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College, Brookings, South Dakota

WINTER SESSION

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JUNE 16
to
JULY 25



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Summer Session Calendar

June 16 to July 25, 1941

- June 16, Monday—
Registration Day
- June 17, Tuesday—
Class work begins 7 a. m.
- June 18, Wednesday—
Assembly students and faculty (11 o'clock
each week)
- June 19, Thursday—
Summer School Mixer
- June 26, Thursday—
Summer School Picnic
- July 4, Friday—
Legal Holiday
- July 24, Thursday—
Graduation Exercises 10:30 a. m.
- July 25, Friday—
Summer Session Closes 4:00 p. m.

Special Features

- Botany Field Course in Black Hills
June 16—July 25 (see p. 18)
- Short Course for Agriculture Instructors
July 7—25
- Education Conference
- Ministers' Conference
July 8—12
- Vocational Coordinators Conference
- School Custodians Short Course
- Printers' Mechanical Conference
July 25—26

SOUTH DAKOTA STATE COLLEGE



Summer Session 1941

South Dakota State College of Agriculture
and Mechanic Arts

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March, 1941

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Summer School Staff

LYMAN E. JACKSON, Ph. D., President

CLINTON R. WISEMAN, Ph. D., Director of Summer School; Professor of Education

DAVID B. DONER, B. S., Registrar

R. A. LARSON, Secretary of the College



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WEBER H. PETERSON, M. S., Instructor in Agricultural Economics

EDITH M. PIERSON, M. S., Professor of Home Economics

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GEORGE E. SMOCK, Ph. D., Professor of English

LEON C. SNYDER, Ph. D., Assistant Professor of Botany

HARRIS DEAN STALLINGS, A. B., B. L. S., Librarian

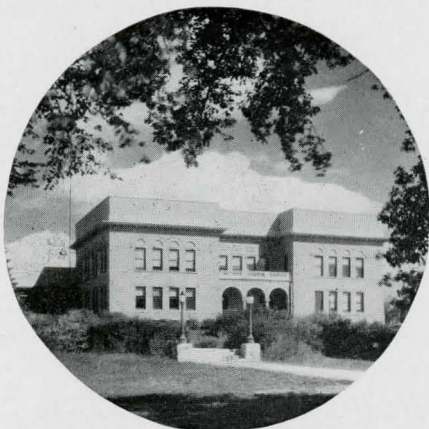
WINDSOR A. STRAW, B. S., Superintendent of Printing Laboratory; Assistant Professor of Printing and Rural Journalism

KARL THEMAN, M. A., Assistant Professor of Music (Voice)

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ORLIN E. WALDER, M. A., Assistant Professor of Mathematics; Manager, Men's Dormitory

VICTOR S. WEBSTER, Ph. D., Assistant Professor of Chemistry



The Engineering Building

General Information

The Summer Session of State College opens Monday, June 16, and continues for six weeks, closing July 25.

Courses are offered in the divisions of Agriculture, Engineering, Home Economics, General Science and Pharmacy. In the main the faculty of the Summer Session will include members of the regular faculty of the College.

Monday, June 16, is registration day. All students should register on this day and be ready for class work on the morning of Tuesday, June 17. Students should arrive in Brookings, Monday, June 16, in time to arrange for living quarters before school opens. The offices of the Director of the Summer School and of the Registrar will be open and ready to give needed assistance.

Admission

The requirements for admission to the Summer Session are the same as for other sessions of the year. Satisfaction of entrance credits means the completion of a standard high school course or its equivalent. A candidate for entrance to the freshman class of the College must present at least 15 units of entrance credit by certification or examination or both. Others may be admitted as special students to courses they are qualified to pursue. Credit toward a degree will be given only to students who satisfy the entrance requirements.

Graduate Work

Many of the departments of the College offer work during the summer for graduate credit. In certain departments it is desirable that students plan to do at least some of their graduate work during the summer session. Those who are interested in graduate work should write to the Chairman of the Graduate Committee for regulations concerning entering upon and requirements of graduate work at State College. Write to the Director of the Summer Session regarding opportunities and conditions under which graduate work may be taken.

Credit and Schedule

All scheduled courses carry college credit as indicated in connection with the courses. All courses are regular unless otherwise indicated in the course description. A regular course meets five times a week and carries three credits. Regular class work consists of five hours in class and ten hours in preparation per week for each three-credit course. Three hours in the laboratory where no outside work is required count for one recitation and the accompanying preparation. The normal load for a summer term is three regular courses. This amounts to nine term credits for the six weeks' summer term. The summer session schedule is arranged for most of the regular lecture classes to come in the forenoon. The first classes start at 7 o'clock and most of the laboratory classes are scheduled for the afternoon.

Brookings

Brookings is a beautiful city with a population of approximately 5,400 located in the east central part of the state on the Chicago and Northwestern railroad. It also has several bus lines leading into it. Its shaded streets and well-kept lawns make it an unusually attractive place in which to spend the summer. Lake Campbell is but a short distance from the city. The Sioux River is a popular picnic point. Nearby golf courses are available for summer recreation. Brookings has a fine new municipal swimming pool.

Lincoln Memorial Library

The Lincoln Memorial Library is the center of Summer School activity. The office of the Director of the Summer School is in the library building, and some of the classes are held there.

The library contains approximately 67,000 volumes and 22,000 pamphlets (February 1940), carefully selected and well cataloged to facilitate instruction and research and to stimulate general reading. The library receives currently ten newspapers and about 535 journals and periodicals of both a technical and general nature. The library also has the periodical and document indexes which make long files of each valuable in the many fields of research.

Pugsley Union

The Pugsley Union is primarily a student enterprise, operated as the college social, recreational, and service center. It is maintained by and for the students, faculty, and alumni as their college club, with facilities for service and pleasure. Every student, by payment of the specified fee is an active member of the Union and has a voice in its direction.

