

BULLETIN
OF THE
AGRICULTURAL AND MECHANICAL
COLLEGE OF TEXAS

Fourth Series, Vol. 12

MARCH 1, 1941

No. 3

THE SUMMER SESSION NUMBER
JUNE 9, - - AUGUST 30, 1941

FIRST TERM—June 9-July 19

SECOND TERM—July 21-August 30

Open to Men and Women



COLLEGE STATION, TEXAS

Published monthly in the months of January to June, inclusive, and
semi-monthly in the months of July to December inclusive

Entered as second-class matter August 7, 1913, at the postoffice at
College Station, Texas, under the act of August 24, 1912.

GENERAL STATEMENT

The Summer Session offers work in practically all the major fields of learning represented in the College. The general purpose is to thus extend the activities of the resident teaching division of the College throughout the entire calendar year.

The large variety of courses now available in the Summer Session gives the regular student, the teacher, county agent, and others engaged during the winter months, opportunity to take work for college credit and for further professional improvement. Men and women are admitted to the summer session courses.

CALENDAR — 1941

COLLEGE DIVISION

- June 9 Monday 8 a. m. to 5 p. m., Registration for the first term.
- June 10 Tuesday, Classes begin at 7:30 a. m.
- June 12 Thursday. Last day for registration in the College Division for credit during the first term.
- July 4 Independence Day.
- July 17-19 First term examinations begin 1 p. m. Thursday.
- July 21 Monday 8 a. m. to 12 noon, Registration for the second term.
- July 21 Monday, classes begin at 1 p. m.
- July 24 Thursday. Last day for registration in the College Division for credit during the second term.
- August 29-30 Second term examinations begin 1 p. m. Thursday.

NON-COLLEGE DIVISION

- June 9 to July 13—The Summer Cotton School.
- June 16-20 Cotton Seed Oil Millers' Short Course.
- June 23-28 Conference of County Superintendents and Rural School Supervisors.
- June 23-28 Texas School Administration Conference.
- July 7-13 Farm Security Administration Conference.
- July 13-18 Farmer's Short Course.
- July 20-25 Firemen's Training School.
- August 18-23 Annual Coaching School.

EXECUTIVE COMMITTEE OF THE SUMMER SESSION

T. O. Walton, LL.D., President of the College

C. H. Winkler, Ph.D., Director of the Summer Session.

F. C. Bolton, M.S., LL.D., Dean of the College.

Edwin Jackson Kyle, M.S.A., Dean of the School of Agriculture.

T. D. Brooks, Ph.D., Dean of the School of Arts and Sciences; Dean of
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R. P. Marsteller, D.V.M., Dean of the School of Veterinary Medicine.

Gibb Gilchrist, C.E., Dean of the School of Engineering.

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Frank C. Bolton, M.S., LL.D., Dean of the College.

Ike Ashburn, Executive Assistant to the President.

Edwin Jackson Kyle, B.S., B.S.A., M.S.A., Dean of the School of Agriculture.

Thomas Dudley Brooks, Ph.D., Dean of the Graduate School and of the School of Arts and Sciences.

Ross Perry Marsteller, D.V.M., Dean of the School of Veterinary Medicine.

Gibb Gilchrist, C.E., Dean of the School of Engineering.

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Arbuckle, W.S., Ph.D., Assistant Professor of Dairy Husbandry.
Armistead, W. W., D.V.M., Instructor in Veterinary Medicine and Surgery.
Arnold, F. H., Ph.D., Associate Professor of Agricultural Economics.
Asmundson, V. S., Ph.D., Professor of Poultry Husbandry, University of California.
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Bagley, J. B., B.A., Professor of Cotton Marketing.
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Baker, C. L., M.A., Professor of Geology.
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Bass, J. H., Ph.D., Instructor in History.
Bebout, H., M.S., Instructor in Agricultural Economics.
Benson, O. H., National Director of Rural Scouting, Boy Scouts of America.
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Blumberg, A. A., M.S., Assistant Professor of Mathematics.
Bonham, K., Ph.D., Assistant Professor of Fish and Game.
Bremner, R. W., Ph.D., Assistant Professor of Chemistry.
Bretz, T. W., Ph.D., Instructor in Biology.
Brewer, A. V., M.S., Professor of Mechanical Engineering.
Brewster, W., M.A., Instructor in Biology.
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Brown, S. O., Ph.D., Assistant Professor of Biology.
Brown, V. K., Director of Playgrounds for Park Boards of Chicago.
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Clark, F. B., Ph.D., Professor of Economics.
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Crawford, C. W., M.S., Professor of Mechanical Engineering.
Dahlberg, F. I., M.S., Assistant Professor of Animal Husbandry.
Dana, B. R., M.S., Instructor in Animal Husbandry.
Darnell, A. L., M.A., Professor of Dairy Husbandry.
Davis, D. R., M.S., Instructor in Rural Sociology.
Davis, N. C., M.S., Instructor in Rural Sociology.
Davis, W. B., Ph.D., Professor of Fish and Game.
Dillingham, H. C., A.M., Professor of Electrical Engineering.
Doak, C. C., Ph.D., Professor of Biology.
Donahue, R. L., Ph.D., Associate Professor of Agronomy.
Downard, R. W., Assistant Professor of Mechanical Engineering.
Dulan, H. A., M.B.A., Assistant Professor of Accounting and Statistics.
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Finney, C. J., B.S., Professor of Architecture.
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Freeman, L. E., M.S., Assistant Principal, Austin Senior High School, Houston, Education.
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Gettys, P. L., Ph.D., Professor of Business Law.
Glenn, E. W., M.S., Associate Professor of Industrial Education.
Godbey, C. S., M.S., Professor of Genetics.
Goldich, S. S., Ph.D., Assistant Professor of Geology.
Gray, J. A., M.S., Instructor in Animal Husbandry.
Groneman, C. H., M.S., Instructor in Industrial Education.
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Hamilton, T. R., Ph.D., Professor of Accounting and Statistics.
Harrington, E. L., C.E., Instructor in Civil Engineering.
Harter, E. L., M.A., Assistant Professor of Chemistry.
Hedgcock, E. D. M.A., Instructor in English.
Hedges, C. C., Ph.D., Professor of Chemistry and Chemical Engineering.
Higgins, P. R., B.S., Instructor in Aeronautical Engineering.

