

MICHIGAN STATE NORMAL COLLEGE

BULLETIN

Vol. XXXIX

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Number 1

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USUALSIX-WEEK SUMMER SESSION

JUNE 20 - JULY 29

NINE-WEEK SUMMER SESSION

JUNE 20 - AUGUST 19

1949



MICHIGAN STATE NORMAL COLLEGE

YPSILANTI, MICHIGAN



SUMMER SCHOOL CALENDAR

- June 20 Monday, registration
- June 21 Tuesday, recitations begin
- June 28 Tuesday, All-College Acquaintance Tea
- July 14 Thursday, Rural Education Conference
- July 25 Monday, Convocation to honor Summer School Graduates
- July 29 Friday, Final Examinations, Six-Week Session
- July 29 Friday, Six-Week Session closes
- August 19 Friday, Final Examinations, Nine-Week Session
- August 19, Friday, Nine-Week Session closes

A bulletin giving complete information regarding concerts, excursions, and other College activities will be available to students at time of classification.

SPECIAL PROGRAM

of the

AMERICAN FOUNDATION FOR THE BLIND

Special courses in work with the blind will be offered in cooperation with the University of Michigan, the Michigan State Normal College, and the American Foundation for the Blind.

Subjects will include: Causes of blindness, history and philosophy of work with the blind, educational psychology with special reference to adult blind, social case work skills and devices for the blind, arts and crafts, and a workshop in advanced braille.

Detailed announcement on request from Miss Evelyn C. McKay, American Foundation for the Blind, 15 West 16th Street, New York 11, New York.

Notice

If you do not find your needs served by the offerings listed in this Bulletin, kindly write us early stating exactly what courses you do need. It is the aim of Michigan State Normal College to meet all demands possible in the Summer Sessions.

Michigan State Normal College

YPSILANTI

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Clara Kelly, A.M., Home Economics
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Assistant Professors

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Helen B. Adams, M.Ed., Special Education
Mildred J. Brannon, A.M., Mathematics
Duane Chamberlain, A.M., Industrial Arts
Paul V. Clark, M.S., Chemistry
Grace Cooper, A.M., English

Florence Davis, A.M., Supervising Teacher, Elementary
 Hazel Davis, A.M., Supervising Teacher, Elementary
 Anne Dubbe, A.M., Supervising Teacher, Elementary
 Florence Eddy, A.M., Supervising Teacher, Elementary
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 Richard A. Giles, M.S., Natural Science
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 Earl K. Studt, M.S., Supervising Teacher, Elementary
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 Genevieve Syverson, A.M. Supervising Teacher, Kindergarten
 Chloe M. Todd, A.M., Physical Education
 Merry M. Wallace, A.M., Special Education
 Theodore Weaver, A.M., Mathematics
 Doyne Wolfe, A.M., Foreign Languages
 Sara E. Wright, A.M., Special Education

Instructors

Catherine A. Ackerman, A.M., English
 Normajean I. Anderson, A.M., Business Education
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 Donald Currie, A.B., Education
 Stanley A. Glow, A.M., Industrial Arts
 Elwyn L. Martin, M.S., Geography
 Edith E. Nagel, A.B., Foreign Languages
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 Harold S. Vartanian, B.S., Chemistry
 Wilbur A. Williams, A.M., Education

Visiting Instructors

Carl M. Badgley, M.D., Head of Bone and Joint Surgery,
 University of Michigan Hospital, Ann Arbor
 J. P. Brawner, Ph.D., Professor of English, West Virginia
 University
 Ruth Bierlein, A.B., Hazel Park Public Schools
 Margaret Collings, A.M., formerly instructor in the Speech
 and Hearing Clinic, Western Reserve University
 N. Maurine Gitzus, A.M., Head of the Department for the
 Deaf-Blind, Perkins Institution and Massachusetts
 School for the Blind
 Mary Jameson, A.M., Supervising Teacher for Wayne
 County
 Edna A. Maisner, M.Sc., Clinical Psychologist, Wayne
 County Training School
 Elma Major, A.M., Allentown Public Schools, Allentown,
 Pa.
 Audrey Simmons, A.M., Instructor of the Deaf, Central
 Institute for the Deaf, St. Louis
 Ruth J. Watson, A.M., Teacher of the Deaf, Michigan
 School for the Deaf
 Suzanne Zubler, B.S., Industrial Arts Instructor, South
 Intermediate School, Saginaw

General Information

The summer session provides opportunity for teachers in all types of public school work. Teachers in the early elementary and later elementary grades, junior high school teachers and teachers of rural schools will find courses specially adapted to their needs.

PROGRAMS

The usual Six-Week Summer Session, June 20-July 29 offers

1. Courses on all curricula leading to degrees and certificates.
2. Special offerings for teachers of the several types of handicapped children, in the Horace H. Rackham School of Special Education.
3. A special course on the Education of Deaf-Blind Children will be sponsored by the Perkins Institute for the Blind and the American Foundation for the Blind. A demonstration class of three deaf-blind children will be provided as part of the training program.
4. A special course on the Education and Treatment of the Cerebral-Palsied Child will be offered in cooperation with the Michigan Society for Crippled Children:
 - (1) Regular six-week session.
 - (2) Three-week session—June 27-July 15.
5. Graduate Courses conducted under the auspices of the University of Michigan.
6. For rural school teachers and other students who can be in summer school for only three weeks, the College is offering the course Rural School Curricular Problems. The course carries three semester hours credit and will be offered twice during the summer session—once during the first three weeks, June 20 to July 8; and again for the second three weeks, July 11-29. Students will devote their full time to the one course and will work on problems of special interest to them in their own work. Miss Mary Jameson, Supervising Teacher for Wayne County, a recognized leader in this work, will teach the course. Teachers expecting to enroll for this course should write for reservations, either for the first session, or for the second session. Reservations will be made in the order received until the class limit of thirty is reached.

A Nine-Week Session, June 20-August 19 offers

1. An opportunity to earn a maximum of 10 semester hours of credit and makes possible:
 - (a) To earn a Bachelor's Degree with Provisional Certificate in Three Years and Three Summers
 - (b) To obtain consideration for a permit to teach in Rural Schools on completion of fifty semester hours (two summers and one year) and thus help meet the shortage of teachers.

A State Limited Certificate may be obtained on completion of 10 additional hours.

CONDITIONS OF ENTRANCE

Summer school students are held to the same requirements for entrance that apply to other sessions of the year.

Students who expect to enter should see that their high school credits are sent to the college before the summer session opens. The college has sent blanks to each high school in the state for this purpose. If the high school is out of the blanks, they may be obtained by writing the Registrar of the College. The blank should be filled out and signed by the principal or superintendent of the high school.

ENROLLMENT PROCEDURE

Enrollment for the Summer Session will take place in the gymnasiums on Monday, June 20, beginning at 8:00 a. m. Students will be admitted by ticket. The ticket of admission may be obtained by mail or in person as follows:

1. **By Mail**—The ticket will be mailed to each person who has been previously enrolled in the college or who has had his credentials submitted and approved, provided (a) he shall have made a written request before June 10 (not thereafter) and (b) shall have supplied with his request a self-addressed stamped envelope.

2. **In Person**—In Welch Hall Auditorium, Monday morning, June 20, beginning at 7:45 o'clock, tickets will be issued to all not already supplied by mail, including students formerly enrolled and others whose credentials entitle them to admission.

Graduation

A candidate for graduation at the close of the summer session must make application for graduation not later than June 27, 1949. No student will be graduated on any curriculum whose scholarship index based on the work of that curriculum is less than 1.00.

Standard Student Load

During the six-week summer session the standard student load shall be five hours; not more than six nor less than four may be taken without special permission. During the nine-week session the maximum load shall be ten hours. In computing the standard load required courses in physical training and handwriting are not included.

Irregular Program

No student may enroll for more than the standard load, or for less, without the approval of the Committee on Irregular Program. No credit will be given for work in excess of the amount so approved. Petition for an irregular program must be made in writing and in advance. Blanks for this purpose may be obtained in the office of the Dean of Administration.

Students Employed Part Time

A student planning to carry work, for remuneration or otherwise, in addition to the school program, must have such arrangement approved by the Committee on Irregular Program before classifying.

Policy Governing Irregular Program

1. No student adjudged physically unfit will be permitted to carry an increased load.

2. No student who has earned less than fifteen semester hours of credit in residence at this institution is eligible to carry more than the standard load.

3. No freshman is permitted to carry more than the standard load.

4. No student whose cumulative scholarship index is less than 1.50 will be eligible to carry more than the standard load. The index for the semester immediately preceding must be at least 2.00.

5. A student who in addition to his school program is employed part time will be required to carry a reduced load in case it is clear that the student's health or the quality of his work demands it.

Dropping Subjects

A student should not classify for full work and expect to drop subjects later to avoid failure. A student, after his program has been approved, is not permitted to drop a subject or to take up an additional subject without the approval of the Chairman of the Committee on Classification.

TUITION AND OTHER FEES

UNDERGRADUATE:

Students will pay according to load carried in credit hours:

	Michigan Residents	Non-Residents
One, two or three semester hours	\$17.00	\$22.00
Four, five or six semester hours	24.50	34.50
Seven, eight or nine semester hours	32.00	47.00
Ten (maximum load) semester hours	34.50	52.00

GRADUATE:

For full program of work:

Michigan Residents	\$35.00
Non-Residents	\$90.00

For two-hour program of work:

Michigan Residents	\$20.00
Non-Residents	\$50.00

LATE ENROLLMENT: \$2.00. A late registration fee is charged those students who, for any cause, do not complete registration within the hours and on the day officially set apart for registration. Registration is not complete until the fees are paid.

REFUND OF FEES:

1. No refund will be granted unless applied for within one month after withdrawal.
2. A student who withdraws not more than one week after registration will be entitled to a refund of the entire fee.
3. A student who withdraws more than one week and less than two weeks after the beginning of the session, shall be entitled to a refund of one-half of the fee.
4. A student who withdraws more than two weeks and not later than three weeks after the beginning of the session will be entitled to a refund of 40 percent of the fee.

GRADUATION FEES:

Degree	\$3.00
Provisional Certificate	\$3.00
State Limited Certificate	\$2.00

Residence Halls for Students

All students enrolled at Michigan State Normal College will live in the College Residence Halls unless they are domiciled in their own homes. Each student will provide his own bed linen, blankets, bed cover and towels.

All women students will live in two of our women's Residence Halls. The charge, payable on classification day, includes board and room. Due to the unsettled condition of prices of food and labor, the College reserves the right to revise the rates if it becomes a financial necessity.

	Six Weeks	Nine Weeks
Suite, study and bedroom	\$75.00	\$112.50
Single, study-bedroom (limited number)	84.00	126.00

All men students will live in the John M. Munson or Charles McKenny Residence Halls. The charge, payable on classification day, includes room only.