During the summer school session the Union will attempt to operate all facilities for which there is a demand. Meal and fountain service will be in operation from 6:30 a. m. throughout the day. Game and recreation facilities will operate when the demand warrants. Lounge, meeting and club facilities will be available at all times. Arrangements for social functions and meetings may be made in the Union Director's office, room 202.

To enable students to purchase books and other supplies necessary for their work, the student association maintains a bookstore located in the new Union Building.

Other Buildings

The Chemistry building provides not only ample laboratory room but a pleasant place in which to work free from annoying chemical odors. The Coolidge Sylvan Theatre provides an ideal place for summer entertainments and will give students an opportunity to see outdoor games and plays organized. The Coughlin Campanile, gift of a successful alumnus, adds beauty to the campus, cheering students and former graduates with its chimes.

State College Station, a sub-station of the Brookings postoffice, is located on the ground floor of Central Building.

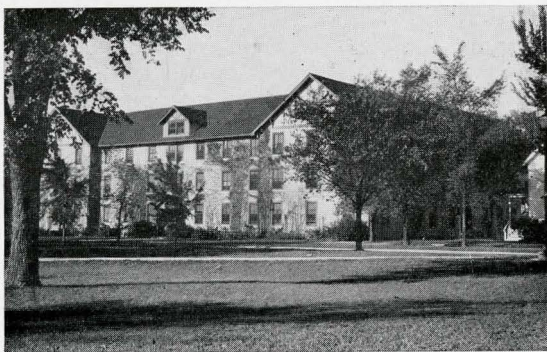
Dormitories for Men

Scobey Hall, the new men's dormitory, will be open for men during the summer Session. This dormitory will make a very fine residence for summer school students. Two well furnished living rooms and two game rooms afford attractive places for recreation and entertainment. All rooms in the dormitory are provided with two closets, built-in study tables, two beds with inner spring mattresses, dresser with mirror, chairs and window shades. Hot and cold water is available at all times in the well equipped lavatories and shower rooms. Each student should provide himself with a mattress pad, pillow, two pairs of pillow cases, three sheets, one pair of blankets, towels and curtains. The cost of rooms in Scobey Hall is \$9.00 per student for the term, if two students occupy the same room.

Dormitories for Women

The dormitories for women are open during the Summer Session. Everything possible is done to make residence in the dormitories attractive to summer school students. Two pleasant living rooms and a large sunroom connecting the two women's dormitories afford attractive places for recreation, entertainment of guests and informal dancing. An informal social program, centering around the dormitory regime, is planned for the summer session.

All rooms are large, well-ventilated and comfortably cool. Each room is provided with one or two



Men's Dormitory

closets and a stationary lavatory with hot and cold water, and is furnished with two single beds with mattresses, two straight chairs, a rocker, a study table, a dresser with mirror, a large rug and window shades. Each student should provide herself with a mattress pad, pillow, two pairs of pillow cases, three sheets, one pair of blankets, towels and curtains. The dormitory will rent pillows at 50 cents each for the six weeks session. A room in the dormitory will cost \$9.00 for the term, and board may be obtained near the campus at reasonable prices.

All women under twenty-one years of age who are not residents of Brookings are required to live in the dormitory unless special permission is granted by the Dormitories Committee. The approval of parents must accompany any requests to live in town.

Fees

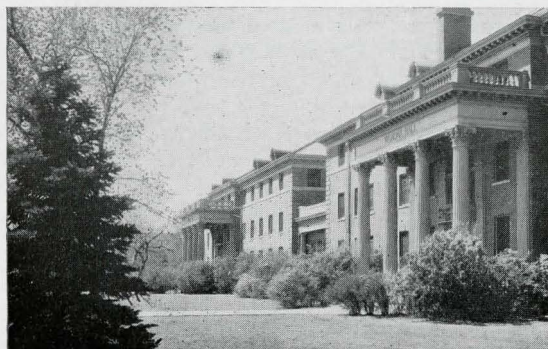
The regular tuition fee for the six weeks term of all summer schools at the state educational institutions as prescribed by the Regents of Education is \$15.00.

The tuition fee for students who are non-residents of the state is fifty per cent more than for resident students.

A library fee of \$1.00, a Union building fee of \$1.00 and a student activity fee of \$1.00 are required for the six weeks Summer Session.

Small laboratory fees are charged for the courses requiring laboratory work. The fee is indicated in each case in connection with the description of the course.

A late fee of \$2.00 will be collected from all stu-



Women's Dormitories

dents who complete their registration and pay their fees subsequent to the time announced for that purpose.

Expense

At present the necessary expense of attendance for the six weeks summer session is approximately as follows:

Tuition ¹	\$15.00
Board and Room	38.00
Library Fee	1.00
Union Building Fee	1.00
Activity Fee	1.00
Books and Supplies (Estimate)	8.00
<hr/>	
Total	\$64.00

1. Fifty per cent higher tuition for students who are not residents of the state.

Students who take laboratory courses will be required to pay a small laboratory fee for each course.

Board

Meals and fountain service will be available at the Pugsley Union. Besides there are other eating places near the campus where board may be obtained at a cost of from \$4.00 to \$5.00 per week. Rooms may be obtained in private homes at \$1.00 to \$1.50 per week per student where two students occupy the same room.

Assembly and Recreation

Assembly of students and faculty members is held Wednesday at 11 o'clock of each week consisting of music by summer session orchestra, talks and entertainment.

The summer session social program is organized by a joint committee of faculty members and students. The usual events are: a mixer, a picnic and dances.

Organized recreation for both men and women is provided for under the general direction of the Physical Education Department. The College is well equipped with tennis courts, ball diamond, golf course etc. The student activity fee covers their use. The city has a new municipal swimming pool.

Teachers' Employment Bureau

The College maintains a Teachers' Employment Bureau located in the office of the Department of

Education with a secretary in charge. Graduates and students may enroll and expect help in securing teaching positions suited to their training and experience. Complete instructions and registration blanks may be obtained at the office of the Bureau of Recommendations. An annual registration fee of \$1.00 is charged for this service. Many superintendents and principals as well as school board members visit the Bureau during the spring and summer terms to select teachers for their schools.

