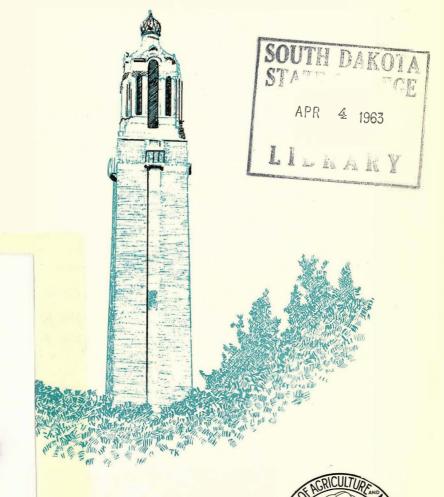
SOUTH DAKOTA STATE COLLEGE

# 1963 SUMMER SESSION

EIGHT-WEEK TERM JUNE 11 TO AUGUST 2 -- FIVE-WEEK TERM JUNE 11 TO JULY 12



BROOKINGS

v.55 no.3 March 1963 c.2

So87.1

WORKSHOPS
GRADUATE WORK
UNDERGRADUATE COURSES
COURSES IN SPECIALIZED FIELDS
SPECIAL COURSES FOR TEACHERS



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#### SOUTH DAKOTA STATE COLLEGE

OF AGRICULTURE AND MECHANIC ARTS
COLLEGE STATION, BROOKINGS, SOUTH DAKOTA

# 1963

# summer session bulletin

#### 1963 SUMMER SESSION ADMINISTRATION

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RAYMOND Y. CHAPMAN, M.A., Dean, Student Personnel

D. B. Doner, B.S., Director, Admissions and Records

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VIVIAN V. VOLSTORFF, Ph.D., Dean of Women

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WESLEY A. BUGG, B.S., Director of Finance

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# general information

THE STATE COLLEGE regular Summer Session for 1963 will be an eight-week period opening on June 11 and closing on August 2. However, there will be many courses offered during a five-week period June 11 to July 12. There will also be a variety of important workshops offered for short periods during the summer term.

Registration will be on Tuesday, June 11, 8:00 a.m. to 12:00 noon. Students should register at that time and be ready to start classes on Tuesday at 1:00 p.m. Students should plan to arrive in Brookings in time to arrange for living quarters before school opens.

The eight-week summer session has been arranged to be of maximum benefit to teachers, students who are now enrolled in colleges, and high school students who wish to begin their college work. Courses will be offered in all six divisions of the College—Home Economics, Science and Applied Arts, Agriculture, Engineering, Pharmacy, and Nursing.

The normal load for students in the eightweek session will be twelve quarter hours of credit. For those who enroll for only the five-week period, the normal load will be nine quarter hours.

Students wishing to study courses not listed in the Summer Session bulletin, should write to the Director of Summer Session to determine whether special provision for studying these subjects might be made.

The college reserves the right to withdraw any courses for which there is not sufficient demand.

#### Who Can Benefit by Attending Summer School

Teachers in public schools who wish to broaden the field of their teaching qualifications will find many suitable courses on the schedule at State College this summer. Teachers who wish to earn a higher certificate or a higher degree will find many courses on advanced levels in the Summer Session. Those interested in further accelerating their graduate or professional improvement program may find it convenient to enroll in evening and Saturday classes offered

on campus during the regular academic year.

There will also be programs for those who wish to earn credit for certificate renewal and there will be programs for those who wish to branch out into other fields.

Licensed Professional nurses who teach in hospital schools of nursing or who are in supervisory positions or in public health nursing will have an opportunity to select a number of courses applicable to their field of work from the offerings of nursing and the other divisions. Credits can be applied toward a baccalaureate degree in nursing.

High School students may wish to begin their college work immediately following their high school graduation. Present national security plans make it desirable for some students to get as much college training as possible before they are called into the service of our country. Beginning courses for high school graduates will be available.

It is particularly desirable for students planning technical training fields such as engineering or pharmacy who may not have had required mathematics courses, to register for summer school and make up such deficiencies.

Students of high ability may, by careful selection of courses, accelerate their college career and complete the requirements in approximately three calendar years.

College students who wish to accelerate their programs, or have been unable to take certain required courses during the college year, may find the courses which they need listed in this bulletin.

#### **ADMISSION**

A student entering directly from high school should request the principal to send a transcript of his records to the office of Admissions and Records at State College before registration. A candidate for entrance to the Freshman class must present at least fifteen units of high school credit. A student who presents fourteen units may be admitted as a conditional freshman, but must earn the additional unit in college before the close of his first year.

#### HOUSING

Several furnished apartments for married students are available on the campus. Some of these are rented as sublet units from student occupants; others rent furnished directly from the College Housing Office. Rentals range from \$50 to \$70 depending upon the size and type of apartment. Persons interested in such accommodations should write to the Director of Student Housing, State College.

Women students who are not residents of Brookings are required to live in women's residence halls unless permission to live elsewhere is granted by the housing committee.

Single men students of Freshman or Sophomore standing are required to live in college men's residence halls. Rooms are available for all other men students also.

The charge for rooming in the college residence halls will be \$6.00 per week. There is a \$10.00 breakage deposit on all residence hall rooms. The unused portion of the deposit will be refunded at the end of the Summer Session. Advanced room reservations should be made for the regular Summer Session and for all workshops. Women should write for room reservations to the Dean of Women and men to the Director of Student Housing.

Students who live in residence halls will need to furnish a mattress pad, pillow and blankets for a single bed. Students may provide all other linens necessary but a rental linen service is available near campus which provides two sheets, one pillow case, and three bath towels per week at a very nominal charge. Study lamps need to be provided by the students in women's halls.

Workshop room rentals will be based on \$4.00 for the first night and \$2.00 for each succeeding night with linens furnished. If students wish they may furnish their own linens in which case the rental is \$2.00 for

the first night and \$1.00 for each succeeding night.

Meals are available at the New Men's Dining Hall as well as at restaurants near the campus. The cost of meals is estimated at \$12.00 per week.

#### **EXPENSES**

Costs are relatively low at State College. The following tabulations show tuition and fee charges for the eight-weeks, five-weeks, workshops, short courses, and part-time work during the 1963 summer session.

All applicants who are not former students at State College must pay a \$5.00 Matriculation Fee. This must accompany the Application for Admission and is not refunded if the applicant is accepted.

#### **TUITION AND FEES**

1963 Eight-Weeks Summer Sesion (11, 12, and 13 hours)

| (11, 12, and 13 nou       | rs)        |              |
|---------------------------|------------|--------------|
|                           | In-State   | Out-of-State |
| Tuition                   | \$64.00    | \$96.00      |
| General College Fee       | 10.00      | 10.00        |
| Student Activity Fee (All |            |              |
| dents in regular Summ     | ier        |              |
| Session)*                 | 4.00       | 4.00         |
| Student Union Fee (All st |            |              |
| in regular Summer         |            |              |
| Session)*                 | 4.75       | 4.75         |
| Matriculation Fee (New    |            |              |
| dents only)               | 5.00       | 5.00         |
| Late Registration Fee     |            | 10.00        |
| Alumni Fee                |            | .50          |
| 1963 Five-Weeks Su        |            |              |
|                           |            | 31011        |
| (8, 9, and 10 hours)      |            | #c0.00       |
| Tuition                   | \$40.00    | \$60.00      |
| General College Fee       | 7.00       | 7.00         |
| Student Activity Fee (All | stu-       |              |
| in regular Summer         |            |              |
| Session)*                 | 4.00       | 4.00         |
| Student Union Fee (All st |            |              |
| in regular Summer         |            |              |
| Session)*                 | 4.75       | 4.75         |
| Matriculation Fee (New    | stu-       | - 00         |
| dents only)               |            | 5.00         |
| Late Registration Fee     | 10.00      | 10.00        |
| Alumni Fee                |            | .50          |
| 1963 Workshops, S         | hort Cours | es,          |
| and Part-Time*            |            |              |
| Tuition and General Coll  | ege        |              |
| Fees per credit           | \$ 7.00    | \$ 9.50      |
| Matriculation Fee (New    | stu-       | Ψ >.>0       |
| dents only)               | 5.00       | 5.00         |
| Late Registration Fee     |            | 10.00        |
|                           |            | 20.00        |

<sup>\*</sup>Students enrolled in a regularly scheduled Summer Session course must pay the Student Activity Fee of \$4.00 and the Student Union Fee of \$4.75.

#### **GRADUATE WORK**

The College offers many opportunities for research and for course work beyond the Bachelor's degree. Credits earned in such advanced work may be applied toward the degree of Master of Science, Master of Education or Doctor of Philosophy. The student is referred to the Graduate Bulletin for details concerning graduate work. The Graduate Bulletin is available upon request from the Graduate Division.

Of courses listed in this bulletin, those numbered 200 or above are at the graduate level and are not open to undergraduates. Courses numbered 140 through 190 are open to advanced undergraduates as well as graduates. However, in order to receive graduate credit in such courses (140-199) it is required that graduate students do considerably more work, (approximately 25% more) than undergraduates for the same bookcredit.

#### **Graduate Credit**

For the Master of Science Degree. Forty-five quarter credits of graduate work constitute the minimum credit requirement for the Master of Science degree. At least 30 credits must be in the major field and 15 in the minor or in supporting courses.

For the Master of Education Degree. Either 45 or 48 credits are required for the Master of Education degree, depending upon the option chosen. Options are explained in the Graduate Bulletin. At least 15 credits must be earned in the minor or supporting courses, and 30 or 33 in the major.

For the Ph.D. Degree. An Advisory Committee, together with the student works out a plan of study. About one-fourth of the graduate program must be done outside the major department. Such courses may be either a single major or related courses in more than one department.

