits wherever earned should be submitted to that institution for evaluation and by it transmitted to the State Board of Education with recommendations.

ADDITIONAL REGULATIONS

1. All freshmen must carry Rhetoric 106 A, B, or Communications 104 A, B.

2. By the end of the sophomore year all students except those enrolled in the two-year curricula must have earned at least 4 semester hours of physical education credit.

3. In general, freshmen should not elect two courses in a single department in the same semester. No student should elect more than 8 semester hours in a single department in the same semester.

4. All students who expect to receive a degree must present at least 6 semester hours of credit in Rhetoric or 8 semester hours in Communications.

5. Before being admitted to the regular program of work of the third year, a candidate for a teaching certificate shall have earned at least 8 semester hours in each of the Groups I, II, and III. He shall have maintained at least a "C" average for work already completed and shall give evidence of his fitness for teaching.

6. To satisfy the minimum requirements in Groups I, II, and III, the student shall not present a series of isolated courses.

7. All students who expect to obtain a degree and teaching certificate are required to present credits in the following courses: Human Growth and Development 251, Introduction to Directed Teaching 240 or 351, and Directed Teaching, Laboratory in Education, and General Educational Problems 370 A, B, C.

8. A student will not be permitted to carry directed teaching unless his point-hour ratio is at least 1.0.

9. All students must take the equivalent of six hour lectures in political science. This is a legal requirement.

Note.—More complete information concerning the several teachers' certificates may be obtained from Bulletin No. 601, *Teachers' Certificate Code,* published by the Superintendent of Public Instruction, Lansing, Michigan. 1942 Revision.

LIST OF THE CURRICULA

Specific details and requirements in the various curricula are given in the *Annual Catalog* and in a separately published bulletin entitled *Details of Undergraduate Curricula,* which may be secured upon request.

I. THE GENERAL DEGREE CURRICULUM

Students who do not have in mind preparation for teaching may elect courses which provide a general education or which satisfy preliminary requirements for other professional curricula. When such a program of work is carried on for four years and conforms to the degree requirements, the degrees of Bachelor of Arts or Sciences may be granted *without a teaching certificate.*

Since Western Michigan College of Education is on the approved list of the Association of American Universities, students who complete the general degree curriculum satisfactorily should experience no difficulty in enrolling in the better graduate and professional schools of the United States.

II. CURRICULA FOR TEACHERS

The original and primary function of Western Michigan College of Education is the training of teachers. To carry out this purpose several curricula for the training of teachers are offered. These curricula are designed to give prospective and in-service teachers a broad general education with a reasonable degree of specialization in the subject-matter fields through well-planned majors and minors, and to furnish an adequate background of professional study in the purposes and objectives of education, the nature of child growth and development, the modern methods of teaching, and the means of appraising instruction. For specific details of the teacher training curricula, consult the *Annual Catalog,* the *Details of Undergraduate Curricula,* or curriculum advisers.

ELEMENTARY CURRICULUM

This is a four-year curriculum leading to the A.B. or B.S. degree and the State Elementary Provisional Certificate. It is designed for the preparation of teachers in Kindergarten and Grades 1-8. A minimum of 24 semester hours of professional courses in Education is required, in addition to four minors, or a major and two minors in general or special subject-matter fields. The group requirement for the degree must also be satisfied. Students must take appropriate courses in Art and Music and Practical Arts to total 12 semester hours.

SECONDARY CURRICULUM

This is a four-year curriculum leading to the A.B. or B.S. degree and the State Secondary Provisional Certificate. It is designed for the prepara-

tion of teachers in Grades 7-12. A minimum of 21 semester hours of professional courses in Education is required, in addition to one major and two minors in general or special subject-matter fields in which the student expects to teach. The group requirements for the degree must also be satisfied.

SPECIAL EDUCATION CURRICULA

There are three curricula at Western Michigan College of Education in three different areas of Special Education. These curricula are for the preparation of teachers of (1) mentally retarded and backward children, (2) occupational therapy, and (3) Speech Correction. These are four-year curricula leading to the B.S. degree and the State Elementary Provisional Certificate. In addition to the required courses in Education, majors and minors, and group requirements, certain course offerings and clinical facilities are provided and required in each of the curricula.

MUSIC CURRICULUM

This is a four-year curriculum leading to the B.M. degree with a major in Public School Music and the State Secondary Provisional Certificate. It is designed for the preparation of instrumental or vocal supervisors in the public schools.

LIBRARIANSHIP CURRICULUM

This is a four-year curriculum leading to a B.S. degree with a major in Librarianship and the State Elementary or Secondary Provisional Certificate. It is designed for the preparation of school librarians.

VOCATIONAL BUSINESS COORDINATOR'S CURRICULUM

This is a four-year curriculum leading to a B.S. degree, a State Secondary Provisional Certificate, and a State Temporary Vocational Coordinator's Certificate. It is designed for the preparation of teachers and coordinators of vocational business courses in the public schools.

VOCATIONAL INDUSTRIAL CURRICULUM

This is a four-year curriculum leading to the B.S. degree, the State Secondary Provisional Certificate, and the State Trade and Industrial Certificate. It is designed for the preparation of trade and industrial teachers in the Secondary Schools.

RURAL ELEMENTARY CURRICULUM (Two Years)

This is a two-year curriculum (62 semester hours) which satisfactorily completed meets requirements for the State Limited Certificate which is valid for three years "and qualifies holder to teach in any Primary School District, or in any Graded School District not maintaining grades above the eighth."

RURAL LIFE AND EDUCATION CURRICULUM (Four Years)

The rural Elementary Curriculum (two-year) includes foundation courses for the degree, and students are encouraged to complete one of the four-year curricula — elementary or secondary — at the earliest possible time. Additional courses, as well as counsel, are provided by the Department of Rural Life and Education for those wishing further professional specialization as teachers, principals, county commissioners, supervisors, or helping teachers in rural communities—open country, village, or town.

Students preparing to work in the elementary schools choose four minors (or a group major and two minors) and additional courses from among both group and general electives, with thought to individualization on the basis of personal and professional needs. They become familiar with the grades and subject areas of the entire elementary field.

Students preparing to work in the secondary schools choose majors, minors, and additional subject matter areas with thought to the variety of teaching and extra-curricula demands to be met in the smaller high schools.

Those preparing to serve rural people in the several professions and service occupations other than teaching will find considerable basic work in these curricula. For them, as well as for degree students preparing to work in either elementary or secondary school positions, advanced courses in rural education and rural life are offered.

III. PRE-PROFESSIONAL, NON-TEACHING PROFESSIONAL, AND COMBINED CURRICULA

Most of the professional schools of the country have prescribed more or less definitely the nature of the college work prerequisite to professional training. The amount of college training required by leading universities in preparation for the various professions has in late years been materially increased. A number of professions are now entirely on the graduate level; that is, a college degree must be presented before one may enter upon the study of these professions.

Pre-professional curricula have been developed in Business Administration, Dentistry, Engineering, Forestry, Journalism, Law, Medicine, and Social Work. In addition to the standard pre-professional curricula, *combined curricula* have been specially arranged with the various professional schools of certain colleges and universities. In these curricula, the student, after successfully completing the three-year curriculum as outlined, may apply for admission to the professional school or college of which he has met the requirements. If admitted, the student will, after a year of successful work in the professional school, be granted the A.B. or B.S. degree by Western Michigan College of Education, providing all requirements for the bachelor's degree have been satisfied.

The professional schools and colleges with which Western Michigan College of Education has agreements concerning combined curricula reserve the right to refuse admission for certain reasons. If the student contem-

plates entering some college or university other than those with which combined curricula have been arranged, he should procure a catalog of the institution he plans to attend, to assist the advisers in mapping out his course. A minimum of two years in residence including the junior year is required for the bachelor's degree in the combined curricula. Combined curricula have been arranged with the Schools of Dentistry, Engineering, Business Administration, and Forestry of the University of Michigan. There are also combined curricula with the College of Medicine, Wayne University; the Detroit College of Law; the College of Law, University of Illinois; the Schools of Commerce and Journalism of Northwestern University; the Divisions of Agriculture, Business Administration, and Engineering of Michigan State College; Nursing with Bronson Hospital; and Medical Technology with the Michigan Department of Health and Bronson Hospital.

For specific details of the pre-professional and combined curricula, consult the *Annual Catalog, Details of Undergraduate Curricula Bulletin,* or curriculum advisers.

AGRICULTURE

The successful completion of this curriculum will permit the student to enter the junior year at Michigan State College for the bachelor's degree in Agricultural Science and the certificate for the teaching of vocational agriculture in the secondary schools of Michigan.

BUSINESS ADMINISTRATION

The Department of Business Studies offers a differentiated program for students interested in preparing for a business career. The department offers a definite curriculum leading to the professional degree of B.B.A., which may be completed at Western.

Students interested in pursuing, during their freshman and sophomore years, the pre-professional curriculum for the purpose of transferring their credits to the professional schools at the University of Michigan or Northwestern University should exercise care to see that specific requirements for admission to those schools have been met.

DENTISTRY

Two programs of work are open to the student: The pre-professional college requirements for entrance to the study of dentistry and a combined curriculum in college and professional work by which a student taking three years at Western Michigan College of Education and the first year at the College of Dentistry of the University of Michigan can earn the bachelor's degree from the former institution.

ENGINEERING

This college has arranged with the several branches of the Engineering School of the University of Michigan for a combined curriculum in letters

and engineering. Each of the six or more special fields of engineering has basic courses in mathematics, physics, and chemistry. These may well become the basis for the degree of Bachelor of Science. By arrangement with the several schools of engineering at the University, a student who has 90 semester hours credit at Western and at least 30 semester hours in a school of engineering at the University may, if properly counselled, be given the degree of Bachelor of Science from this institution.

FORESTRY AND CONSERVATION

This is highly technical, but there are basic courses in mathematics and the sciences which may be taken at Western and become a part of a combined academic and professional course. Three years of college and one year at the University of Michigan in the department of Forestry may lead to the degree of Bachelor of Science from this college.

JOURNALISM

There are schools of journalism that require a bachelor's degree for entrance, others that admit undergraduates to their courses. Western Michigan College of Education has a curriculum which has been approved as meeting part of the requirements for a degree in journalism at the University of Michigan, Northwestern University, Michigan State College, and the University of Missouri.

LAW

Western Michigan College of Education offers pre-professional course requirements for entrance to the study of law and a combined college and law school curriculum planned to shorten preparation by one year. Such agreements for combined curricula exist with law schools of the University of Illinois and the Detroit College of Law.

MEDICINE

The better schools of medicine require three years (90 semester hours) of college work for entrance to the study of medicine. The College has curricula which meet the requirements of entrance to the medical schools of Wayne University and the University of Michigan. Consult the curriculum advisers or the *Annual Catalog*.

MEDICAL TECHNOLOGY

The first three years of this curriculum meet the scholastic requirements for admission to the laboratory training school of the Michigan Department of Health and of the Registry of the American Society of Clinical Pathologists. Upon successful completion of the fourth year, the student may be granted the degree of Bachelor of Science, if all requirements have been satisfied.

NURSING

Bronson Methodist School of Nursing, Kalamazoo

A five-year curriculum leading to the B.S. degree and the R.N. diploma. The first and fifth years are spent entirely in work at Western Michigan College of Education. The work of the third and fourth years is in the hospital. During the second year two-thirds of the work is at the college.

OCCUPATIONAL THERAPY

A curriculum which, satisfactorily completed, meets the requirements of the Council on Medical Education and Hospitals of the American Medical Association and the American Occupational Therapy Association. Graduates of this course are entitled to take the examination for registration in the American Occupational Therapy Association. Those who satisfy the requirements may also receive the Bachelor of Science degree. For full details see the *Annual Catalog*.

Thirty semester hours of acceptable college credit is a prerequisite for admission to this curriculum.

OCCUPATIONAL THERAPY

Diploma Course for Advanced Students

This course meets the requirements of the American Occupational Therapy Association and has been planned for college graduates who already have a major in some field allied to occupational therapy. Students accepted for this course must be approved by the Coordinating Committee and may be enrolled either in the fall or spring semester. The course consists of two semesters' work on campus and nine months of clinical training in various types of hospitals. The curriculum for this course must include: Theory A, B, and 310; Kinesiology A and B, and other courses from the occupational therapy curriculum as are needed to supplement previous training and to make a total of 30 semester hours. An additional 8 semester hours are allowed for clinical training successfully completed. At the conclusion of this course the student is eligible to take the required examination for registration in the National Occupational Therapy Association.

SOCIAL WORK

This curriculum is designed to prepare students for the lower levels of social-work positions, and for the civil service examinations required for employment in many public agencies. It also provides considerable pre-professional education for graduate training in social work. Graduates who continue in social work as a profession should plan to take, as early in their career as possible, one or two years of professional social-work training at the graduate level.

The required courses in this curriculum provide for a social science major of 32 to 35 semester hours and a minor in social work of 18 semester hours.