Black Hills Summer Camp in Botany

The Botany Department of South Dakota State College will conduct a field station in the Black Hills during the regular summer session. The flora of the Black Hills will be studied. For a full description of the course, refer to the botany courses in the bulletin. A two weeks trip to Yellowstone is planned during the last two weeks.

Students will live in tents and sleep on camp cots furnished by the department. In order to keep expenses down, students will be expected to serve on cooking and firewood committees. The credit to be earned will be nine credit hours.

The following is an itemized account of estimated expenses per student:

Tuition	\$15.00
Library Fee	1.00
Laboratory Fee	4.00
Lodging (tent, cot, & air mattress)	8.00
Transportation (for field trips, includes Yellowstone trip)	22.00
Food	20.00
Books and Supplies	5.00
Incidentals (according to the demands of the individual)	

Total estimated expenses not including incidentals.....\$75.00

Each student will be expected to furnish the following:

Bedding (at least three wool blankets or equivalent)

Heavy clothing for outdoor work (be sure to bring a heavy sweater or jacket)

The course will be conducted by Dr. Leon C. Snyder, assistant professor of botany at State College.

Dr. Snyder has been with the summer camps of the University of Washington, Oregon and California. For three summers, he has worked for the Forest Service in Colorado and Wyoming on plant identification work.

Students interested in attending this camp should correspond with the Botany Department at State College as soon as possible as the number of students that can be accommodated is limited. Applicants will be considered in the order received.

Music Directors' Courses

Professors Christensen and Theman will conduct courses for Band and Choral Directors according to the demand for such work.

Smith-Hughes Instructors' Course

A special three weeks course is given for Smith-Hughes Agriculture instructors. Professor Bentley is in charge.

Education Conference

This conference for two or three days is held with the assistance of some member from the State Department of Public Instruction.

Trades Conferences

These are under the direction of C. O. Gottschalk, State Supervisor of Trades and Industries. One is held for Special Coordinators of such work in South Dakota schools. The other is for School Custodians or really a Janitors' School. However, this is also open to interested school board members and school superintendents.

Ministers' Conference

The annual Ministers' Conference will be held at State College during the summer session. This is under the direction of Prof. W. F. Kumlien, head of the Department of Rural Sociology.



A State College Campus Scene

Courses Offered

Courses are offered in twenty-seven departments in five divisions of the College. Several of the departments have built up plans for giving courses (particularly those carrying graduate credit) in alternate years. This enables students who are interested in taking certain work over a period of two or three summer sessions to block out their programs of work.

The courses are classified as follows: Those numbered 1-19 are of Freshman rank; 20-39 Sophomore rank; 40-59 Junior rank; 60-79 Senior rank; 100-199 undergraduate and graduate rank; 200 or above primarily for graduates.

The time for each course is indicated. (R) stands for Recitation, (L) stands for Laboratory work and (*) stands for time to be arranged. In the main the lecture courses come in the forenoons and laboratory courses come in the afternoons. However in several cases some of the laboratory time is left to be arranged later. A complete schedule will be ready on Registration Day—Monday, June 16.

For further information regarding courses offered or courses desired write to the Director of Summer Session or to the departments concerned. Where there is sufficient demand departments may offer additional courses not listed in this bulletin. The College reserves the right to withdraw any course for which there is not sufficient demand to warrant the organization of the class.

Agricultural Economics

Mr. Coons and Mr. Peterson

20 Principles of Economics. Offers training in the fundamental principles of economic science as an aid to the understanding of the modern economic problems involved in production; value and price-making; money and price fluctuations; distribution; international economic relations, etc. P, Sophomore standing. R, 11 MTTF. (*1). Three credits. Mr. son.

145 Public Finance. A general introduction to the science of public finance; public expenditures; fiscal administration; public revenues and public credit; shifting and incidence of taxation. P, 20. R, 7:00 daily. Three credits. Mr. Coons.

148 Money, Bank Credit and Prices. A study of monetary theory and the economic consequences to different classes of society of various monetary and banking policies, including their effect on the general price level. Proposals for reducing the fluctuations in the general price level by means of monetary and banking policies are analyzed. P, 48. R, 8 daily. Three credits. Mr. Coons.

Agricultural Engineering

(See also Engineering Shop and Mechanical Engineering)

WOOD WORKING

Assistant Professor Bonell

11 Carpentry.¹ Elementary or fundamental course. Twenty jobs covering wood working methods and care and use of a large variety of tools and materials. Twelve hours of laboratory work per week. Two credits. L, 2,3,4 daily. Laboratory fee \$1 per credit.

11b Shop Problems for Grades.¹ For teachers. Problems on Sawing, Planing, Gluing, Finishing, Jig-saw, Coping-saw, Moulding. Two credits. L, 2,3,4 daily. Laboratory fee \$1 per credit.

21 Cabinet Making. Eight jobs, covering cabinet making principles and use of hardware and finishes, caning, seating and upholstering. P, 11. Six hours of laboratory work per week for each credit. L, 3,4,5 daily. Laboratory fee, \$1 per credit.

41 Wood Turning.² Twelve jobs, covering lathe tools and use of same together with turning methods. Care of lathe. P, 11. Twelve hours of laboratory work per week. *. Two credits. Laboratory fee, \$1 per credit.

41b Advanced Wood Turning.² Face Plate and Drive Chuck together with Wood Chuck and Built-up Turning. P, 41. *. Laboratory fee \$1 per credit.

Shop Methods. Shop lesson plans. Shop supplies, orders equipment, etc. R, 7 MTWTh. Fee, \$1.

1. Of courses 11 and 11b the one with more demand will be given.

2. Of courses 41 and 41b the one with more demand will be given.

METAL WORKING

Mr. Bloem

10 Forge Shop. Use of forge and tools, hardening and tempering small tools. Helpful in repair of machinery. Offers a good outline in metal work for manual training. Twelve hours of laboratory work a week. Two credits. *. Laboratory fee, \$1 per credit.