	Six Weeks	Nine Weeks
Suite, study and bedroom	\$18.00	\$27.00
Single, study-bedroom (limited number) ..	30.00	45.00

A \$6.00 key and damage deposit must accompany the application for room. This deposit is refunded at the end of the Summer Session less any damage to the room or furniture. If a student finds it necessary to cancel his application, this deposit is refunded if notice is received before June 1.

Women will make application through the Office of the Dean of Women; men through the Office of the Dean of Men.

Employment for Men and Women

Employment for students is handled through the office of the Dean of Men and of the Dean of Women.

Social Life

Short after-dinner dances are held once a week in Charles McKenny Hall. Other social events are listed elsewhere.

Health Service

The Health Service of the College is located at Perrin Street. The clinic is open for consultation and treatment from 9-12 and 2-5 daily.

APPLIED MUSIC

Private lessons may be had at the conservatory. All lessons are in thirty-minute periods and are given either once or twice a week.

Singing

Mr. Robert O. Hoffelt \$12.00

Piano, Violin, Wind Instruments

Mrs. Esther Whan \$9.00
 Mr. Maurice W. Riley \$9.00
 Mr. William D. Fitch \$9.00

Enrollment and fees for private lessons should be arranged for in the Conservatory Office, Pease Auditorium.

The above rates are for one lesson per week, for six weeks.

All fees are paid in advance.

Graduate Courses

Offered in Cooperation with the University of Michigan

Graduate Enrollment

A student who wishes to take graduate work at the Michigan State Normal College must first be admitted to the Graduate School, University of Michigan. An application form may be obtained by writing to the Chairman of the Graduate Advisory Committee, Michigan State Normal College, or the Horace H. Rackham School of Graduate Studies, Ann Arbor. Such application should be made by May 1, and no one will be admitted to graduate study who has not been passed on by the School of Graduate Studies, Ann Arbor.

Education

B105a-MS, B105b-MS The Construction of the Elementary-School Curriculum. 2 or 4 sem hr

The course is designed to acquaint students with theories, techniques, and practices utilized in curriculum building. It deals mainly with existing literature on the subject, although some of the best courses of study will be examined and some practice will be given to the techniques of curriculum building.

9-10 MTWTF Pierce 327 GARRISON

B151-MS Administration and Supervision of Elementary Schools. 2 sem hr

Deals with the general managerial problems of the elementary school. It is open to students of maturity and experience who wish to fit themselves for principalships or supervisorships in grades one to eight.

1-2 MTWTF Pierce 329 KELDER

C107a-MS Psychology of the Elementary School Subjects. 2 sem hr

This is an advanced course in principles of teaching, dealing with current and improved practices in the teaching of reading, language, writing, and spelling. It will involve a study of the basic principles of learning and teaching, survey of experimental studies, and their implications in the teaching of these subjects. Lectures, reports, problems, and class discussion.

10-11 MTWTF Roosevelt HS 315 HESTER

Special Education

C120-MS Mental Hygiene of Adolescence. 2 sem hr

A basic course in the mental hygiene of late childhood and adolescence with emphasis upon children who present behavior problems. A cognate course.

11-12 MTWTF Rackham 203 MAISNER

C130-MS Education of Exceptional Children. 2 sem hr

The problems and methods involved in the adjustment and training of exceptional children in the schools, i. e., the mentally retarded, the gifted, the crippled, the deaf, the blind, the emotionally unstable, and the delinquent.

9-10 MTWTF Rackham 203 LORD

C230-MS Education and Social Control of Mentally Retarded Children. 2 sem hr

This course deals with the problems of providing education and social supervision for mentally handicapped children.

Stress is placed upon an analysis of the needs of the child, the problems he presents to the school and society, and the principles of an adequate program of education and care.

2-3 MTWTF Rackham 203 MAISNER

C237-MS Orthopedics for Teachers of Crippled Children. 2 sem hr

This course is intended to give teachers and other workers in the field a comprehensive view of the medical and surgical aspects of orthopedic conditions common among children. It will include lectures by specialists on anatomy, physiology, bacteriology, orthopedic and neurological lesions, malnutrition, cardiology, preventive and reconstructive measures. Material in physical therapy for appreciation but not for professional use will be presented. Clinical observation and field trips to institutions where this type of work is carried on will give the student an insight into its practical application.

3-4 MTWTF Rackham 211 BADGLEY

C240a-MS, C240b-MS Seminar in Special Education. 2 sem hr ea

A course designed for the intensive study of a particular phase of special education or development, on the basis of a psychological analysis of some form of atyp, of a piece of research pertaining to the student's particular interest. Master's theses may be started in this course. A student not planning to begin a thesis will be expected to carry to completion a shorter problem of research.

10-11 MTWTF Rackham 203 LORD

C330a-MS, C330b-MS, C330c-MS Specialized Techniques and Practice in Their Application to the Teaching of Exceptional Children. 2 sem hr ea

This course is designed to give prospective teachers and supervisors in the field of special education instruction and practice in the teaching of children with various types of handicaps. A program of study will be arranged for each student according to his needs for effectively teaching a specific type of handicapped child. Prerequisites: Teacher's Certificate, C1 and C130 Special Education or equivalent.

Hours to be arranged. Rackham 208 LORD

420-MS Introduction to Visible Speech. 1 sem hr

An introduction to the principles of Visible Speech. Study of characteristics of speech sounds and their recognition on the translator. Laboratory experience with the Visible Speech translator.

1-3 TT Rackham 107 RICHARDS

463-MS Education of Deaf-Blind. 2 sem hr

A study of the particular problems of the education of the deaf-blind children, including instructional approaches, teaching materials, and use of special aids. Opportunity will be provided to observe the instruction of a laboratory class of deaf-blind children. Sponsored in cooperation with the Perkins Institution for the Blind and the American Foundation for the Blind.

8-10 MWF Rackham 216 GITZUS

472-MS Advanced Problems in Speech for the Deaf. 2 sem hr

This course includes a survey of theories and methods of teaching speech to the deaf; a study of special problems in speech development and correction at various age-grade

levels, stressing application of physiological phonetics and including discussion of multiple defect or deficiency such as: slow-learning deaf, cerebral-palsied deaf, aphasic; observation of methods of diagnosis and treatment of various special problems. Analysis and evaluation of research studies will lead to formulation and completion of an original research problem.

10-11 MTWTF Rackham 105 SIMMONS

473-MS Education and Treatment of Cerebral-Palsied Children. 2 sem hr

This course provides an interpretation of the cerebral-palsied child. It is primarily a background course for teachers. Major attention is given to the characteristics of the types of cerebral palsy. The problems of education and treatment are reviewed and opportunity is provided for observing children in the classroom and treatment room. Special lectures will be given by members of the staff of the National Society for Crippled Children and Disabled Adults, and instructors at the Michigan State Normal College and the University of Michigan. A demonstration clinic will be conducted by Dr. M. A. Perlstein, consultant on Cerebral Palsy of the National Society for Crippled Children and Disabled Adults.

A schedule of work will be adjusted so that the course may also be elected on a three-week basis, meeting daily (June 27 to July 15) to accommodate persons who wish a concentrated program.

Information regarding the details of the course may be obtained from the Horace H. Rackham School of Special Education, Ypsilanti, Michigan, or the National Society for Crippled Children and Disabled Adults, 11 South LaSalle Street, Chicago 3, Illinois.

1-3 MWF Rackham 201 WRIGHT

491-MS Teaching School Subjects to the Deaf. 2 sem hr

Emphasis is placed upon the principles and techniques for teaching the common school subjects to deaf children. Principles of curriculum building and organization of units of work are presented.

3-4 MTWTF Rackham 105 SIMMONS

SW6 Causes of Blindness and Their Social Implications. 2 sem hr

Anatomy and pathology of the eye, with emphasis on the etiological factors and their effects on the individual. This course is offered by the American Foundation for the Blind as a part of their program for adult workers with the blind. It is open to students of education by special permission of the Director of Special Education.

Hours to be arranged Rackham 102 FRALICK AND STAFF

English

D155-MS The Teaching of Literature in the Elementary School. 2 sem hr

This course is a study of the development of child literature of the English language during the nineteenth and twentieth centuries with special reference to the work of the outstanding editors and educators involved in that development. Readings, reports upon specific authors, and individual problems will be assigned in the prose work under observation.

2-3 MTWTF Pierce 222 BARNES

405-MS Victorian Poetry. 2 sem hr

A study of Tennyson, Browning, the Pre-Raphaelites, and the minor poets of the Victorian period. Prerequisites: four courses in literature.

8-10 MTWF Pierce 208 BRAWNER

Natural Science

D158-MS Materials for Science in the Elementary Grades. 2 sem hr

This course is designed to provide for individual analysis in elementary-science materials in two or three content areas (birds, insects, light, sound, etc.) according to the individual needs and interests of the student. Such analysis includes a thorough study of basic subject matter; a critical study of grade placement of materials as shown in current texts and courses of study; the organization of two or three comprehensive teaching units designed to be functional in each student's current teaching situation. Attention will be given students who have special science problems, such as special education teachers and elementary-science supervisors. Prerequisite: Elementary Science 100, 401 or 402, and D-157, or the equivalents.

11-12 MTWTF H101 CURTIS

CURRICULUM FOR THE MASTER'S DEGREE IN ELEMENTARY EDUCATION

The curriculum in Elementary Education at the Michigan State Normal College is designed to prepare teachers, supervisors, and administrators in both rural and urban school systems for positions of leadership in the elementary field. For the master's degree, the following curriculum is proposed, though upon consultation with his adviser, the student may in certain instances modify this program.

REQUIRED COURSES: 10 Hours

to be selected in consultation with adviser

	Credit
B105a-MS, B105b-MS The Construction of the Elementary-School Curriculum	2 or 4 hrs
C107a-MS, C107b-MS Psychology of the Elementary-School Subjects	2 or 4 hrs
C175-MS Psychology of Child Development	2 hrs
C177-MS Childhood Education	2 hrs
C225a-MS, C225b-MS Seminar in Elementary Education	2 or 4 hrs

ELECTIVE COURSES IN EDUCATION: 6 Hours

	Credit
B151-MS Administration and Supervision of Elementary Schools	2 hrs
B251-MS Supervising Instruction in Elementary Schools	2 hrs
C115-MS Educational Tests and Measurements	2 hrs
C130-MS Education of Exceptional Children	2 hrs
D155-MS The Teaching of Literature in the Elementary School	2 hrs
D157-MS Teaching Elementary-School Science	2 or 3 hrs
D158-MS Methods and Materials for Teaching Science in the Elementary Grades	2 hrs

COGNATE COURSES: 8 Hours

	Credit
English 405-MS Victorian Poetry	2 hrs
English 407-MS Victorian Prose	2 hrs
Geography 125-MS Regions as Geographic Units	2 hrs
Geography 126-MS Local Regional Geography	2 hrs
History 287-MS Studies in the Social Sciences in the United States and Great Britain ..	2 hrs
History 142-MS Europe, 1500-1830	2 hrs
History 143-MS 19th and 20th Century Europe	2 hrs
History 195-MS Problems and Trends in American History	2 hrs
Sociology 226-MS Methods in Sociological Research	2 hrs

In addition to this list of courses, which may be taken either at the Michigan State Normal College or at the University of Michigan, other courses are available at the University of Michigan, and upon approval by a student's adviser, substitutions may be made in the list of elective and cognate courses.