Some 45 semester hours of elective courses are allowed. These electives should be used primarily to fulfill the requirements for the general degree and to strengthen the general education of the student. To meet the need of certain students for special skill, however, some elections from such tool subjects as the following may well be considered. Elementary Typewriting 101A, Home and Its Management 222, Economics of Consumption 223, Community Recreation, Scouting, and Campfire 276, Laboratory and Psychological Testing 302, Clinical Psychology 309, Human Genetics 306, and Labor Problems 421A, B. Some students in their senior year may find it advisable also to elect some of the more specialized courses in social work offered in the Graduate Division.

MUSIC

The Department of Music offers curricula in applied music leading to the Bachelor of Music degree. The Bachelor of Music degree is very highly professional in its requirement aims and permits the student to do much more of his work in the field of music. It is strongly recommended that students who wish to major in voice, instruments, or composition aim for the Bachelor of Music degree. All candidates for the Bachelor of Music degree are required to study their applied music performance field, e.g., piano, voice, violin, etc., during their full four-year course. The Bachelor of Music degree requires a minimum of 132 semester hours of credit for graduation. For full details consult the head of the Department of Music.

IV. VOCATIONAL AND PRACTICAL ARTS EDUCATION CURRICULA

Western Michigan College of Education accepts as one of its functions the training, on a pre-service as well as in-service basis, of teachers and other persons interested in acquiring technical instruction of a specialized character. At present there is a wide range of instructional programs offered in Business Training, Home Economics, and Industrial Education. Some of the courses of study are open to youths and adults whose academic background does not necessarily include subject matter sequences required for regular college admission. However, the student should present evidence of high school graduation.

Employes in offices, stores, and industries may be admitted as special students in the in-service vocational courses without reference to previous school experience, provided they are recommended for such training by a responsible official of the employing firm.

BUSINESS STUDIES

The Department of Business Studies offers many and varied vocational and professional training opportunities in the field of business and industry. The major areas in which a student may study are:

The Business Education Curriculum prepares teachers for the following fields: Secretarial, Accounting, Salesmanship and Retailing, General Business, and Vocational Coordinators.

The Business Administration Curriculum: The student on the B.B.A. degree level has the opportunity for preparation for vocational and professional positions in business and industry. The major vocational areas which the student may elect are: Accounting, Economics, General Business, Secretarial Administration, and the following management areas: Office Management, Personnel Administration, Sales Management, Retail Store Management, and Small Business Management.

Business Administration students may prepare for specific business and industrial openings by a careful selection of courses for their minors. A specific example would be preparation for office or sales work with a pharmaceutical firm. Courses in chemistry and related sciences would be a valuable background. Proper sequence of courses can be worked out with major and minor advisers.

The Cooperative Business Training Curricula: These curricula are two-year work and study programs. The two major areas of training are: Retailing and Secretarial Training. These work-and-school programs give the student an outstanding opportunity to meet, on a practical work-for-pay basis, the requirements of the full-time job for which he is preparing.

The Technical Business Curriculum: For those who wish to attend college for only a two-year period, the Technical Business Curriculum provides opportunities for preparation for the many beginning occupations in business and industry in such fields as Clerical Accounting, Secretarial Training, General Business, Salesmanship, General Clerical and Small Business Management.

HOME ECONOMICS

A two-year terminal course is offered to students who do not intend to graduate. This course is planned to help young women who wish to make homemaking a career.

The Department of Home Economics has a four-year curriculum for training dietitians.

INDUSTRIAL ARTS EDUCATION

This department offers a wide variety of opportunities for teacher training. The areas of instruction cover woodwork, drawing, printing, metal shop, aviation, and electricity. All the elementary courses are open to women.

INDUSTRIAL TECHNICAL EDUCATION

A variety of technical curricula are offered which are designed for occupational competency in specific fields such as aircraft mechanics, air trans-

portation, airline hostess, refrigeration and air conditioning, machine shop, drafting, printing, radio and television, auto maintenance, and electricity.

For specific details of the Vocational and Practical Arts curricula consult the *Annual Catalog, Description of Curricula Bulletin,* or curriculum advisers.

HOMEMAKING CURRICULUM (Two Years)

This curriculum is for the student who does not wish to teach, but who is interested in obtaining some special instruction to make homemaking a career. The opportunity is provided for one to pursue some general education subjects in addition to the specific occupational training.

DIETETICS CURRICULUM (Four Years)

The department of Home Economics offers a four-year curriculum for training dietitians. Graduates who complete the program are eligible for a year's internship in a hospital accepted by the American Dietetics Association.

AIR TRANSPORTATION CURRICULUM (Four Years)

The Air Transportation Curriculum is a four-year course leading to a B.S. degree. It is designed to train students to manage and operate airports and for various administrative, supervisory, and sales positions in the business field of aviation. In addition to meeting the necessary requirements for a Bachelor of Science degree, the curriculum requires concentration in four areas—mechanics, pilot training, business administration, and airport operation. Sufficient work is given in mechanics to meet the requirements for a CAA airplane and engine mechanic's license. A minimum of 35 hours of flight training leading to a private pilot's license is required for all students.

AIRCRAFT MECHANICS CURRICULUM (Two Years)

This two-year curriculum is offered to students who wish to enter the field of aviation for their life work. Special preparation is given for services and maintenance positions with the airlines, repair depots, and commercial and private owners of aircraft. Upon completing the work, students are qualified to receive the Civil Aeronautics Administration license for airplane and engine mechanics.

AIRLINE HOSTESS CURRICULUM (Three Years)

This is a three-year program for women desiring a practical educational background to qualify for airline hostess employment with commercial airlines. In addition to being a high school graduate, a candidate for this curriculum must meet special airline physical requirements pertaining to height, weight, eyesight, voice, and appearance.

PRINTING (Two Years)

This two-year curriculum is offered to students who wish to enter the printing field. Practical work experience and essential related knowledge are provided in the various areas of printing. Students may elect sufficient business courses to enable them to manage and operate a printing plant.

AIR CONDITIONING AND REFRIGERATION CURRICULUM (Two Years)

This curriculum offers basic training in all the elements governing conditioning of air, the theory and function of refrigeration, basic physical laws involved, and installation techniques. The work prepares specifically for the fields of installation and servicing of all types of refrigeration units, air-conditioning and heating devices.

MACHINE SHOP CURRICULUM (Two Years)

The two-year curriculum is offered to students who wish to enter the machinist's trade. The curriculum consists of a number of unit courses which are based upon the training needs of machine tool operators and tradesmen. With this arrangement, the special training needs of each individual can be met.

RADIO CURRICULUM (Three Years)

Basic training for the radio service mechanic, with related subjects that lead to Federal Communications Commission operators' permits and examinations, and knowledge and skill necessary to service and operate all forms of radio, television, and electronics equipment.

TOOL AND DIE MAKING CURRICULUM (One Year)

This course leads to the development of superior skills in the precision operation of machine tools. Special tools, jigs, fixtures, and dies to blank, bend, form, or mold duplicate parts, designed, fabricated, and tested on production runs in the machine shop. The two-year machine shop curriculum or its equivalent is a prerequisite.

DRAFTING CURRICULUM (Two Years)

A two-year curriculum offered to students wishing to become industrial draftsmen. The curriculum embodies work in the machine, tool and die design fields of the industrial drafting trade.

ELECTRICAL CURRICULUM (Two Years)

This curriculum is offered to students who wish to prepare themselves for a gainful occupation in the electrical fields. The curriculum consists

of a study of the generation, transmission and utilization of electrical energy by means of direct and alternating currents. Emphasis is placed upon the fundamental principles and practical applications of electrical circuits and apparatus as employed in industry, communication, and the servicing of electrical appliances.

AUTOMOTIVE MAINTENANCE CURRICULUM (Two Years)

This two-year curriculum is offered to students who wish to specialize in automotive maintenance work. The curriculum consists of practical work experience in repairing, inspecting, and servicing automobiles.

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MARGARET T. MABIE, A.B., Secretary of the Graduate Division
GEORGE G. MALLINSON, PH.D., Chairman of Graduate Advisers

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ZACK L. YORK, PH.D., Professor of Speech

GRADUATE DIVISION
WESTERN MICHIGAN COLLEGE OF EDUCATION

General Statement

Graduate instruction has been given at Western Michigan College of Education since February, 1939, under a cooperative arrangement with the University of Michigan. The Board of Regents of the University of Michigan at their meeting in July, 1938, passed a resolution approving a formal request from the State Board of Education that the University of Michigan cooperate with the three Michigan Teachers Colleges (as they were known at that time) and Michigan State Normal College in planning a program of graduate instruction. According to this action, a Graduate Division, organized and administered as an extra-mural unit of the Horace H. Rackham School of Graduate Studies, was set up at each of the four colleges.

On October 12, 1951, the State Board of Education approved the proposal of the Presidents of the Colleges of Education to set up independent graduate divisions in each of the four colleges to offer graduate curricula in all areas involved in the preparation of teachers, administrators and supervisors for the public schools of Michigan as soon as each college felt that it was desirable and possible to do so. The State Board authorized the Colleges of Education to grant the master's degree with specialization in Education to those completing such a program under the rules, regulations and procedures adopted by each institution and approved by the State Board of Education. Western Michigan College of Education in October, 1951, decided to inaugurate its own graduate program at the beginning of the fall semester of 1952 as permitted by this State Board action.

The major purposes of the graduate program at Western Michigan College of Education are:

1. to increase the effectiveness of elementary and secondary school teachers in present and future positions.

2. to prepare teachers for supervisory, administrative, and guidance positions.

3. to prepare curriculum coordinators, school librarians, and teachers of special education.

4. to improve abilities of school people in human relations with pupils, teachers, supervisors, administrators, and the general public.

5. to develop ability of school people to evaluate and use results of research in practical situations.

Administration

The Graduate Division is administered by a Director and a Graduate Council of nine members, each appointed for a term of three years with the Director acting as Chairman and the President of the College as a member ex-officio.

Admission to Enroll

Admission to enroll in graduate courses will be granted to those students who present evidence that they have received the bachelor's degree from an accredited college whose requirements for the degree are on as high a scholastic level as those maintained by Western Michigan College of Education.

A graduate from a non-accredited college may be admitted to take up to six hours of graduate work with a review of his status after he has taken these six hours. Any student from Western Michigan College of Education who is within six hours of receiving his bachelor's degree may be admitted to enroll in up to six hours of graduate credit during the last semester before receiving his degree.

Admission to Candidacy for the Master's Degree

A student may apply for admission to candidacy for the degree only after the completion of at least ten semester hours of work taken from the Western Michigan Graduate Division with an average grade of B.

At the time he applies for candidacy he must present references testifying to his success in teaching or promise of success.

A candidate must present at least fifteen hours of undergraduate credit in education courses or the equivalent.

A candidate must show evidence of personal qualities essential to the teaching profession and an ability to use the English language effectively before being admitted.

At the time of his application for candidacy, a candidate must submit a program of study approved by his curriculum adviser.

Students who have been admitted to the Horace H. Rackham School of Graduate Studies under the cooperative plan before the fall semester of 1952 shall be automatically admitted to candidacy for the master's degree.

Transfer Credit

After the student has been admitted to candidacy for the degree, a total of six hours of satisfactory work taken at other approved institutions, for which such institutions grant graduate credit, may be transferred to a master's degree program in the Graduate Division of Western Michigan College of Education, provided such courses are approved by the Curriculum Adviser as a part of the student's program of studies. The application of graduate extension credit from other institutions toward a student's program shall be referred to the Director. The student must ask that a transcript of such credits be sent by the institution to the Director of the Graduate Division and then request that the Graduate Division apply the credit to the degree.

Extension Credit

A total of twelve hours of satisfactory graduate work taken through the Extension Division of Western Michigan College of Education may be counted toward the requirements for a degree, provided such courses are approved by the student's Curriculum Adviser as a part of the student's program of studies.

Requirements for the Degree

The Graduate Division will require a minimum of thirty hours of graduate work with an average mark of B for a master's degree with a thesis being optional and not to count for more than six hours in the thirty-hour program. The degree granted will be designated as the "Master of Arts."

All students will be required to complete one of the outlined curricula which have been set up as leading to the degree. The details of these curricula have been set up in terms of the vocational objectives of those preparing for types of educational service such as: Elementary Teaching; Elementary Administration and Supervision; Teaching in the Fields of Art, Business Education, Distributive Education, Home Economics, Industrial Education, Literature and Language, Music, Occupational Therapy, Physical Education, Science and Mathematics, Social Science, and Speech Education; Guidance; Special Education; School Librarianship; Curriculum Development and Coordination; Secondary Administration and Supervision; and General Administration and Supervision.

At least fifteen hours must be earned in courses restricted to graduate students.

A minimum of eighteen hours must be taken in on-campus resident credit from the Graduate Division, leaving twelve hours that may be taken through (1) off-campus courses offered by the Western Michigan Extension Division or (2) up to six hours of advanced credit transferred from another approved institution.

