

MICHIGAN STATE NORMAL COLLEGE
BULLETIN

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Number 1

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USUAL SIX-WEEK SUMMER SESSION

JUNE 19-JULY 28

NINE-WEEK SUMMER SESSION

JUNE 19-AUGUST 18

1944



MICHIGAN STATE NORMAL COLLEGE
YPSILANTI, MICHIGAN



SUMMER SCHOOL CALENDAR

- June 19 Monday, registration
- June 20 Tuesday, recitations begin
- June 27 Tuesday, All-College Acquaintance Tea
- July 13 Thursday, Rural Education Conference
- July 24 Monday, Faculty Reception to Summer School Graduates
- July 28 Friday, Final Examinations, Six-Week Session
- July 28 Friday, Six-Week Session closes
- August 18 Friday, Final examinations, Nine-Week Session
- August 18 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.



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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Floyd Smith, A.B., A.M., Sixth Grade
Chloe Todd, B.S., A.M., Physical Education

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 especially adapted to their needs.

EMERGENCY PROGRAMS

The usual Six-Week Summer Session, June 19–July 28 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. Graduate Courses conducted under the auspices of the University of Michigan

A Nine-Week Session, June 19–August 18 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.

SPECIAL COURSES TO MEET TEACHER SHORTAGE

- A. *Industrial Arts:* Intensified work will be offered in four-week units, each yielding five or six semester hours credit. These unit programs begin June 1 and will be continued as long during the summer as demands warrant. Enter any time. Persons with appropriate background may earn a minor and qualify for certification in Industrial Arts. Make arrangements in advance.
- B. *Music:* A refresher course will be given for those teachers who wish to re-enter the teaching field, or to review teaching methods.
- C. *Directed Observation:* A Course for former teachers who are planning to teach again.

SPECIAL FEATURES

Particular attention is called to the following features which pertain to the Summer as a whole:

1. *Courses contributing to the war effort:* (a) Beginning courses in both Chemistry and Physics for those who have not had these subjects in high school, and a course in Qualitative Analysis; (b) a course in Vacuum Tubes and their application; (c) a course in Meteorology; (d) a course in Pre-Flight Aeronautics; (e) a course in First Aid; (f) courses in Plane and Spherical Trigonometry, College Algebra, Analytical Geometry, and Calculus; (g) courses in Home Economics, centered on the Wartime problems of the individual and the family.

2. *Courses contributing to an understanding of the war and of war aims:* Geographical Background of Current World Events; Background of Current Latin-American Problems; The Struggle for Freedom; History of the British Empire.
3. *Graduate Study.* Courses giving graduate credit are again available in the summer session. These courses are given under the auspices of the University of Michigan and are open to students possessing a bachelor's degree from a school of recognized standing. A total of six semester hours of credit may be earned in summer school courses. The fee is payable to the Registrar of the College. Students wishing to enroll for graduate work in the summer session should make early application and, unless already done, should file official transcripts of their scholastic records with the College by June 1.
4. *Special Education Program.* The Horace H. Rackham School of Special Education is made the center for an intensified program of special education activities. Courses are offered to meet the needs of teachers of all types of handicapped children. These include courses dealing with the teaching of the deaf and hard of hearing, with the technique of hearing aids, the development of voice, language and speech-reading ability; also courses in the teaching of the blind and near blind, in physical reconstruction, and the care and development of the exceptional child.
5. *Courses relating to Child Welfare, Youth Guidance, and the work of the Visiting Teacher:* Home Nursing and Child Care; Child Psychology; Juvenile Delinquency; Mental Testing; Methods in Sociological Research.
6. *A course in Safety Education.*
7. *Nursery Schools:* A course in the Education of Pre-School Children.
8. *Courses relating to the State of Michigan:* The Geography of Michigan; Chemical Resources of Michigan; Chemical Industries of Michigan.
9. *Elementary Science.* To meet a demand for instruction in both the organization and teaching of this subject, several courses are provided.
10. *Field Courses in Natural Science.* Through cooperation with the State Department of Conservation, extension field courses giving credit in Biology and Zoology are offered. These courses are given at the Department of Conservation Training School, Higgins Lake, Roscommon county. See *Undergraduate Courses, Natural Sciences*, for description of courses. Further information may be obtained from the Department of Natural Sciences or from the Department of Extension Education, Michigan State Normal College.
11. *A course in Music Appreciation* for those who are not specializing in music.
12. *Rural Education Conference.* The annual conference on rural education sponsored by the College is held this year during the summer session. The conference brings to the campus specialists in rural life problems.

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 19, 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 12 (not thereafter) and (b) shall have supplied with his request a *self-addressed stamped envelope*.

2. *In Person*—In Room 7, Pierce Hall, Monday morning, June 19, 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 July 1, 1944. 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	\$11.00	\$13.00
Four, five or six semester hours	14.00	18.00
Seven, eight or nine semester hours	17.00	23.00
Ten (maximum load) semester hours	18.00	25.00

GRADUATE:

For full program of work:

Michigan Residents	\$35.00
Non-Residents	\$50.00

For two-hour program of work:

Michigan Residents	\$20.00
Non-Residents	\$30.00

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, bed cover and towels.

All women students will live in the Julia Anne King and Bertha Goodison Residence Halls. The charge, payable on classification day, includes board and room.

	Six Weeks	Nine Weeks
Suite, study and bedroom	\$55.50	\$83.25
Single, study-bedroom (limited number)	64.50	96.75

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

	Six Weeks	Nine Weeks
Suite, study and bedroom	\$15.00	\$22.50
Single, study-bedroom (limited number)	24.00	36.00

In all cases there is a key deposit of \$1.00, paid on classification day and refunded upon return of the key. Also, a \$5.00 deposit must accompany 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 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.

The social regulations which the students are expected to observe will be found in "Information for Residents of Julia Anne King and Bertha Goodison Residence Halls."