RURAL EDUCATION

The same curriculum as for Elementary Education, except that B189-MS should be listed among required courses.

CURRICULUM FOR THE MASTER'S DEGREE IN SPECIAL EDUCATION

Sequence A is intended for teachers who have undergraduate preparation in special education and who wish advanced training to prepare to become principals or supervisors.

Specialized sequences B, C, D are to be elected by students who have not had undergraduate majors in these fields.

A. SEQUENCE FOR GENERAL DEGREE

Required Courses: 10 Hours

	Credit
C234-MS Advanced Psychology of Special Education	2 hrs
C260-MS Measurement and Diagnosis in Special Education	2 hrs
or	
C130-MS Clinical Study of Exceptional Children	2 hrs
C235-MS Administration and Supervision of Special Education	2 hrs
or	
B151-MS Administration and Supervision of Elementary Schools	2 hrs
C240a-MS, C240b-MS Seminar in Special Education	2 hrs

Elective Courses in Education: 6 Hours

	Credit
B105a-MS, B105b-MS The Construction of the Elementary-School Curriculum	2 or 4 hrs

C107a-MS, C107b-MS Psychology of Elementary-School Subjects	2 hrs
C175-MS Psychology of Child Development	2 hrs
C177-MS Childhood Education	2 hrs
D155-MS Teaching of Literature in Elementary School	2 hrs
D157-MS Teaching Elementary Science	2 or 3 hrs

Cognate Courses: 8 Hours

	Credit
D157-MS Teaching Elementary Science	2 or 3 hrs
405-MS Victorian Poetry	2 hrs
407-MS Victorian Prose	2 hrs
125-MS Regions as Geographical Units	2 hrs
126-MS Local Regional Geography	2 hrs
142-MS Europe, 1500 - 1830	2 hrs
143-MS 19th and 20th Century Europe	2 hrs
195-MS Problems and Trends in American History	2 hrs

For those taking their cognate courses at the University of Michigan, the following are suggested: Public Health Practice 173, 220; Psychology 101, 103, 128, 130, 132, 157, 158; Sociology 159, 180, 191, 196; Speech 171, 172, 175, 176, 178.

B. SEQUENCE FOR TEACHERS OF MENTALLY RETARDED

Required Courses: 16 Hours

	Credit
Sequence A	8 hrs
C330a-MS, C330b-MS C330c-MS Specialized Techniques and Practice in Their Application to the Teaching of Exceptional Children	6 hrs
C230-MS Education and Social Control of the Mentally Deficient Child	2 hrs

Electives in Education: 6 Hours

See suggested electives in Sequence A

Cognate Courses: 8 Hours

Cognate electives should be in Psychology

C. SEQUENCE FOR TEACHERS OF CRIPPLED CHILDREN

Required Courses: 16 Hours

	Credit
Sequence A	10 hrs
C330a-MS, C330b-MS, C330c-MS Specialized Techniques and Practice in Their Application to the Teaching of Exceptional Children	6 hrs

Electives in Education: 6 Hours

See suggested electives in Sequence A

Cognate Courses: 8 Hours

Credit

C237-MS Orthopedics for Teachers of Crippled Children 2 hrs

See suggested electives in Sequence A

D. SEQUENCE FOR TEACHERS OF DEAF AND HARD-OF-HEARING CHILDREN

Required Courses: 16 Hours

Credit

Sequence A 10 hrs

C330a-MS, C330b-MS, C330c-MS Specialized Techniques and Practice in Their Application to the Teaching of Exceptional Children 6 hrs

Electives in Education: 6 Hours

See suggested electives in Sequence A

Cognate Courses: 8 Hours

Electives for this sequence should be in Speech and Speech Correction.

Undergraduate Courses

Unless otherwise indicated, courses run six weeks.

ENGLISH AND SPEECH

107 Introduction to Poetry. 3 sem hr

A study of the form and content of various types of poetry. The primary purpose of the course is to help the student learn to read poetry correctly and appreciatively, and to establish critical standards for determining the quality of a poem. American poetry is used as a basis for the course.

10-12 MTTF Pierce 212 ACKERMAN
Nine weeks 3-5 MWF Pierce 203 COOPER

108 Introduction to Prose. 3 sem hr

A study of the form and content of various types of prose—the short story, the essay, biography, addresses, letters—with a view to helping the student establish critical standards for judging good prose. American prose is used as a basis for the course. Prerequisite: 107 Introduction to Poetry.

8-10 MTTF Pierce 203 MISEREZ
Nine weeks 10-12 MWF Pierce 203 COOPER

122 Rhetoric. 3 sem hr

A study of the forms of discourse with emphasis upon the organization of long papers; the use of the library, note-taking, compilation from sources; the analysis of models with a view to effective use of materials, diction, and style; weekly papers; conferences. Prerequisite: 121 Rhetoric.

3-5 MTTF Pierce 212 ACKERMAN

207 Literature for the Elementary Grades. 3 sem hr

A study of prose, poetry, and illustrated books for the child in the elementary grades; extensive experience under guidance in using library collections; practice in compiling units of reading matter for children; a survey of sources of books for use in schools.

8-10 MTTF Pierce 222 BARNES

209 The Nineteenth Century Novel. 2 sem hr

A study of the work of representative English novelists from Jane Austen to George Meredith. Prerequisite: 108 Introduction to Prose.

1-3 MWF Pierce 208 BRAUNER

210 Shakespeare. 3 sem hr

An intensive study of five of the principal tragedies, with supplementary study of a Shakespeare handbook. Prerequisite: two courses in literature.

1-3 MTTF Pierce 203 MISEREZ
Nine weeks 8-10 MWF Pierce 212 JORDAN

305 Shakespearean Comedy. 2 sem hrs

A study of the principal comedies. Prerequisites: three courses in literature.

3-5 MWF Pierce 201 MADDOX

404 English Literature, 1798-1832. 3 sem hr

The chief writers of the English romantic movement: Wordsworth, Coleridge, Lamb, De Quincey, Hazlitt, Byron, Shelley, Keats. Prerequisites: four courses in literature.

Nine weeks 1-3 MWF Pierce 212 JORDAN

405 Victorian Poetry. 3 sem hr

A study of Tennyson, Browning, the Pre-Raphaelites, and the minor poets of the Victorian period. Prerequisites: four courses in literature.

8-10 MTWF Pierce 208 BRAWNER

408 American Literature. 3 sem hr

A study of the historical development of American literature from the colonial period to the present, with emphasis on the major writers. Prerequisites: four courses in literature.

10-12 MTWF Pierce 201 MADDOX

Speech

102 Interpretative Reading. 3 sem hr

This course is designed to enable the student to develop poise and ease before an audience and a clear, agreeable and forceful voice. It deals with fundamental problems in the oral interpretation of literature and numerous illustrative selections in the study of these problems. Definite platform work in interpretation is begun and selections are prepared for presentation before the class.

3-5 MTWF Pierce 208 SATTLER

121 Fundamentals of Speech. 2 sem hr

This course is designed to give the student adequate command over the fundamentals of speech, particularly in group situations. Emphasis is on expository speaking.

8-10 MWF Pierce 201 KELLY

10-12 MWF Pierce 208 SATTLER

221 Dramatics for Elementary Grades. 3 sem hr

Instruction is given in the nature of dramatic play and its place in childhood. Methods of arranging materials selected from experience, history, civic life, child literature, and other sources are emphasized. Principles of directing the action of children's plays, pageants, and other programs are considered. Special consideration is given to simple and practical scenecraft and stagecraft.

1-3 MTWF Pierce 201 KELLY

FOREIGN LANGUAGE AND LITERATURE

121 Beginning Russian. 4 sem hr

A beginning course in the language. Particular attention is paid to pronunciation and the elementary principles of grammar.

Nine weeks 8-10 MTTF NAGEL

122 Beginning French. 4 sem hrs

A thorough knowledge of the principles of grammar and ability to read simple French easily and rapidly are the objectives of this course.

Nine weeks 10-12 MTTF OWENS

122 Beginning German. 4 sem hr

This course is intended to give the student a good pronunciation and make him acquainted with the elements of grammar and colloquial expression.

Nine weeks 10-12 MTTF NAGEL

122 Beginning Spanish. 4 sem hr

Particular attention is paid to pronunciation and the elementary principles of grammar.

Nine weeks 8-10 MTTF WOLFE

NATURAL SCIENCES

Agriculture

101 General Agriculture. 3 sem hr

The motive of this course is "the farm as a home." It deals with the more personal economic, social and aesthetic features of farm life. Topics considered are the farm house and its conveniences, the planning and planting of the home grounds, the organization of the farmstead for economy and convenience, and the control of plant and animal pests. Special emphasis is placed upon the study of those intensive aspects of agriculture vital to the farm as a home, viz.: poultry, the garden and the farm orchard. Rural health as affected by environmental conditions on the farm is also considered.

Nine weeks 8-10 MWF Sci 203 LOESELL

Biology

301 Genetics. 3 sem hr

Presents such facts and principles from the fields of variation, cytology, animal breeding and embryology as will enable the student to interpret ordinary hereditary phenomena in both plants and animals. Applications of these principles to the human race are constantly made. This course is not open to freshmen or sophomores. Prerequisite: 121 Principles of Biology or equivalent.

Nine weeks 8-10 MWF Hover 102 WALLACE

Botany

211 General Bacteriology. 3 sem hr

This course is a study of the conditions of existence of bacteria, preparation of cultures, sterilization and disinfection, micro-organisms in relation to disease, common diagnostic methods, and the prevention of disease including the use of antisera and vaccines. The course is designed for physical education and special education students, but is open to all students except those who have had 212 Microbiology. Desirable prerequisites: high school biology and general chemistry.

10-12 MWTF H201 BEST

215 Economic Botany. 3 sem hr

This course is a non-technical study of plants useful to man, especially those which produce food, fibres, wood, rubber, spices, drugs and many other plants of industrial and economic value. It is largely a lecture-demonstration course supplemented by reading. It is open to all students without prerequisite, though previous training in biology, botany or agriculture is considered desirable.