#### Scholarship

Grades in all work submitted for an advanced degree must average "B" or better, and no credit will be given for a grade below "C."

#### **Transfer of Credit**

Toward the Master's Degree. Graduate credits earned in other institutions may be accepted if they have been approved by the departments concerned and if they were earned at a grade of "B" or better. Such transfer is limited to ten credits in the major and five credits in the minor or supporting courses.

Toward the Ph.D. Degree. Transferred graduate credits will be evaluated by the Advisory Committee of the student, and his program adjusted accordingly.

#### **Time Limit**

If the requirements for a Master's degree are not completed within a period of six years, or for a Ph.D. within a period of eight years, a reconsideration of the student's program will be necessary. Courses that have been outdated may be repeated for credit; or if the departments concerned approve other courses now current may be substituted for them. In some instances a comprehensive examination over an outdated course may satisfactorily bring the subject matter up to date.

#### **ACCREDITATION**

The College is accredited by the North Central Association of Colleges and Secondary Schools, the National Council for the Accreditation of Teacher Education, and a member of the North Central Conference on Summer Schools.

#### **FACULTY**

The teaching staff for the 1963 summer session will consist largely of the regular faculty of the College, plus a number of visiting instructors who will be called in to offer instruction in certain specialized courses.

#### SENIOR AND ALUMNI EMPLOYMENT

The placement office assists graduating seniors and alumni in finding permanent full-time employment in fields other than teaching. Its chief function is to help qualified candidates obtain permanent employment or promotion in the work for which they have prepared themselves. Alumni are

eligible to use the services of this office for consultation and placement at any time.

#### **EDUCATIONAL PLACEMENT BUREAU**

The College has an Educational Placement Bureau for alumni and former students who wish help in locating suitable teaching positions. The Bureau is operated by the Department of Education. Teachers who desire to have the employment bureau notify them when suitable vacancies occur may register with the Bureau during the Summer Sessions.

#### RECREATION AND SOCIAL ACTIVITIES

A program of organized social activities and recreation has been arranged to provide

maximum entertainment and relaxation for Summer Session students. The program will be varied in nature and activities of interest to all groups have been arranged. Activities of a social nature will include picnics and coffee hours. Tennis courts, baseball diamonds, equipment for archery, and other sports will be available for students' use. Students with activity tickets will be allowed to use the golf course located north of the College campus and farm. The beautiful Municipal swimming pool will also be available to holders of Summer Session activity tickets.

An outstanding convocation program of professional entertainment is planned in the fields of art, music, and dramatics. Several movies will be shown. There will be a Sunday evening vesper service.

### Abbreviations used in this catalog

#### DIVISION AND DEPARTMENTAL ABBREVIATIONS

AE, Agricultural Engineering Ag, Agriculture AgEd, Agricultural Education AgExt, Agricultural Extension Agron, Agronomy AS, Animal Science Bac, Bacteriology Bot, Botany CD, Child Development CE, Civil Engineering

Ch, Chemistry
CN, Clinical Nursing
DS, Dairy Science

Econ, Economics
Ed, Education

EE, Electrical Engineering Engl, English

Ent, Entomology
ES, Enginering Shops
FL, Foreign Language
FN, Food and Nutrition

Ger, German
GN, General Nursing
GR, General Registration
GS, General Studies
HE, Home Economics
HEd, Home Economics Education

GE, General Enginering

HEd, Home Economics Education Hist, History HM, Home Management

Ho, Horticulture IAE, Industrial Arts Education J, Journalism

Lib, Library MA, Mechanized Agriculture

Math, Mathematics
ME, Mechanical Engineering

Mil, Military Mus, Music N, Nursing

Fr, French

Path, Plant Pathology

PE, Physical Education PS, Poultry Science

Pha, Pharmacy PHN, Public Health Nursing

Phy, Physics
PJ, Printing and Journalism

PM, PrintingManagement PolS, Political Science Psy, Psychology

Run, Rural Nursing RS, Rural Sociology Rus, Russian

SAA, Science and Applied Arts SecS, Secretarial Science

Sp, Speech Span, Spanish SS, Social Science TC, Textiles and Cloth

TC, Textiles and Clothing Vet, Veterinary Science Z, Zoology

#### MISCELLANEOUS ABBREVIATIONS

\*Time and/or credit arranged Cr. Credit F, Fall Quarter

L, Laboratory
MTWTFS, Days of week
P, Prerequisite

R, Recitation S, Spring Quarter Su, Summer Quarter W, Winter Quarter

SPECIAL NOTICE: Classes will not be held on Friday, July 5. All classes scheduled for the above date will be held on Saturday, June 29.

# DIVISION OF Agriculture

(The College reserves the right to withdraw any courses for which there is not sufficient demand)

#### **AGRONOMY**

192 Crop and Soil Problems 2 Cr. (8 weeks)\*
Assigned readings, research reports and discussion.

299 Thesis in Agronoy 2-5 Cr. (8 weeks)\*
As arranged.

#### ANIMAL SCIENCE

66 Livestock Problems 1-5 Cr. (5 or 8 weeks)\*

Specific problems in the field of livestock production. A maximum of five credits will be allowed for this course. P, senior standing and consent of instructor.

#### 145 Range Surveys 4 Cr. (4 weeks)\*

Theory and practice of range surveys as used by various administrative and research organizations for determination of range condition, trend, utilization and recommended stocking rate. Surveys will be conducted by students on various ranches in western South Dakota. P, 144; Bot 23, 36.

#### 147 Field Studies in Range Management 3 Cr.

(3 weeks)\*

An extended field trip for the study of range sites and condition classes in different grazing regions and to examine range research projects and action programs. P, 146.

#### 175 Livestock Feeding 3 Cr. (5 weeks)\*

Application of recent research findings in the feeding of swine, cattle, and sheep. P, 26 or equivalent.

#### 201 Research Problems 3-5 Cr. (5 or 8 weeks)

Graduate students may select a problem in:

- (1) Swine production
- (2) Beef cattle production
- (3) Sheep production
- (4) Range livestock production
- (5) Animal breeding
- (6) Meats
- (7) Nutrition
- (8) Livestock

Maximum of five hours credit during graduate study.

299 Thesis in Animal Science 1-10 Cr. (8 weeks)\*
As arranged.

#### BACTERIOLOGY

30 General Bacteriology 5 Cr. (8 weeks) R, MTTF 9—DB 208; L, MWF 10, 11—DB 210 Principles of microbiology and microbiological techniques.

142 Principles of Infection and Immunity 5 Cr. (8 weeks) R, MTTF 8—DB 208; L, MWF 10, 11 Bacterial infection, antibiotics, vaccines. P, 30.

#### 165 Bacteriological Problems 2 Cr. (8 weeks)\*

Individually assigned investigative problems in bacteriology, mycology, or immunology. Individual conferences and laboratory or field work. P, consent of instructor.

299 Thesis in Bacteriology \* Cr. (8 weeks)\*
As arranged.

#### BOTANY

12 General Botany 4 Cr. (8 weeks)

R, MTT 1, AgH 301; L, MTT 2,3, AgH 301

Consideration of those problems of development, adjustment and function which plants must solve if they are to live successfully. Attention given to importance of plants to man's economy. Open to all students.

13 General Botany 4 Cr. (8 weeks)

R, MWF 11, AgH 301; L, TWT 2, 3, AgH 301

Survey of great plant groups, their respective origins, evolutionary contributions, and relative importance in present day vegetation.

24 Field Botany 5 Cr. (8 weeks)

R, MTWTF 8; L, TT 10, 11, AgH 307

Principles and techniques for field study of plants and plant ecology, emphasizing the seed plants.

27 Basic Taxonomy 4 Cr. (8 weeks)

R, MWF 10, AgH 307; L, MWF 2, 3, AgH 307

Principles and techniques for systematic taxonomic study of plants, emphasizing classification, identification terminology, and nomenclature. P, 12.

141 Plant Physiology 5 Cr. (8 weeks)

R, MTWTF 8, AgH 301; L, MW 3, 4, AgH 305

Rapid survey of fundamental plant functions and adjustments. P, 12. Desirable antecedent Ch 3 and 21.

#### 147 Plant Anatomy 5 Cr. (8 weeks)\*

Developmental anatomy of seed plant axis and its appendages. Emphasis on structural fitness of tissues and organs for functions they perform. P, 12.

<sup>\*</sup>Time and/or credit to be arranged.

150 Aspects of Cell Biology 3 Cr. (8 weeks)

MTTF 10, AgH 302

A course for high school teachers in which the fundamental structure and functions of the cell are considered.

181 Botanical Problems\*

Solution of individually assigned investigative problems in botany, making use of techniques acquired in foundation courses. P, adequate background for assigned problem. Individual conferences and laboratory greenhouse or field work.

299 Thesis in Botany \* As arranged.

#### DAIRY SCIENCE

164 Dairy Cattle Feeding 3 Cr. (5 weeks)

MTWTF 9 1 hr\*

Fundamental and practical considerations involved in feeding all classes of dairy cattle. P, 1; AH 25; AH 26 recommended.

299 Thesis in Dairy Science\* Cr. (8 weeks)\*
As arranged.

#### **ECONOMICS**

22 Principles of Economics 3 Cr. (8 weeks)

MTTF 10

Includes supply and demand analysis, the pricing system and market mechanism, different types of markets and managerial decisions peculiar to each type. Last half of course is devoted to international trade and current economic problems. P, 21.

34 Accounting 4 Cr. (8 weeks)

R, MW 10, 11; L, F 10, 11

Basic accounting cycle; accounting statements, balance sheet, profit and loss; adjustments; special ledger.

41 Business Law 3 Cr. (8 weeks) MTTF 9

A study of the nature and classification of the law, the courts, court procedure, personal property, contracts, agency, and wills.