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. Carl Lindegren	\$18.00
Mrs. Annis Dexter Gray	\$13.50

Piano, Violin, Brass Instruments

Miss Sylvia Plann	\$9.00
Miss Ruth Skinner	\$9.00
Mrs. Emily Mutter Adams	\$9.00
Mr. D. Chester Ryan	\$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
Education

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.

8-9 MTWTF Pierce 5 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 Pierce 6 LEIFESTE

C175-MS *Psychology of Child Development.* 2 sem hr

The growth and development of the child from birth to maturity will be covered in this course. It will stress the factors credited with influencing mental growth, and the problems of integrating the physical growth and development with mental and social development. Growth curves will be studied with a direct attempt being made to indicate limitations in interpreting the same.

10-11 MTWTF Pierce 37 E. MARSHALL

English

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 WELCH 207 SANDERS

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.

2-3 MTWTF Rackham 102 KANNER

C132-MS *Clinical Study of Exceptional Children.* 2 sem hr

A study of methods of diagnosing and treating the problems of exceptional children. Opportunity for case studies and clinical experiences.

10-11 MTWTF Rackham 107 GATES

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.

11-12 MTWTF Rackham 104 INSTRUCTOR

*For further information concerning Graduate Courses, see page 6.

C234-MS *Advanced Course in Psychology of Special Education.* 2 sem hr

This course is designed for teachers and supervisors of special education. Course will stress the experimental studies dealing with the nature of mental involvements of handicapped children. Consideration will be given to effects of physical handicaps, motor re-education, glandular involvements, intellectual and emotional processes in learning situations.

9-10 MTWTF Rackham 102 LORD

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.

4-5 MTWTF Rackham 211 BADGLEY

C240-a-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.

3-4 MTWTF Rackham 102 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.

8-9 MTWTF Rackham 201 LORD

Geography

125-MS *Regions as Geographical Units.* 2 sem hr

The natural setting, the distribution of people, the important occupations, and the problems of future development in each of the following type regions: grazing, fishing, subsistence hunting, subsistence agriculture, mining, manufacturing, urban, and commercial agriculture in its several forms. Especial emphasis on types of regions treated in Geography textbooks of elementary school level. The course is also open to approved seniors.

9-10 MTWTF Pierce 9 GLASGOW

History

287-MS *Studies in the Social Sciences in the United States and Great Britain.* 2 sem hr

This course investigates the aims and practices employed by the educational institutions of the English-speaking peoples to acquaint children of elementary and secondary school age with their cultural, economic, political, and social

environment, and to fit them for citizenship. It is restricted to the nineteenth and twentieth centuries. Library research with papers and reports.

11-12 MTWTF Adm 107 ISBELL

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 entirely functional in each student's current teaching situation. Provision will be made to meet the needs of those students who have special science problems, such as special education teachers and elementary science supervisors. Prerequisites: 100, 201 or 202, and D157 Elementary Science, or the equivalents.

11-12 MTWTF H101 CURTIS

Under-Graduate Courses

In this bulletin courses on the nine weeks program are scheduled in bold face type. Unless otherwise indicated, courses run six weeks.

ENGLISH

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 Hover 201 BARNES

Nine weeks 3-5 MWF Welch 207 Hagle

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.

10-12 MTTF Welch 209 BATTENHOUSE

Nine weeks 1-3 MWF Welch 212 Eckert

122 *Rhetoric.* 3 sem hr

(Formerly 112, 113 Rhetoric)

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 material, diction, and style; weekly papers; conferences. Prerequisite: 121 Rhetoric.

3-5 MTWTF Welch 212 M. MAGOON

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 Hover 201 BARNES

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.

10-12 MTWF Welch 212 M. MAGOON

Nine weeks 8-10 MWF Welch 212 Eckert

401 *Modern Poetry*. 2 sem hr

A study of the chief poets of England and America since 1900. Prerequisites: three courses in literature.

1-3 MWF Welch 207 SANDERS

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 10-12 MWF Welch 207 Hagle

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 Welch 207 SANDERS

407 *Victorian Prose*. 3 sem hr

A study of the chief prose writers of the Victorian period: Macaulay, Carlyle, Newman, Ruskin, Arnold, Pater, Huxley, Stevenson. Prerequisites: four courses in literature.

1-3 MTTF Welch 209 BATTENHOUSE

SPEECH

121 *Public Speaking*. 2 sem hr

(Formerly 111, 112, 113 Public Speaking)

A course dealing with the fundamental problems of public speech including the organization and expression of one's own thought and the interpretation of the thought of others from the printed page.

8-10 MWF Welch 204 STOWE

135 *Play Production*. 3 sem hr

A study of the problems involved in staging plays in the high school. It deals with the selection of suitable plays, the principles governing staging, make-up and costuming with an examination of theories regarding stage scenery and settings. The class will have opportunity to apply these principles in presentation of parts on a suitable stage.

10-12 MTTF Little Theatre STOWE

221 *Dramatics for Early Elementary Grades*. 3 sem hr

(Formerly 221 Auditorium and Classroom Dramatics for Early Elementary Grades.)

This course is designed to show how the teacher may select material from history, literature, art and music and use it in dramatic forms of pageantry, festivals and plays; also to show how these may be produced effectively in the average classroom or assembly hall.

3-5 MTTF Welch 204 KELLY

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. lispng, negligent speech, nasality and harshness of voice. Open to sophomores by permission only.

10-12 MWF Rackham 201 JEFFERY

301 *Phonetics (Group II)*. 2 sem hr
(Formerly 201 Phonetics.)

In approximately one-third of the course, the facilities of the natural science laboratory are utilized to acquaint the student with the anatomy of speech—the skeletal framework and the tissues involved in breathing, vocalization, resonance and articulation, and with their physiological functioning. This is followed by a study of the formation and classification of English sounds, the historical development of English pronunciation and the problem of standards in isolated and communicative pronouncing. Open to juniors and seniors.

10-12 MWF Welch 204 KELLY

NATURAL SCIENCES

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 antiserums and vaccines. The course is designed for physical education and special education students, but is open to all students except those who have 212 Microbiology. Desirable prerequisites: high school biology and general chemistry.