Nine weeks 1-3 MWF Hover 202 GILES

221 General Botany. 4 sem hr

This course surveys the plant kingdom from the lowest to the highest forms. Typical life histories are studied. Also, much attention is given to those structures and functions peculiar to plants. Prerequisite: 121 Principles of Biology or high school biology.

Nine weeks 10-12 MTWTF H202 GILES

Conservation

These courses are given in cooperation with the State Department of Conservation. For further information, confer either with Head of Natural Science or Extension Department.

231 Conservation in Michigan. 1 sem hr

Held at Higgins Lake. Enrollment open to both men and women. Reservation should be made before June 1. Expense, including tuition, board and room, is \$35.50.

Summer Extension (June 19-25; August 7-13, 1949)

233 Field Bird Study. 1 sem hr

Held at Higgins Lake. Field trips, laboratory work, identification, nesting habits, songs of birds will be studied. Expense, including tuition, room and board, is \$35.50.

Summer Extension (June 19-25; August 7-13, 1949)

234 General Field Botany. 1 sem hr

Held in cooperation with State Department of Conservation at Higgins Lake. General view of plant kingdom will be given and plant anatomy and identification will be stressed. Expense, including tuition, board and room, is \$35.50.

Summer Extension (June 19-25; August 7-13, 1949)

235 Field Entomology. 1 sem hr

Held in cooperation with State Department of Conservation at Higgins Lake. Identification and control of insects of importance to conservation activities will be stressed. Expense, including tuition, board and room, is \$35.50.

Summer Extension (June 19-25; August 7-13, 1949)

Elementary Science

100 Fundamentals in Elementary Science. 2 sem hr

An elementary academic course intended to furnish a background for those subjects commonly designated as "Elementary Science and Nature Study." The topics treated will be drawn from the ordinary branches of science, and selected on the basis of their suitability to the elementary grades.

8-10 MWF H101 CURTIS

101 Elementary Science for Rural Schools. 2 sem hr

A special course planned for those preparing to teach in rural schools. A selected list of topics will be presented especially applicable to the country environments. Short field trips, laboratory exercises and classroom demonstrations will feature the course. Among the topics treated will be birds, trees, seed distribution, insects, minerals, rocks, soils, erosion, weather, oxidation, along with the principles of natural and artificial selection.

Nine weeks 10-12 TT Sci 203 LOESELL

209 Insects. 2 sem hr

The purpose of this course is to meet the needs of the elementary teachers for insect study units. Students will be taught the methods used in collecting, preserving, and mounting specimens for school use. Consideration will be given to life history studies, insect ecology, and the relation of these animals to man. The various methods used to maintain living insect material in the laboratory will be demonstrated, as this part of insect study is especially valuable in arousing child interest. Prerequisite: 100 or 101 Elementary Science.

Nine weeks 1-3 TT Sci 203 LOESELL

307 Ornamental Plants. 2 sem hr

This is a general cultural course aiming to acquaint the student with our garden flowers, our ornamental shrubs and our trees. It deals with their identification and culture, their use in landscaping, and with methods of

propagation and pruning. The campus furnishes a wealth of material for study and much time is spent in the field. Visits are made to gardens in Ypsilanti and neighboring towns. Prerequisite: 100 Fundamentals in Elementary Science and 208 Local Flora.

1-3 MWF H201 BEST

401, 402 Elementary Science for Grades. 3 sem hr ea
(See Education)

Human Physiology and Anatomy

221 Anatomy and Physiology. 5 sem hr

A textbook course, supplemented by lectures and demonstrations, on the structure and functions of the bones, joints and muscles and the organs of digestion, respiration and excretion.

Nine weeks 1-3 MTWTF Gym 12 HERSHEY

432 Physiology of Nutrition. 2 sem hr

This course is a study of the processes of digestion, metabolism and the fundamentals of diet. A textbook is used, supplemented by lectures, assigned readings and studies of the personal diet of students. Prerequisites: 131 Inorganic Chemistry and 220 Elementary Organic Chemistry.

1-3 MWF Gym 12 COPONY

Zoology

222 General Zoology. 4 sem hr

A general survey of the groups of invertebrate and vertebrate animals is made according to the evolutionary sequence. Emphasis is placed upon the classification and structures; however, time is devoted to such aspects as physiology, life-histories, habits, distribution, and economic relations. Prerequisite: 121 Principles of Biology or high school biology.

Nine weeks 10-12 MTWTF Sci 107 WALLACE

CHEMISTRY

All laboratory courses require a deposit for breakage and non-returnable apparatus, to be paid at the time the student pays tuition.

\$2.00 for courses numbered in the 100 series.

\$4.00 for courses numbered in the 200, 300, or 400 series.

121 General Chemistry. 4 sem hr

A beginning course for all students, whether or not they have had chemistry in high school, wishing to pursue the study of college chemistry. This course may be followed in the fall semester by 132 Inorganic Chemistry to complete the sequence of the first year chemistry. The laboratory hours are to be arranged with the instructor.

Nine weeks 9-10 MTWTF Sci 302 VARTANIAN; Lab
1-3 MTWTF Sci 307 VARTANIAN

122 General Chemistry. 4 sem hr

This course is a continuation of 121 General Chemistry. The study of the common non-metals is completed and some time is given to organic chemistry and the common metals. Prerequisite: 121 General Chemistry.

Nine weeks 10-11 MTWTF Sci 302 VARTANIAN; Lab
3-5 MTWTF Sci 307 CLARK

200a The Chemical Resources of Michigan. 1 sem hr
Includes a study of (minerals) petroleum, salt, Gypsum, limestone, copper, iron, magnesium; forest products; agricultural, dairy, fruits, etc. Elective course without prerequisites.

1-2 MWF Sci 303 BRUNDAGE

200b The Chemical Industries of Michigan. 1 sem hr
Pioneer period: Furs, preserving and tanning; soaps, saleratus, sugar (maple), charcoal, salt. Modern period: Metallurgy, ceramics, drugs, rubber, plastics, etc. Elective course without prerequisites, although desirable to accompany by 200a. Industrial plant visitations will constitute an important phase of this course and will necessitate some free half days preferably Tuesday or Saturday A.M. Consult instructor about these before enrollment.

2-3 MWF Sci 303 BRUNDAGE

201 Every-day Chemistry. 2 sem hr

Designed especially for those students whose major interests lie elsewhere than in chemistry.

No previous chemistry is required and there is no laboratory work. A lecture-demonstration course accompanied by textbook and reference reading. It deals with practical things of daily life, chemistry in the industries, in the home and in the garden. Not to be taken for credit by students who have had high school or college chemistry.

8-10 MWF Sci 303 BRUNDAGE

220 Elementary Organic Chemistry. 2 sem hr

Required for home economics majors and elective to non-specializing students who have had a year of college general chemistry. Applications of organic chemistry to sanitation, health, nutrition, and physiology are stressed. Prerequisite: 132 Inorganic Chemistry or equivalent.

10-12 MWF Sci 303 BRUNDAGE

261 Qualitative Analysis. 4 sem hr

Five hours of lecture and recitation on theory of solution, ionization, equilibrium, and oxidation and reduction. Twelve hours of laboratory practice in separation and identification of metals and acid radicals and the solving of unknowns. Prerequisite: 132 Inorganic Chemistry or equivalent.

Nine weeks 1-3 MWF Sci 302 CLARK; Lab 1-5 TT;
3-5 MTWT Sci 307 CLARK

GEOGRAPHY

131 Background of Current World Events. 2 sem hr

The geographic, economic, political, and strategic background of current world events. An analysis of important items as they occur from day to day. Newspapers, news magazines, and radio news reports will be utilized.

Nine weeks 8-10 TT Welch 5 PEARSON

205 Geography of Europe. 3 sem hr

A regional treatment. The natural setting, the distribution of the people, the important occupations, and the problems of future development in each of several regions. Prerequisite: 101 Introductory Regional Geography.

1-3 MTWF Welch 5 SILL

211 Geography of the United States and Canada. 3 sem hr

(Formerly 201 Geography of the United States)

A regional treatment. The natural setting, the distribution of the people, the important occupations, and the problems of future development in each of the several regions. Prerequisite: 101 Introductory Regional Geography.

Nine weeks 3-5 MWF Welch 4 PEARSON

321 Geography of Latin America. 3 sem hr

(Formerly 204 Geography of Latin America and 319 Geography of Caribbean Lands)

A regional treatment. The natural setting, the distribution of the people, the important occupations, and the problems of future development in each of several regions. Prerequisite: 101 Introductory Regional Geography.

3-5 MTWF Welch 5 MARTIN

339 Economic Geography. 3 sem hr

A systematic treatment of agricultural, mineral, and manufactured products throughout the world. The geographic factors in world trade and the problems involved in trade between nations. Prerequisite: 101 Introductory Regional Geography.

Nine weeks 1-3 MWF Welch 4 PEARSON

341 Methods and Materials in Geography. 2 sem hr

(Formerly 206 Applied Geography)

An evaluation of methods commonly utilized in the teaching of geography, the available textual materials, the advantages of various types of maps and globes, and other visual aids. Recommended for students who expect to teach geography and for those who are following either elementary curriculum.

8-10 MWF Welch 5 SILL

Geology

221 Physical Geology. 2 sem hr

(Formerly 202 Dynamic Geology)

This course is a study of the physical agencies that have determined the shape and character of the Earth's surface and that are still at work in modifying it. The topics studied include the geologic importance of weathering, running water, glaciers, wind, sea and lakes, volcanoes, earthquakes, earth structures, and mountains. There are lectures, laboratory exercises with topographic maps, and field work. An elementary knowledge of minerals and rocks will be helpful.

10-12 MWF Welch 5 MARTIN

PHYSICS AND ASTRONOMY

203 Introduction to Astronomy. 3 sem hrs

(Formerly 201 The Solar System and 202 The Stellar System)

A non-mathematical, descriptive course in astronomy designed for students of any curriculum. The course aims to acquaint the student with the general field of astronomy. It contains much material of importance for the teacher of general and elementary science. The work of the course consists of a study of the sun and its family of planets, together with a study of the stars and nebulae in the known universe beyond the sun and planets. Evening work upon planet and moon observation with the

10-inch Mellish refracting telescope, together with the study of about twenty constellations, is an integral part of the course.

1-3 MTTF Sci 102 SMITH

211 Elementary Physical Science. 3 sem hr

This course has been designed particularly for teachers of elementary science. A study will be made, at an elementary level, of common machines, weather, matter, energy, heat, sound, light, electricity and magnetism. Individual student activity in the working out of simple experimental projects, followed by class discussions, will constitute a major part of the course. Most of the apparatus will be made from materials available in the home or at a ten-cent store.