150 Intermediate Economic Analysis 3 Cr. (8 weeks) MTTF 8

Introduction to scope and method of economic analysis. Analysis of pricing process under varying degrees of competitive conditions and the role of price in allocation of resources. Introduction to the theory of income distribution. P, 23.

158 Advanced Farm Management 3 Cr. (5 weeks) MTWTF 9 1 hr\*

Budgeting of farm resources, factors affecting farm and ranch success, government programs and farming adjustments. Special problems in farm planning. Field trips to farms and ranches. P, 38.

#### **ENTOMOLOGY**

99 Special Problems in Entomology 1-3 Cr.

(8 weeks)\*

Qualified students may investigate special entomological problems under supervision of members of departmental staff. Arrangements must be made with supervising staff member prior to registration. Students limited to a total of 3 credits toward graduation in any one, or combination, of the number 99 courses in this department.

299 Thesis in Entomology 1-4 Cr. or more
As arranged. (8 weeks)\*

#### MECHANIZED AGRICULTURE

250 Advanced Farm Machinery 3 Cr. (5 weeks)\*

Operation, care, adjustment, new developments in farm machinery, with special emphasis on teaching methods in high school classes.

#### PLANT PATHOLOGY

146 Field Plant Pathology 3 Cr. (5 weeks)\*

Field trips, recognition, and identification of plant diseases. Recommended P, 45.

198 Special Problems in Plant Pathology

1-5 Cr. (8 weeks)\*

Advanced work or special problems in plant pathology. Credit arranged but limited to a total of six credits for three terms. Open to seniors and graduate students by permission.

210 Research in Plant Pathology 2-5 Cr. (8 weeks)\*

Graduate students may elect to undertake research in plant pathology in consultation with adviser or instructor. Open to graduate students working toward Master's or Doctor's Degree in Plant Pathology.

299 Thesis in Plant Pathology 7-10 Cr. (8 weeks)\*

#### POULTRY SCIENCE

61 Poultry Research Problems 2-4 Cr. (8 weeks)\*

Undergraduate research in breeding, nutrition, management, or marketing. Problem adapted to interest of student and to materials available. Required of senior students majoring in Poultry Science.

201 Graduate Research Problems 1-5 Cr. (8 wesk)\*

Graduate research or special problems in breeding, nutrition, management, or marketing. Suitable problems may furnish data to be used in Master's thesis. P, graduate classification.

203 Graduate Conference 1-5 Cr. (8 weeks)\*

Literature reviews, research methods. Application of research findings in industry problems. Graduate students are required to have some credit in this course. P, graduate classification.

299 Thesis in Poultry Science 1-10Cr. (8 weeks)\* As arranged.

#### RURAL SOCIOLOGY

15 Introduction to Sociology 5 Cr. (8 weeks)

MTWTF 8 2 hrs.\*

Prerequisite to all other courses numbered above 15. Comprehensive study of society, with analysis of group life and other forces shaping human behavior.

<sup>\*</sup>Time and/or credit to be arranged.

#### 31 Rural Sociology 3 Cr. (5 weeks)

MTWTF 8 1 hr.\*

Sociological approach to study of rural society. Rural persons in relation to family, neighborhood, community, church, school, and other groups, institutions or agencies. P, 15.

#### 35 Social Deviation 3 Cr. (8 weeks) MTWT 10

Present day problems in American society such as crime, divorce, alcoholism, drug addiction, old age, and physical and mental health. P, 15.

#### 145 Population Problems 3 Cr. (8 weeks) MTWT 9

Theories of population; factors involved in birth rate, death rate, and migrations. Social consequences of population change; problems of population quality and population policy. P, 15.

#### 162 Criminology 3 Cr. (8 weeks) MTWT 11

Nature and causes of crime. Making of criminal. Theories of punishment. Agencies and methods of arrest, conviction, and segregation of criminals. Jails, prisons, and reformatories. Probation and parole. P, 15.

#### 165 Small Town 3 Cr. (5 weeks) MTWTF 2 1 hr.\*

Intensive study of American small town with population to 2,500; review of historical development, growth, structural fundamentals, various trade and social institutional services, town planning and leadership, together with economic and social relationships to both open country and urban centers. P, 15.

#### 168 The Family 3 Cr. (8 weeks) MTWT 9

Development of family as social institution. Main emphasis on contemporary American family under rural and urban conditions, and impact of urbanization and industrialization upon various facets of family life. P, 15.

#### 170 Intermediate Sociology 3 Cr. (8 weeks) MTuWF 11

Analysis of structure and changes of society. Social relationships in terms of their specific forms, varieties, patternings, and systems. Social organization in terms of sustaining forces and change. P, 15.

#### 172 Leadership and Group Organization 3 Cr. (5 weeks) MTWTF 8 1 hr.\*

Emergence and types of leadership in group situations, analysis of leader-follower roles, functions and relationships in groups and organizations. P, 15 and consent of instructor.

#### 199 Special Problems in Sociology 1-3 Cr.\*

Advanced work or special problems in such areas as population, marriage and family, rural sociology, criminology, social disorganization or urban sociology. P, open to seniors and graduate students with sufficient background.

#### 299 Thesis in Rural Sociology 7-10 Cr.\*

#### WILDLIFE

#### 99 Special Problems in Wildlife 1-3 Cr. (8 weeks)\*

As arranged.

Qualified students may investigate special wildlife problems under supervision of a departmental staff member. Arrangements must be made with the supervising staff member prior to registration. Students limited to a total of 3 credits toward graduation in any one, or combination, of the number 99 courses in this department.

299 Thesis in Wildlife 1-4 Cr. or more (8 weeks)\*
As arranged.

#### ZOOLOGY

#### 42 Genetics 3 Cr. (8 weeks) MTWT 1, AgH 334

Fundamental principles of genetics. Student studies natural laws involved in animal and plant breeding, thus preparing him for technical courses in agriculture. P, Z 20-21 or Bot 11-12.

#### 99 Special Problem in Zoology 1-3 Cr. (8 weeks)\*

Qualified students may investigate special zoological problems under supervision of members of departmental staff. Arrangements must be made with supervising staff member prior to registration. Students limited to a total of 3 credits toward graduation in any one, or combination of the number 99 courses in this department.

#### 100 Survey of Zoology (NSF) 5 Cr. (8 weeks)\*

This is a course available only to Summer Science Institute students (those high school teachers selected for NSF Summer Science Institute grants). The credits will not be accepted toward fulfillment of requirements for graduation with a major in the Entomology-Zoology Department. The course is offered specifically for the purpose of increasing the scope of zoological background information, and thus improving the teaching proficiency of high school natural science teachers. The course content includes a survey of the Animal Phyla, fundamental zoological principles, trends in zoological concepts, for practical use in teaching.

#### 142 Mammalian Anatomy 5 Cr. (8 weeks) MTTF 7, 8, 9, 10, AgH 334

Detailed dissection of cat, as representative animal. Comparisons with human body given special attention. All systems are dissected out and studied. P, Z 20-21.

#### 165 Human Genetics 3 Cr. (8 weeks) MTWT 3, AgH 334

Subject matter of fundamental human genetics; to serve the specialists, such as physician, nurse, public health worker, social worker, etc., and general student. Basic principles will be used as they pertain to genetics of man. P, Z 42. Alternate years.

<sup>\*</sup>Time and/or credit to be arranged.

180 Zoological Education (NSF) 5 Cr. (8 weeks)\*

Offered only for selected Summer Science Institute students. Collegiate students cannot take this course for credit toward the B.S. or the M.S. degree. At the pleasure of the Education Department this course may be counted toward the Master of Education degree with a major in the Biological Science area. The material covered is in the nature of an "advanced re-

fresher" and serves to bring a previously qualified individual "up to date" in the area of research advances and recent concepts in Zoology. P, selection as a student receiving a grant in the Summer Science Institute program.

299 Thesis in Zoology 1-4 Cr. or more (8 weeks)\* As arranged.

# DIVISION OF Engineering

(The College reserves the right to withdraw any courses for which there is not sufficient demand)

#### AGRICULTURAL ENGINEERING

201-202 Engineering Problems in Soil Conservation 3 Cr. each (8 weeks)\*

Graduate students in Agricultural Engineering who wish further study in problems of wind or water erosion control, irrigation, or drainage. P, 166.

210-211 Farm Power and Machinery Problems

3 Cr. each (8 weeks)\*

Graduate students in Agricultural Engineering who wish to continue detailed studies of particular farm machines and allied problems in soil management, processing of agricultural products, cost of operation and improvement of design. Problems pertinent to area selected. P, 172.

220-221 Farm Building Problems 3 Cr. each

(8 weeks)\*

For graduate students who wish to continue detailed studies of farm building design, with special reference to their functional requirements for livestock or crop storage. Problems pertinent to area selected. P, 142.

240 Engineering Phases of Crop Processing

3 Cr. (5 weeks)\*

Detailed analytical studies of cutting and shearing, collecting, packaging, size reduction, dehydrating, hauling, cleaning, and storing of agricultural crops. Includes one or more complete crop harvest and storage problems with reference to cost, labor, power requirements, and quality of finished product. P, 140, 173.

299 Thesis in Agricultural Engineering 7-10 Cr. (8 weeks)\*

As arranged.

#### CIVIL ENGINEERING

26 Summer Surveying 6 Cr. (5 weeks)

MTWTF 7:30-5:30

Topographic surveys and maps, route surveys and plans, curve and earthwork calculations, triangulation observations and calculations, base line measurements, astronomical observations and calculations. P, 23. May be substituted for CE 25 and CE 52.

#### 170 Fluid Mechanics 3 Cr. (8 weeks) MTWTF 8

Laws governing fluids at rest and in motion. Derivation, analysis and application of continuity, momentum, and energy equations as they apply to compressible and non-compressible flow. Analysis of irrotational and rotational flow as well as complete treatment of fluid properties. P, GE 145.