- Hobgood, P., M.S., Instructor in Agricultural Engineering.
Holland, B. R., M.S., Instructor in Chemistry.
Hopper, J. S., M.S., Assistant Professor of Mechanical Engineering.
Hughes, M. C., E.E., Professor of Electrical Engineering.
Hughes, W. L., M.S., Professor of Education.
Humbert, E. P., Ph.D., Professor of Genetics.
Hunt, R. L., Ph.D., Professor of Agricultural Economics.
Jaggi, F. P., Jr., D.V.M., Professor of Veterinary Hygiene.
Jensen, F. W., Ph.D., Professor of Chemistry.
Jones, B. C., M.S., Assistant Professor of Chemistry.
Jones, D. C., B.A., Professor of Mathematics.
Jones, F. R., M.S., Professor of Agricultural Engineering.
Jones, L. G., Ph.D., Professor of Agronomy.
Keim, S. T., M.S., Instructor in Economics.
Key, P. C., M.A., Assistant Professor of English.
Kimball, P. W., M.S., Instructor in Agricultural Economics.
Kidd, H. L., M.A., Instructor in English.
Klipple, E. C., Ph.D., Assistant Professor of Mathematics.
Koehn, L. A., B.A., Assistant Professor of Chemistry.
LaMotte, C., Ph.D., Professor of Biology.
Lange, S. W., D.V.M., Assistant Professor of Veterinary Anatomy.
Langford, E., M.S., Professor of Architecture.
Laverty, C. D., A.M., Instructor in English.
Leland, T. W., C.P.A., Professor of Accounting and Statistics.
Lenert, A. A., D.V.M., Professor of Veterinary Medicine and Surgery.
Limouze, A. S., M.A., Instructor in English.
Little, V. A., M.S., Professor of Entomology.
Long, W. E., M.S., Professor of Mechanical Engineering.
Lyle, R. R., A.M., Instructor in Mathematics.
Markle, E. W., M.S., Professor of Electrical Engineering.
Martin, H. C., M.S., Instructor in Economics.
McAfee, T. E., M.S., Instructor in Agronomy.
McGee, R. V., M.S., Assistant Professor of Mathematics.
McGinnis, N. M., B.S., Professor of Landscape Art.
McGuire, J. G., M.S., Assistant Professor of Engineering Drawing.
McNew, J. T. L., C.E., Professor of Highway Engineering.
Melass, V. H., Ph.D., Instructor in Animal Husbandry.
Middleton, E. B., Ph.D., Associate Professor of Chemistry.
Milliff, J. H., D.V.M., Assistant Professor of Veterinary Pathology and Bacteriology.
Mitchell, J. W., A.B., Professor of Mathematics.
Molyneaux, J. L., M.A., Assistant Professor of Rural Sociology.
Moore, B. C., M.A., Instructor in Mathematics.
Mundhenk, R. L., D.V.M., Professor of Veterinary Anatomy.
Munson, T. A. M.S., Professor of Hydraulic Engineering.
Murphey, C. E., Assistant Professor of Animal Husbandry.