10-12 MWTF Sci 102 LEIB

213 Photography and its Applications. 2 sem hr

A course in the theory and practice of photography. The physical and chemical laws involved in photography will be emphasized. The practical work will include outdoor and indoor photography, developing, printing, copying, lantern slide making, enlarging, photo-micrography. This course is designed for students of the natural and physical sciences and presumes some knowledge of physics and chemistry.

Lecture: 8-10 MTu Sci 102; Laboratory: 8-10 ThF Sci 206 SMITH

325 Methods in Science Teaching. 2 sem hr

(See Education)

MATHEMATICS

103 Plane Trigonometry. 2 sem hr

This is an elementary course in plane trigonometry. Prerequisites: one and one-half years of high school algebra and one year of plane geometry. No credit is given to a student who has had one semester of high school trigonometry.

Nine weeks 10-12 TT Pierce 305 WEAVER

104 Higher Algebra I. 3 sem hr

This is a review of elementary algebra, and a comprehensive study of the ideas of a function, the graph and quadratic equations. Prerequisites: one year of high school algebra and one year of plane geometry. No credit is given to a student who has had one and one-half years of high school algebra.

Nine weeks 3-5 MWF Pierce 305 WEAVER

105 Higher Algebra II. 3 sem hr

An advanced college course, including additional work on the theory of equation. Prerequisite: 104 Higher Algebra or one and one-half years of high school algebra, and one year of plane geometry.

Nine weeks 1-3 MWF Pierce 301 ERIKSON

202 Analytic Geometry. 4 sem hr

This is a beginning course in plane analytic geometry. Prerequisites: 103 Trigonometry, 105 Higher Algebra II.

Nine weeks 10-12 MTTF Pierce 303 FALAHEE

208 Mathematics of Commerce. 3 sem hr

This course comprises a study of the most approved forms of business computations; notes and interest; various

forms of investments, as building and loan associations, annuities, and bonds; and other related topics.

Nine weeks 3-5 MWF Pierce 305 WEAVER

215 Solid Analytic Geometry. 2 sem hr

This is an introductory course dealing with lines, planes, surfaces, general equations of the second degree and properties of quadrics. Prerequisite: 202 Analytic Geometry, or equivalent.

Nine weeks 10-12 TT Pierce 301 ERIKSON

220 Statistical Method in Education. 2 sem hr

Gives the student practical skill in the use of statistics as now commonly employed in school work—instruction, supervision and administration.

A knowledge of high school algebra is desirable but not required.

10-12 MWF Pierce 305 BRANNON

221 Differential Calculus. 4 sem hr

Time is devoted to the development of laws of differentiation and their application to numerous problems. Prerequisite: 202 Analytic Geometry.

Nine weeks 8-10 MTTF Pierce 303 FALAHEE

222 Integral Calculus. 4 sem hr

Time is devoted to integration and its many varied applications. Prerequisite: 221 Differential Calculus.

Nine weeks 1-3 MTTF Pierce 303 WEAVER

251 The Teaching of Arithmetic. 3 sem hr

(See Education)

302 Differential Equations. 3 sem hr

This course includes solutions of different types of ordinary differential equations and their applications. It is of particular value to students expecting to carry on graduate work in either mathematics or the physical sciences. Prerequisite: 222 Integral Calculus.

Nine weeks 8-10 MWF Pierce 301 ERIKSON

351A, B The Teaching of Arithmetic. 2 sem hr ea

(See Education)

HISTORY AND SOCIAL SCIENCES

American History

121 American History to 1865. 3 sem hr

A study of United States history from the period of exploration through the Civil War.

1-3 MTTF Welch 204 PEARCE

Nine weeks 10-12 MWF Welch 204 DE VRIES

122 American History, 1865 to Present. 3 sem hr

A study of United States History from the Civil War to the present time.

Nine weeks 3-5 MWF Welch 212 DE VRIES

8-10 MTTF Welch 204 PEARCE

Modern History

231 Modern Europe, 1500-1815. 4 sem hr

Emphasis is on the commercial revolution, political growth of the European nations, the Renaissance and the Reformation and exhaustive religious wars; the balance of power; treaties of peace, Gustavus Adolphus, Cromwell,

and Louis XIV's absolutism, the decline of Spain, English and Dutch colonization, the rise of Russia and Prussia, revolutionary ideas, the great French revolution, the era of Napoleonic Europe and the Congress of Vienna.

10-12 MTWTF Welch 204 BLACKENBURG

232 Modern Europe, 1815 to 1919. 4 sem hr

Beginning with the Congress of Vienna the course deals with the revolutions of 1830 and 1848, political developments in Western Europe, the unification of Italy and Germany and the international rivalries. The causes of the world war of 1914 are discussed, colonies, commerce, and alliances, and the great events of the war, followed by a study of American neutrality and participation, the society established by the post-war treaties of 1919, Russia, Italy, and the decline of the League of Nations.

Nine weeks 10-12 MTTTF Welch 204 HUBBELL

249 The Far East. 3 sem hr

A survey of China, Japan, Korea, Siberia, and the Philippine Islands. The following topics are considered: Culture and religion, the influence of European merchants and missionaries, the establishment of spheres of interest, the development of nationalism, and problems of the Pacific.

Nine weeks 3-5 MWF Welch 204 HUBBELL

348 Europe since 1919. 2 sem hr

Emphasis is placed on tracing the consequences of World War I, and on the factors that led to another war.

3-5 MWF Welch 204 BLACKENBURG

Sociology

200 Principles of Sociology. 3 sem hr

This course deals with the fundamental facts of human relationship, and is prerequisite to advanced courses in sociology. Textbook, lectures, oral and written recitations, discussions, reports.

8-10 MTTTF Welch 208 THOMSON

209 Methods in Sociological Research. 3 sem hr

Deals with social statistics and the making of social science studies; the scientific attitude, social activities, conditioning factors, variation, analysis, sources of data, standards of measurement, sampling, source material, schedules, grouping, tabulation, use of scales, graphic presentation, probability and error, correlation. An essential part of the course is an actual social project carried on according to the principles set forth and making practical use of the methods of social statistics. Prerequisites: two courses in sociology and, preferably, 220 Statistical Method in Education.

1-3 MTWF Welch 208 THOMSON

Political Science

110 National Government in the United States. 2 sem hr

This course satisfies the political science requirement on all curricula. Prerequisites: high school courses in American history and government.

8-10 MWF Welch 212 ENGELSMAN

Nine weeks 8-10 TT Welch 212 ENGELSMAN

216 Municipal Government. 3 sem hr

A study of the development of municipal organization; forms of city government; problems of self-government

and of the relation to the state. Prerequisite: 110 National Government in the United States, or 113 Michigan History and Government.

Nine weeks 1-3 MWF Welch 212 ENGELSMAN

Economics

220 Elements of Economics. 3 sem hr

This course constitutes the first half of a study of general economics. Descriptive and analytical work is combined, with emphasis on basic concepts and principles. Among the topics studied are: production, income and wealth; the nature and functions of money; economic interdependence; forms of business organizations; accounting concepts; the determination of prices and the significance of prices.

8-10 MTTTF Welch 209 MANCELL

222 Money and Banking. 3 sem hr

This course deals with the relation of money and credit to the processes of production and exchange of goods and services. A brief sketch of American monetary and banking history is included. Our present currency and banking system is studied, with attention given to contemporary problems, especially the relation of money and credit to the problem of economic stability. Prerequisites: 220 and 221 Elements of Economics.

1-3 MTTTF Welch 209 MANCELL

EDUCATION

Educational Psychology

302 Educational Psychology. 3 sem hr

Applies the general psychological principles to learning and to the development of personality. Prerequisite: 301 Psychology.

3-5 MTTTF Pierce 301 WILLIAMS

Principles of Education

303 Principles of Teaching. 3 sem hr

This course is to be taken in the semester immediately preceding teaching. It is to prepare the student specifically for practice teaching in the training school and deals with the application of the principles of psychology and teaching to the actual work of the school. The basic factors in diagnosing, planning, teaching and in maintaining favorable working conditions in teaching will be considered. Prerequisite: 302 Educational Psychology or 321 Child Psychology.

Nine weeks 10-12 MWF Pierce 308 SLAY (H. S.)
10-12 MTTTF Pierce 327 GARRISON (Elem.)

315 Early Elementary Curriculum. 2 sem hr

This course is an intensive study of the curriculum and methods of procedure of the kindergarten-primary grades. It includes: a review of the characteristics and interests of small children; a detailed study of the aims, content and procedures of the self-directed period, home and community life; language, writing, handwork, plays and games; a survey of large units of work for each grade. Prerequisites: 301 Psychology and 321 Child Psychology.

10-12 MWF Pierce 308 MESTON

344 Visual-Auditory Aids in Education. 2 sem hr

This is a lecture-laboratory course dealing with visual and auditory aids in teaching. It will consider still and motion picture photography; the making and use of slides; operating cameras, stereoscopes, lanterns and motion picture projectors; and the selection, organization and care of materials and equipment. Open to advanced students and experienced teachers. Prerequisite: 303 Principles of Teaching.

10-12 MWF Adm 204 PETERSON

3-5 MWF Adm 204 PETERSON

415 Directed Observation. 2 sem hr

Intended primarily for teachers of experience who feel the need of a knowledge of recent developments in teaching in the elementary school. Supplemented by observation of classes as taught in the laboratory school. Not a substitute for practice teaching, but may be counted as a free elective in education. Prerequisites: 303 Principles of Teaching, and teaching experience.

8-10 MWF RHS 313 MESTON

Tests, Measurements and Research

340 Educational Tests and Measurements. 2 sem hr

Prepares students for the discriminating selection, precise administration, adequate interpretation and effective classroom use of standardized and informal educational tests and test results. Each student applies the principles of testing by preparing an informal test for classroom use. Prerequisite: 302 Educational Psychology or 321 Child Psychology.

10-12 MWF Pierce 301 WILLIAMS (Elem.)

Nine weeks 8-10 TT Pierce 308 SLAY (H. S.)

220 Statistical Methods in Education. 2 sem hr

(See Mathematics)

416 Tests and Measurements in Physical Education. 2 sem hr

(See Physical Education and Health)

Administration and Supervision

316 Public Education in Michigan. 2 sem hr

A study of the development, organization, administration and support of the public school system in Michigan. This course, prescribed by the State Board of Education in all curricula leading to a teacher's certificate, acquaints the teacher with the institution in which he is to work.

3-5 MWF Pierce 329 KELDER

339 Junior-Senior High School Education. 2 sem hr

This is a study of the problems of secondary education and the factors, trends, and developments that have produced the modern junior and senior high schools and their programs of work. Individual students will study and report on problems related to the kinds of high school work they expect to do. Prerequisite: 302 Educational Psychology.