180 Special Engineering Problems 1-5 Cr.

(8 weeks)\*

Elective course for special or detailed study or investigation. P, senior standing in civil engineering.

#### **ENGINEERING SHOPS**

2 Machine Shop 1 Cr. (5 weeks) TT 1, 2, 3

A study of machine tools and their use in industry, principles of operation, production methods and related equipment. Introduction to jigs and fixtures.

3 Welding 1 Cr. (5 weeks) ThF 1, 2, 3

The science of joining metals, lectures, demonstrations and exercises. Gas and arc welding, cutting, heat treatment, spot welding and related information.

4 Machine Shop 1 Cr. (5 weeks) MW 1, 2, 3

A closer study of the more complicated processes involving the operation of machine tools. Introduction to tool and die work and methods of inspection. P, 2.

5 Welding 1 Cr. (5 weeks) TT 1, 2,3

Lectures and exercises in the practical application of arc and gas welding, position welding, pipe welding and joining of non-ferrous metals. Identification of metals. P, 3.

22 Metal Processing 2 Cr. (5 weeks) WThF 1, 2, 3 A lecture and laboratory class for engineers designed to acquaint the engineering student with metal processing in relation to engineering science. A study of the problems and their solutions as related to industrial machine tools and other productions are the study of the problems.

tion equipment, automation, numerical control, and introduction to metal casting. P, engineer student.

<sup>\*</sup>Time and/or credit to be arranged.

23 Metal Processing 1 Cr. (5 weeks) MW 1, 2, 3

For engineering students; an engineering approach to the science of joining metals. A survey of the capabilities and limitations of present equipment. Brief introduction to metallurgy, heat treatment of steel, and a look at the characteristics of other metals and alloys. Gas welding, arc welding and related equipment. P, engineering student.

#### GENERAL ENGINEERING

4 Engineering Graphics 2 Cr. (8 weeks)\*

Theory of graphics as applied to conventional working drawings emphasizing the fundamentals of sectional views, dimensioning, thread representation, and engineering charts and graphs. P, 3.

5 Descriptive Geometry 2 Cr. (8 weeks)\*

Graphic solution of space problems relating to points, lines, planes, and solids. Theory of graphics as applied to various types of engineering problems, vector analysis, revolutions, intersections, and developments. P, 4.

21 Technical Sketching 1 Cr. (8 weeks)\*

Engineering expression as developed through freehand sketching of intricate geometric shapes, assemblies, exploded views, and design layouts. Practice in orthographic and pictorial representations rendered with shading. P, concurrent with 4.

32 Statics 4 Cr. (8 weeks) MTWTF 10, Tu 4
Force systems, centroids, and moment of inertia.
P, Math 26.

42 Strength of Materials 4 Cr. (8 weeks)

MTWTF 7, W 4

Stresses and deformation in structural and machine elements. P, 32; Math 27.

145 Dynamics 3 Cr. (8 weeks) MTWTF 11

Motion of a solid body, work, power, impulse, momentum, and impact. P, 32; Math 27.

#### **MATHEMATICS**

10 College Algebra 5 Cr. (8 weeks)

MTWTF 1, 2 hrs.\*

(Not counted towards graduation in engineering) Review of fundamental operations, factoring, highest common divisor, least common multiple, and solutions of linear simultaneous equations, study of quadratic equations exponents, radicals.

15 Plane Trigonometry 5 Cr. (8 weeks)

MTWTF 8, 2 hrs.\*

(Required in freshman engineering)
Functions of acute angles, solution of right triangle, solution of oblique triangle, general applications of trigonometry. P, one year of plane geometry and one and one-half years of high school
algebra. Elective in Science and Applied Arts and
Agricultural courses.

16 Analytic Geometry and Calculus

5 Cr. (8 weeks)\*

(Required in freshman engineering) Co-ordinate systems, common curves, limits, differentiation of algebraic functions, applications of derivatives, differentials. P, 14, 15. Elective in Science and Applied Arts and Agricultural courses.

20 Topics in School Mathematics (NSF)

5 Cr. (8 weeks)\*

This course will begin with an introduction to symbolic logic, followed by elementary set theory which will be the basis for the study of selected topics in modern mathematics. P, Analytic Geometry.

27 Calculus 4 Cr. (8 weeks) MTWTF 9

Partial derivatives, multiple integrals, and their applications, infinite series, expansion of functions, hyperbolic functions. P, 26.

141 College Geometry 3 Cr. (8 weeks) MTTF 10

A synthetic approach to plane geometry at the college level. A course especially valuable for teachers of high school mathematics. Open only to juniors and seniors. P, 27 or consent of instructor.

142 Mathematics of Finance 3 Cr. (8 weeks) MTTF Application of algebra to problems in interest, annuities, amortization, valuation of bonds, sinking funds and depreciation, building and loan associations, theory of probability and problems in life insurance. P, 14, 15 or 10, 11, for 142, 142 for 143.

145 Theory of Equations 3 Cr. (8 weeks) MTTF 10 Complex numbers, DeMoivre's Theorem, cubic and biquadratic equations, determinants. P, 25 or consent of instructor.

148 Differential Equations 4 Cr. (8 weeks)

WTWTF 9

Differential equations with applications in fields of mechanics and physics. P, 26.

152 Introduction to Abstract Algebra (NSF)

5 Cr. (8 weeks)\*

Introduction to number theory, groups and fields, sets, Boolean algebra, matrices. P, differential and integral calculus.

153 Algebra and Number Theory 3 Cr. (8 weeks) MTTF

A study of the foundations of algebra, an introduction to number theory by sets and a consideration of modern algebra as it is expected to affect the high school curriculum. P, 27.

#### MECHANICAL ENGINEERING

49 Thermodynamics 5 Cr. (8 weeks)

MTWTF 8, Tu 2, 3, 4

Terminal course for non-mechanical engineering students. Properties and fundamental equations of gases and vapors. Thermodynamic cycles and their application to heat power equipment. P, Phy 22; Math 27.

70 Industrial Management 3 Cr. (8 weeks)\*

Industrial ownership and organization production control technique, personnel problems, wage systems. For non-mechanical engineering students only. P, senior standing.

<sup>\*</sup>Time and/or credit to be arranged.

#### 163-164 Mechanical Engineering Laboratory

2 Cr. (8 weeks)\*

Experimental study to demonstrate and verify theory and fundamentals of thermodynamics, heat transfer and fluid flow processes. This laboratory includes work on experimental type steam turbine and condenser, gasoline and diesel internal combustion engines; rocket engine, steam, air and hydraulic flow devices; fans and compressors; heat transfer, air conditioning and refrigeration equipment. Emphasis on project investigations in depth by small groups. Written reports required. P, 46, 141.

#### 174 Refrigeration and Air Conditioning 3 Cr.

(8 weeks)\*

Principles of refrigeration, analysis of refrigeration cycles. Air conditioning analysis. Steady flow processes involving air-water vapor mixtures. P, 141, or 49, 143.

#### **PHYSICS**

#### 15 Physics for Secondary School Teachers I (NSF) 5 Cr. (8 weeks)\*

A course treating the basic branches of physics, heat, mechanics, light, sound, and electricity. Intended primarily for secondary teachers with little or no previous training and experience in other natural sciences. No specific prerequisite, but the student should be well grounded in arithmetic, simple algebra, and geometry. Offered only in Summer in National Science Foundation Institute and open only to participants in the Institute.

#### 22 General Physics (NSF) 5 Cr. (8 weeks)\*

Mechanics of solids and fluids, sound heat, elec-

tricity, magnetism, and light. P, concurrent registration in Math 25. (Credit will not be allowed in both 10-11-12 and 20-21-22.)

#### 140 Physics for Secondary School Teachers II (NSF) 5 Cr. (8 weeks)\*

Lectures, demonstrations, laboratory work and discussions on specific topics in mechanics, heat, electricity, light, and sound, directed toward the problems encountered in teaching these topics at the secondary level. Part of the course will deal with recent developments in physics. A clear understanding of the foundation of physics is emphasized. Prerequisite, minimum of one year of general college physics and several years experience teaching physics at the secondary level. Offered only in Summer in National Science Foundation Institute and open only to participants in the Institute.

#### 141 PSSC Physics (NSF) 10 Cr. (8 weeks)\*

An intensive course to familiarize experienced teachers of physics at the secondary level with the objectives, the content, and the laboratory experiments of a course in physics at the high school level as proposed by the Physical Science Study Committee. Offered only in summer in National Science Foundation Institute and open only to participants in the Institute.

#### 180 Atomic Physics 3 Cr. (8 weeks)\*

Evaluation of experimental evidence concerning atomic and nuclear particles, basic kinetic theory of atoms and electrons; elements of atomic and nuclear structure; survey of nuclear processes. P, 22.

# DIVISION OF Home Economics

(The College reserves the right to withdraw any courses for which there is not sufficient demand)

#### CHILD DEVELOPMENT AND **FAMILY RELATIONS**

47 Experience in Human Relations 4 Cr. (5 weeks) MTWTF 8, 9, 10, 11

An opportunity to more fully understand children as well as oneself while observing and working with children in the Family Life Laboratory. P, 35.

#### HOME ECONOMICS EDUCATION

#### 51 Philosophy and Methods of Home Economics 3 Cr. (8 weeks) MTWT 7

Philosophy and objectives in home economics as they relate to those of general education and are specific to home economics. Methods of classroom teaching and use of teaching aids. P, Ed 40.

#### 63 Adult Education 2 Cr. (5 weeks) MTWT 11

Background and trends in adult education. Opportunity provided for observation, organizing and teaching adult classes in home economics or related areas. P, 52 and senior standing. 262 Curriculum in Home Economics 3 Cr. (5 weeks) MTWTF 2 1 hr.\*

Curriculum in secondary schools of South Dakota and other states. New ideas developed. P, 52 or equivalent.