Nine weeks 1-3 MWF Sci 207 Best

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 15. Expense, including tuition, board and room, is \$20.00.

Summer Extension (June 25-July 2)

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 \$20.00.

Summer Extension (June 25-July 2)

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 \$20.00.

Summer Extension (June 25-July 2)

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 \$20.00.

Summer Extension (June 25-July 2)

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.

1-3 MWF H101 STUPT

201, 202 *Elementary Science for Grades.* 3 sem hr ea. (See Education.)

208 *Local Flora.* 2 sem hr

The aim of this course is to make the prospective grade teacher familiar with the more important common native plants of Michigan. Emphasis will be placed on the identification of trees, shrubs, and herbaceous plants by use of simple keys. Topics such as conservation of the native flora, harmful and useful forms of plant life, and simple plant collections will also receive attention. There will be much field work.

8-12 MWF Sci 207 BEST

210 *Birds.* 2 sem hr

The purpose of this course is to meet the needs of elementary teachers for bird study units. The class activities include the identification of some of the more common Michigan birds in the laboratory and in the field and a study of songs, nests, migration, enemies, food habits, and value of birds. Attention is given to bird literature and to attracting birds to the school and home by means of feeding station, baths, nest boxes, and trees and shrubs. Prerequisite: 100 or 101 Elementary Science.

8-12 MWF Sci 307 HICKMAN

Human Physiology and Anatomy

221 *Anatomy and Physiology.* 5 sem hr

(Formerly 201 and 202 Anatomy and Physiology)

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 8-10 MTWTF Gym 12 Rynearson

Zoology

224 *Comparative Anatomy of Vertebrates.* 3 sem hr

The course deals with the comparative anatomy and evolution of the various vertebrate organs. The classification of vertebrates in relation to their evolution is also discussed. The laboratory work consists in the dissection of vertebrate types, including fish, amphibian, reptile, bird, and mammal. Prerequisite: 222 General Zoology.

3-5 MTWTF Sci 307 HICKMAN

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

(Formerly 101a, 101b General Chemistry)

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 3-4 MTWTF Sci 302; Lab 1-3 MTWTF Sci 306 Sellers

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 302 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 302 BRUNDAGE

261 *Qualitative Analysis.* 4 sem hr
(Formerly 211, 212 Qualitative Analysis)
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 4-5 MTWT Sci 302; Lab 1-4 MTWTF Sci 306 Sellers

GEOGRAPHY

122 *Weather and Climate.* 2 sem hr
Observation of weather elements, use of meteorological instruments, and practice in forecasting the weather.

10-12 MWF Pierce 7 GLASGOW

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 Pierce 7 Callahan

131 *Pre-Flight Aeronautics.* 3 sem hr
(See Physics Department)

209 *Geography of Commerce.* 3 sem hr
Manufacturing centers, market areas, and the distribution of important raw materials; the physical, economic, and transportational factors in production and trade.

Nine weeks 10-12 MWF Pierce 7 Hoy

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 several regions. Prerequisite: 101 *Introductory Regional Geography*.

Nine weeks 1-3 MWF Pierce 7 Callahan

313 *Geography of Michigan.* 2 sem hr

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

1-3 MWF Pierce 7 GLASGOW

322 *Geography of Africa and Australia.* 3 sem hr

(Formerly 318 *Geography of Australia and 320 Geography of Africa*)

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*.

Nine weeks 3-5 MWF Pierce 7 Hoy

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 Pierce 7 CALLAHAN

351 *Background of Current Latin-American Problems.* 3 sem hr

(See History Department for description).

PHYSICS AND ASTRONOMY

104 *Physics.* 4 sem hr

This course is designed to prepare the student without high school physics to take college physics (221 *Mechanics, Sound and Heat, and 222 Electricity and Light*). The course would attempt, in the nine weeks, to cover the essentials presented in a year of high school physics. By taking this course together with *Trigonometry and Algebra 104 or 105* during the summer session, a student would be ready to begin college physics in the fall. This would enable him to gain a year in his training in physics.

Nine weeks 1-3 MTF Sci 202; Lab. 3-5 TT Sci 206 Elliott

131 *Pre-Flight Aeronautics.* 3 sem hr

A course in which the fundamental principles of mechanics and heat are applied to aeroplane flight. Special emphasis will be given to aerodynamics of planes, elementary meteorology, and air navigation. The course is designed for the person who desires information on aviation or who may be asked to teach pre-flight aeronautics in the high school.

Nine weeks 8-10 MWF Sci 202 Elliott

201 *The Solar System.* 2 sem hr
(Formerly part of 201 General Astronomy)

A non-mathematical course addressed to the large popular interest in the subject. The course contains a great deal of material of use not only to teachers of science, but to the teacher of the grades. Evening work upon planet and moon observation with the telescope and tracing out some of the principal constellations is a feature of the course. Use is made of the ten-inch Mellish refracting telescope and the eight-inch reflector which has been constructed in the department.

1-3 MWF Sci 102 WILCOX

211 *Elementary Physical Science.* 3 sem hr

In this course the student will have opportunity to gain first-hand information on topics such as gases, liquids, magnetism, electricity, heat, gravitation, light, sound, molecular forces, and others. Individual student activity in the working out of simple experimental projects, followed by class discussions, will constitute a major part of the course. This work will be particularly valuable to prospective teachers of elementary science.

10-12 MTTF Sci 202 WILCOX

MATHEMATICS

103 *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 55 Schneckenburger

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 8-10 MWF Pierce 55 Erikson

105 *Higher Algebra II.* 3 sem hr

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

Nine weeks 10-12 MWF Pierce 55 Erikson

107 *Spherical Trigonometry.* 2 sem hr

The course deals with the solution of right and oblique spherical triangles. Applications to navigation are considered. Prerequisites: 103 Trigonometry and 104 Higher Algebra I. A knowledge of solid geometry is desirable but not required.

Nine weeks 3-5 TT Pierce 2 Schneckenburger

202s *Analytic Geometry.* 3 sem hr

This is a beginning course in plain analytic geometry, slightly abridged for summer. Prerequisites: 103 Trigonometry, 105 Higher Algebra II.