All credits earned by the student before September, 1952, under the cooperative arrangements with the University of Michigan will be trans-

ferred automatically to Western Michigan College of Education, but the student must assume the responsibility of submitting transcripts of such work not taken through the Graduate Division of Western Michigan College of Education. Students who have started a program of work under the cooperative plan before September, 1952, may, if they desire, complete the required thirty hours for the degree by taking courses recommended under the University sequences.

No student will be granted the degree unless he has been enrolled for at least two semester hours of credit in the Graduate Division of Western Michigan College of Education after September, 1952.

Students who enroll for the first time in the Summer Session of 1954 or thereafter shall complete the work for the master's degree within six consecutive years from that date. Students who have enrolled prior to the Summer Session of 1954 shall complete the work for the master's degree no later than June 1960.

Diploma Application

Before the degree is awarded, the student must fill out the diploma application blank in the Graduate office. *The diploma application must be filed by the end of the second week of the session by those expecting to graduate during the summer session.*

Registration

Registration for the summer session in the Graduate Division will be on Saturday, June 19, and Monday, June 21, from 8 to 12 A.M., and from 1 to 4 P.M. Registration will take place in the Graduate Division Offices in the Administration Building, under the direction of the Registrar.

Classes for the summer session will begin on Tuesday, June 22, and will continue through Friday, July 30. Most graduate courses giving two hours of credit meet one hour a day, five days a week, Monday through Friday. The student should consult the Schedule of Classes for instructors, hours, and places of meeting. Prerequisites for a course should be carefully determined by the student before enrolling in a course. Generally speaking, prerequisites for courses are, in addition to graduation from a four-year curriculum in an accepted college or university, one year of college work in the field of the subject elected. In some cases, courses may require specific prerequisites or an amount of prerequisite credit in excess of the general requirement.

A full load of graduate work during a semester shall be considered to be twelve hours; during the Summer Session, six hours. A student may elect as many as fifteen hours during a semester at the discretion of the Director.

All enrollments should be completed by the beginning of classes, Tuesday, June 22. Any necessary changes in enrollment must have been made by the end of the first complete week of the summer session. Permission to drop a course or to change enrollment must be secured from the Director of the Graduate Division.

Graduate students are subject to the rules of the Dean of Men and the Dean of Women and to other general regulations of this institution.

Living Expenses

All questions regarding room, board, and other living expenses should be addressed to the Dean of Men or Dean of Women, Western Michigan College of Education, Kalamazoo, Michigan.

Tuition and Fees

Graduate students will be charged fees as follows:

Resident Students				Non-Resident Students			
Sem. Hrs.	Tuition	Local*	Total	Sem. Hrs.	Tuition	Local*	Total
1-3	$10.50	$17.00	$27.50	1-3	$21.00	$14.00	$35.00
4-6	21.00	19.00	40.00	4-6	42.00	13.00	55.00

*These local fees are collected each semester for the general maintenance of the Graduate Division Office and the graduate student's share of the support of such activities as athletics, health service, student union, library, departmental laboratories, graduation, etc.

There is a special departmental music fee for Applied Music of $20.00 for the summer session.

Double Registration

The regulation covering any student taking both graduate and undergraduate work will be:

A student taking *more* graduate hours than undergraduate hours will pay the fees during graduate enrollment for the total number of hours taken in both graduate and undergraduate work. In this instance, the undergraduate enrollment card will be stamped "double enrollment."

A student taking *more* undergraduate hours than graduate hours will pay the fees during undergraduate enrollment for the total number of hours taken in both undergraduate and graduate work. The graduate card will be stamped "double enrollment."

In case the student is taking an equal number of hours in both graduate and undergraduate work, he will pay whichever fee is higher for the total number of hours taken.

Refunds

1. Refunds are not automatic upon withdrawal from graduate classes but must be applied for at the Graduate Office within the prescribed time limits.

2. A 90% refund will be granted to a student who withdraws not more than one week after the beginning of the summer session.

3. No refunds will be granted after the first week of the summer session.

COURSES OFFERED

Summer 1954

Art	501	Studio Course in Art	Staff
Biology	414	Materials for School Health Education	Joyce
	441	Advanced Ornithology	Hinds
	530	Conservation of Natural and Human Resources	Steen
	541	Problems in Ornithology	Hinds
Business Studies	412	Income Tax Accounting	Burdick
	436	Personnel Administration	Healey
	439	Office Management	Cooper
	501	Principles of Business Education	Cooper
Distributive Education	400A	Store Laboratory Experience	Trimpe
	400B	Store Laboratory Experience	Fidler
	425	Instructional Materials in Distributive Education	Fidler
	512	Seminar in Vocational Education	Trimpe
Economics	428	Comparative Economic Systems	Bowers
	526	Applied Economics for Teachers	Moore
Education	410	Parent Education	Binda
	411A	The Elementary Curriculum	Hopkins
	430	Educational Therapy in Reading	Carter
	431	Education of Exceptional Children	Thea
	433	Introduction to Lip Reading	Thea
	436	Mental Hygiene of Childhood and Adolescence	Govatos
	438	Audio-Visual Education	Snow
	480	Introduction to Guidance Service	Manske
	481	Techniques of Guidance	Manske
	482	Occupational Information for Counselors and Teachers	Kohrman
	501	Educational Research	Mallinson
	502	The School Curriculum	Hopkins
	503	Foundations of American Education	Sebaly
	504	Educational Psychology	Hunt
	512	Guiding Child Development in the Elementary Schools	Ellsworth
	514	Elementary School Administration	McClure
	521	The Secondary School Curriculum	Frederick
	523	The Role of the Secondary School in American Society	Chiara
	524	Administration of Secondary Schools	Bryan
	560	Principles of Educational Administration	Alcorn
	561	Social Interpretation	Alcorn
	570	Directed Teaching	McClure, Bryan
	600	Thesis in Education (Optional)	Staff
	601	Special Individual Studies	Staff

English	413	Modern Novel	Van Horn
	414	Shakespeare's Tragedies	Gary
	421	American Literature	Miller
	510	Appreciation of Poetry	Miller
Geography	406	Geography of Michigan	Berry
History	405B	U. S. History	Russel
	519	Studies in Russian History	Mange
	524	Studies in the History of the Old Northwest	Dunbar
Home Economics	400	Teaching of Family Living in Elementary Schools	Galbraith
	423	Institutional Management	Taylor
	504	Advanced Clothing Techniques	Volle
Industrial Arts	405	Problems in Woods	Schoenhals
	407	Furniture Construction	Schoenhals
	420	Advanced Drafting Practice	Huff
	464	Industrial Arts for the Elementary School	Plough
	551	Trends in Industrial Education	Feirer
	553	Project Planning and Designing	Feirer
	580	Special Problems in Industrial Arts	Feirer
Language	407	Central European Area	Rothfuss
	437	Studies in Contemporary France	Noble
Librarianship	402	Reading Interests of Young Adults	Brown
	403	Selection of Reading Materials	Van Zee
	405	Curriculum Enrichment Materials	Brown
	411	Reference Service	Van Hoesen
	509	History of Books and Printing	Hunt
	511	Advanced Reference and Subject Bibliography	Van Hoesen
	570	Advanced Cataloging and Classification	Van Zee
Mathematics	401	Teaching of Secondary Mathematics	Butler
	473	Introduction to Statistical Theory	Beeler
Music	401	Philosophy and History of Music Education	Green
	403	Psychology of Music Education	Beloof
	407	Music of Wagner and Beethoven	Berger
	451	Advanced Instrumental Conducting	Stulberg
	555	Band Arranging	Meretta
	560	Seminar in Music Education	Carter
	615-88	Individual Instruction in Applied Music	Staff
Occupational Therapy	512	Seminar in Occupational Therapy	Kiss
Physical Education for men	401	Curriculum Planning in Physical Education	Petoskey
	402	Problems in Interscholastic and Intercollegiate Athletics	Gabel
	501	Current Studies in the Administration of Physical Education	Gary

	502	Community Recreation	Slaughter
	503	Camp Administration	Slaughter
	504A	Advanced Techniques in the Coaching of Athletics	Petoskey
	504B	Advanced Techniques in the Coaching of Athletics	Hoy
	504C	Advanced Techniques in the Coaching of Athletics	Maher
	504D	Advanced Techniques in the Coaching of Athletics	Wietz
	505	Advanced Techniques in the Coaching of Minor Sports	Wietz
Physical Education for Women	540	Corrective Therapy and Rehabilitation	Hussey
Political Science	531	State Government	Stine
Psychology	402	Laboratory in Psychological Testing	McGinnis
	404	Occupational Analysis and Classification	Kuffel
	410	Learning and Memory	Van Liere
Science Division	503	Science for Elementary Teachers	Mallinson
Social Science Division	400	Teaching of the Social Studies	Woods
	401	Workshop on Contemporary Britain and Anglo-American Relations	Kercher
Sociology	442	Social Pathology and Personal Deviation	Manis
	545	The Family	Horton
Speech	405	Speech for the Classroom Teacher	Murphy
	421	Teachers' Workshop in Dramatics	York
	442	Teachers' Workshop in Radio	Garneau
	453	Applied Speech Correction	Van Riper
	501	Group Problem Solving	Murphy
Vocational Division	470	Principles of Practical Arts and Vocational Education	Trimpe
	512	Seminar in Vocational Education	Giachino
Vocational Industrial and Technical Education	400	Problems in Metalworking	Nantz
	410	Problems in Electricity	Luff
	474	Testing and Grading in Industrial Education	Giachino
	478	Exploring Industry	Luff
	500	Research in Machine Shop Practice	Nantz
	582	Special Problems in Vocational Education	Giachino

DESCRIPTION OF COURSES*

	Pages
Art	88
Biology	102
Business Studies	122
Chemistry	104
Directed Teaching	118
Distributive Education	124
Economics	109
Education	114
English	92
Geography and Geology	104
History	110
Home Economics	125
Industrial Arts	126
Languages	94
Librarianship	119
Mathematics	105
Music	89
Occupational Therapy	91
Paper Technology	106
Physical Education for Men	97
Physical Education for Women	99
Physics	107
Political Science	111
Psychology	107
Rural Life and Education	100
Science Division	102
Social Science Division	109
Sociology	112
Speech	95
Vocational Division	122
Vocational-Industrial and Technical Education	128

*For information regarding the significance of course numbers and credit for courses see page 51.

DIVISION OF FINE ARTS

Lydia Siedschlag, Chairman

The Division includes the Departments of Art, Music, and Occupational Therapy. It functions through a committee consisting of the respective heads of these departments. The heads of the departments and the departmental counselors will advise students relative to requirements for majors or minors in these departments and concerning any special requirements set up by the departments. In certain cases, where a group major or minor is possible and advisable, the chairman of the Division should be consulted. Major and minor requirements and special departmental requirements are listed under the individual departments in the *Annual Catalog*.

ART

HAZEL PADEN STANLEY PHILLIPS

ELIZABETH SMUTZ

105 Elementary Design

A fundamental course in art, developing design and color theory through problems in various media. Miss Paden. Three semester hours.

106 Art Structure

A course giving drawing experience, lettering, figure, color, and design. Mr. Phillips. Three semester hours.

107 Illustrative Handwork

An elementary craft course with manual problems related to interests in the primary grades. Mr. Phillips. Three semester hours.

112 Learning Through Art

A course designed for the grade teacher. Art problems are related to the curricula. Posters, programs, bulletins, decorations for special days are handled seasonally. No prerequisite. Miss Smutz. Three semester hours.

306 Demonstration Drawing

A required course for Art majors who expect to teach. Methods and teaching devices are stressed and opportunity given to experiment with new materials. Tentative course of study is made. Prerequisite: Art Structure 106. Miss Paden. Two semester hours.

Open to Graduates

501A Studio Course in Art

Advanced art problems or projects creatively conceived and executed to fulfill student or college needs—sculpture, murals, etc. The Staff. Four semester hours.

MUSIC

SAM B. ADAMS
ELMER R. BELOOF
OWEN L. BERGER
ELWYN F. CARTER
ETHEL M. GREEN
ANGELO LAMARIANA
LEONARD V. MERETTA
DOROTHEA S. SNYDER
JULIUS STULBERG

107A Music Appreciation

This course, primarily a listening one, is designed for students wishing a general cultural course to increase their knowledge and discrimination of music. Various types of music from the folk song and dance to the symphony, oratorio, and opera are presented and discussed. Concerts and outstanding radio programs are related to the course. Miss Green. Two semester hours.

109 Rural School Music Methods and Materials

This course consists of sight reading of unison songs, introduction of part singing, 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; materials for the school music program, community singing, and recreation are considered. Mrs. Snyder. Three semester hours.

132 Orchestra

The orchestra is open to all students who have had a reasonable amount of orchestral experience. Many fine compositions will be studied and played during the year. The orchestra will present at least one public program during the summer. Many unusual instruments are available for the use of students. Mr. LaMariana. One semester hour.