20 Advanced Forge Shop. Advanced work in repair and welding of farm machinery and equipment. Planning of a farm shop. Tools, arrangement and building. Twelve hours of laboratory work a week. Two credits. *. Laboratory fee \$1 per credit.

29 Acetylene Welding. Care and operation of apparatus. Methods of distinguishing metals. Preheating and welding of cast iron, steel, brass and aluminum. Brazing of malleable iron; oxyacetylene cutting and carbon burning. P, 10. Twelve hours of laboratory work a week. Two credits. *. Laboratory fee \$1 per credit.

Agronomy

Associate Professor Puhr and Assistant Professor Grafius

A course consisting of five periods per week or equivalent for laboratory work. Each part for three weeks or other arrangement.

1. Improvement of field crops. Identification, judging, improvement by selection and breeding of important crops of this area.

2. Soils. Formation, structure, composition with reference wherever possible to South Dakota soils.

Prerequisite Chemistry 1, Botany 1.

Offered for not fewer than five students. 3 credits. *.

Animal Husbandry

Courses will be offered if there is sufficient demand for them.

Art

Professor Davis

Sp. Craft and Design. A presentation of the principles of design, with application to definite problems involving simple craft processes. Though emphasis will be on the design factor, a number of the problems will be carried to their completion as craft problems. The nature of the problems will be planned to meet the requirements and needs of the individual student. This course is intended for those not having a previous design training and has no prerequisite. Six laboratory hours a week for each credit. One or two credits. L, 1-2 daily (*2). Laboratory fee, 50 cents.

* Time to be arranged.

2 Freehand Drawing and Design. A study of the principles of perspective and elementary design and composition. Exercise in drawing in outline and value from still-life, casts, nature forms and landscape. Interpretative compositions and designs. Mediums: pencil, charcoal and pen and ink. The problems will be adapted to the needs of the individual student. No prerequisite. Six laboratory hours a week, one credit. L, 10-11 MTTF, 10 W (*3). Laboratory fee, 50 cents.

25 Applied Design. The planning and construction of various articles which involve designing for definite materials and tools, and for definite space. Many problems; such as stenciling, book-binding, block-printing, needlecraft, etc., will be given as a basis for teaching related art in schools. P, labc. Twelve laboratory hours a week. Two credits. L, 1-2 daily (*2). Laboratory fee, 50 cents.

26 Applied Design (crafts). A study of the principles of design as applied to construction and decoration in the various crafts, such as weaving, stenciling, batik, block-printing, needlecraft, etc. The student may choose the craft in which he wishes to work. P, design labc or some training in drawing and design and the permission of the instructor. Six hours of laboratory a week for each credit. One or two credits. L, 10-11 MTTF, 10 W (*3). Laboratory fee, 50 cents.

42 Art Appreciation II. Contemporary American Painting. A study, somewhat in detail, of the art of a particular period. Lectures will be illustrated and each student will be expected to own a small collection of prints. P, 27 suggested. One credit. Two recitations a week. R (*2).

Botany

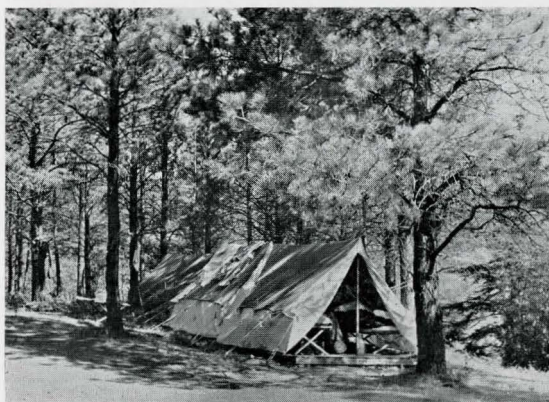
Professor Miller, Assistant Professor Snyder

2c Botany of the Plant Kingdom. A rapid survey of plant groups more primitive than seed plants. The purpose is to gain a systematic acquaintance with the variety of plant types. Open to all students. Four lectures and two three-hour periods in the laboratory or field a week. Three credits. R, 9 TWTF, L, 1,2,3 TT. Laboratory fee \$3. Mr. Miller.

21 Local Flora. Classification and identification of plants in the vicinity of Brookings. The chief aim is to develop such facility in the use of field manuals that familiarity can be acquired with other flora as well as with our own. Lectures deal with principles of classification. A year of collegiate botany is desirable as an antecedent to this course. Three lectures and three three-hour periods in the field a week. Three credits. R, 8 MWF, L, 1,2,3 MWF. Laboratory fee \$1. Mr. Miller.

121 Flora of the Black Hills. A field-laboratory course in the taxonomy and ecology of the Black Hills flora. The six weeks period of the summer school will be spent in camp in the Black Hills and the entire time devoted to botanical study. Prerequisite, one year of collegiate botany. A maximum of nine credits may be earned toward graduation. (Those interested should write to the Botany Department for detailed information as to expense, transportation, equipment, etc.) Mr. Snyder.

* Time to be arranged.



Black Hills Botany Camp

141a, or b, or c Plant Morphology. One term's work will be given according to the demand for the fall, winter, or spring course. A detailed comparison in matter of development, adult structure, and reproduction of representative forms chosen from the principal orders of great plant groups. Four lectures and four three-hour laboratory periods a week. Four credits. R, 10 TWTF, L, (*12). Laboratory fee \$3. Mr. Miller.

Chemistry

Professors Guss and Webster

1a Inorganic Chemistry. First term in Chemistry. Study of chemical laws and theories and non-metallic elements. P, freshman standing. Four credits. R, 8 daily, 7 W; L, 1,2,3, TT. Laboratory fee \$3, deposit \$3. Mr. Guss.