3-5 MTTF Pierce 2 SCHNECKENBURGER

202 *Analytic Geometry.* 4 sem hr

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

Nine weeks 3-5 MTTF Pierce 2 Schneckenburger

220 *Statistical Method in Education.* 2 sem hr
(Formerly 401 Mathematics)
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 55 ERIKSON

221s *Differential Calculus.* 3 sem hr
(Formerly 203 Differential Calculus and 204 Differential and Integral Calculus)
Time is devoted to the development of laws of differentiation and their application to numerous problems.
Slightly abridged for summer. Prerequisite: 202 Analytic Geometry.
3-5 MTTF Pierce 2 SCHNECKENBURGER

221 *Differential Calculus.* 4 sem hr
(Formerly 203 Differential Calculus and 204 Differential and Integral Calculus)
Time is devoted to the development of laws of differentiation and their application to numerous problems. Prerequisite: 202 Analytic Geometry.
Nine weeks 3-5 MTTF Pierce 2 Schneckenburger

222s *Integral Calculus.* 3 sem hr
(Formerly 204 Differential and Integral Calculus and 205 Integral Calculus)
Time is devoted to integration and its many varied applications. The course is slightly abridged for summer. Prerequisite: 221 Differential Calculus.
3-5 MTTF Pierce 2 SCHNECKENBURGER

222 *Integral Calculus.* 4 sem hr
(Formerly 204 Differential and Integral Calculus and 205 Integral Calculus)
Time is devoted to integration and its many varied applications. Prerequisite: 221 Differential Calculus.
Nine weeks 3-5 MTTF Pierce 2 Schneckenburger

251 *The Teaching of Arithmetic.* 3 sem hr
(See Education.)

314 *Elementary Projective Geometry.* 2 sem hr
This course provides an introduction to the methods of projective geometry. Important theorems pertaining to two and three dimensional space are demonstrated. The course is of value to teachers of Euclidean geometry and to students preparing for graduate work in mathematics. Prerequisite: 202 Analytic Geometry. A knowledge of solid geometry is desirable but not required.
Nine weeks 3-5 TT Pierce 2 Schneckenburger

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
(Formerly 101 American History to 1789 and 102 American History 1789-1865)
A study of United States history from the period of exploration through the Civil War.
1-3 MTTF Pierce 40 FIELD

122 *American History, 1865 to Present.* 3 sem hr
(Formerly 102 American History 1789-1865 and 103 American History 1865-Present)

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

10-12 MTTF Pierce 49 FIELD

Nine weeks 1-3 MWF Pierce 49 Warren

263 *History of the West.* 3 sem hr

A study of westward movement 1600-1890, provisions of Northwest Ordinance; lure of cheap land; banking and speculation; internal improvements; immigration; Santa Fé and Oregon Trails; Mormon trek; California and Forty-Niners; railroads; displacing of Indians; the cattle kingdom; wheat farming; incidentally exploits and contributions of Boone, Clark, Burr, Benton, Houston, Frémont, Douglas, McCormick, Custer. Prerequisite: Eight semester hours of American history.

Nine weeks 10-12 MWF Pierce 49 Warren

351 *Background of Current Latin-American Problems.* 3 sem hr

Historical, geographical, and political background of Latin America. A study of Latin-American independence movements; racial and cultural differences; factors which have favored outside economic and cultural penetration; political institutions; importance of the Monroe Doctrine; the current problem of establishing "good neighbor" relations; historical and geographical factors underlying trade; possible future trends in trade and defense of the Americas.

Nine weeks 8-10 MWF Pierce 7 Warren

Modern History

221 *The Struggle for Freedom.* 2 sem hr

A study of some of the steps in the attainment of individual liberty: Primitive man and his institutions; individual rights in Greece and Rome; among the Vikings and in medieval Europe. The development of representative government in England; economic, religious, and political forces in the sixteenth and seventeenth centuries. The clash between autocracy and democracy within the American colonies. The American and French revolutions with their doctrine of individual rights. The establishment of the federal constitution with "Bill of Rights." The French Revolution and attempts at limited representative government. Impact of the industrial revolution on the economic and political status of the common man; free labor versus slave labor; free land; expansion of suffrage.

1-3 MWF Pierce 48 FAGERSTROM, ISBELL, THOMSON

231 *Modern Europe, 1500-1815.* 4 sem hr

(Formerly 230 Modern Europe 1500-1789 and 241 Modern Europe 1789-1900)

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 Pierce 48 DEVRIES

British Empire

207 *British Empire.* 2 sem hr

A survey course dealing primarily with India, Canada, Australasia, South Africa, Egypt, and Ireland. It will in-

clude such topics as the era of exploration, implications of mercantilism, political structure, and problems arising from the spirit of nationalism. Emphasis will be placed on the modern empire.

3-5 MWF Pierce 48 DEVRIES

Sociology

200 *Principles of Sociology*. 3 sem hr

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

8-10 MTWF Pierce 36 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.

Nine weeks 1-3 MWF Pierce 36 Thomson

210 *Rural Sociology*. 2 sem hr

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. Textbook, field work, and readings.

3-5 MWF Pierce 6 E. SMITH

Political Science

110 *National Government in the United States*. 2 sem hr

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

8-10 MWF Pierce 54 ENGELSMAN

113 *State and Local Government*. 2 sem hr

(Formerly 213 Social Science)

A study of state government with special emphasis given to the government of Michigan. This course should be especially valuable for teachers of social science in senior and junior high schools. A textbook is used but time will be given to current problems, and students are encouraged to form their own judgements on proposed changes. This course satisfies the political science requirement on all curricula.

Nine weeks 1-3 TT Pierce 54 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 inter-dependence; forms of business organization; accounting concepts; the determination of prices and the significance of prices.