134 Summer School Choir

A summer school choir, open to all students having had choral experience, will be organized. Material will be used that will be sung in the following spring at the High School Music Festivals. Mr. Adams. One semester hour.

208A Elementary School Methods and Materials

The purposes, problems and procedures of teaching music in the first six grades. The following topics are discussed: development of independent sight-seeing (syllables and words), two- and three-part singing, introduction of tonal and rhythmic problems found in music designed for these grades, introduction of notation, creative music for children, the child voice, and directed listening. Mrs. Snyder. Three semester hours.

209A Instrumental Methods and Materials

A discussion of the teaching methods for classes in strings and winds, and an evaluation of the materials suitable for these classes and small and large ensembles. Mr. LaMariana. Three semester hours.

301B Senior High School Methods and Materials

This course involves a study of the place of music in the education of adolescent youth, the changing voice, voice testing and classification, singing and instrumental ensembles, the place of music in all types of integrating courses for secondary schools, and class instruction in voice and the various instruments. Mrs. Snyder. Three semester hours.

357B History of Music

Early development of rhythm, scale, and keynote; beginnings of harmony, growth of notation; development of instruments and instrumental music; growth of opera and oratorio; crystallizing of schools of composition and the place of various composers in this process; use of nationalism in music and its transition into the music of the twentieth century. Mr. Berger. Three semester hours.

Individual Instruction

Individual instruction in Applied Music, such as Woodwind Instruments, Brass Instruments, String Instruments, Piano, Organ, and Voice, can be elected for college credit by any student in the college. Such elected study is granted two semester hours credit in the summer session. Consult the head of the department concerning enrollment for individual instruction.

Open to Upperclassmen and Graduates

401 Philosophy and History of Music Education

A course designed to acquaint the student with the history of the development of music education in the United States and how this development is the reflection of a growing philosophy of music education. Miss Green. Two semester hours.

403 Psychology of Music Education

The purpose of this course is to develop understanding of such problems as: differences in musical ability, various music tests, attitudes toward music and behavior in musical organizations. Materials for the course are largely drawn from Educational Psychology. Dr. Beloof. Two semester hours.

407 Music of Wagner and Beethoven

A course designed to acquaint one with the music of these composers, its style, its place in the field of Music Literature and its relationship to the period in which they lived. Open to any interested senior or graduate student. Mr. Berger. Two semester hours.

451 Advanced Instrumental Conducting

Supervised experience in conducting instrumental groups. The student may be called upon to prepare an ensemble for public performance. Prerequisite: Instrumental Conducting 311A, Choral Conducting 311B. Mr. Stulberg. One semester hour.

Open to Graduates

555 Band Arranging

Instruction in scoring for small wind instrument ensembles, and the band, from the viewpoint of the needs of the band director. Opportunity will be provided to hear the results of each student's work. Mr. Meretta. Two semester hours.

560 Seminar in Music Education

Each participant will be expected to develop a project which is of interest to him, but each project will be subject to group discussion, review and analysis. The lectures and reading will be of a general nature referring to the whole field of Music Education. Dr. Carter. Two semester hours.

615-688 Individual Instruction in Applied Music

Individual instruction in Applied Music, such as Woodwind Instruments, Brass Instruments, String Instruments, Piano, Organ, and Voice, can be elected for graduate credit by any qualified graduate student. Such elected study is granted two semester hours in the student's major performance medium or one semester hour in his secondary performance medium. A total of not more than four semester hours in the major performance area and not more than two semester hours in a secondary performance may be applied on the master's degree. The Applied Music Staff. One or two semester hours.

OCCUPATIONAL THERAPY

ROSALIA A. KISS

311 Clinical Practice

Each student is required by the American Medical Association to complete nine months of clinical training in hospitals arranged by the instructor and supervised by the therapist in charge of the respective Occupational Therapy departments. The types of hospitals in which the student trains are psychiatric, tuberculosis, general, pediatric, and physical disabilities. Comprehensive reports are made by the students and analyzed by the instructor for ultimate consideration when the student graduates and qualifies for the national registration examination given by the American Occupational Therapy Association. Arranged for by Miss Spear and Miss Kiss. Five semester hours.

Open to Graduates

512 Seminar in Occupational Therapy

Open to advanced students who wish to undertake special studies in this field. Miss Kiss. Two semester hours.

DIVISION OF LANGUAGES AND LITERATURE

William R. Brown, Chairman

The Division includes the Departments of English, Languages, and Speech. It functions through a committee consisting of the respective heads of these departments. The heads of the departments and the departmental counselors will advise students relative to requirements for majors and minors in these departments and concerning any special requirements set up by the departments. In certain cases, where a group major or minor is possible and advisable, the chairman of the Division should be consulted. Major and minor requirements and special departmental requirements are listed under the individual departments in the *Annual Catalog*.

ENGLISH

THELMA E. ANTON
GEORGIANN BURGE
LORENA M. GARY
FRANK C. HOUSEHOLDER
RALPH N. MILLER
RUTH VAN HORN
LOUISE J. WALKER

106B Rhetoric

A continuation of 106A. Miss Walker. Three semester hours.

216A Contemporary Literature

A detailed study of the major trends and authors represented by them in English Literature from the beginning of the century to the present time. 216A is not a prerequisite for 216B. Miss Anton. Two semester hours.

216B Contemporary Literature

A detailed study of the major trends and authors represented by them in American literature from the beginning of the century to the present time. Mr. Householder. Two semester hours.

300 Teaching of English

This course aims to give the prospective teacher in the junior and senior high school the best available information relative to the content and teaching of English. This course is strongly recommended for secondary English majors. Miss Walker. Two semester hours.

307B History of English Literature

A continuation of 307A. A study of representative English dramas, essays, and novels. Miss Anton. Three semester hours.

313 English Novel

A study of the technique of the novel and its development in England from Defoe to Hardy. Mr. Householder. Three semester hours.

318B The New Testament

A study of the literature of the New Testament with particular reference to the Epistles of Paul. No credit given to students who have taken English Bible, 218B. Miss Gary. Three semester hours.

319 Types of Short Fiction

A study of the short story and the short novel or novelette as art forms, principally in America, England, and certain European countries, with comments on the inter-relationship of ideas. No credit given to students who have taken Short Story 219. Miss Van Horn. Three semester hours.

322 American Literature

This course is intended for juniors and seniors who have not taken English 221A, B. (This course cannot be counted for credit together with courses 221A, B.) Mrs. Burge. Three semester hours.

325 History of the English Language

A course in the development of the language, treating the historic and linguistic forces which have brought about changes in the form, grammar, and vocabulary of English. Required of all English majors and of all minors except in the Elementary Curriculum. Mrs. Burge. Two semester hours.

Open to Upperclassmen and Graduates

413 The Modern Novel

A study of social interpretation in the English novel from Jane Austen to John Galsworthy, together with parallel reading in contemporary continental authors of the corresponding patterns. Miss Van Horn. Two semester hours.

414 Shakespeare's Tragedies

Elective course for graduates and for seniors who wish one term of Shakespeare. Prerequisite: 10 hours of College English Literature. Miss Gary. Three semester hours.

421 American Literature

A survey of the literature of the colonial and early national period, including the writings of Freneau, Irving, Bryant, Emerson, Thoreau, Hawthorne, Poe, and Melville. Dr. Miller. Two semester hours.

Open to Graduates

510 Appreciation of Poetry

A study of the techniques of poetry and of the mode of poetic discourse as distinguished from prose. Poems from various periods of English and American literary history will be examined in terms of subject, diction, form, imagery, point of view, tone, philosophy. Designed for elementary and secondary school teachers. Dr. Miller. Two semester hours.

LANGUAGES

FRANCES NOBLE HERMANN E. ROTHFUSS

The Language Department will be glad to confer with students whose needs are not met by the courses scheduled.

100A Elementary French

The course includes rudiments of grammar, drill in pronunciation, reading of a selected text, writing French from dictation, and memorizing of French songs and poems. It aims, from the outset, to give training in understanding spoken French. Dr. Noble. Four semester hours.

100B Elementary German

This is a continuation of 100A. Approximately 100 pages of prose are read, and grammar, oral work, and composition are correlated. No credit is given for 100A unless 100B is completed. Dr. Rothfuss. Four semester hours.

201A German Conversation

The aim of this course is to supplement the practice in speaking and writing done in the reading courses. It is required of students majoring in German. Prerequisite: the equivalent of two years of college German. Dr. Rothfuss. Two semester hours.

202 Reading from Modern French Novels and Plays

This course is intended for students beyond the first year French level and takes into account, through individual work, differences in preparation. The course consists of reading of novels, plays, and other material as a basis for conversation practice and vocabulary building. Dr. Noble. Two semester hours.

Open to Upperclassmen and Graduates

407 Central European Area

This course proposes to investigate cultural aspects necessary for an understanding of the Central European situation which is of such great present-day importance. Countries included will be Germany, Austria, Switzerland, and Czechoslovakia. Historical, geographical, social, and religious problems will be investigated to give the students an insight into this topic. There is no foreign-language prerequisite for the course. Dr. Rothfuss. Two semester hours.

437 Studies in Contemporary France

This course investigates more deeply some phases of French economic, political, social, and educational life which were only mentioned in France and the French 207A and 207B. An effort is made to understand those factors in French thinking which strongly affect international thought today. There is no prerequisite for this course. Dr. Noble. Two semester hours.

SPEECH

ALBERT B. BECKER
WALLACE L. GARNEAU
JACK W. MURPHY
CHARLES VAN RIPER
ZACK YORK

105A Fundamentals of Speech

The basic course for all work in the department. A study and application of the fundamental principles underlying the use of the voice and the body for effective communication. Credit will be given for this course alone, but it is strongly urged that 105A and 105B be taken as a unit. Dr. Becker. Three semester hours.

201 Parliamentary Usage

Designed for upperclassmen who desire some knowledge of how to organize meetings and conduct business according to parliamentary procedure. Study of such matters as motions and their order of precedence, committees and their duties, and election of officers. Constant application in the classroom of the principles studied. Dr. Becker. One semester hour.

206 Public Speaking

Introductory study of the rhetorical principles of public speech and audience psychology. The primary aim is to develop clear thinking and ease and effectiveness in speaking. Frequent opportunity for platform work is given. Designed for upperclassmen. Prerequisite: Fundamentals of Speech 105A, B. Dr. Murphy. Three semester hours.

318 Phonetics

This course is designed to acquaint the student with the standard of pronunciation, with the methods of sound formation and phonetic transcription, and with the application of these methods to foreign language, dialect, interpretive reading, dramatics and speech correction. Dr. Van Riper. Three semester hours.

Open to Seniors and Graduates

405 Speech for the Classroom Teacher

The course is designed to help the teacher become more effective in speaking and reading. The content of the course will be adjusted to meet the specific speech needs of the individual members of the class. Dr. Becker. Two semester hours.

421 Teachers Workshop in Dramatics

A practical workshop in the basic skill of theater production for students with little or no formal training in theater. Opportunity is given for individual research and problem solving. Dr. York. Four semester hours.

442 Teachers Workshop in Radio

A practical workshop in radio with emphasis upon the use of radio equipment. Planning program series, directing radio productions, and editing radio scripts. Mr. Garneau. Four semester hours.

453 Applied Speech Correction

This course is for students interested in the actual practice of speech correction. The course will involve training in the remedial treatment of speech defectives in the college clinic and schools associated with the college, service in a traveling speech clinic, and the study of the principles of clinical practice. Prerequisite: Fundamentals of Speech 105A, B, Principles of Speech Correction 251, and consent of instructor. Dr. Van Riper. Three semester hours.

Open to Graduates

501 Group Problem Solving

A practical course for teachers and administrators dealing with problems of their own choice. Its purpose is to present principles and offer practice in group problem solving in a democracy. Techniques employing committee hearing, symposium, panel, forum, and board meeting will be considered. Opportunities will be given each member to participate in roles of leader, participant, observer, and critic. Dr. Murphy. Two semester hours.

DIVISION OF PHYSICAL EDUCATION AND HEALTH

Mitchell J. Gary, Chairman

The Division includes the Department of Physical Education for Men and the Department of Physical Education for Women. It functions through a committee consisting of the respective heads of these departments. The heads of the departments and the departmental counselors will advise students relative to requirements for majors and minors in these departments and concerning any special requirements set up by the departments. Major and minor requirements and special departmental requirements are listed under the individual departments in the *Annual Catalog*.

PHYSICAL EDUCATION FOR MEN

EDWARD A. GABEL
MITCHELL J. GARY
JOSEPH T. HOY
CHARLES H. MAHER
JACK E. PETOSKEY
THOMAS C. SLAUGHTER
RAYMOND F. SORENSON
ROY J. WIETZ

203A General Physical Education

Activities of this course are designed to meet the physical needs of college sophomores with emphasis on participation in the sports in season with advanced work in gymnastics and tumbling. Mr. Wietz. One semester hour.