- Nelson, A. B., Ph.D., Assistant Professor of History.
 Nelson, M. F., M.A., Instructor in History.
 Nelson, T. R., M.A., Associate Professor of Mathematics.
 Nutter, P. A., A.M., Associate Professor of Economics.
 Oliver, J. P., M.S., Assistant Professor of Engineering Drawing.
 Orchard, J. M., M.S., Assistant Professor of Agricultural Education.
 Orr, J. A., M.S., Associate Professor of Civil Engineering.
 Osburn, J. R., M.S., Instructor in Civil Engineering.
 Ozier, T. S., D.V.M., Instructor in Veterinary Pathology and Bacteriology.
 Paine, L. S., M.A., Associate Professor of Agricultural Economics.
 Parnell, E. D., M.S., Associate Professor of Poultry Husbandry.
 Penberthy, W. L., B.S., Professor of Physical Education.
 Peikert, F. W., M.S., Associate Professor of Agricultural Engineering.
 Porter, W. L., M.S., Professor of Mathematics.
 Potter, G. E., Ph.D., Professor of Zoology.
 Potts, R. C., B.S., Assistant Professor of Agronomy.
 Powers, J. G., Assistant Professor of Cotton Marketing.
 Redmond, H. E., D.V.M., Instructor in Veterinary Medicine and Surgery.
 Reed, A. D., M.S., Instructor in Agricultural Economics.
 Reid, D. H., M.S., Professor of Poultry Husbandry.
 Rich, G. C., D.V.M., Assistant Professor of Veterinary Medicine and Surgery.
 Rigsby, H. P., Instructor in Mechanical Engineering.
 Robbins, E. T., M.S., Superintendent of Taylor Public Schools, Education.
 Rode, N. F., E.E., Professor of Electrical Engineering.
 Ross, H., M.S., Professor of Agricultural Education.
 Ross, J. W., M.A., Associate Professor of Mathematics.
 Rubin, H. L., D.V.M., Instructor in Veterinary Anatomy.
 Russell, Dan, A.M., Professor of Rural Sociology.
 Samuelson, G. J., Ph.D., Associate Professor of Chemistry.
 Schlesselman, G. W., Ph.D., Professor of Agricultural Economics.
 Schuessler, N. G., M.S., Associate Professor of Animal Husbandry.
 Silvey, O. W., Ph.D., Professor of Physics.
 Simpson, W. M., C.P.A., Associate Professor of Accounting and Statistics.
 Smith, F. M., Ph.D., Assistant Professor of Chemistry.
 Snuggs, R. E., M.S., Assistant Professor of Chemistry.
 Spaulding, K. A., M.A., Instructor in English.
 Spencer, H. C., M.S., Professor of Engineering Drawing.
 Spriggs, C. O., M.A., Professor of Public Speaking.
 Steel, E. W., C.E., Professor of Municipal and Sanitary Engineering.
 Steen, R. W., Ph.D., Associate Professor of History.
 Stubbs, S. M., B.S., Assistant Professor of Accounting and Statistics.
 Sugareff, V. K., A.M., Professor of History.
 Summey, Geo., Jr., Ph.D., Professor of English.
 Sweet, R. B., Pastor, College Christian Church, Religion.
 Taylor, W. P., Ph.D., Professor of Fish and Game.

- Thompson, G. C., M.S., Instructor in Economics.
Thompson, L. M., B.S., Instructor in Agronomy.
Thompson, L. P., M.S., Instructor in Mechanical Engineering.
Thompson, T. B., B.S., Assistant Professor of Architecture.
Tibbitts, F. L., D.Ed., Director of Guidance, University of Oklahoma.
Trail, J. A., M.S.E., Associate Professor of Mechanical Engineering.
Trotter, I. P., Ph. D., Professor of Agronomy.
Truettner, W. I., M.S.E., Associate Professor of Mechanical Engineering.
Turner, C. W., Ph.D., Professor of Dairy Husbandry, University of Missouri.
Vance, H., B.S., Professor of Petroleum Engineering.
Van Volkenburg, H. L., M.S., Professor of Veterinary Parasitology.
Vaughn, F. A., B.S., Instructor in Civil Engineering.
Vezey, E. E., M.S., Professor of Physics.
Von Roeder, R. J., B.S., Assistant Professor of Animal Husbandry.
Watson, W. M., Assistant in Mechanical Engineering.
Wilcox, G. B., A.M., Professor of Education.
Williams, D. W., M.S., Professor of Animal Husbandry.
Williams, E. L., M.S., Professor of Industrial Education.
Wingren, R. M., M.S., Associate Professor of Mechanical Engineering.
Winkler, C. H., Ph.D., Professor of Psychology, Director of the Summer Session.
Woolket, J. J., M.A., Professor of Modern Languages.
Wright, H. E., B.S., Instructor in Horticulture.

ORGANIZATION

1. The College division. In addition to the six and twelve weeks course of the College division and the Graduate School, the Summer Session provides a number of short unit courses extending over a period of two or three weeks to meet the needs of adults (teachers and other professionals) who can not leave their jobs for a longer period of time. Field and tour courses are available to advanced students in Agricultural Economics, Architecture, Geology, Petroleum Engineering and Fish and Game Conservation.
2. The Non-College division, includes:
 - a. The Summer Cotton School.
 - b. The Texas School Administration Conference, the Conference of County and Rural School Supervisors, and the Farm Security Administration Conference.
 - c. A number of Short Courses, as: The Farmers' Short Course; The Firemens' Training School; The Short Course for Oil Mill Operators; and the Annual Coaching School.

ADMISSION

All communications in regard to admission should be addressed to the Registrar, Agricultural and Mechanical College of Texas, College Station, Texas.

In the College Division courses will be offered subject to the same general admission requirements as in the regular session. (See general catalogue).

There are no specific academic requirements for admission to the general Short Courses and the Summer Cotton School.

All undergraduate courses in the Summer School are open to men and women.

BOARD AND ROOM

Excellent room accommodations are provided for Summer Session students in the College dormitories. Walton Hall will be used by women students and married students.