#### 274 Seminar in Home Economics Education

1 Cr. (5 weeks) F 8 1 hr.\*

Maximum credits-three, review and discussion of current literature in home economics education. Required of all graduate students.

299 Thesis in Home Economics Education 7-10 Cr.\* As arranged.

#### HOME MANAGEMENT and EQUIPMENT

72 Home Management House 4 Cr. (5 weeks)

M1, Tu 1, 2, Th 1, 2

One-half quarter residence in home management house with experience in problems that arise in a home. P, 50; FN 20, senior standing in home economics.

\*Time and/or credit to be arranged.

13

175 America's Housing 3 Cr. (5 weeks) MTWTF 11, 1 hr.\*

America's housing as affected by the following factors: history; philosophy; tradition; climate; geographical area; population; local, state, and federal laws; and financing. P, 50 and consent of instructor.

#### TEXTILES AND CLOTHING

12 Clothing Construction 3 Cr. (8 weeks) MTWT 2, 3

Techniques of basic clothing construction and fitting with use of commercial patterns.

46 Fashion Design 2 Cr. (8 weeks) MWF 10, 11 Techniques in fashion designing and illustrating.

145 Costume Draping 3 Cr. (5 weeks)

MTWT 8, 9, 10

Application of dress design principles through draping techniques working on own dress form. Problems will be developed in muslin and one garment constructed using suitable fabric and finishes. P, 30; Art 5.

286 New Developments in Textiles 3 Cr. (5 weeks) MTWTF 1, 1 hr.\*

Study of newer fibers, fabrics and finishes and their use. P, consent of instructor.

#### Nursing DIVISION OF

(The College reserves the right to withdraw any courses for which there is not sufficient demand)

#### GENERAL NURSING

79 Jurisprudence for Nurses 3 Cr. (5 weeks) MTWTF 10, 2 hrs.\*

Regulation and control of nursing practice through state laws; application of legal principles to some problems of nurses in work and social situations. P, junior in nursing.

82 Foundations of Nursing Education

3 Cr. (5 weeks) MTWTF 8, 2 hrs.\*

The development of nursing from ancient to modern times, stressing movement and changes affecting the professional practice of nursing today, the development of schools, and nursing organization. Present day problems in professional nursing are identified and possible solutions explored.

95 Principles of Supervision 3 Cr. (5 weeks)

MWF 1, 2

General principles of supervision as a service, identifies essential elements of the supervisory process and promotes understanding of group work as an important aspect of supervision.

140 Special Problems in Community Nursing (Newer Concepts of Psychiatric Nursing Care)

3 Cr. (5 weeks) R, MWF 3; L, \*

Recent developments in the nursing care of persons with mental disorders. Emphasis will be on therapeutic Nurse-patient relationships.

141 Special Problems in Medical-Surgical Nursing (Cardio-Vascular Nursing) 2 Cr. (5 weeks) R, MTTF 4

Recent developments in cardio-vascular nursing, emphasizing the nurses' role in preparing patients for discharge from the hospital.

#### CLINICAL NURSING

43 Principles of Psychiatric Nursing 4 Cr. (8 weeks) The nurse's role in current therapeutic programs,

interpersonal relationships, nursing care of functional and organic disorders. P, CN 41, 42.

44 Applied Psychiatric Nursing 6 Cr. (8 weeks) R, MTWTF 7, 8, 9, 10, 11; L,\*

Supervised nursing experience in admission and continued treatment units, including participation in team conferences in planning for patient care. CN 43 concurrent.

#### **RURAL NURSING**

69 Rural Nursing 6 Cr. (6 weeks)\*

Experience in a rural hospital with a health program. Problems involved in meeting the needs of a rural community for health care. P, senior in Nurs-

70 Nursing in the Community 2 Cr. (6 weeks)\*

Problems of illness as they affect the family and the community. The role of the community in the total health program. Field trips and participation in community activities. P, RuN 69 concurrent.

# DIVISION OF Pharmacy

(The College reserves the right to withdraw any courses for which there is not sufficient demand)

31 Cultivation of Medicinal Plants 2 Cr. (8 weeks)

Cultivation of medicinal and poisonous plants with emphasis on plants adapted to growing conditions in South Dakota.

40 Quantitative Pharmaceutical Analysis

4 Cr. (8 weeks)\*

Principles of quantitative analysis and application to analysis of drugs and pharmaceutical preparations. P. Ch 26-27.

\*Time and/or credit to be arranged.

# DIVISION OF Science and Applied Arts

(The College reserves the right to withdraw any courses for which there is not sufficient demand)

#### ART

TC 46 Fashion Design 2 Cr. (8 weeks)

MWTh 10, 11

Techniques of fashion designing and illustrating.

60-61 Painting 2 Cr. (5 or 8 weeks) MTWTF 1, 2 Color and its properties. Emphasis given to problems of composition in oil. P, 2, 4-5-6, 20 or consent of instructor.

70 Methods of Teaching Arts and Crafts

3 Cr. (5 weeks) MTWTF 9, 1 hr.\* Methods and materials for teaching arts and crafts at various levels.

#### **CHEMISTRY**

2 Inorganic Chemistry 4 Cr. (8 weeks)

R, MTTF 8; L, MW 1, 2, 3

Ephasis on elementary principles and a study of the elements.

3 Inorganic Chemistry 4 Cr. (8 weeks)

R, MTTF 10; L, TT 1, 2, 3

Emphasis on elementary principles and a study of the elements.

20 Semimicro Qualitative Analysis 5 Cr. (8 weeks)\* Principles of solution chemistry, analysis of inorganic compounds using semimicro techniques. P, 2; Math 10 or 14.

21 Elementary Organic Chemistry 5 Cr. (8 weeks) R, MTTF 8; L, MTuW 1, 2, 3

Compounds of carbon with special emphasis on those of interest to students of Agriculture and applied science. P, 3 or 20.

23 Quantitative Analysis 4 Cr. (8 weeks) R, MWF 9; L, MTuW 1, 2, 3

Fundamental principles of laboratory practice in gravimetric analysis; introduction to volumetric analysis. P, 3 or 20.

28 Analytical Calculations 1 Cr. (8 weeks) TT 9

Advanced problems to supplement the elementary problems in Chemistry 23. P, 3 or 20; registration in 23.

60 Chemistry Refresher for High School Teachers 5 Cr. (8 weeks) R, MTWTF 9; L, MW 1, 2

A general survey of modern atomic theory and kinetic molecular theory, including an introduction to organic chemistry. P, 3 or equivalent.

146 Inorganic Preparations 3 Cr. (8 weeks)\*

Methods of preparation and purifying typical inorganic compounds. P, 3 or 20.

147 Advanced Inorganic Chemistry 3 Cr. (8 weeks)\* Selected topics in organic chemistry in light of modern theory. P, 3 or 20.

148 Modern Chemistry for High School Teachers 5 Cr. (8 weeks) R, MTWTF 7; L, TT 9, 10 A review of modern concepts of chemistry. P, 3,

20, 21, 23, or 24 or equivalent.

160 Instrumental Analysis 3 Cr. (8 weeks)\*

Operation and use of instruments in analysis. P, 23, 24.

168 Principles of Biochemistry 5 Cr. (8 weeks)

Chemistry of biological processes of plants and animals. P, 167.

172 The Chemical Bond 3 Cr. (8 weeks)\*

Bond Energies, atomic orbitals, directed valences, multiple bonds, resonance. P, 3 or equivalent; Math 27; Phy 22 or 12.

174 Special Problems 1-3 Cr. (8 weeks)\*

Research problem in chemistry. P, consent of instructor. Limited to a total of 6 credits.

299 Thesis in Chemistry 1-6 Cr. (8 weeks)\* As arranged.

NOTE: Other graduate courses will be offered on demand.

#### **EDUCATION**

45 Educational Psychology 3 Cr. (5 weeks)

MTWTF 9, 1 hr.\*

Nature of learning in man, learning curves, economical learning, rates and limits of improvement, retention of experience, differences in learning capacity. Transference and interference. Required for certification. P, junior standing, Psy 25; Ed 40 or 42.

161 Principles of Vocational Education 3 Cr.

(5 weeks) MTWTF 1, 1 hr.\*

General philosophy and history of vocational work in schools. Federal and state legislation and regulations. Organization, financing, and administration of vocational education programs. Adult education and part-time education. Teacher relationships. P, senior standing in Education.

165 Standardized Tests and Measuring Instruments 3 Cr. (8 weeks) MTTF 7

Standardized group tests in the fields of mental abilities, special aptitudes, interests and attitudes. Theory and practice of administration, scoring and interpretation. P, 45, 168 or consent of instructor. (May also be counted as Psychology credit.)

J 165 Institutional Public Relations (See Journalism)

168 Educational Statistics 3 Cr. (8 weeks) MTTF 8

Emphasis on meanings and interpretations and on applications. Deals with data from educational and psychological measures. Exercises on tabulating and calculating various statistical measurements and graphic representations. Required of most candidates with a graduate major in education. P, senior in education.

<sup>\*</sup>Time and/or credit to be arranged.

#### GS 172 Philosophy of Education

(See General Studies)

#### 201 Mental Health and Personality Development 3 Cr. (5 weeks) MTWTF 10, 1 hr.\*

Nature of personality; mental and emotional health and recognition of deviations in children and adults. Emphasis on mental health problems and a positive program for personal mental health.

### 205 Occupational Information and Analysis in Guidance 3 Cr. (5 weeks) MTWTF 1, 1 hr.\*

Using, reviewing and evaluating occupational information. The study of sources and types of material and occupational filing plans. Practical work in securing occupational information. P, 85.