306 First Aid and Athletic Training

Knowledge and skill in meeting emergencies. The use of massage, strappings, and training-room techniques from the coach's point of view. Prerequisites: Anatomy 211A, Physiology 211B. Mr. Gabel. Three semester hours.

310 Swimming

This course for physical education majors and minors is basic. Instruction is given to beginners with emphasis on the various strokes. Competent swimmers may participate in qualification tests for Senior Life Saving. Mr. Gabel. One semester hour.

320 Playground and Community Recreation

Nature and function of play; age periods and adaptations of activities; social environment; needs and objectives; playground development, construction, management, and supervision. Study of outstanding programs in operation. A survey of recreational material. Mr. Sorenson. Three semester hours.

Open to Upperclassmen and Graduates

401 Curriculum Planning in Physical Education

A study and evaluation of present-day trends in secondary physical education for boys. A discussion of principles and procedures for curriculum construction and criteria for selection of activities and judging of outcomes. Individual projects will be developed. Mr. Petoskey. Two semester hours.

402 Problems in Interscholastic and Intercollegiate Athletics

Relationship of athletics to education is considered. Problems in the organization of an athletic program including eligibility, finance, liability, transportation, safety, facilities, and equipment will be discussed. Mr. Gabel. Two semester hours.

Open to Graduates

501 Current Studies in the Administration of Physical Education

For administrative officers as well as for teachers and directors of physical education. Includes a study of representative programs of physical education and a discussion of standards for evaluating such programs. Mr. Gary. Two semester hours.

502 Community Recreation

Course considers problems in community recreation. The essential elements pertaining to leadership, areas, facilities, program, activities and methods of organization and administration are considered. A study is made of outstanding programs in operation. Recreation material is surveyed. Mr. Slaughter. Two semester hours.

503 Camp Administration

The organization and administration of camps; their program requirements and standards. Consideration is given to philosophy and objectives, personal skills in camp activities and methods of teaching them. Excursions are taken out-of-doors in cook-outs; overnight hikes. Weekend camping will be experienced. Visits will be made to camps operating in this vicinity. Mr. Slaughter. Two semester hours.

504A, B, C, D Advanced Techniques in the Coaching of Athletics

The course will consider problems in the coaching fundamentals, the organization of practice periods, and offensive and defensive strategy. Prerequisite: Either coaching experience or completion of an undergraduate course in the sport concerned.

504A Football 1 semester hour. Mr. Petoskey.

504B Basketball 1 semester hour. Mr. Hoy.

504C Baseball 1 semester hour. Mr. Maher.

504D Track 1 semester hour. Mr. Wietz.

504A and 504B are offered during the first three weeks of the summer session.

504C and 504D are offered during the second three weeks of the summer session.

Either 504A or 504B and 504C or 504D may be completed during one summer session.

505 Advanced Techniques in the Coaching of Minor Sports

This course considers problems and coaching techniques in minor sports such as wrestling, tennis, archery, badminton, and golf. Rules and regulations governing meets and play are discussed. Actual participation in the activities is required. Either coaching experience or completion of an undergraduate major or minor in the field of Physical Education is a prerequisite. Mr. Wietz. Two semester hours.

PHYSICAL EDUCATION FOR WOMEN

JOETTE HAINKS DORIS A. HUSSEY

CRYSTAL WORNER

101 Square Dancing

Miss Worner. One-third semester hour.

108 Restricted Physical Education

A course in modified sports and recreation activities for students with physical limitations. Miss Hainks. One-third semester hour.

110 Swimming

Swimming, diving, and life-saving. Prerequisite: Physical Education 100. Miss Hussey. One-third semester hour.

113 Tennis

Prerequisite: Physical Education 100. Miss Worner. One-third semester hour.

118 Archery

Prerequisite: Physical Education 100. Miss Hainks. One-third semester hour.

120 Badminton

Prerequisite: Physical Education 100. Miss Hussey. One-third semester hour.

122 Social Dancing

Miss Hainks. One-third semester hour.

285 Health Education

In this course the fundamental scientific principles of healthful living are developed through a study of school health problems. An effort is made to make prospective teachers aware of modern methods and materials useful

in helping school children solve their health problems. Miss Worner. Two semester hours.

334 Public School Physical Education

A survey of the needs and interests of children as to physical education and presentation of suitable activities. This course may be substituted for Physical Education courses 233, 330, 331, or 332, which appear in the catalog. Miss Hainks. Two-thirds semester hour.

Open to Graduates

540 Corrective Therapy and Rehabilitation

A study of the physically handicapped child and of the contribution which the physical education program can make in his education. After a review of kinesiology and the principles of good body mechanics, a study will be made of muscular re-education for cases of birth injury, poliomyelitis, cerebral palsy and other handicapping deviations. Miss Hussey. Two semester hours.

DIVISION OF RURAL LIFE AND EDUCATION

Wm. McKinley Robinson, Chairman

The Division includes the Departments of Agriculture and Rural Life and Education. It functions through a committee consisting of the respective heads of these departments. The heads of the departments and the departmental counselors will advise students relative to requirements for majors or minors in these departments and concerning any special requirements set up by the departments. In certain cases, where a group major or minor is possible and advisable, the chairman of the Division should be consulted. Major and minor requirements and special departmental requirements are listed under the individual departments in the *Annual Catalog*.

RURAL LIFE AND EDUCATION

JAMES O. ANSEL WM. MCKINLEY ROBINSON

230 Rural Economics

The fundamental principles are considered in terms of rural life relating to the local community and to the national and international scene. Economic interpretation is given topics touched upon in the elementary and secondary-school curricula; notably, conservation, agricultural extension services, cooperatives, insurance, consumer education, etc. Dr. Robinson. Three semester hours.

240 Introduction to Directed Teaching

A functional study of the general principles underlying good teaching and management in the various types of rural schools. Group and individual

observation and participation opportunities on and off campus are provided. Dr. Ansel. Three semester hours.

321 Rural Life (Seminar)

Social research, such as local, county, or regional planning of various services and agencies is considered, members of the class devising forms and schedules for a rural community study. Individual problems are studied, field trips are included. Prerequisite: consent of instructor. Dr. Ansel and Dr. Robinson. Two semester hours.

345 Rural School Supervision (Seminar)

Planning for principals, supervisors, and superintendents, this includes individual reports on problems related to the curriculum, teaching, and supervision of all types of rural schools and stresses the in-service education of teachers. Prerequisite: consent of instructor. Dr. Ansel and Dr. Robinson. Two semester hours.

348 Special Problems of Village and Consolidated Schools (Seminar)

Supplementing 340, considers administrative topics confronting principals and superintendents in rural areas, such as aims and functions of the school in relation to the community, district surveys, location and planning of buildings, finance, transportation, selection, salary and tenure of teachers, extra-curricular activities, PTA. Includes trips to nearby schools. Prerequisite: consent of instructor. Dr. Ansel and Dr. Robinson. Two semester hours.

DIVISION OF SCIENCE AND MATHEMATICS

William J. Berry, Chairman

The Division includes the Departments of Biology, Chemistry, Geography and Geology, Mathematics, Physics, and Psychology. It functions through a committee consisting of the respective heads of these departments. The heads of the departments and the departmental counselors will advise students relative to requirements for majors or minors in these departments and concerning any special requirements set up by the departments. In certain cases, where a group major or minor is possible and advisable, the chairman of the Division should be consulted. Major and minor requirements and special departmental requirements are listed under the individual departments in the *Annual Catalog*.

Open to Graduates

503 Science for Elementary Teachers

Indicates the part played by science experiences in the development of children, acquaints teachers with types of science content and teaching procedures suitable in elementary education. Dr. Mallinson. Two semester hours.

BIOLOGY

A. Verne Fuller
Frank J. Hinds
Edwin B. Steen
Merrill R. Wiseman

102S Biological Science for Teachers

This course presents the basic principles of biological science in terms of simple and easily available materials which can be utilized by teachers in the field. It may be counted toward satisfying graduation requirements in the science area, or as a partial foundation for a major or minor in biology. Mr. Wiseman. Four semester hours.

112 Healthful Living

A study of the principles underlying sound health practices. Factors in the causation, prevention, and the control of disease are considered, and some attention is given to mental and social hygiene. Mr. Wiseman. Two semester hours.

211S Anatomy and Physiology for Teachers

This consists of an abridgement of Anatomy 211A, and Physiology 211B, which are offered during the regular school year. Emphasis is placed on those materials and understandings which are especially valuable for teachers in service. Dr. Steen. Four semester hours.

224 Local Flora

A field course in the identification of flowering plants. This course is designed to acquaint the student with the wild flowers occurring in southwestern Michigan. Attention is given to their geographic and physiographic distribution and other ecological relationships. Prerequisite: 100A or B or equivalent. Miss Fuller. Two semester hours.

231S Nature Study for Teachers

The development of the ability to interpret natural phenomena with scientific accuracy, and to gain an understanding and appreciation of the relationships of life forms to each other and to their environment. Topics receiving special emphasis are flowering and non-flowering plants, insects, spiders, summer birds, mammals, and summer constellations. Daytime and evening field trips are part of the scheduled work. Miss Fuller. Four semester hours.

Open to Upperclassmen and Graduates

414 Materials for School Health Education

A practical course of lectures and demonstrations in which emphasis is placed on the effective health supervision of school children, the principles and practices of health teaching in the various grades, and the interrelation of this teaching to that of the other subjects in the curriculum. Mr. Hinds. Two semester hours.

441 Advanced Ornithology

Introductory bird study is reviewed. Special attention is given to details of song, habitat, habits and identification of shore and marsh birds in their native haunts. Skins of birds both resident and migrant in Michigan are provided for identification in the laboratory. Early morning field trips will be a part of the scheduled class work. Prerequisite: 8 hours of college laboratory courses in biology and permission of instructor. Mr. Hinds. Three semester hours.

Open to Graduates

530 Conservation of Natural and Human Resources

A study of the problems involved in the adjustment of human populations to the limitations imposed by the natural world, how man may make the best use of both replaceable and non-replaceable natural resources, and how he may best adjust himself to situations of abundance and scarcity. Problems of human, soil, forest, wild-life, water, and mineral conservation are stressed. Dr. Steen. Two semester hours.

541 Problems in Ornithology

Within the framework of a working knowledge of local bird fauna, students are expected to work on one or more specific problems. These will form the basis for an acceptable written report. Mr. Hinds. Two semester hours.

CHEMISTRY

JAMES W. BOYNTON ROBERT J. ELDRIDGE

101A General Chemistry

This is a more advanced course than 100A. The theory and fundamental principles of chemistry are emphasized. It is a foundation course. Prerequisite: one unit of high-school chemistry and one unit of algebra. Mr. Eldridge. Four semester hours.

201 Qualitative Analysis

A lecture and laboratory course treating the theory and practice of separation and identification of both cations and anions. Prerequisite: General Chemistry 100A, B or 101A, B. A knowledge of common logarithms is essential. Mr. Boynton. Four semester hours.

202 Quantitative Analysis

This course includes the theory and practice of volumetric and gravimetric analysis. Prerequisite: Qualitative Analysis 201. A knowledge of quadratic equations and common logarithms is essential. Mr. Boynton. Four semester hours.

306A Organic Chemistry

Preparation and reactions of organic compounds, of both the aliphatic and the aromatic series, are studied. These courses are valuable, not only to those students who wish to teach chemistry, but also to those who may later study medicine, dentistry, or chemical engineering. Prerequisite: General Chemistry 100A, B or 101A, B. Open to qualified sophomores. Mr. Eldridge. Four semester hours.

GEOGRAPHY AND GEOLOGY

WILLIAM J. BERRY CYRIL L. STOUT

206 United States and Canada

Study of areal differentiation in Anglo-America and of present-day problems, with emphasis upon occupational crises in selected regions. Prerequisite: Geography 105A or Geography 305. Dr. Berry. Three semester hours.

208 South America

Regional study of the several countries of South America with attention to the interrelationships of the physical and cultural environments. Historical backgrounds necessary for the interpretation of the present political, social and economic conditions are included. Prerequisite: Geography 105A, or Geography 305. Dr. Stout. Three semester hours.

312 Conservation of Natural Resources

Critical evaluation of certain of the natural resources of the United States, such as minerals, soils, forests, water, and wild life; and study of

the utilization of these resources so as to yield the greatest ultimate good. Methods in teaching conservation. Dr. Stout. Three semester hours.

Open to Upperclassmen and Graduates

406 Geography of Michigan

Detailed but non-technical study of Michigan in which are taken up the major economic, social, and recreational activities with a view to explaining their existence in the part of the state where each activity is prominent. Prerequisite: Geography 105A, B or Geography 305, or equivalent, or consent of instructor. Dr. Berry. Two semester hours.