In addition to the college dormitories the fourteen two-story cottages designed especially for "project groups" will be available for the summer session students. These houses of eight rooms with thirty-two beds are very suitable for groups who may desire to live together on a cooperative plan. Occupants of dormitory rooms and the project houses must provide their own linen, pillows, and towels. Dormitory rooms will not be ready for summer session students before four o'clock Sunday afternoon, June 8.

The city of Bryan, adjoining the College Campus, affords splendid facilities for those students desiring room and board in private homes. Teachers, graduate students, and others who desire to bring their families, may secure a furnished house or rooms for light housekeeping at reasonable rates during the summer months.

Meals may be had on the campus in the College Dining Hall; at the coffee shop, dining room, or terrace of the Aggie-land Inn, and at the confectionery in the Y. M. C. A. Building.

The college dining hall will be open throughout the summer and will serve meals to summer session students at the following rates:

For the term of six weeks.....	\$27.00
Three weeks (for short course students).....	14.50
One week (for conference students).....	5.00

Single meals, thirty-five cents (35¢). Meal tickets and coupon books may be purchased at the dining hall.

EQUIPMENT

The entire educational facilities of the College are available for students of the Summer Session. Buildings are well lighted and equipped with modern shops and laboratories. The College farms and greenhouses are conveniently located and form an important part of the instructional facilities for students in agriculture.

The general library will be open during the Summer Session on week days from 8 a. m. to 10 p. m.

The College Book Store on the campus carries a complete line of text books, reference books, stationery and general supplies needed by students. Used books and general college students' supplies are also sold at the local Co-op store.

RECREATION AND ENTERTAINMENT

The College provides a variety of interesting lectures and entertainment at no extra cost to the student. In addition to these special lectures, students are invited to participate in the "forums", the sessions of the general short courses, and Educational Conferences. Speakers of national prominence in the fields of education, rural life, and farm economics appear on the programs of these special groups.

Good health demands that a considerable amount of play and recreation be combined with the student's work. The College tennis courts, swimming pool, and the bowling alley in the Y. M. C. A. building are available to students interested in this form of recreation. The soft ball league schedules one or more contests daily throughout the Summer Session. Students interested in golf may obtain a special summer rate at the Country Club.

VISITING PROFESSORS ON SUMMER STAFF

It is the policy of the Summer Session to bring to its students in addition to the distinguished members of the regular teaching staff a number of visiting professors, specialists who stand at the top of their profession. Definite arrangements have been completed for the following visiting professors this summer.

DR. V. S. ASMUNDSON IN POULTRY HUSBANDRY

(See P. H. 413s. *Turkey Production*. 3 weeks. p 42).

Dr. Asmundson received his B.S.A. Degree from the University of Saskatchewan in 1918; M.S.A. Degree from Cornell University in 1920, and the Ph.D. Degree from the University of Wisconsin in 1930. In 1933 he received the annual award of the Poultry Science Association for the best contribution to poultry research published in that year.

He is a member of the World's Poultry Science Association and has been devoting a good deal of his time during the last few years to the study of inheritance in turkeys. He is recognized as an outstanding authority on this subject.

MR. O. H. BENSON IN RURAL SOCIOLOGY.

(See R. S. 506. *Rural Youth Leadership*. 3 weeks. p. 43)

Mr. Benson, National Director of Rural Scouting, Boy Scouts of America, has for several decades been an outstanding figure in the development of youth leadership. Prior to his ten years service with the Federal Government as Director of 4-H Club Work he taught in the rural and city Schools in Iowa and served five years as County Superintendent of Schools in Wright County, Iowa.

In Boy Scouts of America, Mr. Benson has served in every capacity from that of Scoutmaster to National Director. He has also served as Director of the "Junior Achievement Incorporated" Eastern States League which promotes leisure time education in business, industrial vocations and jobs of industrial cities of New England and the Eastern States.

MR. V. K. BROWN IN RURAL SOCIOLOGY

(See R. S. 506. *Rural Youth Leadership*. 3 weeks. p. 43)

Mr. Brown, Director of Playgrounds for the Chicago Park Board, is one of the outstanding recreational leaders of the country. For more than twenty years Mr. Brown has directed playground activities for the Park Boards of Chicago where he has made an enviable reputation for the thorough and comprehensive program of community recreation developed to reach all age and interest groups. He is considered one of the outstanding authorities in the Nation on community recreational activities and is a recognized authority and adviser on recreational programs.

DR. F. L. TIBBITTS IN GUIDANCE.

(See Educ. 427 p. 31; I. E. 406 p 36; 6 weeks)

Dr. Tibbitts of the University of Oklahoma, and director of guidance projects of the State of Oklahoma, has had extensive experience as teacher and counselor (See p. 16).

DR. C. W. TURNER IN DAIRY HUSBANDRY.

(See D. H. 424. *Endocrinology of Milk Secretion*.
3 weeks. p. 30)

Dr. Turner is one of the leading authorities in the United States on the physiology and genetics of milk secretion. His

research work at the University of Missouri has contributed much to our knowledge of hormones and their effect on the growth and functioning of the mammary gland. Dr. Turner has been with the University of Missouri since 1920 holding the position of Professor of Dairy Husbandry at that institution.