#### 210 Introduction to Counseling 3 Cr. (5 weeks) MTWTF 10, 1 hr.\*

Intensive study of the use of interviewing techniques. Emphasis is given to such approaches as the "directive," and "non-directive" and "eclectic" methods, with opportunity provided for their application. P, 85, or equivalent, 165, 205, consent of instructor.

#### 211 Counseling Practicum 3 Cr. (5 weeks)\*

Practice in use of tools and techniques of counseling and guidance. The work is done in Division of Student Personnel and supervised there. P, 210 and consent of instructor.

#### 222 Exceptional Child 3 Cr. (5 weeks)

MTWTF 2, 1 hr.\*

Critical consideration of physical, social, emotional and intelllectual qualities which characterize child who deviates from normal to such an extent as to require special educational consideration. Special attention will be given to study of desirable provisions in educational program of gifted child.

### 245 Administration of School Guidance Program 3 Cr. (5 weeks) MTWTF 11, 1 hr.\*

Principles of guidance; organizing school guidance program; tests and testing; guidance library and materials; interviewing and counseling. For those seeking administrative certificate.

#### 251 Public School Administration 3 Cr. (5 weeks) MTWTF 7, 1 hr.\*

Organization, administration and services of school systems in state, county, and local school districts. Constitutional and statutory provisions. Work and responsibilities of State Board of Education, State Department of Public Instruction, County and local boards, and of superintendents and principals. Some attention to financial matters.

### 252 Organization and Administration of Elementary Education 3 Cr. (8 weeks) MTTF 11

Principles and modern practices of organizing and administering work of elementary school. Required by State Department of Public Instruction of school superintendents and elementary school principals. P, 251.

#### 255 The School Curriculum 3 Cr. (5 weeks)

MTWTF 10, 1 hr.\*

Nature and principles of the curriculum in elementary and secondary schools. Newer trends and modern curriculum development procedures.

#### 260 Elementary School Supervision 3 Cr. (8 weeks) MTTF 7

Required of school superintendents and elementary school principals for respective administrative certificates. Emphasis upon cooperative participation of school personnel in improvement of instruction in elementary school subjects. P, 251.

#### 261 Secondary School Supervision 3 Cr. (8 weeks) MTTF 8

Required of school superintendents and high school principals by State Department of Education for respective administrative certificates. Procedures for improvement of instruction in secondary school subjects. P, 251.

#### 262 Business Administration of Schools

3 Cr. (5 weeks) MTWTF 9, 1 hr.\*

Business aspects of school administration. Organization and work of school board, equipment and supplies, janitor service and school finances including budgeting procedure and insurance. P, 251.

#### 264 School Building and Grounds 3 Cr. (8 weeks) MTTF 7

Management, care and operation of school plant. Needs and evaluation of existing facilities, new buildings and remodeling. Not a technical course in design and materials. Alternates with 262. P, 251 and graduate standing.

#### 266 School Law 3 Cr. (8 weeks) MTTF 10

Legal character of the public schools; legal powers of the school boards, administrators, and teachers; legal aspects of parent-child-school relationships. Emphasis will be placed on South Dakota school law. P, 251.

## 270 Research Methods in Education 3 Cr. (5 weeks) MTWTF 9, 1 hr.\*

Main objectives are (a) understanding standard and newer research procedures in education, (b) acquaintance with up-to-date research on present day educational problems, (c) understanding and using evaluation standards for educational research, (d) practical procedural suggestions to graduate students who are undertaking thesis or research problems. (Required of most graduate majors in education.) P, graduate standing, preferably Ed 168 and 15 credits in graduate education courses.

### 273 FFA and Supervised Farming Programs 3 Cr. (5 weeks) MTWTF 10, 1 hr.\*

Emphasize needs, scope, and techniques in building supervised farm practice and Future Farmer programs. Stresses integration of these programs with high school vocational agricultural curriculum. P, graduate student in agricultural education.

<sup>\*</sup>Time and/or credit to be arranged.

#### **ENGLISH**

2 English, 3 Cr. (8 weeks) MTTF 7

Provides training in efficient, accurate reading; in clear, effective writing, and in vocabulary building. Includes instruction in conventions of standard English usage, grammar and punctuation.

3 English 3 Cr. (8 weeks) MTTF 8

Provides training in efficient, accurate reading; in clear, effective writing, and in vocabulary building. Includes instruction in conventions of standard English usage, grammar and punctuation.

#### 20 Introduction to Literature 3 Cr. (8 weeks)

MTTF 10

Principal literary types-fiction, drama, essay, biography, and poetry. Designed to acquaint students with the rewards of reading significant literature. Required of every sophomore unless some other arrangement is made in his division. P, 1-2-3, or 4-5-6. Open to students exempt from 4.

†23 Poetry 3 Cr. (8 weeks) MTTF 11

Selected poems, English and American. May be elected to meet sophomore English requirement. P, 20.

#### +25 Biography 3 Cr. (8 weeks) MTTF 11

Reading from great biographies from past and present. May be elected to meet sophomore English requirement. P. 20.

### 43 Writing for Technical Students 3 Cr. (8 weeks)

Advanced course in writing. Required of juniors in Division of Engineering and open to other students majoring in technical fields.

#### 165 Advanced Grammar and Usage 3 Cr. (5 weeks) MTWTF 1 hr.\*

Basic English grammar with emphasis on modern American usage. Language as a dynamic, evolving phenomenon. P, minor or consent of instructor. Alternate years.

#### 178 The Romantic Movement 3 Cr. (5 weeks)

MTWTF 2, 1 hr.\*

Chief writers in English poetry and prose from 1798-1832, with emphasis on intellectual trends. P, 24 hours in English or 30 hours in combination of language arts or consent of instructor. Every third year.

#### 184 Realists and Early Naturalists 3 Cr. (5 weeks) MTWTF 8, 1 hr.\*

American writers including Howells, James, Twain, Crane, Dreiser and the artistic and intellectual significance of the movements they fostered. P, 24 hours in English or 30 hours in combination of language arts or consent of instructor. Every third year.

#### FOREIGN LANGUAGES

21 Second Year Spanish 3 Cr. (8 weeks) MTTF 1

This course teaches the student to speak, understand, read and write intermediate level Spanish.

Classwork is supplemented with the foreign language RCA Preceptor laboratory. Students enrolled in this course are urged to study concomitantly Spanish 41.

#### 41 Spanish Conversation and Composition

2 Cr. (8 weeks) TT 2

Development of ability in conversation and composition. Language laboratory used.

#### 51 Spanish Literature 3 Cr. (8 weeks) MWF 2

Study of Spanish and Latin American Literature. Further development of Language skills.

#### 71 Directed Individual Study 1-3 Cr. (8 weeks)\*

This course is set up to meet the needs of the individual students. For students just beginning the language, or for teachers needing a review course, or for students wanting to concentrate on a specific aspect of the language. This may include literature, grammar, laboratory techniques, testing, etc.

#### 91 Spanish Workshop for Advanced Degrees

2 Cr. (8 weeks)\*

A special intensive study course for graduate students preparing for the Foreign Language Graduate Examination.

NOTE: Only those courses listed above will be given if there is sufficient demand.

#### **GENERAL STUDIES**

#### 24 Introduction to Aviation 3 Cr. (5 weeks)

MTWTF 1, Gym 123

Aerodynamics; principles of flying, civil air regulations, meteorology, radio and navigation. Administered by Physical Education Department.

#### 25 Basic Flight Training 1-2 Cr. (5 weeks)\*

Ten hours of actual flying time. Approximately eight hours of dual instruction and two hours of solo flight including pre-flight and post-flight briefings before and after each flight. One credit will be given if student does not solo. P, GS 24 or concurrent with GS 24. Fee-\$85.00. Administered by Physical Education Department.

#### 26 Intermediate Flight Training 2 Cr. (5 weeks)\*

Cross-country phase of flying; designed to advance student toward private license. Cross-country dual and solo flying with pre-flight and post-flight briefings before and after each flight. P, GS 25 or equivalent. Fee \$100.00. Administered by Physical Education.

#### 27 Advanced Flight Training 2 Cr. (5 weeks)\*

Covers advanced phases of flying, including crosscountry and all phases of flight planning. Student will be given a check ride to determine level of flying ability. Course will be given in full compliance with CAA regulations. P, GS 26 or equivalent. Fee \$100.00. Administered by Physical Education.

†Either 23 or 25 will be offered, but not both. \*Time and/or credit to be arranged.

#### 172 Philosophy of Education 3 Cr. (8 weeks)

MTTF 1

Survey of major current philosophies of education and their effects upon educational goals and standards on the different levels of education today. P, senior standing. May count as Education credit.

#### HISTORY

4 World History (5000 B.C.-1300 A.D.)

3 Cr. (8 weeks) MTWT 9

Major emphasis on European culture, but civilization and culture of India, China, Japan, Egypt, Arabia, and the New World receive considerable attention.

23 American History (1492-1865) 4 Cr. (8 weeks) MTWTF 11

Political, social, and economic development, 1492 to 1865.

140 Modern Europe (1450-1700) 2 Cr. (5 weeks) MTTF 2

Europe from 1450 to 1700, covering political, cultural, and intellectual developments.

180 Special Problems 2-3-4 Cr.\*

Selected studies to meet the needs of advanced students. P, junior standing and minoring in history, or consent of instructor. May be repeated but limit is 6 credits.

#### INDUSTRIAL ARTS EDUCATION

10 Woodworking 3 Cr. (8 weeks)

R, MWF 8; L, MWF 9, 10

Use, care and conditioning of tools. Properties of various kinds of woods and processing of woods for specific purposes. Safety in the shop stressed.

24 Woodturning 2 Cr. (8 weeks) MWF 1, 2, 3

Exercises in the use of the wood lathe. Spindle, face plate, drive chuck, and template turning operations in turning of various items including patterns for foundry work. P, 10.