MATHEMATICS

FRED A. BEELER CHARLES H. BUTLER

PEARL L. FORD

100A Intermediate Algebra

For students who present for admission only one year of high school algebra and one year of plane geometry, this course should precede trigonometry and college algebra. It includes a review of the important topics of the first year's course, and covers the work usually given in the third semester of high school algebra. Prerequisite: One year of high school algebra and one year of plane geometry. Miss Ford. Three semester hours.

100C Plane Trigonometry

A study of trigonometric functions, identities, and equations, inverse functions, logarithms, radian measure, and the solution of triangles. Prerequisite: 1½ years of high school algebra (or Math. 100A) and one year of plane geometry. Miss Ford. Three semester hours.

101 Arithmetic for Teachers

This course is designed for students who expect to teach arithmetic in the grades. It deals with the history, philosophy, objectives, and methods of teaching arithmetic, and includes a thorough review of the subject matter of arithmetic. Miss Ford. Three semester hours.

115 College Algebra

A review of exponents, radicals, and quadratic equations; systems of quadratic equations, progressions, the binomial theorem, complex numbers, and such other topics as time permits. Prerequisite: 1½ years of high school algebra (or Math. 100A) and one year of plane geometry. Dr. Beeler. Three semester hours.

116 Analytic Geometry

The analytic geometry of the straight line, circle, conics, and certain of the higher plane curves; transformation of axes, polar coordinates, and parametric and polar equations. A brief introduction to solid analytic geom-

etry is given near the end of the course. Prerequisite: Trigonometry and college algebra. Dr. Butler. Four semester hours.

120A Business Mathematics

Diagnostic and remedial work in the fundamental operations of arithmetic, together with a study of elementary business forms and problems. This course is intended primarily for students in the department of Business Studies. Dr. Beeler. Two semester hours.

227A Mathematics of Finance

This is the first semester of a year's work in the mathematics of finance. It includes the study of simple and compound interest, simple annuities certain, and the application of such annuities to problems in the amortization of debts, sinking funds, the valuation of bonds, depreciation, and perpetuities. Prerequisite: Math. 103B, 104B, 105B, or 116. Dr. Butler. Three semester hours.

322 Theory of Equations

The major topics studied are complex numbers, properties of polynomials, cubic and quartic equations, algebraic criteria for rule-and-compass constructions, determinants, and the solution of systems of linear equations. Prerequisite: Math. 205B. Dr. Beeler. Two semester hours.

Open to Upperclassmen and Graduates

401 Teaching of Secondary Mathematics

In this course some consideration is given to curriculum problems and trends in secondary school mathematics, but the main emphasis will be upon specific problems of teaching mathematics effectively to secondary school students. Prerequisite: Math. 116 or equivalent. Dr. Butler. Two semester hours.

473 Introduction to Statistical Analysis

The study of statistics as the science of experimentation: averages, dispersions, sampling, correlation and statistical tests valid for small and large samples. Prerequisite: Analytic Geometry. Dr. Beeler. Two semester hours.

PAPER TECHNOLOGY

ALFRED H. NADELMAN

131 Summer Mill Practice

In order to gain practical experience, students of pulp and paper technology are required to work in a mill for ten weeks following the second semester. Employment has to be secured and/or approved by the Advisory Committee of the Paper Industry. Prerequisite: Orientation to Pulp and Paper Technology 130A, B. Dr. Nadelman. Two semester hours.

231 Summer Mill Practice

A continuation of paper-mill work to give the student diversified practical experience. It is expected that the student will work in pulp and paper mills at least two out of three summers. Prerequisite: Pulp and Paper Manufacture 230A, B. Dr. Nadelman. Two semester hours.

331 Summer Mill Practice

Course 331 is optional for students who received credit for courses 131 and 231. Dr. Nadelman. Two semester hours.

PHYSICS

EDWIN S. FOX

100A Physical Science

This course is designed for students who are not planning to specialize in any of the physical sciences but who desire a general background in this field. Selected topics in science, such as the solar system, energy, chemical change, the generation and use of electricity, x-rays and radioactivity, and others, are discussed. Mr. Fox. Four semester hours.

102A General Physics

A general college physics course in the principles and practical applications of mechanics, sound, and heat. Required of all medical and dental students. Recommended for students desiring a four-hour course in physics. Mr. Fox. Four semester hours.

PSYCHOLOGY

HOMER L. J. CARTER
BARBARA A. FREDERICK
STANLEY KUFFEL
DOROTHY J. MCGINNIS
DONALD VAN LIERE

200 General Psychology

A brief survey of the elementary principles of psychology. This course affords a general introduction to the field. Miss Frederick. Three semester hours.

207 Psychology of Personality

Attention is given to individual differences, traits, content, and synthesis of personality; modification of behavior and varieties of adjustive behavior. Emphasis is placed upon constructive personal adjustment and the manner in which it is achieved in various interpersonal relations. Mr. Carter. Four semester hours.

213 Psychology of Adolescence

This course deals with the various kinds of development in the adolescent. It discusses his problems and difficulties and the proposals for reducing his

difficulties and improving his adjustment. Dr. Van Liere. Three semester hours.

305 Abnormal Psychology

A discussion of the deviant individual, with particular attention to the recognition of disordered behaviors, to the factors contributing to their development and to the principles of therapy. Consult instructor before enrolling. Dr. Kuffel. Three semester hours.

Open to Upperclassmen and Graduates

402 Laboratory in Psychological Testing

The course will consider selecting, administration and interpretation of educational, personality and aptitude tests. A competency in interviewing technique will be developed. Miss McGinnis. Three semester hours.

404 Occupational Analysis and Classification

Sources of occupational information; procedures and techniques of job analysis and job classification; applications in employment procedures, placement, and vocational counseling. Dr. Kuffel. Two semester hours.

410 Learning and Memory

A survey of the general principles of learning and memory and an introduction to learning theory. Dr. Van Liere. Two semester hours.

DIVISION OF SOCIAL SCIENCES

James O. Knauss, Chairman

The Division includes the Departments of Economics, History, Philosophy, Political Science, and Sociology. It functions through a committee consisting of the respective heads of these departments. The heads of the departments and the departmental counselors will advise students relative to requirements for majors or minors in these departments and concerning any special requirements set up by the departments. In certain cases, where a group major or minor is possible and advisable, the counselor of the Division should be consulted. Major and minor requirements and special departmental requirements are listed under the individual departments in the *Annual Catalog*.

Open to Upperclassmen and Graduates

400 Teaching of the Social Studies

Teaching of the social studies in the junior and senior high school. Definition of objectives. Selection, organization and development of content materials. Study of the procedures and problems of effective teaching in the social studies. Dr. Woods. Two semester hours.

401 Social Studies Seminar: England—1954

A foreign-study seminar especially designed for teachers and advanced college students in the social studies. It consists of regularly scheduled lectures and discussions on British life, institutions, and international relations. Conducted trips relate the lectures to the contemporary scene. The seminar is in formal session at Ashridge College, England, for a period of five and a half weeks, after which the party will travel on the continent for approximately three weeks. Credit, up to a maximum of three semester hours in one department, may be distributed among economics, history, political science, and sociology. Dr. Kercher and Dr. Seibert. Six semester hours.

ECONOMICS

ROBERT S. BOWERS FLOYD W. MOORE

220A Principles of Economics

A study of the fundamental principles of economics and their application to some of our more important economic problems. Prerequisite to nearly all other courses in economics. Dr. Moore. Three semester hours.

220B Principles of Economics

A continuation of Principles of Economics 220A. Prerequisite to nearly all other courses in economics. Prerequisite: 220A. Dr. Bowers. Three semester hours.

Open to Upperclassmen and Graduates

428 Comparative Economic Systems

The economic institutions and conditions of capitalism, socialism, communism, fascism, and the cooperative movement are critically examined as to ideology and actual operation. Prerequisite: Principles of Economics 220A, B. Dr. Bowers. Two semester hours.

Open to Graduates

526 Applied Economics for Teachers

This course is designed primarily to help inservice teachers. Two or three segments of our present economy, such as: installment buying, concentration of economic power, buying and selling of stocks and bonds, distribution of the national income, the economic role of governments, the supply and demand theory of prices, banking, capitalism and full employment, costs of living, labor relations, the national debt, or other segments selected by the class, are critically examined. It is hoped that the results of these examinations will be (*a*) applicable to grade and high-school classroom demands and procedures, and (*b*) helpful additions to the general economic understanding of the students. Each student is expected to prepare a paper on some economic problem selected by the student in conference with the instructor. No prerequisites are required, although some undergraduate or graduate credits in the Social Sciences are desirable. Not open to students who have had Principles of Economics without consent of instructor. Dr. Moore. Two semester hours.

HISTORY

WILLIS F. DUNBAR
JAMES O. KNAUSS
A. EDYTHE MANGE
ROBERT R. RUSSEL

108A Modern Europe, 1500-1815

A study of the Reformation; 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; colonial conflict, social and political ideas of the eighteenth century; the French Revolution; and the era of Napoleon. Dr. Mange. Three semester hours.

108B Modern Europe, 1815 to the Present Time

The reactionary period after 1815; the industrial revolution; the liberal and national movements of the nineteenth century; the Near-Eastern question; the expansion of Europe in Asia and Africa; international relations; World War I; the peace treaties; causes and results of World War II. Dr. Dunbar. Three semester hours.

201A United States History to 1865

A general survey of American history from the beginning of the Thirteen Colonies to the end of the Civil War. Dr. Knauss. Three semester hours.

201B United States History, 1865 to the Present

A general survey of United States history for the period. Dr. Russel. Three semester hours.

313 History of Michigan

A course designed to show the development of the contemporary political, social, and economic status of Michigan. The relation of the history of the state to that of the nation is stressed. Dr. Knauss. Three semester hours.

Open to Upperclassmen and Graduates

405B United States History, 1845-1877

This course deals principally with the great sectional struggle over slavery. It is conducted in the same manner as 405A. Prerequisite: six semester hours of history. Dr. Russel. Two semester hours.

Open to Graduates

519 Studies in Russian History

Lectures and reading on those phases of Russian history necessary for an understanding of the present. The critical use of historical materials in the preparation of papers on topics of current significance along two general lines: (a) problems connected with Russia's borderlands; (b) the evolution of Soviet institutions. Dr. Mange. Two semester hours.

524 Studies in the History and Culture of the Old Northwest

Reading, discussion, and research on various aspects of the development of government, education, social institutions, and economic life in the Old Northwest. Dr. Dunbar. Two semester hours.

POLITICAL SCIENCE

LEO C. STINE WILLIAM V. WEBER

ELSWORTH P. WOODS

230A American National Government

An introductory course dealing with the national government structure, processes and functions. The structure and functions of political parties are touched upon incidentally. Emphasis is placed on the relationships and obligations of citizens to their government. Motion pictures and other visual aids are used in addition to class lecture and discussion. Dr. Weber. Three semester hours.

230B State and Local Government

Detailed attention is given to the structure, functions, and processes of state, county, township, municipal, and school government, with emphasis upon Michigan patterns and practices. The work is supplemented and

enriched by guest speakers, field trips, and visual aids as time, facilities, and group interests dictate. Dr. Stine. Three semester hours.

361 International Organization

This course will consider the structure, functions, and problems of public international organizations, particularly the United Nations and the specialized agencies. It will undertake to set the United Nations system against the broader background of international politics and previous experience in international organization, and to analyze trends and proposals which relate to the problem of developing world governmental institutions. Prerequisite: Political Science 230A, or History 101A and 101B, or equivalent. Dr. Woods. Three semester hours.

Open to Graduates

531 State Government

This course considers the major aspects of state government. Emphasis will be placed upon the role of the states in government, the state legislature, the executive, the courts, the role of citizens, pressure groups, and political parties. Class members will be asked to make individual studies of such important problems as state aid to schools, re-organization of the executive branch and other governmental problems in Michigan. Dr. Stine. Two semester hours.

SOCIOLOGY

PAUL B. HORTON JEROME G. MANIS

NELLIE N. REID

241 Principles of Sociology

A study of man's social nature and of the social world in which he lives. The biological, social, and cultural factors underlying the development of human personality and the various forms and processes of group association are analyzed. Dr. Horton. Three semester hours.

248 Cultural Anthropology

A descriptive and comparative study of the cultures of primitive peoples; their technology, art, social life, and religion. The course includes also a consideration of the origins and functional interrelationships of significant aspects of contemporary culture. Dr. Manis. Three semester hours.

358A Orientation to Field Work

A course in agency observation and study, aiming to orient the student to a specific field work assignment. A minimum of 50 hours of on-the-spot study of the agency's organization, functions, and methods is required. Prerequisite: Principles of Social Case Work 355, and consent of the instructor. Mrs. Reid. Two semester hours.

358B Supervised Field Work

A continuation of Orientation to Field Work 358A, with emphasis on supervised participation in the work of the agency. Each student is required to complete 100 hours of field work on specific assignments. The student's work is evaluated jointly by the agency supervisor and the instructor. Prerequisite: Orientation to Field Work 358A, and consent of the instructor. Mrs. Reid. Three semester hours.