1c Inorganic Qualitative Analysis. Analysis of common inorganic compounds. Systematic study of the metals. P, 1b. Four credits. R, 7 MTTF; L, 1,2,3 MTTF. Laboratory fee \$3, deposit \$3. Mr. Guss.

21 Elementary Organic Chemistry. A study of the compounds of carbon with emphasis on those of especial interest to students of agriculture and general science. P, 1c. R, 7 daily, 8 F; Sec. 1*; Sec 2, 1,2,3 MTWT. Laboratory fee \$6, deposit \$5. Mr. Webster.

173 Undergraduate Research. Special problems requiring original research. P, consent of instructor. Credit arranged. Laboratory fee \$1.00, deposit \$1.00 per credit hour. Mr. Guss.

174 Biochemical Research. Research problems in applied biochemistry. P, consent of instructor. Credit arranged. Laboratory fee \$1.00, deposit \$1.00 per credit hour. Mr. Anderson.

Other courses regularly scheduled in the catalog will be offered if the demand is sufficient and the limited staff permits.

* Time to be arranged.

Education and Psychology

Professor Wiseman, Assistant Professors Bentley, Martin
Professor Compton

45 Educational Psychology. Deals with original nature, learning, transfer, mental fatigue, individual differences, etc. Required for General High School certificate. P, Psy. 25. Three credits. R, 8 daily. Mr. Bentley.

47 Methods of Teaching in High Schools. Deals with various problems of selection, organization, presentation of subject matter and measuring results in high school classes. Required for General High School certificate. P, Psy. 25, Ed. 45. Three credits. R, 7 daily. Mr. Martin.

137 Educational and Vocational Guidance. Deals with both educational and vocational guidance. Needs, aims and functions, means and methods. Study of principles and practices. Study of suitable programs of guidance in junior and senior high schools. P, 40, 45, 47. Three credits. R, 9 daily. Mr. Compton.

160 Public School Administration. Study of the organization and administration of the school system in state, county and various types of school districts. Consideration of work and responsibilities of State Department of Public Instruction, the County Superintendent, school boards, superintendents, principals, teachers and public. P, 40, 45, 47. Three credits. R, 9 daily. Mr. Wiseman.

176 Seminar in Agriculture Education. Problems dealing with instruction in vocational agriculture especially in South Dakota. Readings and studies. P, 70, 71, 73. Four times a week. Two credits. R (*). Mr. Bentley.

220 Organization and Administration of Elementary Education. Deals with problems of the superintendent in organizing and administering the work of the elementary school. P, 160 and graduate standing. Three credits. R, 10 daily. Mr. Martin.

260 Principles of Supervision. Deals with the scientific supervision of teachers, the planning and organization of supervision, studies of supervisory functions; rating of teachers, evaluation of supervision. P, 160 and graduate standing. Three credits. R, 8 daily.

273 Supervised Farm Practice and Future Farmer Program Building. Deals with the various problems of the agriculture instructor in making supervised farm practice and future farmer organization integral parts of the program of work of a department of vocational agriculture. Special attention given to the needs of the farm boys. Three credits. R, 10 daily. Mr. Bentley.

285 Thesis in Education. Mr. Wiseman. *.

Short Course for Teachers of Vocational Agriculture. Last three weeks of summer session. For Education course see 176 Agric. Ed. Seminar. Prof. R. R. Bentley in charge.

* Time to be arranged.

PSYCHOLOGY

171 Psychological Tests and Measurements. A study of the instruments of measurement in psychology and their application to the measurement of intellectual qualities, special talents, industrial and personnel problems, the more general traits of personality, and the physiological components of behavior. P, 25,45. R, 11 MTTF. (*1). Fee \$1.00. Mr. Compton.

Engineering Shop

(See also Agricultural Engineering & Mechanical Engineering)

Professor Hoy

2a Machine Shop. A study of equipment and tools used in machine shop work, methods of laying out work, elementary principles of machine and bench work, and problems involved in the use of machine tools. Open to any one interested. One to three credits. *. Laboratory fee \$1.50 per credit.

2b Machine Shop. A continuation of work begun in 2a, with special attention given to accuracy of work and methods for securing best results. Shop drawing, reading and working out of small shop projects. P, 2a. One to three credits. *. Laboratory fee \$1.50 per credit.

English

Professor Smock

1c English Composition.¹ This is the third term of the course required of all freshmen. Three credits. R, 11 MTTF, L (*2).

* Time to be arranged.



The Chemistry Building

20 Introduction to Literature.¹ This course includes a study of the principal literary types—fiction, drama, essay, biography, and poetry. Although primarily a literature course, a great deal of attention is given to composition also. P, 1abc. Three credits. R, 10 daily.

60 Shakespeare.¹ A study of nineteenth century literature. Time is also given to the life of Shakespeare, the Elizabethan theatre, and the characteristics of the period. Three credits. R, 9 daily.

102 Social Ideals.¹ A study of nineteenth century literature with emphasis on the important political and social concepts, such as liberty, democracy, socialism, Hebraism, and Hellenism. The course is designed to give a background for understanding the present clash of ideologies. Credit in this course may be counted toward a major or minor in history. P, one course in English literature or English history. Three credits. R, 8 daily.

1. The three courses having the largest enrollment will be offered.

Entomology-Zoology

Miss Hartwig

21 Human Physiology. The fundamental processes of the human body are studied. Modern equipment such as kymographs, sphygmomanometers, hemocytometers, etc., are used in some of the physiological studies. Three credits. R, 10 TWTF, L, 1,2,3 TT. Laboratory fee \$1.

42 Genetics. This course embraces a general discussion of genetics. A study is made of the origin of the germ cells, the germ cycle, embryological development as determined by heredity and modified by environment, the relation of the chromosome material to genetics, the theory of the gene, linkage, crossing-over, non-Mendelian inheritance, experimental evolution and related phenomena. P, 1abc or 20ab. Three credits. R, 8 daily.

201 Special Problems. Individual problems in parasitology, physiology, genetics, histology, embryology, evolution, or history of zoology, to be arranged with instructor. For prerequisites, consult instructor. One, two, or three credits.