†140 History of Industrial Arts 3 Cr. (8 weeks)\*

Development of industrial arts from the Russian Military Craft School through the fireside crafts of the Scandinavian countries. The introduction of manual training into the curriculum of education in the United States and the changes that resulted in our present course of exploration in the various trades of today. P, minor in industrial arts.

†150 Metal and Wood Finishing 3 Cr. (8 weeks) R, TT 11; L\*

Finishes of the past and modern types which includes lacquers, synthetic products, bleaches, stains, etc. Theory and use of all types of applicators including types of spray guns, solvents, brushes, etc. Comparative testing of all finishes. P, minor in industrial arts.

#### **JOURNALISM**

30 Basic Photography 2 Cr. (5 weeks)\*

L, Sec. 1, MWF 8, 9 R, Sec. 1, TT 8 R, Sec. 2, TT 1 L, Sec. 2, MWF 1, 2, 3 L, Sec. 3, TT 1, 2, 3, 4

Fundamentals of photography. Includes use of camera and darkroom equipment. Open to nonjournalism students.

48 Publicity Methods 3 Cr. (5 weeks)\*

R, MTTF 9

Newswriting, organizing publicity campaigns, press relations. For students expecting to become county agents, home economics leaders, or teachers. P, Engl 1-2-3. Not for journalism majors or minors.

49 Principles of Advertising 3 cr. (5 weeks)\*

R, MTTF 10

Historical, economic, ethical, and psychological principles involved in newspaper, magazine, radio, television, and other forms of advertising. Open.

71 Newspaper Publishing Practice 4 Cr. (5 weeks)\* Practical experience in newspaper production on The Volga Tribune. Students gather and write news, features, advertisements, edit copy and write headlines; prepare page layouts; assist in mechanical production.

72 News Illustration 2 Cr. (5 weeks)\*

Practical photography with press equipment; includes darkroom work.

74 Advanced Reporting 3 Cr. (5 weeks)\*

Emphasis on reporting public affairs for newspapers.

165 Institutional Public Relations 3 Cr. (5 weeks)\* R, MTTF 11

Interpreting institutional programs to public. P, 15 hours of English and/or Journalism.

190 Reporting in Special Fields 3 Cr. (5 weeks)\* R, MTTF 1

Reporting in selected field, and study of major periodicals therein; special assignments in reporting in selected fields. P, 15 credits in communication and consent of department.

#### LIBRARY SCIENCE

60 Library Administration and Organization

3 Cr. (8 weeks) MTWF 11

Stating problem of school libraries. Objectives and methods of service in small high school libraries, organization, budget and ordering, classification and cataloging, student library club, housing and equipment, records to be kept, reports to make, and methods of publicity.

61 Book Selection and Reference Work

3 Cr. (8 weeks)

Standards of criteria which may be used in appraising books for school libraries and use of basic reference books.

62 Cataloging and Classification of Books

3 Cr. (8 weeks) MTTF 9

To teach students how to catalog and classify books for high school libraries.

†Must be requested by 5 or more students. \*Time and/or credit to be arranged.

#### MUSIC

1-2-3 Music Theory and Ear Training

3 Cr. (5 weeks)\* Notation of pitch, meter, four-part harmonic writing using triads, dominant and supertonic seventh chords. Basic music fundamentals.

4 Class Voice 1 Cr. (5 weeks)\*

12 Piano 1 Cr. (5 weeks)\*

13 Organ 1 Cr. (5 weeks)\*

19 Voice 1 Cr. (5 weeks)\*

20 Chorus ½ Cr. (5 weeks Tuesday 7:30 p.m.

24 Music Theory 3 Cr. (8 weeks)\*

Four-part harmonic writing including altered chords. P, 3 or consent of instructor.

42 Composition 3 Cr. (8 weeks)\*

Composition in two and three part forms, variation forms leading to the sonata form. P, 26 or consent of instructor.

61 Teaching Music in Junior and Senior High School 3 Cr. (8 weeks)\*

Philosophy, objectives and administration of public school music.

#### PHYSICAL EDUCATION AND RECREATION

SERVICE COURSES (MEN)

1 Beginning Tennis 1 Cr. (5 weeks) MTWT 7—

1 Beginning Golf, Section 82, 1 Cr. (5 weeks) MT 1, 2—course

1 Beginning Golf, Section 83, 1 Cr. (5 weeks) MT 3, 4-course

1 Beginning Swimming 1 Cr. (5 weeks) MT 10-11 — Pool

SERVICE COURSES (WOMEN)

17 Beginning Swimming 1 Cr. (5 weeks) MT 10, 11-Pool

32 Beginning Tennis 1 Cr. (5 weeks) MTWT 7 -Courts

37 Golf 1 Cr. (5 weeks) Sec. 1 MT 1, 2-Course Sec. 2 MT 3, 4-Course

#### MEN AND WOMEN

13 First Aid 2 Cr. (5 weeks) TT 1, 2

Includes material specified by the Red Cross for the standard and advanced courses. Satisfactory completion of course will qualify student for Red Cross certificate.

28 Advanced Swimming 1 Cr. (5 weeks) MT 10, 11 Advanced techniques in swimming and water safety. P, 17 or permission of instructor. May be substituted for 1 credit of required physical educa-

34 Low Organized Games 1 Cr. (5 weeks) MW 10

38 Rhythmic Fundamentals 1 Cr. (5 weeks) MW 8 Basic dance course for men and women.

39 Intermediate Tennis 1 Cr. (5 weeks) MTTF 7

56 Kinesiology 3 Cr. (8 weeks) MTWF 8

Principles of body mechanics, mechanical and anatomical analysis of physical activities. P, Z 142.

160 Philosophy of Physical Education

3 Cr. (8 weeks) MTTF 1 Sociological, biological, and psychological foundations of physical education; historical background of

physical education; recent trends. P, PE 61, 66, senior standing, permission of staff.

164 Physical Education for the Elementary School 3 Cr. (5 weeks) MTWTF 2

Analysis of activities, materials, techniques, and methods used in the conduct of physical education for the elementary grades. Progresssion in curriculum planning in the areas of rhythm, games, selftesting, and tumbling.

171 Advanced Problems in the Administration of Interschool Athletics 3 Cr. (5 weeks)

MTWTF 9, 1 hr.\*

Budgets, public relations problems, subsidization, objectives of athletics, staff organization, control of athletics both interscholastic and intercollegiate, and general policies of athletics. P, PE 61, senior standing, permission of staff.

255 Physiology of Exercise 3 Cr. (8 weeks)

MTTF 10

Body processes as they relate to exercise; efficiency of muscular work; fatigue and exercise; age, sex and body type as related to exercise; nervous control of muscular activity; effect of exercise on the circulatory system. P, Z 142, minor in Physical Education, permission of staff.

276 Supervision of Physical Education

3 Cr. (5 weeks) MTWTF 8, 1 hr.\*

Techniques, principles, organization and philosophy of supervision in this field. P, graduate standing.

282 Research Methods in Health, Physical Education and Recreation 3 Cr. (5 weeks) MTWTF 11, 1 hr.\*

Study of the methods and techniques of research in the field; critical analysis of master's and doctor's theses; practice of research techniques. P, graduate standing and permission of staff.

290 Individual Research 2-4 Cr. (8 weeks)\*

Study of special problems by individuals. Results of study presented in special reports and term papers. P, major in this field.

299 Thesis in Physical Education 7-10 Cr.

As arranged.

(8 weeks)\*

#### POLITICAL SCIENCE

34 National Government 4 Cr. (8 weeks) MTWTF 2 Theory of Constitution and Federalism as applied in organization of American national government.

<sup>\*</sup>Time and/or credit to be arranged.

36 State Government 4 Cr. (8 weeks) MTWTF 11
State government in general with references to South Dakota Government and constitution.

170 Governmental Problems of Eastern Asia

3 Cr. (8 weeks) MTWT 9 ocial, and cultural develop-

Political, economic, social, and cultural developments as a background for understanding contemporary problems in these areas. P, 34 or Hist 25 or consent of instructor.

190 Special Problems in Political Science 2-3-4 Cr.\* Selected studies to meet needs of graduate students. P, junior standing and minoring in political science, or consent of instructor.

#### **PSYCHOLOGY**

25 General Psychology 3 Cr. (8 weeks) MTTF 11

Scientific approach to basic problems of human behavior. Lectures, laboratory exercises and demonstrations. Prerequisite to all Psychology courses. Required of all students in Education. P, sophomore standing.

171 Abnormal Psychology 3 Cr. (8 weeks) MTTF 7 Critical consideration of major abnormalities. Emphasis upon adjustive and nonadjustive character of these disorders and theory and treatment of such disorders. P, 12 credits in psychology and consent of instructor.

175 Personality 3 Cr. (8 weeks) MTTF 1

A consideration of major systematic theories accounting for nature, development and evaluation of personality. P, 12 credits in psychology and consent of instructor.

#### PRINTING MANAGEMENT

1 Practice in Composition and Lockup

(4 or 8 weeks)\* Non-credit shop practice work. P, consent and advance application. Admission depends on availability of space and equipment.

2 Practice in Composing Machines (4 or 8 weeks)\* Non-credit shop practice work. P, consent and advance application. Admission depends on availability of space and equipment.

3 Practice in Presswork (4 or 8 weeks)\*

Non-credit shop practice work. P, consent and advance application. Admission depends on availability of space and equipment.

70 Newspaper Shop Practice 4 Cr. (4 or 8 weeks)\*
Actual work under guidance of instructors in printing a weekly community newspaper. P, 24 or consent.

160 Advanced Typographical Design

3 Cr. (8 weeks) R, MTTF 9 Typographic design, classical and modern; the

Typographic design, classical and modern; the important typographers and their works; Morris and the classical revival; American typographers; book and periodical design. P, 22.