Open to Upperclassmen and Graduates

442 Social Pathology and Personal Deviation

A study of the social aspects of personal deviation. Subject-matter would include consideration of the alcoholic, the drug addict, the marginal man, and the sexually maladjusted. Course considers deviate behavior in light of social background, causative factors, and possible therapy. Prerequisite: Principles of Sociology 241, or Social Dynamics of Human Behavior 540, or equivalent. Dr. Manis. Two semester hours.

447 Community Agency Resources

A study of community agencies and resources for those concerned with family and personal problems. Emphasis is placed upon the availability of these resources and their effective use by business and industry, speech therapists, guidance counselors, teachers, etc. Mrs. Reid. Two semester hours.

Open to Graduates

545 The Family

The family in a changing society. The family as the molder of child personality; cooperation of school and home in guiding children; sex guidance and family-life education in the school. Prerequisite: Principles of Sociology 241, or Dynamics of Human Behavior 540, or equivalent. Dr. Horton. Two semester hours.

DIVISION OF TEACHER EDUCATION

James H. Griggs, Director

The Division includes the Departments of Education and Librarianship. The heads of the departments and the departmental counselors will advise students relative to the requirements governing work taken in these departments. Major and minor requirements and special departmental requirements are listed under the individual departments in the *Annual Catalog* and the *Description of Curricula Bulletin.*

MARVIN D. ALCORN
ELIZABETH H. BINDA
ROY C. BRYAN
HOMER L. J. CARTER
CLARA R. CHIARA
RAYMOND C. DEUR
RUTH E. ELLSWORTH
ORIE I. FREDERICK
LOUIS A. GOVATOS
L. THOMAS HOPKINS
WENDELL J. HUNT
GEORGE E. KOHRMAN
GEORGE G. MALLINSON
ARTHUR J. MANSKE
L. MORRIS MCCLURE
ESTHER D. SCHROEDER
AVIS L. SEBALY
CARL B. SNOW
ALFRED R. THEA

212 Psychology of Reading

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 materials and methods of teaching. Prerequisite: as many honor points as hours of credit. Mrs. Binda and Dr. Ellsworth. Three semester hours.

251 Human Growth and Development

Class will meet four periods a week. Course deals with physical, social, emotional, and intellectual growth and development of children and adolescents. Prerequisite: as many honor points as hours of credit. Mr. Deur and Dr. Sebaly. Three semester hours.

351 Introduction to Directed Teaching

The course is designed to prepare students for successful student teaching. Prerequisite: Human Growth and Development 251 or equivalent and as many honor points as hours of credit. Miss Schroeder. Three semester hours.

370C General Educational Problems

Course content includes such matters as social, political, and economic influences on education; historical and philosophical backgrounds of present-day education; changes and trends in education; and current problems in education. Dr. Hunt. Three semester hours.

378 Problems of Teaching in Elementary and Secondary Schools

Consideration will be given to problems which teachers face in the classroom, school, and community. The major topics studied and discussed in the course include: working with other teachers, supervisors, administrators, homes and community; guiding pupils and providing for their interests and needs; teaching procedures and aids to instruction; sponsoring special activities; adapting curriculum to present-day needs; and evaluation of the outcomes of instruction. Miss Schroeder. Three semester hours.

Open to Upperclassmen and Graduates

410 Parent Education

Places major emphasis on home problems which have educational implications for the child. Parent-teacher relationships, council programs, and cooperative efforts for improvement of education in home and in school are studied. Mrs. Binda. Two semester hours.

411A The Elementary Curriculum

A consideration of content and procedures to adapt experiences of pupils in elementary schools to modern conditions and to child needs and interests. Individual or committee reports concerning the improvement of various aspects of the elementary school curriculum will be prepared. Dr. Hopkins. Two semester hours.

430 Educational Therapy in Reading

A study is made of the psychological, sociological and physiological factors affecting children's reading ability, together with laboratory application of such knowledge in the prevention, diagnosis, and treatment of reading problems. Open only to experienced teachers by permission of the instructor. Mr. Carter. Two semester hours.

431 Education of Exceptional Children

Deals with the problems and methods involved in the adjustment and training of exceptional children in the schools—the mentally retarded, the gifted, the crippled, the deaf, the blind, the emotionally unstable, and the delinquent. Mr. Thea. Two semester hours.

433 Introduction to Lip Reading

A course designed to acquaint the student with the various methods of lip reading and the problems encountered in the teaching of this skill. The student is given opportunity to acquire elementary lip-reading skill as well as practice in the techniques of teaching. Mr. Thea. Two semester hours.

436 Mental Hygiene of Childhood and Adolescence

Deals with the problems of emotional adjustment and maladjustment in childhood and adolescence. Dr. Govatos. Two semester hours.

438 Audio-Visual Education

Acquaints teachers and administrators with the principles and practical uses of multi-sensory aids to education, including field trips, machines, and creative materials. Mr. Snow. Two semester hours.

480 Introduction to Guidance Services

A basic introductory course for all secondary and elementary teachers, including a survey of the history, principles, problems, methods, organization and methods of guidance. Special attention is centered on the individual, his needs and adjustments, and on counselling procedures. Dr. Manske. Two semester hours.

481 Techniques of Guidance

This course is designed to give competencies in the use of school records, instruments of measurement, case studies, interview, group guidance, placement, follow-up and community resources. Dr. Manske. Two semester hours.

482 Occupational Information for Counselors and Teachers

Stresses knowledge of sources, use, evaluation and techniques of imparting occupational information. Recent trends in the major occupations are also discussed. Dr. Kohrman. Two semester hours.

Open to Graduates

501 Educational Research

Acquaints students with the nature and methods of research, with special emphasis upon the practical application of research findings to the solution of educational problems. Dr. Mallinson. Two semester hours.

502 The School Curriculum

A study of educational programs for children and youth, emphasizing principles and problems of curriculum development common to all levels of instruction. Dr. Hopkins. Two semester hours.

503 Foundations of American Education

A study of American education as affected by the great traditions and movements of Western culture. Consideration is given to historical, socio-economic and philosophical factors in the interpretation of modern educational issues and the solution of present-day educational problems. Dr. Chiara and Dr. Sebaly. Two semester hours.

504 Educational Psychology

A study of the forces which motivate behavior and affect the learning process, with particular reference to problems of growth and adjustment, to the development of meanings and insights, and to individual differences. Provisions are made to meet the needs of students with varying backgrounds in psychology. Dr. Govatos and Dr. Hunt. Two semester hours.

512 Guiding Child Development in the Elementary School

This course is designed to help nursery school, kindergarten and elementary school teachers gain an understanding of the manner in which skills, information, attitudes and behavior patterns are acquired and modified. The contributions made by each curricula area, such as language, arts, science, arithmetic, social studies and health are stressed, with emphasis on suitability of experiences for different stages of growth, instructional practices, and appropriate procedures of evaluation. Dr. Ellsworth. Two semester hours.

514 Elementary School Administration

Deals with general and specific problems confronting the elementary school principal, such as: organization of the school program, parent and community relationships, personnel problems, discipline, evaluation, and the like. Open to students of maturity and experience who wish to fit themselves for administrative and supervisory positions. Dr. McClure. Two semester hours.

521 The Secondary School Curriculum

This course is concerned with modern practices and recent emphases and trends in various subject fields and areas of the secondary school curriculum. Each graduate student will prepare a report on one or two subject fields or aspects of the curriculum for use in actual teaching situations. Prerequisite: 502 The School Curriculum, or equivalent. Dr. Frederick. Two semester hours.

523 The Role of the Secondary School in American Society

Consideration of the past and present responsibilities of the high school as part of the American social scene. Preparation for vocation, citizenship, marriage and family life, and other problems of high school youth are discussed in relationship to major social trends and forces. Dr. Chiara. Two semester hours.

524 Administration of Secondary Schools

Designed for superintendents, principals, and experienced teachers interested in administrative matters. Makes detailed study of the general problems of organization, supervision, and management of the high school. Dr. Bryan. Two semester hours.

560 Principles of Educational Administration

Deals with the philosophy and principles underlying school administration, including areas of governmental control, school plant, finance, personnel, and the internal organization of school systems. Presupposes a rudimentary knowledge of administration and some practical field experience. Dr. Alcorn. Two semester hours.

561 Social Interpretation

Deals with community education with respect to the educational program. Considers the principles of education interpretative service and their application in every phase of the system, considering specifically the constructive method of continuous community education. Dr. Alcorn. Two semester hours.

600 Thesis in Education (Optional)

Candidates for the Master of Arts degree may elect to write a thesis in a specialized field of education, under the supervision of one or more faculty advisers. Staff members. Six semester hours.

601 Special Individual Studies

Opportunity is provided for advanced graduate students to pursue individual studies or carry out individual projects in education under the guidance of one or more faculty members. A substantial paper or report of the project is required of all students. Staff members. Two or three semester hours.

DIRECTED TEACHING

The Campus Elementary School is open in the summer session from 8:30 A.M. to 12:00. Certain high school classes will be held in Central High School, Kalamazoo, during the morning hours. Courses in directed teaching are offered in both elementary and secondary work for a period of six weeks.

Directed teaching assignments are reserved for students who have not been in residence during the regular term, and for those who are completing the work for a certificate. Since the number of such opportunities is limited, application should be made to the Director of Teacher Education well in advance of the summer session enrollment day.

Pupil enrollment is by application. Children of students attending the summer session are among those accepted, but reservations must be made in advance. The work is designed to furnish profitable experience for the children and to provide opportunity for making up of grades or subjects by those who have failed promotion.

Assignments to directed teaching in definite grades and subjects are mailed to students not later than June 15. All who enroll for directed teaching must reserve the hours from 8:00 A.M. to 12:00 daily. In addition, critic meetings with room supervisors are held Mondays, Tuesdays, Thursdays, and Fridays at 7:30 A.M. and such other times as the supervisors may designate.

Students may not enroll for more than 3 semester hours of directed teaching in the summer session.

372 Directed Teaching

Open to those who have previously fulfilled a part of their requirements in directed teaching. Students should enroll at the Teacher Education Office well in advance of the semester or summer session in which the Directed Teaching is to be done. Prerequisite: as many honor points as

semester hours acquired. Dr. McClure, Dr. Bryan and supervisors. Two or three semester hours.

Open to Graduates

570 Directed Teaching

Open to graduate students who have completed the major portion of professional courses required for certification. Dr. McClure, Dr. Bryan and supervisors. Two or three semester hours.

LIBRARIANSHIP

HAZEL BROWN
MATE GRAYE HUNT
FLORENCE VAN HOESEN
GERTRUDE VAN ZEE

202 Reading Interests of Children

In association with children, the class will read and evaluate a wide range of books on varying reading levels as a basis for consideration of present-day children's interests in the light of the development of children's reading. There will be opportunity to examine, evaluate, and use printed aids for the selection of books for children. Miss Hunt. Three semester hours.

360 Organization of Library Materials.

Methods of organizing various types of materials such as books, periodicals, pamphlets, and audio-visual aids for effective use in relation to the demands of schools and of the community. Emphasis is placed upon practical methods of keeping essential business records, book buying, processing and distributing books with a minimum of routine in schools and in small public libraries. Dr. Van Hoesen. Two semester hours.

362 The Library in the Modern Community

The course aims to give the student professional background and opportunity to broaden his own reading program. Surveys the development of libraries in the United States from the Colonial period to the present day with consideration of various types of libraries in relation to their contribution to society. Attention is given the adult education program, county and regional library service, and the services rendered through national, state, and local library agencies. (Not to be offered after 1953-1954.) Miss Brown. Two semester hours.

380 Field Assignment

An assignment in one of the selected cooperating public libraries will be made, usually for a period of three weeks preceding the opening of college or between semesters. The student is given opportunity to observe methods of administration and to participate in all types of activities. A laboratory period for discussion is held throughout the following semester. Miss Hunt. Two or three semester hours.

Open to Upperclassmen and Graduates

402 Reading Interests of Young Adults

Study of the fields of literature suited to the interests of young people. Students are given opportunity through wide reading to develop principles and standards for the selection of the book collection. Includes an introduction to methods of stimulating broader reading interests and of conducting group book discussions with young people. Open to students in the Education Department and to others who expect to work with youth. Prerequisite 302A, B; or 302 or equivalent. Miss Brown. Two semester hours.

403 Selection of Reading Materials

Principles of selection and evaluation of books and non-book materials. Appraisal of printed aids, book reviewing media, and other sources of information used in building the library collection. Opportunity given for developing competence in writing annotations and book reviews and in extending the use of books through book talks and book discussions. Miss Van Zee. Two semester hours.

405 Curriculum Enrichment Materials

Study of selection of teaching materials, books, pamphlets, periodicals, maps and audio-visual materials in relation to the elementary and secondary school curriculum. Emphasis laid on evaluation of content and on methods of distribution in relation to the school organization. Considers sources of selection for various types of materials. Discussion and practice in methods of instruction in use of such materials. Open to students in Education Department and teachers in service. Miss Brown. Two semester hours.