History and Political Science

Professor Harding, Assistant Professor Volstorff

23b American History. The new democracy; the sectional conflict involving the question of state or federal power; the Civil War. The United States from 1829 to 1865. P, Sophomore standing. Three credits. R, 9 daily. Mr. Harding.

44a American Government. A general survey of the principles and practices of the national government. The genesis of American federalism; the drafting of the Constitution, its principles and development; the suffrage; party organization and activities; the President as chief executive; growth of executive power and influence; the cabinet; the executive depart-

* Time to be arranged.

ments and civil service; administrative reorganization; Congress—structure, organization and procedure; the national judiciary; federal centralization. P, Sophomore standing. Three credits. R, 7 daily. Mr. Harding

142c Contemporary Europe. A political, diplomatic and economic survey of post-war Europe including studies of communism, fascism, contemporary democracies and dictatorships. Special emphasis will be given to the period since 1930 and such crises as the Italo-Ethiopian war, the Spanish Civil War, the conflict in the Far East, the German absorption of Austria, the "peace of Munich" and its aftermath. P, Junior standing and one year of college history or the consent of the instructor. Three credits R, 10 daily. Miss Volstorff.

Home Economics

Professor Pierson, Assistant Professors Rosenberger, Rosenquist

30 Clothing. Development of the foundation pattern, flat pattern construction, and the selection and construction of a garment. Emphasis on selection of design and color to express individual personality. Three credits. R, 8 MW, L, 10 MF, 11 M, 1,2,3 TT. Laboratory fee \$1. Miss Rosenberger.

72 Home Management Practice. Six weeks in the home management house, with various household management problems. P, Junior standing. Three credits. L *. Miss Pierson.

144 Advanced Clothing. Application of principles of costume design to promote more independence, initiative, originality and art in planning and adapting garments for different types of figures. Laboratory practice to include remodeling and construction of garments in materials presenting special problems. Three credits. R, 9 TT, L, 1,2,3 MWF. Laboratory fee \$1. Miss Rosenberger.

146 Methods of Teaching Clothing. Analysis of clothing problems; making illustrative material for Clothing courses. Two credits. R, 9 MW, L, 10,11 TT, 10 W '1*). Miss Rosenberger.

160 Experimental Cookery. Investigation of factors which affect standard food products by laboratory experiments and a review of the literature on research in cookery. Two credits. R, 10 MW, L, 1,2,3 MW. Laboratory fee \$4. Miss Rosenquist.

166 Textile Economics. A study of the economic aspects of clothing which directly or indirectly affects the consumer. Three credits. R, 7 daily. Miss Rosenberger.

174 The House. Problems in planning and furnishing a medium priced house from the standpoint of economy, comfort and beauty. Three credits. R, 11 MTTF, L, 1,2,3 F (*3). Miss Rosenquist.

263 Research in Foods and Nutrition. Feeding experiments with animals as a basis for determining the biological value of foods. For prerequisites consult advisers. L *. Miss Pierson.

* Time to be arranged.

Library Study

Mr. Stallings

60 School Libraries. Designed for those teachers who may be called upon to take charge of the High School library. The various steps in the administration of a school library will be emphasized. Two times a week. One credit. R *. Mr. Stallings.

Mathematics

Associate Professors MacDougal, Walder

14 College Algebra. Elementary topics, functions and their graphs, review of quadratic equations, complex numbers, permutations and combinations, probabilities, partial fractions and determinants. P, high school mathematics. Five credits. R, 7,8 daily. Mr. Walder.

15 Trigonometry² The functions of acute angles, the solution of right triangles, the solution of the oblique triangle, general applications of trigonometry. P, one year of plane geometry and one and one-half years of high school algebra. Five credits. R, 9,10 daily. Mr. Walder.

16 Analytic Geometry.² Coordinate systems of the second degree. P, a course in college algebra and trigonometry. Five credits. R, 9,10 daily. Mr. Walder.

25 Differential Calculus.³ The derivatives of algebraic trigonometric, logarithmic and exponential functions, with application to tangents, normals, maxima, and minima, curvature and singular points. P, analytic geometry. Five credits. R, 9,10 daily. Mr. MacDougal.

26 Integral Calculus.³ Integration of standard forms, definite integrals, application of problems involving areas, lines, surfaces and volumes. Five credits. R, 9,10 daily. Mr. MacDougal.

105 Mathematical Statistics. For graduates and undergraduates. The use and mathematical derivation of the simpler formulas and constants customarily applied in the analysis of data in the mass. P, permission to register from the instructor. Three credits. R, 8 daily. Mr. MacDougal.

141 Theory of Equations and Determinants. A study of the theory of determinants, complex numbers, DeMoivre's Theorem, cubic and biquadratic equations. P, analytic geometry. Three credits. R, 7 daily. Mr. MacDougal.

1. Credit in courses 25 and 26 may be applied toward a graduate minor.
2. Of courses 15 and 16, the one enrolling the larger number of students will be given.
3. Of courses 25 and 26, the one enrolling the larger number of students will be given.

* Time to be arranged.

Mechanical Engineering

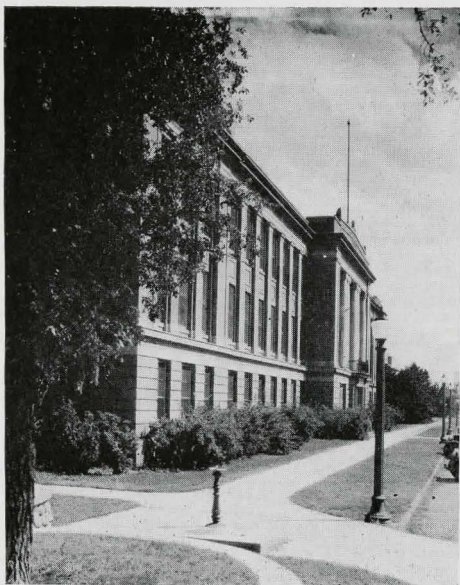
Assistant Professor Aldrich

(Note. It is the purpose to adapt the drawing and sketching to the needs of the student. Choice will be made from courses listed.)