MR. ED. N. WENTWORTH IN ANIMAL HUSBANDRY

(See A.H. 519. *Marketing Livestock and Meats*. 3 weeks. p. 26)

Mr. Wentworth, Director Livestock Bureau, Armour and Company, is internationally recognized as an authority in the field of livestock marketing. He holds two degrees from Iowa State College and has studied at Cornell and Harvard Universities. He formerly taught at Iowa State College, Chicago Veterinary College and Kansas State College. He has been director of Armour's Livestock Bureau since 1923.

SPECIAL WORK IN GUIDANCE

In continuing the special work in guidance initiated by the Summer Session last year the 1941 session again offers unusual opportunities to teachers and students who are interested in the several fields of guidance.

Dr. Fred Lyman Tibbitts of Oklahoma University has been secured as a visiting professor for the first term of the summer session and will offer two three-credit-hour courses in the field of educational and vocational guidance. These will be offered in addition to the usual courses given by the regular staff.

Dr. Tibbitts is a graduate of Stanford University and has had teaching experience in several colleges and universities of Oklahoma. He was formerly connected with the U. S. Veterans Bureau of Holdenville, Oklahoma and at San Antonio in the capacity of vocational counsellor. He is now director of guidance projects in the State of Oklahoma.

In one course Dr. Tibbitts will deal with occupational information, its sources, and interpretation. In the other course he will deal with general educational guidance concerning the clinical method of diagnostic techniques and counseling on the secondary school level.

In addition to these special courses the subject of educational guidance will constitute a very important topic in the

discussions of the Texas School Administration Conference, in its meeting June 23-28, 1941.

GRADUATE STUDY AND ADVANCED DEGREES

An increasing number of teachers and others engaged in professional and technical work is turning to the Summer Session for graduate study. In recognition of the demand for special and advanced studies by this in-service group the College is enlarging its summer program of graduate work. Approximately one hundred courses offered this summer are exclusively for the student who has already earned the baccalaureate degree. If interested in work leading to either the Master's degree or the Doctor of Philosophy degree, write for The Graduate School Bulletin.

IMPORTANT CHANGES OF HOURS AND REQUIREMENTS

The following modifications in graduate school regulations in requirements for the master's degree, as they operate in the case of summer school students, have been adopted by the Faculty of the Agricultural and Mechanical College of Texas, and are now in effect:

1. That six instead of eight credit hours be considered the normal load for a graduate student in any six-weeks summer term.

2. That a graduate student who, as a graduate student, in the term next preceding made a grade point ratio of 2.25 be allowed to register for seven credit hours.

3. That credit, not to exceed a total of eight semester hours, be allowed on a thesis done out residence, if properly registered for, credit to be entered when the thesis is approved.

4. That students be allowed to complete residence requirements for the M.S. degree in four six-weeks summer terms, provided an acceptable thesis is done out of residence.

5. That graduate students majoring in Agricultural Education, Education, or Industrial Education may, on recommendation of the head of their major department, become candidates for the Master of Education degree. The requirements for this degree shall be the completion of thirty-two hours of course work, done in residence in not less than five six-weeks summer terms, and a satisfactory comprehensive final examination. The preparation of a thesis embodying original research will not be required for this degree.

Except as noted above, the requirements for the Master of Education degree are identical with those for the Master of Science degree.

Students who have begun work for the Master of Science degree and desire to work for the Master of Education degree must file request for permission to make the change. The additional requirements must, in each case, be determined individually.

EXPENSES

For students in the College and in the Cotton Summer School:

Matriculation fee, per term.....	\$15.00
Medical Service fee, per term.....	2.00
Room rent per term of six weeks (including janitor service)	8.50

HOW TO REGISTER

All Summer Session students who were in attendance last summer or the long session of 1940-41 and all new students who have been issued enrollment permits will begin registration in the Agriculture Building. All other students will report to the Registrar's Office, first floor Administration Building for enrollment permits before beginning registration.

1. Obtain registration and assignment cards from the registration desk at the front entrance to the Agriculture Building.
2. See the head of the Department about courses you wish to take. On registration day, Heads of Departments will be located in various offices and class rooms of the Agriculture Building. After day of registration, they will be found in their respective offices.
3. Pay all fees at Fiscal Office, first floor Administration Building.
4. Report to the Dean of the School in which your major work is being done for approval of your assignment card. The Dean's Offices are located on the second floor of the Administration Building.

5. Report to the Commandant's Desk, rotunda of the Administration Building.
6. Return your assignment card to the Registrar's Office first floor Administration Building. This completes your registration.

GRADUATE STUDENTS

All former graduate students will follow the above procedure in registering. New students entering the Graduate School should obtain enrollment permits from the Dean of the Graduate School, Room 206, Administration Building.

THE COLLEGE

June 9 to August 30

All courses in this division carry college credit and are open only to those who have had the prerequisite training. The work will be given in two terms of six weeks each.

The maximum number of hours that an undergraduate student may take in a six weeks term is six semester hours except in the case of students making a superior record during the regular session. With the consent of the student's Dean these students may take seven semester hours.

All rules of the regular session apply to the Summer Session in the matter of prerequisites, grades, examinations and class absences.

Only in special cases will registration for work in the College Division be permitted after the fourth day of each term.

A late registration fee of \$2.00 will be required of students who do not complete their registration during the hours set aside for this purpose the first day of each term.