170 Advanced Lithography 3 Cr. (8 weeks) R, MTuW 10; L, TT 10, 11

Analysis of physical and chemical processes involved in planographic printing; history and theory of graphic reproduction by photosensitive materials; research in lithography. P, 68.

215 Plant Design and Layout 3 Cr. (8 weeks) R, MTTF 1

Arrangement of equipment, power units, stations, and supplies for efficient work flow; design of printing plants, specialty plants; companion equipment. P, 90.

240 Problems and Trends in Graphic Reproduction 3 Cr. (8 weeks)\*

Current problems in industry, including those being studied in laboratory and research centers; innovations and recent introductions in industry. Includes papers, inks, photosensitive duplicating materials, electronic equipment, engravers and plate makers. Assigned problems and reports.

299 Thesis in Printing Management As arranged.

#### SECRETARIAL SCIENCE

11 Beginning Typewriting 2 Cr. (5 weeks)

L, MTWTF 8; 5 hours arranged Use of typewriter by touch system. Typewriting of term papers, personal letters, notes. Open only to those who have not had previous typewriting instruction.

15 Duplicating Machines 2 Cr. (5 or 8 weeks) L\* Mimeograph, Ditto and other duplicators. Special units for teachers and office workers.

17 Transcribing Machines 2 Cr. (5 or 8 weeks) L\* Dictaphone and other types of dictating-transcribing equipment. To supplement or substitute for shorthand.

18 Beginning Shorthand 3 Cr. (8 weeks)

R, MTWTF 9

Gregg system taught. Open for credit to those with no previous shorthand instruction.

23 Typewriting Office Practice 3 Cr. (8 weeks) R, MWF 11, L\*

Instruction and practice in modern office procedures, production typewriting. P, 13 or two years of high school typewriting.

33 Commercial Correspondence 3 Cr. (8 weeks) R, MTTF 10

Principles and techniques of composing and dictating business letters. Organization, direction, and mechanical correctness stressed. Review of basic grammar and composition. P, English 3 or 6.

#### SPEECH

20 Oral Communications 2 Cr. (8 weeks) MWF 8 Continuation of 10. P, 10.

\*Time and/or credit to be arranged.

## 22 Oral Communications 4 Cr. (5 weeks) Sec. 1—MTWTF 11-12:30

Analysis and projection of meaning to an audience by use of voice, body and material. Selection, arrangement, and presentation of literary materials for platform reading, radio, and television. P, Sp 47, equivalent, or consent of instructor.

#### 56 Parliamentary Procedure 2 Cr. (5 weeks)

Organizing and conducting meetings. P, 20 or 22.

140 Oral Interpretation 3 Cr. (5 weeks)\*

4 Cr. (8 weeks) Sec. 2-MTWTF 10 Not open to those who have taken 10 or 20. Covers same material as 10 and 20.

#### 164 Persuasion 3 Cr. (8 weeks)\*

Audience, motivation, principles of attention and suggestion, bases of belief and action applicable to persuasive speaking. Practice in preparation and delivery of oral argument. P, minimum of 12 credits in speech and/or psychology.

#### 170-174 Special Problems 1-4 Cr. (5 or 8 weeks)\*

Special problems in several areas of Speech. Individual work. P, 24 credits in Speech or graduate standing. May be repeated but limited to total of 6

# Workshops — Special Events

Registration for workshops beginning after the end of the fifth week will be in Ag Hall 106, from 8:00-10:00 a.m.

A student who has not made application must be prepared to fill out the necessary forms, present credentials to prove qualification for taking courses desired, and pay the necessary fees.

Late registration fee of \$10.00 may be charged if registration is done after the

Registration in the workshops listed below will be on July 15, 1963:

GN 93 Instructors Course in Home Nursing

PE 185 Workshop in Outdoor Education

PE 49 Driver Education

Ed 170 Guidance and Counseling Work-

CD 172 Problems in Family Relations and Child Development

PHN 80 Public Health Administration

#### WORKSHOPS

GN 144 Special Problems in Nursing Education "Tuberculosis Nursing in the Curriculum" 3 Cr. 2 weeks, June 17-29

Workshop to present the newer concepts of tuberculosis nursing and to assist instructors and/or supervisors in identifying content to be included in basic or in-service education programs. Lecture, group work, demonstrations and clinical experience at the Sioux Sanatorium in Rapid City, South Dakota. Limited to 16 students. Registration at 8 a.m. in Nursing Division office. P, consent of instructor.

#### GN 93 Instructors Course in Home Nursing 2 Cr. 1 week, July 15-19

Thirty-six hour workshop which includes lecture and laboratory for teachers and graduate nurses who will be teaching classes of community groups. Offers special training in effective methods of teaching home care of the sick. Limited to 14 students. P, consent of the instructor.

#### PE 185 Workshop in Outdoor Education July 15-19, MTWTF 8-12, 1-5

Designed to help teachers, administrators and recreation leaders in planning a program of outdoor education and camping. Curriculum construction, teaching methods, program content and administrative problems will be covered. Sharing of experiences, needs, and ideas concerned with camping, and boating and water safety will be an important part of the workshop. P, consent of director. For further information write to James Marking, Director of Workshop.

#### Ed 170 Guidance and Counseling Workshop 3 Cr. July 15-26, MTWTF 9-4

This course is designed to provide time for study of selected problem areas in counseling and guidance. The needs and interests of class members will determine, to an extent, the course content. Case study and case conference techniques will be included in this workshop. A conference for the GATB will be held for interested individuals. Exchanging ideas and experience with others who have similar interests and responsibilities will be an interesting feature of the workshop. A nationally known guidance authority will be scheduled as a speaker for this workshop. In addition, outstanding guest speakers and consultants will be scheduled for general sessions of our program during the week. For further information, write to Dr. E. L. Whitmore, Director of the Workshop, State College.

<sup>\*</sup>Time and/or credit to be arranged.

PE 49 Driver Education 3 Cr. July 15-26

Basic course for preparation of driver education instructors for secondary schools and "out-of-schools" programs. Techniques, materials, equipment and facilities in the organization, administration, and teaching of driver education. Classroom instruction and road practice. P, Ed 45 and consent of instructor.

#### PHN 80 Public Health Administration 3 Cr.

2 weeks, July 15-26

Current health problems, organization and administration of health agencies, principles of epidemiology, biostatics and sanitation in relation to home, school and community 36 hours each week. Open to nursing students and practicing public-health nurses.

CD 172 Problems in Family Relations and Child Development 3 Cr. July 15-27, MTWTF 9-4

Consideration of the functions and problems of the changing American family. Emphasis on the dynamic interaction patterns of the family members. Special interests of the group will be considered. Of value to teachers, social workers, nurses, counselors, extension workers, scout leaders, and recreational directors.

For further information write to Department of Child Development and Family Relations, Division of Home Economics, South Dakota State College, Brookings, South Dakota. 147 or 170 or 263 Institute for School Publications

1½-3 Cr. July 15-19—Newspapers July 22-26—Yearbooks

Includes 30 hours in workshop sessions, lectures and special assignments. Covers school newspapers, school yearbooks, staff problems, fundamentals of journalism teaching, and financial problems of school publications.

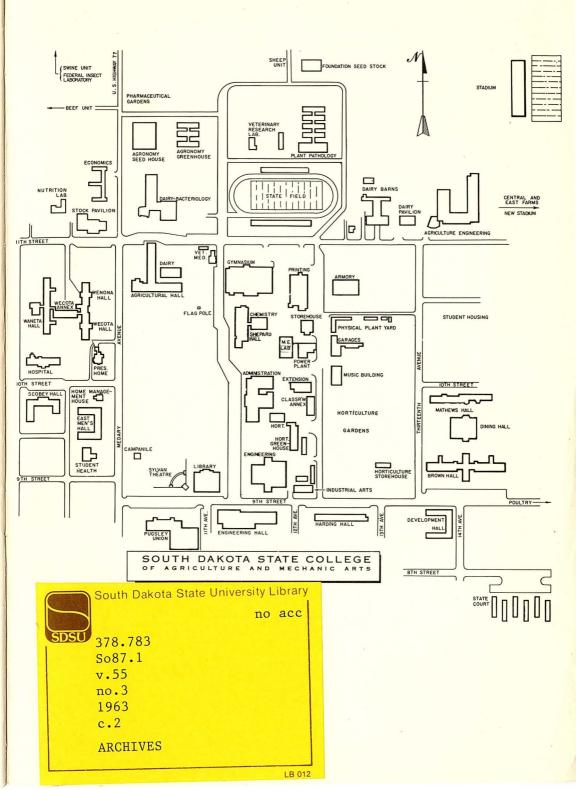
Students desiring more than 1½ credit will arrange with the instructors for additional assignments and projects. Usually those taking 3 credits will remain for the following week. P, 20 credits in language arts or experience in handling school publications.

#### Summer School Music Program

During the first five weeks of the summer term the Department of Music will have, as a special service to all students, a summer school chorus.

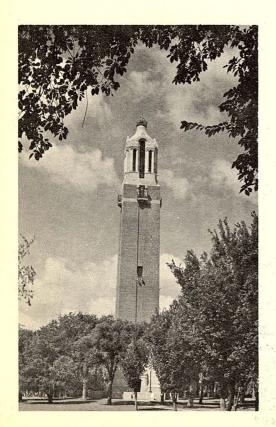
#### **Dramatics**

During the session a play will be presented by the summer school students. Participation in this activity is completely open to all students. Everyone is encouraged to take part. Interested students should call or leave their names with the Speech Department (Speech Building 106—Ext. 488, 489).



### HERE IS YOUR 1963 SUMMER SESSION BULLETIN

from SOUTH DAKOTA STATE COLLEGE College Station, Brookings, South Dakota Second Class Matter



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