8-10 MWTF Pierce 47 FAGERSTROM

EDUCATION

Educational Psychology

302 *Educational Psychology*. 3 sem hr

(Formerly 102 and 202 Education)

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

Nine weeks 1-3 MWF Pierce 37 Instructor

322 *The Psychology of the Elementary School Subjects*. 3 sem hr

(Formerly 222 Education)

This course is designed for those who desire to apply the principles of psychology and the data derived from psychological and pedagogical experiments to the subjects taught in the elementary school. Special attention is given to evaluating the methods used in teaching reading, spelling, arithmetic, grammar, composition, and penmanship. Prerequisites: 301 Psychology, 302 Educational Psychology.

10-12 MTTF Pierce 39 SMITH

Principles of Education

303 *Principles of Teaching*. 3 sem hr

(Formerly 203 Education)

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 37 Instructor

315 *Early Elementary Curriculum*. 2 sem hr

(Formerly 109 and 215 Education)

This course is an intensive study of the curriculum and methods of procedure of the kindergarden-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.

Nine weeks 1-3 TT Pierce 6 Skinner

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.

1-3 MWF Pierce 38A MARSHALL

Nine weeks 8-10 TT Pierce 38A Instructor

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 of 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 5 KELDER

432 *Administration and Supervision of Elementary Schools.* 2 sem hr

(Formerly 432 Organization and Administration of Elementary Schools)

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.

8-10 MWF Pierce 5 KELDER

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.

1-3 MWF Pierce 5 MENZI

Psychology

301 *Psychology.* 3 sem hr

(Formerly 101 and 201 Education)

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.

Nine weeks 8-10 MWF Pierce 38A Skinner

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.

Nine weeks 10-12 MWF Pierce 38A Skinner

Pre-school Education

356 *The Education of Pre-School Children.* 3 sem hr

A functional study of the pre-school child and his development through (a) an analysis of the major problems involved and an application of the current solutions to them, (b) observation and experience with modern techniques in the measurement of children, and (c) the evaluation and use of the findings of research relative to the young child's educational, social, moral, emotional, mental and physical growth—an organismic concept. Readings, discussions, and observation and study of pupils in the pre-kindergarten room.

8-10 MTTF Welch 103 BAUCH

Courses in the Teaching of Designated Subjects

201, 202 *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. 201 is adapted for primary grades, and 202 for intermediate grades. Prerequisite: 100 or 101 Elementary Science.

8-10 MTTF Hover 101 CURTIS

3-5 MTTF Hover 101 STUDD

251 *The Teaching of Arithmetic.* 3 sem hr
(Formerly 101 Mathematics)

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.

Nine weeks 1-3 MWF Pierce 2 Schneckenburger

351A, 351B *The Teaching of Arithmetic.* 2 sem hr ea
(Formerly 101a, 101b, Mathematics)

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 2 SCHNECKENBURGER

310, 311, 312 *The Teaching of Reading.* 3 sem hr ea
(Formerly 121, 122, 123 Speech)

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 Pierce 39 LEIFESTE

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 Pierce 6 LEIFESTE

465 *Teaching Social Studies in the Elementary School.* 3 sem hr

The purpose of this course is to interpret the learning and the teaching of the social studies to the end that pupils through school activities and experiences may attain the fundamentals of democratic living. Students will survey their own communities to discover and to select experiences appropriate and available for school use. The course will

consider such topics as (a) the functions of social studies in the classroom, (b) grade placement of significant subject matter units and concepts, (c) worthwhile units and activities, and (d) study of recent books, maps, magazines, newspapers, films, pictures, and other illustrative materials. The work will be governed by the immediate needs of the teachers. Prerequisites: Educational Psychology (or Child Psychology) or Principles of Teaching.

1-3 MTTF Pierce 39 MONROE

Nine weeks 8-10 MWF Pierce 4A Monroe

Rural Education

210 *Rural Sociology*. 2 sem hr
(For description see History Department)

379 *Rural School Curriculum*. 2 sem hr
(Formerly 279 Education)

The purpose of this course is to acquaint the students with the best current thought relating to the content of the elementary school curriculum. Opportunity will be offered to examine modern textbooks in the elementary school subjects. Standards for judging textbooks will be developed. Considerable attention will be given to the men who are leading the thought today in curriculum making and the ideas for which they stand. Special attention will be given to the Michigan Curriculum Program for elementary schools. Not open to freshmen.

8-10 MWF Pierce 5 KELDER

SPECIAL EDUCATION

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 203 BENTLEY

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.

3-5 MWF Rackham 203 BENTLEY

354 *Juvenile Delinquency*. 3 sem hr

A study of relation of mentality and other factors to conduct in children of school age; insubordination, incorrigibility, truancy, and juvenile crime considered from the standpoint of their relation to environmental influences, emotional instability, mental conflicts, and suppressed experiences. Case studies of children presenting conduct problems will be made.

Not open to Freshmen.

1-3 MTTF Rackham 101 GATES

355 *Individual Intelligence Testing*. 2 sem hr

The course will cover the leading individual tests of intelligence level. The purpose is to give the student a practical working knowledge of the language and performance scales, by text, discussion, demonstration, and actual experience, to the end that he may rate the intelligence level of the various

classes of children found in the public schools. Aside from Special Education majors, admission to this class is by permission of the director only.

10-12 MWF Rackham 203 BENTLEY

358 *Methods of Teaching Slow-Learning Children.* 2 sem hr
(Formerly 358 Methods of Teaching Exceptional Children)

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 205 ROSER

366 *Hygiene and Anatomy of the Eye.* 2 sem hr
(Formerly 366 Sight Saving)

Major attention is given to a study of eye anatomy and of eye hygiene; common eye diseases and defects, vision testing; the techniques of effective cooperation with oculists, nurses, and other agencies; standards of eligibility of children to the sight saving classes. A minimum of ten hours attendance in the ocular clinic of the University Hospital is also required.

8-10 MWF Rackham 206 OLDS

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 Rackham 212 MILLER

372 *Teaching Speech to the Deaf.* 2 sem hr
(Formerly 372 The Teaching of Speech)

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.