Nine weeks 1-3 TT Pierce 329 SLAY

432 Administration and Supervision of Elementary Schools. 2 sem hr

This course gives thorough consideration to the principles and practices of the elementary school principalship. It deals with the organization and administration of the

school in general and of the following related units: classification and promotion of pupils, the curricular and extra-curricular work, special groups and subjects, classroom teaching, pupil progress, teacher improvement, school plant and equipment, personnel problems and professional leadership. Prerequisites: 302 Educational Psychology and 303 Principles of Teaching.

1-3 MWF Pierce 310 VANDEN BELT

435 Extra-Curricular Activities in High School. 2 sem hr

Designed for those on the Senior High School Curriculum. Every phase of extra-curricular activity is studied.

10-12 MWF Pierce 329 KELDER

460 The Elementary School Curriculum Work Shop. 3 sem hr

This course permits the student to do intensive work in actual problems which confront him in his own school and to work out curricular units in subject fields. Class limited to thirty students. Prerequisites: 302 Educational Psychology, 303 Principles of Teaching, and teaching experience.

8-10 MTTF Pierce 310 INSTRUCTOR

Courses in the Teaching of Designated Subjects

251 The Teaching of Arithmetic. 3 sem hr

This course reviews the fundamental principles of arithmetic and at the same time presents the most approved methods of teaching the same. The course is developed primarily for students classifying under the State Limited Certificate Curriculum.

1-3 MTWF Pierce 305 BRANNON

351A, 351B The Teaching of Arithmetic. 2 sem hr ea

Reviews the fundamental principles of arithmetic and at the same time presents the most approved methods of teaching the subject. 351A is the required course of the Early Elementary Curriculum and 351B of the Later Elementary Curriculum.

1-3 MWF Pierce 305 BRANNON

310, 311, 312 The Teaching of Reading. 3 sem hr ea

These are parallel courses which cover problems and methods of teaching reading. 310 is adapted to elementary teachers, 311 to later elementary teachers, and 312 to rural school teachers. Work will be assigned according to the curriculum on which the student is specializing. Prerequisite: 302 Educational Psychology.

8-10 MTTF RHS 315 HESTER

325 Methods in Science Teaching. 2 sem hr

The early part of the course is devoted to a study of classroom technique and methods of presentation of the subject matter of junior and senior high school science. Later the student is given opportunity for actual practice in the preparation and presentation of demonstrations illustrating scientific facts and principles. Students majoring or minoring in any of the sciences are eligible to this course.

1-3 MWF Sci 202 LEIB

401, 402 Elementary Science for Grades. 3 sem hr ea

Methods courses for those who expect to teach in the grades or who expect to supervise such teaching. The work consists of methods of organization and presentation of science problems, of directing such activities as would

arise, and of collecting and caring for live material. 401 is adapted for primary grades, and 402 for intermediate grades. Prerequisite: 100 or 101 Elementary Science.

1-3 MTTF H101 CURTIS

462 Improving Reading Instruction in the Elementary School 3 sem hr

This course is designed to give practical assistance to teachers in the elementary schools, rural schools, and upper grades (a) in locating their reading problems and finding solutions to them, (b) in applying these solutions in their classrooms, and (c) in evaluating the results. This will involve analyzing the factors that affect reading; selecting and administering informal and standardized tests and interpreting the results, understanding the different types of reading instruction and appropriate materials; recognizing the different stages in reading and the skills, habits and attitudes to be developed on each level; and showing the importance of reading in relation to the content fields. Prerequisites: teaching experience or an introductory course in the teaching of reading.

10-12 MTTF RHS 318 MARTIN

463 Teaching the Language Arts in the Elementary School. 3 sem hr

This course is designed to help teachers evaluate their work in establishing desirable pupil habits and attitudes in using language, handwriting, and spelling in their daily activities. Study will be made of the techniques, procedures, and materials, as means (a) of developing pupil independence, self-evaluation, and self-improvement of work; (b) of adapting standards to the individual capacity and maturity of pupils; and (c) of basing the work upon pupil purposes and interests. Emphasis will be placed upon the use of special periods for meeting individual pupil needs in these subjects, and upon ways in which teachers may organize their teaching so that language, handwriting, and spelling will be taught throughout the day in conversation and discussion, in reporting and recording experiences, and in planning and carrying on curricular and extra-curricular activities. Prerequisites: Educational Psychology (or Child Psychology) or Principles of Teaching.

10-12 MTTF RHS 318 MARTIN

Psychology

301 Psychology. 3 sem hr

This course is an introductory course serving as a scientific basis for subsequent courses in education, as well as an introduction to the field of psychology. The course will center about the facts of original nature and their cultural modification—attitudes, habits, learning; and it will give much attention to providing an understanding of sensation, perception, memory, emotion and related subjects. It should be taken the term immediately preceding 302 Educational Psychology or 321 Child Psychology.

8-10 MTTF Pierce 329 SKINNER

306 Mental Hygiene. 2 sem hr

This course aims to account for the normal behavior of man and his emotional reactions. It deals with those factors, the knowledge of which enables a person to understand himself and others. It should aid the teacher and parent in solving disciplinary problems and be of direct help in the adjustment of students to their college life.

1-3 MWF Rackham INSTRUCTOR

321 Child Psychology. 3 sem hr

This course is designed for students particularly interested in child study. It stresses the child as an individual, his original nature and temperament, as a part of a group and the interaction of biological and societal raw material; the conditioning and reconditioning of behavior tendencies, behavior problems; the individuality and similarity of responses. Personality studies, case records, tests and measurements are investigated. Prerequisite: 301 Psychology.

1-3 MTTF Pierce 327 SKINNER

350 Mental Deficiency. 2 sem hr

This course deals with the nature and causes of mental deficiency; physical and mental characteristics of mental defectives; different types and the possibility of development; psychology of backward and defective children in relation to their training and instruction and the social control of the mentally deficient. Opportunity will be given for observation and clinical study of sub-normal children.

10-12 MWF Rackham ROSER

210 Rural Sociology. 2 sem hr

The social situation in rural America is much more complex than in pioneer times. Specialization in farming, the consolidated school, the community church, farm economic and social organizations, the effect of good roads, automotive power, scientific methods and international trade make rural social life a subject of gripping interest. Textbook, field work, and readings.

3-5 MWF Pierce 308 CURRIE

376 The Technique of Supervision. 2 sem hr

The purpose of this course is to train leaders in the supervisory phases of teacher-training as it is carried on by the critic teacher in a county normal or by a supervisor of teachers in service. The course will be devoted to such problems as lesson planning, demonstrating types of lessons, and the criticism of instruction. Actual demonstrations will be conducted by members of the class such as would be expected of a critic teacher or a supervisor. The course is required of students preparing for positions of rural leadership.

8-10 MWF RHS 313 MESTON

394 Community Relations. 2 sem hr

The purpose of this course is to acquaint prospective teachers with the techniques of school and community relationships both formal and informal. The mutual dependence of school and community, school and community achievement days, joint efforts for the improvement of both the organization and work of the Parent-Teacher Association, community councils and similar organizations and activities are considered.

10-12 MWF Pierce 310 VANDEN BELT

395 Rural Principalship. 2 sem hr

This course considers the administrative, instructional and community relationships of the principal or superintendent of the small town, village and consolidated school of from three to ten teachers. An attempt is made to give a job analysis of the many functions of this type position and to suggest organization of these duties of the busy principal or superintendent for efficiency.

1-3 MWF Pierce 310 VANDEN BELT

470 Rural School Curricular Problems. 3 sem hr

This course permits the student to do intensive work in actual problems which confront him in his own school and to work out curricular units in subject fields as desired. Class limited to thirty students. Prerequisites: 302 Educational Psychology, 303 Principles of Teaching, and Teaching experience.

8-10 MTTF Pierce 310 JAMESON

Three weeks 8-12 MTTF Library JAMESON

.SPECIAL EDUCATION

241 Speech Correction. 2 sem hr

Offered to meet the demand for teachers who can intelligently diagnose and treat the less serious cases of defective speech in children. An investigation is made of the mechanism and use of the voice. This is followed by a study of the symptoms and causes of speech defects, such as lisping, negligent speech, nasality and harshness of voice. Open to sophomores by permission only.

1-3 MWF Rack 107 RICHARDS

306 Mental Hygiene. 2 sem hr (see Education)

350 Mental Deficiency. 2 sem hr (see Education)

358 Methods of Teaching Slow-Learning Children. 2 sem hr

Aims to review the subject matter taught the exceptional child, together with the latest development along each line; to study pertinent school-room problems, individual children and their development in a socialized schoolroom; and through the use of formal and informal tests, to study ways and means of diagnosing and remedying special defects.

8-10 MWF Rackham 201 ROSER

367 Education of Children with Impaired Vision. 2 sem hr

Treats of general problems of sight conservation, organization and administration of sight-saving classes, adjustment of environment, teaching media and curricula modifications essential to the needs of the individuals with defective vision. An assigned program of observation of sight-saving class work is required.

8-10 MWF Rackham 207 NORTON

369 Methods of Teaching Crippled Children. 2 sem hr

The purpose of this course is to familiarize the student with units of work designed to meet the education and psychological needs of the crippled child. Emphasis will be placed upon the presentation and adaptation of teaching materials, the ways and means of providing for individual differences. This includes a study of the individual in the light of his particular disability.

8-10 MWF Rack 211 WALLACE

372 Teaching Speech to the Deaf. 3 sem hr

An introduction to the educational needs of the deaf child with special reference to speech development. A thorough study is made of the formation and development of the elementary English sounds, sense training, fluency and rhythm of speech. Lip reading and speech vocabularies are stressed and materials of development thoroughly studied.

3-5 MTTF Rack 201 ADAMS

374 Physical Reconstruction of Crippled Children. 2 sem hr

(Formerly 374 Physical Reconstruction)

This course will include a discussion of state and national agencies dealing with crippled children, methods of finding and diagnosis, causes of crippling, methods of treatment and prevention and classification of types. Consideration will be given to cardiac cases since these children are often found in orthopedic classes. Class discussions, special lectures, visits to clinics, camps and convalescent homes for crippled children.

10-12 MWF Rack 201 WRIGHT

378s Hearing Aids and Acoustic Training. 2 sem hr

Principles of the physics of sound and the mechanical requirements of high fidelity aids; history of hearing aids and their development. Intelligibility tests and educational and social usage of individual and group hearing aids. This course may not be elected by those who have had 378 Audiometric Testing and Use of Hearing Aids.