3ab Engineering (or Mechanical) Drawing. Instruction and practice in the care and use of drawing instruments. Exercises in geometrical problems, castings and machine parts to familiarize the students with the conventional methods of representation and dimensioning in mechanical drawings. Exercises may be adjusted to suit the desires of mechanical drawing teachers or industrial arts students. One to three credits. Six hours of drawing room practice per week for each credit. L, 9,10,11 MTTF, 1,2,3 WF.

4abc Architectural Drawing. Rendered drawings of simple buildings including floor plans, elevations, display or perspectives and building details. Open to all students who have had some mechanical drawing. One or two credits. Six hours of drawing room practice per week for each credit. L, 9,10,11 MTTF, 1,2,3 WF.

5 Descriptive Geometry. Instruction in the graphical method of representing all geometric magnitudes, such as points, lines, planes and solids. Exercises applying the theory to mine problems, drainage, intersecting figures, pattern layout of sheet metal work and pictorial drawings of objects. P, Plane Geometry. Two credits. Twelve hours per week in recitation and drawing work. L, 1,2,3 MTTF.



Administration Building

21 Technical Sketching. Development of technique and skill in freehand drafting. Exercises in measuring, proportioning and simple rendering for the various projection methods, applied to geometrical figures, machine parts, movements, ideas, buildings and landscapes. Open to all students who have had some mechanical drawing. One or two credits. Six hours of drawing room practice per week for each credit. R, 8,9 daily.

27 Mechanism. Elements of machinery, velocity, ratios, graphic study of velocity and acceleration, motion transmitters, such as gears, belts, cams, screws, link work, automatic feeds, straight line and quick return motions. P, Plane Trigonometry. Five credits. Six recitations and twelve hours per week of drawing room practice. R, 7 daily, 1 W, L, 1,2,3 MTTF.

Music

Professor Christensen, Associate Professor Peterson
Assistant Professor Theman

A summer school chorus will be organized by Mr. Theman and a symphony orchestra and also a band will be organized by Mr. Christensen if organization permits. Choral and band conductors will have opportunity to direct both groups.

All members of the music staff will teach during the summer session, giving private lessons. There are no classes. Credit may be earned.

A resolution of the Regents adopted March 18, 1933, provided that students may study music for college credit if at the same time they pursue an equal number of hours in some other subjects unrelated to music. All members of the music staff are free to give individual lessons.

Fees for the Term

One individual lesson per week.....	\$ 6
Two individual lessons per week.....	12

Pharmacy

Professor LeBlanc

143a Toxicology. A systematic physiological and chemical study of the more common poisons, together with nature, effects, and antidotes for same. Lectures will also be given concerning the medico-legal aspect. P, first and second year pharmacy courses. Text and references: Autentrieth's Detection of Poison; Holland's Toxicology; Sollman's Manual of Pharmacy; Howell's Physiology; Potter's Therapeutics and Materia Medica; Journal of Experimental Medicine. Four credits R, 9 MTTF, L, 10,11 MTTF. Laboratory fee \$3, deposit \$3.

143b Toxicology. As described in the general catalog this course will be offered during the session of 1941. *.

Other courses of graduate character regularly offered by the department will be given if there is sufficient demand for the work.

* Time to be arranged.

Nursing Education

Professor Krause

2a Nursing Arts. A course consisting of lectures, demonstrations, and practice periods dealing with nursing procedures. After the freshman student has acquired sufficient skill the course is supplemented with supervised practice periods in the hospital. Five lectures and fifteen hours of laboratory a week. Five credits. R, 8 daily. Laboratory fee \$3.00.

23a Nursing Arts. A continuation of 2a given after sophomore year. Five lectures and fifteen hours of laboratory work a week. Five credits. R, 9 daily, L, * daily. Laboratory fee \$3.00.

81 Nursing Education. A survey course introducing the student to the work of the school of nursing as a whole. It includes the historical development of schools of nursing, their organization, educational objectives, the content of the educational program and the essentials for efficient operation. Required of all students with a major in nursing education. P, or parallel Educational Psychology. Three credits. R, 10 daily.

92 Principles and Methods of Teaching in School of Nursing. A course dealing with the general problem of teaching and supervision in schools of nursing. Emphasis is placed upon the application of the principles of education and teaching to the various groups in the curriculum. P, or parallel 81. Three credits. R, 11 MTTF. (*1).

93 Supervised Student Teaching. This course provides an opportunity for the graduate student to gain some practice in teaching nursing subjects. The course consists of observation of teaching, conferences, discussions, and classroom teaching under supervision. Senior year. P, 81, 92, 100. Three credits. R, 8 or 9 daily. L*. Laboratory fee \$1.00.

Physical Education, Men

Mr. Emmerich

42 Basketball Coaching. A thorough study of both the theory and practice of individual and team plays; the proper technique for the extension of the fundamentals of basketball; the theory of offensive and defensive team plays. Eight hours a week for first three weeks. Two credits. R, 10, 11 MTTF.

50 Athletic Conditioning and Training. General care and treatment of athletic injuries, training rules, conditioning and training, equipment of training room, types of taping for athletic injuries. Minimum of ten hours of laboratory work in taping required. Notebook required. This course is essential for men going out into the coaching field who will be responsible for injuries incurred in competitive athletics. Two credits. R, 9 MTWT.

61 Organization and Administration of Physical Education. Brief history and principles of past and present physical education programs; aims and objectives of physical education; curriculum content and construction; professional attitudes and ethics; administration of facilities; equipment and supplies. Two credits. R, 8 MTWT.

* Time to be arranged.

62 Football Coaching. A thorough study of rules and theory of both offensive and defensive play and strategy; the correct technique and the execution of the fundamentals of the game. Eight hours a week for three weeks. Two credits. R, 10, 11 MTTF. Last three weeks.