The College reserves the right to withdraw any course or section designated primarily for freshmen and sophomores in which the enrollment is less than ten students and any junior or senior course with an enrollment less than six students.

COURSES OF INSTRUCTION BY DEPARTMENTS

For a description of the courses listed below, see the general College catalogue. This catalogue may be obtained from the Registrar. Figures in parenthesis indicate recitation hours per week. Figures in brackets indicate value of courses in semester hours.

Recitations begin at 7:30. The forenoon is divided into four class periods, as follows:

- First period from 7:30 to 8:45.
- Second period from 8:50 to 10:05.
- Third period from 10:10 to 11:25.
- Fourth period from 11:30 to 12:20.

FIRST TERM

(June 9 to July 19)

ACCOUNTING AND STATISTICS

First Term

201.	Principles of Accounting. Daily 11:30; MWF 1:30-5:30.	(6-12)	[4]
202.	Principles of Accounting. MTThF 7:30; MWF 1:30-5:30.	(6-12)	[4]
416.	Oil Production Accounting. Daily 11:30; MTThF 1:30-4:30.	(6-9)	[3]
502.	Specialized Accounting. (Hours to be arranged).	(9-9)	[4]

Second Term

202.	Principles of Accounting. Daily 7:30; MWF 1:30-4:30.	(9-9)	[4]
303.	Statistical Method. Daily 8:50; MTThF 10:05-12:20.	(9-9)	[4]
504.	Advanced Statistics. (Hours to be arranged).	(9-6)	[4]

AERONAUTICAL ENGINEERING

First Term

- | | | | |
|------|---|--------|------------|
| 201. | Aeronautics.
Daily 8:50. | (9-0) | [3] |
| 211. | Aeronautics—Ground course, primary
stage.
(Hours to be arranged). | (6-6) | [3] |
| 212. | Flight Training, primary stage.
(Hours to be arranged). | | No credit. |
| 311. | Aeronautics—Ground course, Secondary
(Restricted Commercial) phase.
(Hours to be arranged). | (12-9) | [5] |
| 312. | Flight Training, secondary stage.
(Hours to be arranged). | | No credit. |

Second Term

- | | | | |
|------|---|--------|------------|
| 211. | Aeronautics—Ground course, primary
stage.
(Hours to be arranged). | (6-6) | [3] |
| 212. | Flight Training, primary stage.
(Hours to be arranged). | | No credit. |
| 311. | Aeronautics—Ground course, Secondary
(Restricted Commercial) phase.
(Hours to be arranged). | (12-9) | [5] |
| 312. | Flight Training, secondary stage.
(Hours to be arranged). | | No credit. |

AGRICULTURAL ECONOMICS

First Term

- | | | | |
|------|---|-------|-----|
| 301. | Agriculture and Industries of North
America.
Daily 7:30. | (9-0) | [3] |
| 312. | Agricultural Economics.
Daily 8:50. | (9-0) | [3] |
| 314. | Marketing.
Daily 10:10. | (9-0) | [3] |
| 423. | Conservation of Natural Resources.
Prerequisite: Agricultural Economics 312
or Economics 203 and 204, or 403.
Daily 10:10. | (9-0) | [3] |

429. Economic Policy for Agriculture. (6-0) [2]
Prerequisite: Economics 203 and 204,
or 403; or Agricultural Economics 312.
Daily 11:30.
438. World Trade in Relation to Agriculture. (9-0) [3]
Prerequisite: Economics 203, 204, or 403.
Daily 7:30.
502. Advanced Marketing Problems. (12-0) [4]
(Hours to be arranged).
514. Contemporary Problems in Agricultural
Economics. (12-0) [4]
(Hours to be arranged).
- 571 or 572. Research Methods and Problems. (6-18) [4]
(Hours to be arranged).

Second Term

305. Agriculture and Commerce of South
America. (9-0) [3]
Daily 8:50.
312. Agricultural Economics. (9-0) [3]
Daily 7:30.
314. Marketing. (9-0) [3]
Daily 10:10.
- 400s. Field Studies. (0-18) [6]
Prerequisite: Approval of Head of Department.
425. Wholesale and Retail Merchandising. (9-0) [3]
Prerequisite: Economics 203 and 204,
or 403.
Daily 7:30.
426. Sales Organization. (9-0) [3]
Prerequisite: Economics 203 and 204, or 403.
Daily 10:10.
516. Agricultural Geography. (12-0) [4]
(Hours to be arranged).

AGRICULTURAL EDUCATION

First Term

501. Advanced Methods in Agricultural
Education. (6-0) [2]
Daily 7:30.
502. Advanced Methods in Agricultural
Education. (6-0) [2]
MTThF 8:50.