10-12 MWF Rack 217 SWARTWOOD

385 Essentials of Language Development and Reading for the Deaf. 3 sem hr

A study of the natural acquisition of language and the principles used to develop the language of the deaf. The development of a reading program is studied, showing how it coordinates with language development. The needs of the various grade levels are discussed.

8-10 MTF Rack 105 ADAMS

401B Testing Auditory Acuity. 2 sem hr

Techniques for administering group and individual audiometric tests. Organization and administering of hearing tests and surveys, including observation and practice. This course is designed to meet the needs of teachers, social workers, public health and school nurses and others working in the service of those who have impaired hearing. This course may not be elected by those who have had 378 Audiometric Testing and Use of Hearing Aids.

3-5 MWF Rack 217 SWARTWOOD

420 Introduction to Visible Speech. 1 sem hr

An introduction to the principles of Visible Speech. Study of characteristics of speech sounds and their recognition on the translator. Laboratory experience with the Visible Speech translator.

1-3 TT Rackham 107 RICHARDS

458 Curriculum Problems for Slow-Learning Children. 2 sem hr

Review of current literature and practices in curriculum building. Consideration of special problems in the selection and preparation of curriculum materials for slow-learning children. Attention will be given to the preparation of materials for use by members of the class.

1-3 MWF Rackham 201 ROSER

463 Education of Deaf-Blind. 2 or 3 sem hr

A study of the particular problems of the education of the deaf-blind children, including instructional approaches, teaching materials, and use of special aids. Opportunity will be provided to observe the instruction of a laboratory class of deaf-blind children. Sponsored in cooperation with the Perkins Institution for the Blind and the American Foundation for the Blind.

8-10 MWF Rackham 216 GITZUS

472 Advanced Problems in Speech for the Deaf. 2 sem hr

This course includes a survey of the theories and methods of teaching speech to the deaf; a study of special problems in speech development and correction at various age-grade levels, stressing application of physiologic phonetics and including discussion of multiple defect or deficiency such as: slow-learning, deaf, cerebral-palsied deaf, aphasic; observation of methods of diagnosis and treatment of various special problems. Analysis and evaluation of research studies will lead to formulation and completion of an original research problem.

10-11 MTWTF Rack 105 SIMMONS

473 Education and Treatment of Cerebral-Palsied Children. 2 sem hr

This course provides an interpretation of the cerebral palsied child. It is primarily a background course for teachers. Major attention is given to the characteristics of the types of cerebral palsy. The problems of education and treatment are reviewed and opportunity is provided for observing children in the class-room and treatment room.

Special lectures will be given by members of the staff of the National Society for Crippled Children and Disabled Adults, and instructors at the Michigan State Normal College and the University of Michigan. A demonstration clinic will be conducted by Dr. M. A. Perlstein, consultant on cerebral palsy of the National Society for Crippled Children and Disabled Adults.

A schedule of work will be adjusted so that the course may also be elected on a three-week basis, meeting daily (June 27 to July 15) to accommodate persons who wish a concentrated program.

Information regarding the details of the course may be obtained from the Horace H. Rackham School of Special Education, Ypsilanti, Michigan, or the National Society for Crippled Children and Disabled Adults, 11 South La-Salle Street, Chicago 3, Illinois.

1-3 MWF Rackham 201 WRIGHT

491 Teaching School Subjects to the Deaf. 2 sem hr

Emphasis is placed upon the principles and techniques for teaching the common school subjects to deaf children. Principles of curriculum building and organization of units of work are presented.

3-4 MTWTF Rack 105 SIMMONS

493 Speech Reading for Children. 2 sem hr

An historical survey of theories and methods of teaching speech reading, including Nitchie, Bruhn, Jena and Muller-Walle. Emphasis is placed on the integration of lip-reading with language development and subject matter; the adaptation of teaching methods to children with varying degrees of deafness and linguistic development. Course includes analysis and evaluation of research studies; construction and administration of tests of speech reading proficiency at various age-grade levels; observation of speech reading classes for deaf and hard-of-hearing children; and preparation of materials for group or individual instruction.

1-3 MWF Rack 217 SWARTWOOD

SW6 Causes of Blindness and Their Social Implications. 2 sem hr

Anatomy and pathology of the eye, with emphasis on the etiological factors and their effects on the individual. This course is offered by the American Foundation for

the Blind as a part of their program for adult workers with the blind. It is open to students of education by special permission of the Director of Special Education. Hours to be arranged Rackham 102 FRALICK AND STAFF

LABORATORY SCHOOLS

Student Teaching. (Elementary Grades.) 3 sem hr

No student may earn more than 3 semester hours credit in practice teaching during the summer session.

Assignments in this course will be made subject to the following regulations:

1. Only students who have had teaching experience will be enrolled.
2. No student may do student teaching and carry a total load of more than 6 semester hours.
3. No student will be permitted to satisfy the total requirements in student teaching during summer sessions only.
4. Only students whose academic records are of a high order will be permitted to teach during the summer session.
5. Application for student teaching must be made before May 15.
6. Students teaching during the summer session will reserve hours 9:00-12:00 for 3 semester hours credit, 10:00-12:00 for 2 semester hours credit in teaching, and for conferences with their supervisors.
7. All students assigned to teaching for the summer session will meet in Room 202, Roosevelt School, Tuesday, June 21, at 4:00 p. m. for the first conference with supervising teachers.

DIRECTED OBSERVATION

Those who desire work in observation are referred to 415 Directed Observation described elsewhere in this bulletin. No other opportunity for observation will be provided.

ART

101 Elementary Art. 3 sem hr

A course in drawing and painting open to all students with the purpose of developing an appreciation of form and color and offering to each individual opportunities in creative work. Crayons, water colors, chalk and clay are used.

Nine weeks 8-10 MWF Adm 205 GILL

103 Commercial Design. 2 sem hr

Lettering and design with emphasis on composition and color as applied to posters, cover designs, book plates, trade-marks, and manuscript writing.

Nine weeks 3-5 TT Adm 205 GILL

106, 106a Still-life Painting. 3 sem hr ea

Special attention is given to the arrangement of various objects for the purpose of stimulating the student's perception of form, value, and color. Charcoal, water color, and oils are used. For additional work in this course classify in 106a. Prerequisites: 101 or 101s Elementary Art and 111 Elementary Design.

10-12 MTTT Adm 206 GILL

200 Art Appreciation. 2 sem hr

A general course to introduce the student to the history of sculpture, painting, and architecture; also to acquaint the student with the elements of creative design and color as applied to the home, school, and community. Prerequisite: 101 or 101s Elementary Art.

10-12 MWF Adm 208 McALLISTER

201, 202 Life Sketching. 3 sem hr ea

This class is held two hours, four days each week. It consists of criticisms of individual drawings from life in black and white and color.

10-12 MTTF Adm 206 GILL

208-208a Outdoor Sketching. 3 sem hr each

A comprehensive study of color and landscape composition. Prerequisite: 101 or 101s Elementary Art.

1-3 MTTF Adm 208 McALLISTER

301 Lettering. 2 sem hr

The objective of this course is to acquire skill in pen and brush lettering for display cards, posters, signs, and charts.

Nine weeks 3-5 TT Adm 205 GILL

MUSIC

104 Elements of Music. 2 sem hr

Designed to give the grade teacher a singing, music reading and theory practice in the elements of music. It acquaints the students with rhythm and tone problems, and aims to develop skill in music reading and an appreciation of music.

1-3 MWF Pease C MORGAN

115 Music Appreciation. 2 sem hr

A course for non-specializing students. The aims of the course are to acquaint the student with the various types, forms, and styles of instrumental and vocal compositions. Illustrations through records and performances by accomplished musicians will be used.

10-12 MWF Pease E ASHBY

130s Summer School Chorus. ½ sem hr

The chorus, open to all summer school students, will study a variety of choral literature; will practice for vocal improvement, pleasure and expression.

3-4 MWF Pease Stage MORGAN

220 Elementary Music Education. (For Non-Specializing students.) 3 sem hr

This course is a study of music in relation to the interests, characteristics and needs of children in early elementary grades. It includes the following topics: development of a sense of rhythm, care and development of the voice, ear training, presentation of the staff and its notation, music reading, song repertoire, appreciation of beauty in music and instrumental work, Prerequisite: 104 Elements of Music.

8-10 MTWF Pease E ASHBY

222 Survey of Elementary Music Education. 2 sem hr

A refresher course for teachers who wish to review methods of teaching music and become acquainted with new materials. The course will include the following: care and treatment of the child voice; factors pertaining to

song interpretation; presentation of rote songs, tonal and rhythmic problems; part singing; creative music; listening lesson plans; rural school music problems and other related topics. Open only to those with teaching experience. Prerequisite: 104 Elements of Music and 220 Elementary Music Education.

10-12 MWF Pease C MORGAN

INDUSTRIAL ARTS

101 Elementary Woodwork and Shop Sketching. 2 sem hr

Teaches the elementary principles of woodwork correlated with shop sketching. The course includes the development and construction of projects which form a foundation for teaching.

Nine weeks 8-10 TT Adm 8 GILDEN

8-10 MWF Adm 8 GILDEN

112 Household Mechanics. 3 sem hr

This course is general in nature covering numerous projects and jobs which involve processes and the application of information most valuable to one in his home or business.

Nine weeks 10-12 MWF Adm 9 CHAMBERLAIN

10-12 MTTF Adm 9 CHAMBERLAIN

Nine weeks 3-5 MWF Adm 9 CHAMBERLAIN

3-5 MTTF Adm 9 CHAMBERLAIN

113 Elementary Practical Electricity. 2 sem hr

This course is elementary in nature covering in detail the fundamentals underlying common applications of electricity, electrical repair and maintenance, the construction of simple electrical devices and simple wiring. The teaching of the work as a part of industrial arts is emphasized.

Nine weeks 8-10 TT Adm 8 GILDEN

8-10 MWF Adm 8 GILDEN

115 Elementary General Metalwork. 2 sem hr

Acquaints students with the more simple branches of metalwork including sheet-metal, bench metal, simple forging and metal casting. In connection with the shop work information is given relative to the characteristics and uses of various metals and their manufacture.

Nine weeks 8-10 TT Adm 8 GILDEN

8-10 MWF Adm 8 GILDEN

127 General Mechanical Drawing. 3 sem hr

This is a general course covering the elements of mechanical drawing including working drawings, lettering, isometric drawing and developments, with special emphasis on content which will serve as a basis in teaching and understanding plans and blueprints.