1-3 MWF Rackham 201 JEFFERY

373 *Therapeutic Care of Crippled Children.* 2 sem hr

A study of means of rehabilitation of crippled children, stressing the principles of physiotherapy and occupational therapy; special equipment and special services; camping, plays, games and leisure time activities and means of safeguarding the child both in and out of school. Field trips as indicated in 374 Special Education.

10-12 MWF Rackham 211 RINGMAN

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.

1-3 MWF Rackham 211 RINGMAN

378s *Hearing Aids and Their Use.* 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 Rackham 105 SWARTWOOD

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

(Formerly 385 Essentials of Language Development and 400 Reading for the Deaf Child.)

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 MTTF Rackham 217 GORSUCH

387 *Speech-Reading for Adults I.* 3 sem hr

A careful development of rhythmical syllable exercises, synchronous drills and grammatical form exercises. Emphasis is placed on imitation and rhythm as aids in developing speech-reading ability. Discussion and conversation are directed toward the forming of the right foundation habits for subsequent study and practice of speech-reading.

10-12 MTTF Rackham 216 BUNGER

393 *Teaching Speech Reading to the Hard of Hearing.* 3 sem hr

(Formerly 393 Jena Materials and Method, and 396 Principles of Teaching Speech Reading.)

This course offers a survey of methods of teaching speech reading used in the United States and evaluates the contributions of each method. Detailed study of the Jena Method includes development and practice of foundation exercises, presentation of typical lesson plans on both adult and children's level, and collection of source materials for practice teaching. Provision is made for observation of the children's class. Special consideration is given to adapting methods, materials and procedures to the needs of the war deafened.

8-10 MTTF Rackham 216 BUNGER

401A *Pathology of the Ear.* 2 sem hr

This course will deal with the anatomy, physiology and pathology of the ear. Emphasis will be placed upon the prevention of deafness and the setting up of conservation of hearing clinics. The 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.

3-5 MWF Rackham 105 SWARTWOOD

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.

1-3 MWF Rackham 105 SWARTWOOD

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 may become eligible for graduation at the close of the summer session 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; assignments will be mailed to those approved not later than June 10.
6. Students teaching during the summer session will reserve hours 8:30-12:00 for 3 semester hours credit, 9:30-12:00 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 20, at 4:00 p. m. for the first conference with supervising teachers.

FINE ARTS

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.

3-5 MTTF Adm 205 SWETE

Nine weeks 8-10 MWF Adm 206 Enss

103 *Commercial Design.* 2 sem hr

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

10-12 MWF Adm 206 ENSS

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

(Formerly Still-life Drawing and Painting.)

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.

1-3 MTTF Adm 205 SWETE

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.

Nine weeks 8-10 TT Adm 206 Enss

201, 202 *Life Sketching*. 3 sem hr ea

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

3-5 MTTT Adm 205 SWETE

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.

10-12 MWF Adm 206 ENSS

303 *Poster Design*. 2 sem hr

An advanced course in commercial art. A variety of poster techniques are employed. Prerequisites: 101s Elementary Art, 103 Commercial Design, 111 Design, and 201 Life Sketching.

10-12 MWF Adm 206 ENSS

401 *Art Composition*. 3 sem hr

This course enables the student to acquire further creative ability and a knowledge of structural values and techniques with the aid of the fundamental principles of design and color. Problems in illustration, mural decoration and the stage are introduced. Prerequisites: 101 or 101s Elementary Art, 201 Life Sketching, 109 Color, and 111 Design.

1-3 MTTT Adm 205 SWETE

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.

Nine weeks 1-3 TT 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.

8-10 MWF Pease E JAMES

141 *Harmony*. 4 sem hr

(Formerly 110 and 111 Harmony)

This course is a study of the construction and use of all triads and primary seventh chords. It includes an intensive drill in four-part writing, harmonic dictation and keyboard harmony.

10-12 MTWTF Pease E JAMES

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

(Formerly 220 Early Elementary Music Education)

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.

1-3 MTWTF Pease A ASHBY

Nine weeks 8-10 MWF Peace C Morgan

221 *Secondary Music Education.* (For Non-specializing students.) 3 sem hr

(Formerly 221 Intermediate Music Education)

This course is a study of music in relation to the interests, characteristics and needs of girls and boys in intermediate grades. It includes the following topics: care and development of the voice; artistic singing of beautiful song literature; development of skill in music reading through study of rhythmic types, tonal patterns, chromatics, minors, part singing; creative work; appreciation of beauty in music; and instrumental work. Prerequisite: 104 Elements of Music.

8-10 MTWF Pease A ASHBY

232 *Voice Culture.* 2 sem hr

(Formerly Music 132a, 132b)

A course of lectures on vocal anatomy, breathing and the various phases of singing. Analysis and use of exercises for the development of the voice and elimination of the faults of singing. A limited repertory of old classics and folk songs. It is open to all students and required of all specializing in Public School Music and Singing.

1-3 MWF Pease E LINDEGREN

241 *Counterpoint.* 2 sem hr

(Formerly 213 and 214 Counterpoint)

This course is a study of the various species of two and three-part counterpoint, motive development and the principal polyphonic forms. Analysis of typical works and considerable original composition are required. Prerequisite: 142 Harmony.

10-12 MWF Pease E JAMES

413 *Orchestration.* 3 sem hr

This is a practical work in orchestrating original and other works. Arrangements for various ensembles as well as one score for full orchestra are required. Prerequisite: 241 Counterpoint.

10-12 MTWF Pease E JAMES

420 *Survey of Music Education.* 3 sem hr

A refresher course designed for teachers who are re-entering the teaching field (grade teachers who teach music either with or without supervision and teachers of music) who wish to review methods and become acquainted with new materials. The course will include: Care and treatment of voices, song interpretation, presentation of rhythmic and tonal problems, listening lessons, creative music, part singing, techniques of conducting, the organization and administration of various types of musical organizations, rural school music and other related topics. Open only to those with teaching experience.

10-12 MTWF 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.

1-3 MWF Adm 9 CHAMBERLAIN

Nine weeks 1-3 TT Adm 9 Chamberlain

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.

1-3 MTF Adm 9 CHAMBERLAIN

Nine weeks 1-3 MWF 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.