THE SUMMER SESSION

23

505.	Supervised Practice. MTThF 10:10.	(6-0)	[2]
506.	Supervised Farming. Daily 11:30.	(6-0)	[2]
507.	Future Farmer Activities. Daily 11:30.	(6-0)	[2]
508.	Promotional Activities in Vocational Agriculture. MTThF 7:30.	(6-0)	[2]
509.	Part-Time Classes. MTThF 8:50.	(6-0)	[2]
510.	Evening Schools. MTThF 10:10.	(6-0)	[2]
511.	Evening School Problems. Daily 11:30.	(6-0)	[2]
515.	Philosophy of Agricultural Education. MTThF 8:50.	(6-0)	[2]

Second Term

501.	Advanced Methods in Agricultural Education. MTThF 8:50.	(6-0)	[2]
505.	Supervised Farming. Daily 11:30.	(6-0)	[2]
508.	Promotional Activities in Vocational Activities. MTThF 7:30.	(6-0)	[2]

AGRICULTURAL ENGINEERING

First Term

305.	Terracing and Drainage. Daily 11:30; MWF 1:30-4:30.	(6-9)	[3]
322.	Farm Shop. MTThF 8:50-11:25.	(3-9)	[2]
511.	Advanced Farm Shop. MTWTh 1:30-5:30; F 1:30-3:00.	(9-9)	[4]
514.	Advanced Soil Erosion Engineering. (Hours to be arranged).	(9-12)	[4]
517.	Advanced Soil Conservation. (Hours to be arranged).	(9-9)	[4]

Second Term

201.	Farm Machinery. MTThF 10:10; TTh 1:30-4:30.	(6-6)	[3]
424.	Terminology. MWF 11:30 and 1:30-4:30.	(3-9)	[2]
413.	Farm Buildings. MTThF 7:30; (Practice hours to be arranged).	(6-9)	[3]
503.	Advanced Farm Machinery. (Hours to be arranged).	(9-9)	[4]
509.	Advanced Farm Power. (Hours to be arranged).	(6-18)	[4]

AGRONOMY

First Term

105.	Fundamentals of Crop Production. Daily 7:30; TTh 1:30-4:30.	(9-6)	[4]
301.	Soils. Prerequisite: Chemistry 101, 102. Daily 7:30; TTh 1:30-4:30.	(9-6)	[4]
314.	Cereal Crops. Prerequisite: Agronomy 105, Biology 101. Daily 10:10; MW 1:30-4:30.	(9-6)	[4]
413.	Soil and Crop Problems. Prerequisite: Agronomy 105, 301. Daily 10:10.	(9-0)	[3]
417.	Range and Pasture Improvement and Maintenance. (10 student minimum). Prerequisite: Junior Standing. MTThF 8:50.	(6-0)	[2]
418.	Soil Conservation. Prerequisite: Agronomy 301. Daily 7:30; MWF 1:30-4:30.	(9-9)	[4]
505.	Advanced Soils. (Hours to be arranged).	(9-0)	[3]
509.	Research Problems.	Credit 1 to 2 each term.	
	(Hours to be arranged).		
511.	Special Problems.	Credit 1 to 2 each term.	
	(Hours to be arranged).		

Second Term

105.	Fundamentals of Crop Production. Daily 8:50; TTh 1:30-4:30.	(9-6)	[4]
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|------|---|--------|-----|
| 301. | Soils. | (9-6) | [4] |
| | Prerequisite: Chemistry 101, 102.
Daily 7:30; TTh 1:30-4:30. | | |
| 308. | Forage Crops. | (6-6) | [3] |
| | Prerequisite: Agronomy 105, Biology 101.
MTThF 7:30; TTh 1:30-4:30. | | |
| 318. | Agrostology. | (3-12) | [2] |
| | Prerequisite: Agronomy 105, Biology
101 and Junior Classification.
MWF 11:30 and 1:30-5:30. | | |
| 413. | Soil and Crop Problems. | (9-0) | [3] |
| | Prerequisite: Agronomy 105, 301.
Daily 10:10. | | |
| 417. | Range and Pasture Improvement and
Maintenance. | (6-0) | [2] |
| | Prerequisite: Junior standing.
Daily 11:30. | | |

ANIMAL HUSBANDRY

First Term

- | | | | |
|-------|--|--------|-----|
| 107. | General Animal Husbandry. | (6-12) | [3] |
| | Daily 11:30; MWF 1:30-5:30. | | |
| 202. | The Breeds of Farm Animals. | (6-6) | [3] |
| | Prerequisite: Animal Husbandry 107.
MTThF 7:30; TTh 1:30-4:30. | | |
| 203. | Market Classes and Grades of Livestock. | (6-6) | [3] |
| | Prerequisite: Animal Husbandry 107.
Daily 11:30; TTh 1:30-4:30. | | |
| 303. | Animal Nutrition. | (9-9) | [4] |
| | Prerequisite: Chemistry 212, 214.
Daily 8:50; MWF 1:30-4:30. | | |
| 307. | Farm Meats. | (3-6) | [2] |
| | MWF 1:30-4:30. | | |
| 416. | Live Stock Management. | (9-6) | [4] |
| | Prerequisite: Animal Husbandry 409.
Daily 10:10; MW 1:30-4:30. | | |
| 505c. | Advanced Swine Production. | (9-9) | [4] |
| | (Hours to be arranged). | | |
| 505d. | Advanced Horse Production. | (9-9) | [4] |
| | (Hours to be arranged). | | |
| 511. | Advanced Animal Nutrition. | (9-0) | [3] |
| | Daily 7:30. | | |
| 512. | Advanced Animal Nutrition. | (0-9) | [1] |
| | (Hours to be arranged). | | |

519. Marketing Livestock and Meats. 3 credit hours.
June 9-28, 1941. *E. N. Wentworth.*

The physical and economic problems related to the marketing of livestock and meats. World meat trade problems and competitive relations among various countries. Organization of American marketing institutions; cooperative marketing; direct marketing; wholesale and retail meat merchandising; methods of computing carcass and on foot costs; by-products, their value and utilization; commercial research organization; advertising.