Nine weeks 10-12 MWF Adm 102 WILLOUGHBY

10-12 MTTF Adm 102 WILLOUGHBY

Nine weeks 1-3 MWF Adm 102 WILLOUGHBY

1-3 MTTF Adm 102 WILLOUGHBY

127E General Mechanical Drawing (for pre-engineering students) 3 sem hr

Nine weeks 8-10 MWF Adm 111 MOORE

8-10 MTTF Adm 111 MOORE

Nine weeks 1-3 MWF Adm 111 MOORE

1-3 MTTF Adm 111 MOORE

128 Architectural Drawing. 3 sem hr

An elementary course which deals with the drawing of plans and some details of construction. Emphasis is placed on the reading and making of good plans. Some work is given on elevations.

Nine weeks 10-12 MWF Adm 102 WILLOUGHBY

10-12 MTTF Adm 102 WILLOUGHBY

151 Toy Making. 2 sem hr

This course aims to meet the needs of teachers in kindergarten and primary departments, rural and ungraded schools, and those in charge of exceptional children. Many of the problems considered would be helpful to leaders of campfire and social groups. Special stress is laid upon the designing, making and finishing of toys. Work in puppetry is included.

1-3 MWF Rack Shop ZUBLER

152 Arts and Crafts. 3 sem hr

The chief aim in this course is to enrich general education through activities which are interesting and valuable. The course covers material in bookbinding, basketry, and other forms of work which involve processes and information valuable to those who expect to teach elementary work, special classes or summer camp activities.

10-12 MTTF Rack Shop ZUBLER

204 General Woodwork. 3 sem hr

It is the aim in this course to acquaint students with the different branches of the woodworking industry and to give them some experience in each. It covers a broad range of activities including benchwork, elements of patternmaking, elements of cabinet-making, elements of carpentry, woodturning and some mill work.

Nine weeks 1-3 MWF Adm 8 GILDEN

1-3 MTTF Adm 8 GILDEN

214 Practical Electricity. 3 sem hr

This is an advanced course intended for those especially interested in practical electricity and those who intend to teach electrical work as a part of general shop or as a special subject. It covers wiring, construction of devices, and considerable material on the construction and repair of motors and generators. Prerequisite: 113 Elementary Practical Electricity.

Nine weeks 1-3 MWF Adm 8 GILDEN

1-3 MTTF Adm 8 GILDEN

216 General Metal Work. 3 sem hr

This is a continuation of course 115 covering more advanced work and the use of more metalworking equipment. Prerequisite: 115 Elementary General Metalwork.

Nine weeks 1-3 MWF Adm 8 GILDEN

1-3 MTTF Adm 8 GILDEN

230 Machine Drawing. 3 sem hr

This course deals with the drawing of machine parts and such information as sizes of bolts, kinds of threads and other standards. Sketching, tracing and blueprinting form an important part of the course. Prerequisite: 127 General Mechanical Drawing.

Nine weeks 1-3 MWF Adm 102 WILLOUGHBY

1-3 MTTF Adm 102 WILLOUGHBY

230E Machine Drawing (for pre-engineering students.)
3 sem hr

Nine weeks 1-3 MWF Adm 111 MOORE

1-3 MTTF Adm 111 MOORE

253, 254 Industrial Arts. 3 sem hr, 2 sem hr

These courses are planned primarily for teachers of elementary grades.

253 8-10 MTTF Adm 8 GLOW

254 1-3 MWF Adm 4 GLOW

313 Descriptive Geometry. 3 sem hr

This is a drawing course for those especially interested in technical and engineering work. The problems involve geometrical constructions as related to distances, angles, intersections and the development of surfaces. Orthographic projection and geometrical theory as related to technical descriptions and designs are emphasized. Prerequisite: 127 or 127E General Mechanical Drawing.

Nine weeks 8-10 MWF Adm 111 MOORE

8-10 MTTF Adm 111 MOORE

HOME ECONOMICS

112 Clothing. 2 sem hr

An introductory course in clothing which deals with the fundamental problems involved in garment construction and with the selection, care, and repair of clothing.

1-3 MWTF Welch 202 KELLY

202 Home Nursing and Child Care. 3 sem hr

This course is divided into two units. In one unit a study is made of home care of the sick and convalescent; first aid; control of disease in home and community. In the second unit a study is made of the care, development and training of the infant and the pre-school child.

10-12 MTWF Welch 103 BAUCH

204 Food and Nutrition. 2 sem hr

This course offers special work in current food and nutrition problems. It consists of lectures, discussions and demonstrations. The course includes a study of the food requirements and habits of children and adults; the problems of maintaining good nutritional standards in the home; the wise selection of food by those who eat in public eating places. The material in this course will be of practical value to the individual as well as to teachers of rural schools and elementary grades. No prerequisites.

1-3 MWF Welch 103 BAUCH

212 Advanced Clothing. 3 sem hr

A course designed for students who desire more advanced work in the selection and construction of clothing. Emphasis is given to the alteration and adaptations of patterns and to the fitting of garments. A unit on children's clothing is included. Prerequisite: 112 Clothing.

1-3 MTWTF Welch 202 KELLY

253 Problems in Home Living. 2 sem hr

(Formerly 253 General Home Economics)

An intensive course planned to meet the personal interests and needs of students or to supplement their preparation for teaching. The course deals with current problems pertaining to the selection and care of clothing; the planning and service of meals; the selection, care and arrangement of household furnishing. Practical experi-

ence is gained through field trips and through demonstrations by the instructor and students. No prerequisites.

3-5 MWF Welch 202 KELLY

301 Economic Problems of the Consumer. 2 sem hr

In this course a study is made of the economic problems of the family in present-day society. Problems studied include family and individual incomes, their source, adequacy and distribution for desirable standard of living; problems involved in buying consumer goods and services; sources of information and agencies providing consumer protection. 220 Elements of Economics desirable as a prerequisite.

8-10 MWF Welch 103 BAUCH

BUSINESS EDUCATION

101 Beginning Typewriting. 2 sem hr

Instruction is given in the learning and mastery of the typewriting keyboard. The work includes development of correct writing habits, drills in rhythm, simple tabulation, and letter writing. For beginners only. No credit is given if typewriting has been previously taken.

Nine weeks 8-10 MWTF Welch 110 ANDERSON

103 Shorthand. 3 sem hr

A beginning course in the study of Gregg shorthand. Effort is concentrated on a thorough study of principles, brief forms, and phrasing. Elementary dictation and transcription powers are developed concurrently with the training in theory. For beginners only. No credit is given if shorthand has been previously taken.

Nine weeks 10-12 MTW Welch 108 ANDERSON

201 Accounting. 3 sem hr

A study of fundamental accounting principles. Covers financial statements with particular attention to the forms and the sources of the facts in the statements. Includes practice with controlling accounts, columnar journals, adjusting and closing books and the work sheet.

Nine weeks 1-3 MWF Welch 106 ROBINSON

205 Business English. 2 sem hr

This course is designed to develop an understanding of English as used in business. Emphasis is placed on speaking and writing the English of business effectively; correct and forceful sentence structure; correct and pleasing oral expression; attractive set-up and arrangement of the various types of business letters. Prerequisites: 121, 122 Rhetoric.

Nine weeks 1-3 TT Adm 108 ANDERSON

301 Business Organization and Management. 3 sem hr

This course deals with the fundamentals of organizing and managing a business establishment. Emphasis is placed on the advantages and disadvantages of the different types of business organizations, business management, finance and accounting, credit, personnel and governmental regulations.

Nine weeks 10-12 MWF Welch 106 ROBINSON

304 Business Law. 3 sem hr

This course is a continuation of 303 Business Law. Prerequisite: 303 Business Law.

Nine weeks 8-10 TTF Welch 106 ROBINSON

PHYSICAL EDUCATION AND HEALTH

318 The Theory of Community Recreation. 3 sem hr
A course in the organization of methods and teaching materials for carrying on various types of community recreation. The course is designed for those expecting to teach recreation. Wherever possible the students will be given laboratory experiences in local communities.
10-12 MTWF Gym 12 HARRIS

323 Individual Gymnastics. 2 sem hr
A textbook course supplemented by lectures and demonstrations on the mechanics of physical deformities and their causes. Abnormalities of the spine and feet, and other postural and functional conditions are discussed.
3-5 MWF Welch 1 SAMSON

414 History and Literature of Physical Education. 2 sem hr
A course of lectures and reference work covering the history of physical education and making a systematic survey of the literature of the subject. Each student is expected to make a rather complete study of a chosen topic.
1-3 MWF Welch 1 SAMSON

416 Tests and Measurements in Physical Education. 2 sem hr
The purpose of the course is to prepare students for the discriminating selection, administration, interpretation, and use of standardized tests and measurements in physical education. Prerequisite: 302 Educational Psychology.
10-12 MWF Welch Gym HERSHEY

432 Physiology of Nutrition. 3 sem hr
(See Natural Science)

Physical Training for Women

W104 School Games. 2 sem hr activity credit
Required on the State Limited Curriculum.
1-3 MWF South Gym BRINT

W112 Elementary Swimming. 2 or 3 sem hr activity credit
3-5 MTWT Pool BRINT, COPONY

W115 Elementary Tennis. 2 sem hr activity credit
8-10 MWF Courts BRINT
1-3 MWF Courts TODD

W119 Elementary Dance. 2 sem hr activity credit
10-12 MWF South Gym BRINT

W214 Recreational Activity. 3 sem hr
Includes horseback riding, golf, etc.
3-5 MTWT South Gym TODD

Ws317 Community Recreation. 3 sem hr activity credit
A coeducational course. This course includes the practice of the methods and the use of materials in conducting activities suitable for community groups and in the teaching of social dancing.
3-5 MTWT North Gym HARRIS

Physical Training for Men

M212 Golf and Recreational Activity. 3 sem hr activity credit

3-5 MTWT West Gym OLDS

Ms204 Boxing and Wrestling. 3 sem hr activity credit

3-5 MTWT West Gym HERSHEY

Ms307 Swimming and Life Saving. 3 sem hr activity credit

3-5 MTWT Pool HERSHEY

Ms317 Community Recreation. 3 sem hr activity credit

See Ws317

Health Education

201 Health Education in the Elementary Grades. 2 sem hr

This course is given for students preparing to teach primary and intermediate grades. Health inspection of school children, survey of environmental conditions, and other methods of determining the health needs of the child are taught. A study is made of the application of educational principles in health instruction. Practice is given in evaluating the newer courses in Health Education.

10-12 MWF Welch 1 OLDS

252 Health Education for Rural Schools. 2 sem hr

This course presupposes some knowledge of personal hygiene. It includes the evaluation and healthful control of the school environment, as well as the health status of individual children, and the principles and methods of health instruction as applied in a rural school.

8-10 MWF Gym 12 OLDS

351 Health Work in the Schools. 3 sem hr

This course is designed for those who may supervise the health education program in a public school system, or those who will cooperate in promoting such a program. Methods of discovering health needs in different communities and possible ways of organizing a program to meet such needs are studied.

8-10 MTWT Welch 1 SAMSON