411 Reference Service

Study and evaluation of basic reference and bibliographic sources in the various subject fields. Critical examination of the publications of governmental agencies, societies and institutions especially as reference sources in relation to the curriculum. Attention given to organization and methods of reference services. (Not open to those students who have had 311 Reference Service.) Dr. Van Hoesen. Two semester hours.

Open to Graduates

509 History of Books and Printing

Study of the development of the book from the earliest period to modern times. Considers the appraisal of the physical book as well as its relationship to social and cultural developments. Includes history of the alphabet, early writing materials, manuscripts, invention and spread of printing and evolution of book production. Miss Hunt. Two semester hours.

511 Subject Bibliography

A study and evaluation of the bibliographical sources in the social sciences, the pure and applied sciences, and the humanities. A bibliography will be

compiled on a topic chosen by the student. Prerequisite: an introductory course in Reference, 302A, B, 311 or 411. Dr. Van Hoesen. Two semester hours.

570 Advanced Cataloging Materials and Classification

A continuation of 470 Introduction to Classification and Cataloging. Attention is given to comparison of classification systems; to cataloging of special types of materials and to methods of organizing centralized cataloging units. Miss Van Zee. Two semester hours.

DIVISION OF VOCATIONAL AND PRACTICAL ARTS EDUCATION

George E. Kohrman, Director

The Division includes the Departments of Business Studies, Home Economics, Industrial Art, and Vocational-Industrial and Technical Education.

The heads of the departments and the departmental counselors will advise students relative to requirements for majors or minors in these departments and concerning any special requirements set up by the departments. In certain cases, where a group major or minor is possible and advisable the Director of the Division should be consulted. Major and minor requirements and special departmental requirements are listed under the individual departments in the *Annual Catalog*.

Open to Upperclassmen and Graduates

470 Principles of Practical Arts and Vocational Education

The place and function of the practical arts and vocational education in the modern school; fundamental principles upon which this work is based. For teachers of agriculture, business, home economics, industrial subjects, and administrators. Dr. Giachino. Two semester hours.

Open to Graduates

512 Seminar in Vocational Education

This course is planned especially for teachers, coordinators, and administrators working toward a master's degree in vocational education. Mr. Trimpe. Two semester hours.

BUSINESS STUDIES

WILLIAM L. BURDICK
GEORGE K. COOPER
GEORGE A. KIRBY
LESTER R. LINDQUIST
THOMAS W. NULL

100 Coordinated Business Experience

Limited to second-semester students enrolled in Retailing Curriculum. The requirement for credit will be (1) a minimum of 200 clock hours of approved store work, (2) a report from the employer, and (3) a term report by the student. Mr. Null. Two semester hours.

100A Shorthand

A study of the theory and principles of Gregg shorthand. Typewriting 101A or its equivalent is a requirement for course credit. Mr. Lindquist. Three semester hours.

101A Elementary Typewriting

The mastery of the keyboard and the proper techniques of typewriting are developed in this course. Open to students with less than one year of high school typewriting credit. Mr. Null. Two semester hours.

200A Coordinated Business Experience

Limited to second-year students who are currently enrolled in Store Organization 251. Credit will be granted upon completion of (1) a minimum of 200 clock hours of approved store work, (2) a report from the employer, and (3) a term paper by the student. Mr. Null. Two semester hours.

210A Accounting

This course deals with the elementary principles of accounting and considers the more common technical devices for recording business transactions according to those principles. Prerequisite: Sophomore standing or consent of instructor. Mr. Kirby. Three semester hours.

230A Office Machines

This course provides the student with the operating knowledge of office machines that are commonly used in the modern business office. Mr. Null. Two semester hours.

230B Office Machines

A continuation of Office Machines 230A. This course is intended primarily for the student preparing for the various office occupations. Mr. Null. Two semester hours.

232 Business Correspondence

Provision is made in this course for an analysis of and practice in writing various types of business letters and reports. A study is made of the principles of effective expression in all letters of business correspondence. Mr. Lindquist. Three semester hours.

235 Business Statistics

An introduction to basic applied business statistics. A study of various statistical and financial ratios as guides to efficient business management and the interpretation of financial data. Prerequisite: Accounting 210A. Mr. Burdick. Three semester hours.

322 Business Insurance

A study of risks taken in the business enterprise. How insurance, both voluntary and compulsory, can be used to meet some of these risks. The course deals mainly with property casualty and related insurance areas. Mr. Burdick. Three semester hours.

Open to Upperclassmen and Graduates

412 Income Tax Accounting

Study of federal income tax laws, as they apply to individuals, partnerships in corporations, including excess profits tax. Prerequisite: Accounting 310A, or consent of instructor. Mr. Burdick. Three semester hours.

433 Business Report Writing

A study of the techniques in and applications of management reports and management-report writing. Actual management reports in the various fields will be studied. The development and practice of technical report writing will be stressed. Mr. Lindquist. Two semester hours.

439 Office Management

Areas of office services from the managerial viewpoint. A brief overview of the problems of organizing, constructing, installing, and maintaining office systems. Mr. Cooper. Three semester hours.

Open to Graduates

501 Principles of Business Education

Principles and philosophies of business education and their implications for the classroom teacher of business subjects. A study of objectives, guidance, occupational research, extra-curricular activities, growth and status of business education in the United States. Mr. Cooper. Two semester hours.

DISTRIBUTIVE EDUCATION

WENDELL B. FIDLER ADRIAN TRIMPE

Open to Upperclassmen and Graduates

400A Store Laboratory Experience

This course provides further opportunity for those in distributive education to acquire recent coordinated work experience on a full-time basis. It requires the cooperation of an employer who will agree to give the student paid employment. Provision will be made for securing experience in different departments. Conferences will be held and the student will be required to make written reports and submit a term report based on his store experience. This course may be taken on or off campus on an individual basis. Mr. Trimpe. Two semester hours.

400B Store Laboratory Experience

A continuation of 400A. Mr. Fidler. Two semester hours.

425 Instructional Materials in Distributive Education

A study of the sources and use of such instructional materials as visual aids, field trips, trade publications, pamphlets, books, speakers, display materials, dummy merchandise, demonstrations and exhibits. Mr. Fidler. Two semester hours.

HOME ECONOMICS

LILYAN K. GALBRAITH BETTY TAYLOR
REVA VOLLE

120 Personal and Social Problems

The course is planned for those who do not intend to teach home economics. Social usage, personal health and grooming, choice and care of clothing, and personality development are considered. Emphasis is placed upon the above on the basis of needs and interests. Miss Volle. One semester hour.

203 Clothing

This course is planned to give experience in using commercial patterns and learning elementary construction techniques. Elective non-majors. Miss Volle. Two semester hours.

222 Everyday Nutrition

This course includes problems related to signs of good and poor nutrition, diets for growing children, school lunches to promote good health and growth, and methods and materials in teaching good food habits. This course is open to sophomores, juniors, and seniors not in the department of Home Economics. Miss Taylor. Two semester hours.

325 Marriage and Family Relationships

This course is a study of the contributions and problems of the family in modern society. It includes a consideration of marital and personality adjustments in family living. It places emphasis on preparation for marriage and gives a perspective of the new tasks in urban and rural living as they affect social relationships and legal problems. Prerequisite: General Psychology 200 or Principles of Sociology 241. Open to both men and women. Dr. Galbraith. Two semester hours.

Open to Upperclassmen and Graduates

400 Teaching of Family Living in Elementary Schools

This course is designed to help elementary teachers vitalize their offerings, and home economics teachers better understand the elementary program in family living. Dr. Galbraith. Two semester hours.

423 Institutional Management

Study of institutional administration, job analysis, labor policies, personnel problems, and cost control in different types of food-service institutions. Prerequisite: Home Economics 311, 312, Accounting 210A. Miss Taylor. Three semester hours.

Open to Graduates

504 Advanced Clothing Techniques

This course is planned to meet the needs of the advanced student in clothing-construction techniques. Prerequisites: Clothing 205, 305, and the consent of the instructor. Miss Volle. Two semester hours.

INDUSTRIAL ARTS

JOHN L. FEIRER
FRED S. HUFF
JOHN H. PLOUGH
NEIL L. SCHOENHALS

104 Rural Practical Arts

A special course in woodwork and in related areas designed particularly for prospective rural school teachers. This course is limited to students enrolled in the Rural Education Department. Mr. Plough. Two semester hours.

120 Drawing

A survey course in the field of general drafting. The student will have an opportunity to explore all types of drawing, including machine, free hand, architectural, and others. Mr. Huff. Two semester hours.

221 Mechanical Drawing

Special attention is given to orthographic projection, detailing assemblies, and other fundamentals of drafting. This course is the equivalent of Drawing I of the School of Engineering, University of Michigan, and satisfies the requirements of engineering students. Mr. Huff. Three semester hours.

225A Architectural Drawing

Architectural details, plans, elevations, rendering, tracing, and blueprinting, and estimating of simple one- and two-story buildings. Outside reading for architectural appreciation. Mr. Huff. Two semester hours.

226 Mechanical Drawing

A continuation of principles emphasized in Drawing 120. Basic elements of machine design are studied together with project drawing and illustration. Emphasis is placed on modern drafting room practice including reproduction of tracings and intermediates. Prerequisite: Drawing 120 or equivalent. Mr. Huff. Three semester hours.

305A Machine Woodwork

An introductory course on the use of machine woodworking equipment. The student will receive experiences in setting-up, operating, and caring for the more commonly used machines such as circular saw, jointer, shaper, planer, etc. Parts for selected projects will be machined. Prerequisite: 100. Mr. Schoenhals. Three semester hours.

Open to Upperclassmen and Graduates

405 Problems in Woodworking

Advanced laboratory experiences in some of the more common areas of woodworking such as patternmaking, carpentry, upholstery, caning, and finishing. Content selection, project building and new techniques will be covered. Mr. Schoenhals. Two semester hours.

407 Furniture Construction

A course covering the design and construction of fine furniture. Each student will be required to design and carry to completion a finished piece of furniture. Mr. Schoenhals. Three semester hours.

420 Advanced Drafting Practices

Advanced laboratory experiences in the fields of mechanical, architectural and machine drawing in conjunction with a study of current technical literature in these areas. Written reports will be required. Advanced instruction in engineering drawing and descriptive geometry will also be available. Course content will be adapted to individual needs. Mr. Huff. Two semester hours.

464 Industrial Arts for the Elementary School

Deals with the problems of organizing and teaching Industrial Arts for the elementary grades. Course materials, techniques, and materials in the industrial and craft areas will be stressed. Mr. Plough. Two semester hours.

Open to Graduates

551 Trends in Industrial Education

Major emphasis will be on current literature in the field. Significant research studies will be reviewed. State, local, commercial and industrial publications will be studied to determine their place in the school shop program. Dr. Feirer. Two semester hours.

553 Project Planning and Designing

A study of the principles of design and their application to shop projects. Special attention will be given to planning and designing new projects that will enrich the school shop program. Dr. Feirer. Two semester hours.

580 Special Problems in Industrial Arts

This course provides for the study and organization of a specific teaching problem in industrial arts. Each member of the class selects a suitable problem, develops material for it, and organizes it for instructional use. Dr. Feirer. Two semester hours.

VOCATIONAL-INDUSTRIAL AND TECHNICAL EDUCATION

JOSEPH W. GIACHINO ANDREW C. LUFF
DONALD W. NANTZ

Open to Upperclassmen and Graduates

400 Problems in Metalworking

Practical laboratory experiences in forging, foundry, heat treating, machine shop, and arc and acetylene welding. Course will emphasize methods of selecting and developing course materials for junior and senior high school students. Course content will be adapted to meet the needs of individual students. Mr. Nantz. Two semester hours.

410 Problems in Electricity

Special problems in the technical and social phases of electricity which arise in the planning of courses, shops, and equipment for instruction in this field. Mr. Luff. Two semester hours.

474 Testing and Grading in Industrial Education

A study of the technique for preparing and using correctly written and practical tests. Attention will be given to interpretation of test results and grading student achievement. Dr. Giachino. Two semester hours.

478 Exploring Industry

This course is designed primarily for elementary and secondary school teachers who wish to acquire a better understanding of the various types of industries and their relationship to our social structure. The study of industrial organization including management, labor, consumer products, and distribution of goods will be through numerous visitations and discussions with industrial representatives and other resource personnel. Mr. Luff. Two semester hours.

Open to Graduates

500 Research in Machine Shop Practice

A course designed for teachers who wish to carry out advanced techniques in the area of machine shop. Students will have freedom of choice in selecting a problem that they wish to develop.* Mr. Nantz. Two semester hours.

582 Special Problems in Vocational Education

This course provides for the study and organization of specific teaching problems in vocational education. Each member of the class selects a suitable problem, develops material for it, and organizes it for instructional use. Dr. Giachino. Two semester hours.

*Offered June 21 through July 2.

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