3-5 MWF Adm 10 GILDENSTEIN

8-10 MWF Adm 9 CHAMBERLAIN

Nine weeks 3-5 TT Adm 10 Gildenstein

Nine weeks 8-10 TT Adm 9 Chamberlain

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.

8-10 MWF Adm 9 CHAMBERLAIN

3-5 MWF Adm 10 GILDENSTEIN

Nine weeks 8-10 TT Adm 9 Chamberlain

Nine weeks 3-5 TT Adm 10 Gildenstein

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.

10-12 MTTF Adm 4 GILDENSTEIN

1-3 MTTF Adm 4 GILDENSTEIN

Nine weeks 1-3 MWF Adm 4 Gildenstein

Nine weeks 10-12 MWF Adm 4 Gildenstein

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.

10-12 MTTF Adm 4 GILDENSTEIN

1-3 MTTF Adm 4 GILDENSTEIN

Nine weeks 1-3 MWF Adm 4 Gildenstein

Nine weeks 10-12 MWF Adm 4 Gildenstein

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 Welch 7 HATTON

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 Welch 4 MORRISON

160 *Introduction to Industrial Arts.* 2 sem hr

The chief aim in this course is to give students a clear conception of industrial arts work in its various phases and the part it plays in the general scheme of education so they may proceed with their work more intelligently. Discussions are held on the work now being given in various school

systems and possible future developments. The duties of industrial arts teachers are considered and discussions are held on some of the practical problems confronting the industrial arts teacher.

10-12 MWF Adm 4 GILDENSTEIN

1-3 MWF Adm 4 GILDENSTEIN

Nine weeks 1-3 TT Adm 4 Gildenstein

Nine weeks 10-12 TT Adm 4 Gildenstein

204 *General Woodwork.* 3 sem hr

(Formerly 104 Industrial Arts)

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, wood-turning and some mill work.

1-3 MTTT Adm 9 CHAMBERLAIN

Nine weeks 1-3 MWF Adm 9 Chamberlain

205 *Printing.* 2 sem hr

This is a general course covering the fundamentals of printing including a study of type, type measurements, various cases, leads and slugs, setting type, justification and spacing, pulling proofs, correcting, material, care and use of equipment, composing machines, trade terms and allied trades.

10-12 MWF Adm 4 GILDENSTEIN

1-3 MWF Adm 4 GILDENSTEIN

Nine weeks 1-3 TT Adm 4 Gildenstein

Nine weeks 10-12 TT Adm 4 Gildenstein

214 *Practical Electricity.* 3 sem hr

(Formerly 114 Industrial Arts)

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.

8-10 MTTT Adm 9 CHAMBERLAIN

3-5 MTTT Adm 10 GILDENSTEIN

Nine weeks 3-5 MWF Adm 10 Gildenstein

Nine weeks 8-10 MWF Adm 9 Chamberlain

216 *General Metal Work.* 3 sem hr

(Formerly 116 Industrial Arts)

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

3-5 MTTT Adm 10 GILDENSTEIN

8-10 MTTT Adm 9 CHAMBERLAIN

Nine weeks 3-5 MWF Adm 10 Gildenstein

Nine weeks 8-10 MWF Adm 9 Chamberlain

218 *Practical Mechanics.* 2 sem hr

(Formerly 117 Industrial Arts)

The content of this course is somewhat similar to that in simple mechanics but the material is more advanced and of such a nature that it will form a basis for the teaching of general mechanics or farm mechanics. Prerequisite: 112 Household Mechanics.

3-5 MWF Adm 10 GILDENSTEIN

Nine weeks 3-5 TT Adm 10 Gildenstein

230 *Machine Drawing*. 3 sem hr

(Formerly 130 Industrial Arts)

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.

10-12 MTTF Adm 4 GILDENSTEIN

1-3 MTTF Adm 4 GILDENSTEIN

Nine weeks 1-3 MWF Adm 4 Gildenstein

Nine weeks 10-12 MWF Adm 4 Gildenstein

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

(Formerly 153, 154 Industrial Arts)

These courses are planned primarily for teachers of elementary grades.

253 8-10 MTTF Welch 7 HATTON

254 1-3 MWF Welch 4 MORRISON

302 *Cement Handicrafts and Pottery*. 2 sem hr

(Formerly 302 Cement Handicraft)

The fundamentals of cement and pottery work are covered in this course. Pottery work includes composition, preparation and construction by hand, pressing and coil, glazing and firing. Tiles and garden utensils in cement are also included.

10-12 MWF Adm 207 HATTON

304 *Weaving*. 2 sem hr

(Formerly Weaving and Needlecraft)

Structure, mechanics and threading of various types of looms; practical work in weaving textiles, pattern, tapestry and pick-up weaves are included in this course. Also simple and decorative forms of needlecraft with emphasis on good design and practical application.

8-10 MWF Rackham Shop MORRISON

305 *Advanced General Woodshop*. 2 sem hr

(Formerly 105 Industrial Arts)

This is a continuation of 204. Prerequisite: 204 General Woodwork.

1-3 MWF Adm 9 CHAMBERLAIN

Nine weeks 1-3 TT Adm 9 Chamberlain

HOME ECONOMICS

111 *Foods*. 2 sem hr

(Formerly 101 Home Economics)

An introductory course in foods in which a study is made of the composition, selection, and preparation of foods usually included in simple family meals. White uniform required.

1-5 MWF Welch 103 BAUCH

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

Nine weeks 10-12 MWF Welch 103 Underbrink

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 re-

quirements and habits of children and adults; the problems of maintaining good nutritional standards when foods are rationed, 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 203 UNDERBRINK

301 *Economic Problems of the Consumer.* 2 sem hr
(Formerly Marketing)

In this course a study is made of the economic problems of the family in present-day society. Problems studied include family incomes, their source, distribution, and adequacy for desirable standards of living; the use of the income through budgeting and improved standards of buying in order to secure greater satisfactions for the consumer. 220 Elements of Economics is desirable as a prerequisite.