Swimming. $\frac{1}{2}$ credit. L 10 TT.

Physical Education, Women

Assistant Professor Kendall

1ab or c Physical Education. Tennis, tap dancing, badminton, golf. Activity to be selected according to individual needs of student. One credit. R, 10 TT, L, (*).

20ab or c Physical Education. Tennis, badminton, golf. Activity to be selected according to individual needs of student. One credit. R, 9 TT, L, (*).

40 Physical Education. The theory and practice of organized play. One credit. R, 11 TT, L, (*).

61 Organization and Administration of Physical Education. (As described under courses for men.)

Swimming. $\frac{1}{2}$ credit. Mr. Barnes.

Physics

Professor Reinhart

21abc General Physics. Mechanics of solids and fluids; sound; heat; electricity and magnetism; light; modern physics. P, high school algebra and plane geometry. Four credits. R, 7 daily, L, (*6). (May be taken without laboratory work—three credits). Laboratory fee \$2.

50abc Advanced General Physics. This course is designed as a second year's work in general physics. General topics in the fields of mechanics, heat, electricity, sound, light and modern physics are considered. P, 21abc (or the equivalent) and Math 26. Four credits. R, 8 daily, L, (*6). (May be taken without the laboratory work—three credits). Laboratory fee \$2.

Of courses 21a, 21b, or 21c the course enrolling the largest number of students will be given. Of courses 50a, 50b, or 50c the course enrolling the largest number will be given.

Poultry Husbandry

Mr. Poley

201 Poultry Research Problems. For advanced undergraduate and graduate students desiring further studies and research either in poultry nutrition, management or marketing. A suitable problem for investigation may be assigned for work toward the Master's degree, thus affording an opportunity to obtain either a major or a minor in some branch of Poultry Husbandry. *

* Time to be arranged.

Printing and Rural Journalism

Professor Donelson, Assistant Professor Straw, Mr. Hepner,
Mr. Harding, Mr. Hollen, Mr. Evenson, Mrs. Korstad

16s Typewriting. Keyboard practice; use and care of machines. Six hours at machine required per week. One credit. R, 8 daily (*1). Mrs. Korstad.

18s Shorthand. For beginning students. Gregg system. Five credits. R, 9,10 daily. Mrs. Korstad.

19s Shorthand. P, one year of shorthand. Two credits. R, 11 MTTF. Mrs. Korstad.

Journalism

Publicity Methods. A course for students expecting to become county agents, home economics teachers or vocational agriculture teachers. Newswriting, agricultural advertising, circular letters and other problems are studied. Three credits. R, 8 daily. Mr. Donelson.

Journalism for Teachers. Designed primarily for high school and grade teachers who supervise school papers. Two credits. R, 9 MTWT. Mr. Hepner.

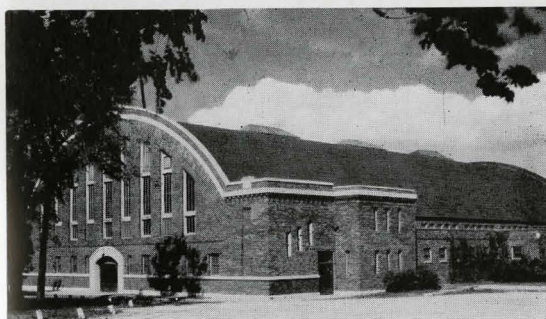
Printing

Shop Courses for Printers. Special shop courses are offered only during the summer session in presswork, typography, and composing machines for men and women of the printing trades who wish to develop their skill in the various shop phases of printing. No entrance requirement is necessary other than previous experience in one of the printing trades.

Typography. Principles of typography are given to beginning students, including all the elements of hand composition. Laboratory fee \$1.50 per credit. Six hours per week for each credit. L *. Mr. Hollen.

Composing Machines. The course in composing machines includes practice and study in the repair and mechanical adjustments of the composing machines including both Linotype and Intertype. Six hours per week for each credit. L, *. Laboratory fee \$2.50 per credit. Mr. Harding.

* Time to be arranged.



State College Armory

Presswork. The student may take either platen presswork or cylinder presswork, or both. Laboratory fee \$2 per credit. Six hours per week for each credit. L, *. Mr. Evenson.

Rural Sociology

Assistant Professor Slocum

20 Principles of Sociology. A basic introductory course prerequisite to all other sociology courses numbered above 20. A comprehensive study of society, with an analysis of the forces shaping human behavior in group life. P, sophomore standing. Three credits. R, 10 daily.

145 Population Problems. The factors involved in the declining birth rate; the eugenic, cultural and social problems arising from differential rates of natural increase; migration as a factor in American and international affairs; and the elements of population policy. P, 20. Three credits. R, 8 daily.

171 Social Legislation. The principles underlying past and present legislation concerning marriage and divorce, birth control, sterilization, child welfare including adoption, illegitimacy, and the juvenile court, and the various classes of dependents provided for in the Social Security Act. Three credits. R, 7 daily.

Speech

Professor McCarty

21a Extempore Speaking. Required of all candidates for degrees. The purpose of the course is to assist the student in acquiring an effective oral style—simple, clear, direct. Attention to selection and organization of material. Weekly extempore speeches are required. Sections limited to twelve. Three credits. R, 8 daily.

23a Oral Reading and Interpretation of Literature. A study of expression of thought and emotion based upon literary forms. Intended to develop skill in the oral interpretation of emotional and imaginative literature. Especially adapted to the needs of those interested in teaching English and Speech. Three credits. R, 9 daily.

43 Public Address — Practical Persuasive Speech. This course, during the summer term will be planned with special attention to the interests of two groups: those who expect to teach speech in high school and those who are primarily concerned with the matter of personal speech improvement. Practical experience in speaking will serve as a laboratory for the study of personal and classroom problems. Three credits. R, 11 MTTF. (*1).

* Time to be arranged.



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