Nine weeks 3-5 TT Welch 203 Underbrink

311 *Food Buying and Meal Service.* 2 sem hr
(Formerly 103 Home Economics)

This course includes the planning, preparation and serving of meals adapted to family needs and for special occasions. A study is made of table appointments and types of service. Problems in relation to the purchasing of food supplies are given special attention. Prerequisite: 201 Nutrition.

8-12 MWTF Welch 203 UNDERBRINK

356 *The Education of Pre-School Children.* 3 sem hr
(For description see Education Department)

COMMERCE

101 *Beginning Typewriting.* 2 sem hr

Instruction is given in the learning and mastery of the typewriting keyboard. Skill and accuracy are constantly emphasized. The most recent methods based upon the psychology of learning, are employed in teaching this course. For beginners only. No credit is given if typewriting has been previously taken.

Nine weeks 10-12 TT Pierce 304 Springman

102 *Elementary Accounting.* 3 sem hr

This course emphasizes the elementary principles of accounting. The work is developed from the standpoint of the individual proprietorship. Particular attention is given to the development of debit and credit, the importance and use of business papers, income and expense accounts, the trial balance, financial statements, and the closing of the ledger.

Nine weeks 8-10 MWF Pierce 305 Springman

202 *Advanced Accounting.* 3 sem hr

This is an advanced course. It deals with the accounting procedure of the corporation. Business methods and procedure, comparative statements are studied and analyzed. Rural accounting is given attention including depreciation and operating costs. Prerequisite: 201 Advanced Accounting.

Nine weeks 8-10 MWF Pierce 305 Springman

203 *Stenography.* 3 sem hr

The aim in this course is to train students to take dictation at a speed required in business, and to transcribe their notes correctly at a reasonable speed. The development of typing skill is an important part of this course. Prerequisites: 101 Beginning Typewriting and 103 Beginning Shorthand or equivalents.

Nine weeks 10-12 MWF Pierce 305 Springman

204 *Secretarial Procedures*. 3 sem hr

This course is designed to train students to assume the responsibilities of the more important office positions. This calls for skill in taking dictation and careful arrangement of the material on the written page promptly and accurately. The rendering of social service, and the development of qualities of leadership are an important part of this work. Prerequisite: 203 Stenography.

Nine weeks 10-12 MWF Pierce 305 Springman

302 *Office Practice*. 2 sem hr

The technique of office procedure as applied to present day methods in an up-to-date office is emphasized. Attention is given to a study of the appliances most commonly used in offices. Methods of instruction will be given to enable teachers to train pupils to enter upon the duties of their initial position confidently and advantageously.

Nine weeks 1-3 TT Pierce 305 Springman

304 *Business Law*. 3 sem hr

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

Nine weeks 1-3 MWF Pierce 305 Springman

SCHOOL LIBRARY SERVICE

301 *Classification and Cataloging*. 3 sem hr

A study of the principles and methods of classification and cataloging planned to meet the needs of the average school library. The Dewey Decimal system of classification will be taught and also the procedures involved in constructing a dictionary catalog.

1-3 MWF Library 203 ROSENRETER

303 *Reference Books and Their Use*. 2 sem hr

This course is a general survey of the content and use of reference books and materials suitable for secondary schools. Readings, reports and problems will be required.

Nine weeks 10-12 TT Library 203 Cleveringa

403 *Library Materials as Teaching Aids*. 3 sem hr

Undertakes to give prospective teachers and school librarians valuable sources for securing inexpensive teaching and library materials, and also free materials available through State and Federal Departments, commercial agencies, publishing houses, etc.

Nine weeks 10-12 MWF Library 203 Andrews

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.

8-10 MWF Adm 204 SAMSON

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 Adm 204 SAMSON

Nine weeks 8-10 TT Adm 204 Snow

360 *Health Education Applied.* 3 sem hr

Planned for school nurses and for teachers who have had a year or more of experience. The relation of the teacher and the nurse, with their respective contributions to the health program, is discussed. The value of periodic health examinations is considered and participation in this examination by nurses and teachers is learned by discussion and by actual experience in helping to examine children. The relation of physical and mental health to behavior problems is studied. This course is a preparation for efficient community and school health leadership.

1-3 MTTF Adm 204 SNOW

PHYSICAL EDUCATION

202 *Standard American Red Cross First Aid Course.* 2 sem hr

Outlined by the American Red Cross, this course consists of lectures, text book and practice work in first aid. A certificate is awarded to each student completing the course.

1-3 MWF Gym 12 SAMSON

311 *Theory and Philosophy of Play.* 2 sem hr

A course in the philosophy and psychology of play, its history in the race, its development in recent times, and its influence in the education and development of the individual. Study is made of the practical conduct of play as illustrated in the playground, the community center, boys' and girls' clubs, summer camps, and schools.

10-12 MWF Gym 12 MCCULLOCH

343 *Safety Education.* 2 sem hr

A study of the hazards to which children are exposed in school, playground, street and home, and of methods of instructing children to protect themselves. Given in cooperation with the Automobile Club of Michigan, Ypsilanti Branch; the Police Department of Ypsilanti; and the Michigan State Police.

10-12 MWF Gym 13 SAMSON

Physical Training for Women

W104 *Rural School Games.* 2 sem hr activity credit

Required on the State Limited Curriculum.

3-5 MWF Gym 5 INSTRUCTOR

W112 *Elementary Swimming.* 2 or 3 sem hr activity credit

3-5 MTWT Pool INSTRUCTOR

W115 *Elementary Tennis.* 2 sem hr activity credit

10-12 MWF Gym 2 VOSSLER

1-3 MWF Gym 2 ASSISTANT

W214 *Recreational Activity.* 3 sem hr

Includes horseback riding, golf, etc.

3-5 MTWT Gym 2 VOSSLER

Physical Training for Men

M103 *Swimming.* 3 sem hr activity credit

8-10 MTWT Pool MCCULLOCH

M202 *Tennis-Volleyball.* 2 sem hr activity credit

3-5 MWF Courts MCCULLOCH