While the course will be given for advanced undergraduate and graduate credit, we recognize that many livestock producers and others will wish to attend these lectures for a part or all of the time without reference to College entrance nor credits. For this reason the course is open at all time to visitors. It is hoped that this course may be of the greatest possible service, hence no restrictions on attendance are made. Visitors will be expected to register as "Special Students" and pay the regular charge as indicated for all students.

An inspection trip to a market will be arranged as a part of this course.

(Full time of the student for three weeks).

575. Research in Animal Nutrition. (9-12) [4]
(Hours to be arranged).

Second Term

409. Animal Nutrition and Live Stock Feeding. (9-9) [4]
Daily 7:30; MWF 1:30-4:30.
418. Wool and Mohair. (6-9) [3]
MTThF 8:50; MWF 1:30-4:30.
424. Range Livestock Production. (9-0) [3]
Prerequisite: Animal Husbandry 303 or 409.
Daily 10:10.
431. Meat Plant Operation. (6-18) [4]
MTThF 8:50; (Practice hours to be arranged).
- 505a. Advanced Beef Cattle Production. (9-12) [4]
(Hours to be arranged).
571. Wool and Mohair Research. (9-16) [4]
(Hours to be arranged).

ARCHITECTURE

First Term

- | | | | |
|------|--|-----------------|-----|
| 109. | Freehand Drawing.
(Hours to be arranged). | (0-12) | [1] |
| 111. | Architectural Graphics.
Daily 11:30; MWF 1:30-4:30. | (6-9) | [3] |
| 205. | Freehand Drawing.
(Hours to be arranged). | (0-12) | [1] |
| 455. | Home Planning.
(Hours to be arranged). | 2 or 4 credits. | |

Second Term

(The following four courses to Mexico are offered.
Write Head of Department for descriptive circular.)

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|-------|-----------------------------------|-----------------|
| 418s. | Fine Arts of Mexico. | Credit 3 hours. |
| 419s. | Decorative Architectural Details. | Credit 3 hours. |

BIOLOGY

First Term

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|------|--|--------|-----|
| 101. | General Botany of Seed Plants.
Daily 10:10; MTThF 1:30-4:30. | (9-12) | [4] |
| 111. | General Biology.
(Summer School students needing credit in general biology should take Biology 101. Substitution permitted. Extra credit allowed as free elective). | (6-12) | [3] |
| 206. | Introductory Bacteriology.
Prerequisite: Biology 101 or 211-212.
MTThF 8:50; and 1:30-4:30. | (6-12) | [3] |
| 503. | Advanced Vertebrate Zoology.
(Hours to be arranged). | (3-15) | [3] |
| 513. | Advanced Plant Pathology.
(Hours to be arranged). | (6-18) | [4] |
| 523. | Advanced Plant Morphology.
(Hours to be arranged). | (3-6) | [2] |

Second Term

- | | | | |
|------|---|--------|-----|
| 107. | Animal Biology.
MTThF 8:50 and 1:30-4:30. | (6-12) | [3] |
| 504. | Advanced Embryology.
(Hours to be arranged). | (3-15) | [3] |

522. Research. Credit 1 to 4 hours
(Hours to be arranged).
524. Advanced Plant Morphology. (3-6) [2]
(Hours to be arranged).

CHEMISTRY

First Term

101. General Inorganic Chemistry. (9-9) [4]
Sec. 1 Daily 7:30; MW 1:30-5:30.
Sec. 2 MTThF 7:30; WS 8:50; MW 1:30-5:30.
102. General Inorganic Chemistry. (9-9) [4]
Prerequisite: Chemistry 101.
MTThF 7:30; WS 10:10; MW 1:30-5:30.
103. General Inorganic Chemistry. (9-12) [4]
MTThF 7:30; WS 8:50; MW 1:30-5:30.
206. Organic Chemistry. (9-6) [4]
Prerequisite: Chemistry 102.
Daily 10:10; MW 1:30-4:30.
207. Quantitative Analysis. (6-9) [3]
Prerequisite: Chemistry 102.
Sec. 1 MTThF 8:50; MW 1:30-5:30.
Sec. 2 MTThF 7:30; TTh 1:30-5:30.
212. Agricultural Chemistry. (9-0) [3]
Prerequisite: Chemistry 102.
Daily 7:30.
214. Agricultural Analysis. (3-9) [2]
Prerequisite: Chemistry 102.
TThS 8:50; MW 1:30-5:30.
216. Elementary Quantitative Analysis. (6-24) [5]
Prerequisite: Chemistry 205.
Daily 11:30; (Laboratory hours to be arranged).

Second Term

102. General Inorganic Chemistry. (9-9) [4]
Prerequisite: Chemistry 101.
Sec. 1 Daily 7:30; MW 1:30-5:30.
Sec. 2 MW 7:30; TThFS 8:50; MW 1:30-5:30.
104. General Inorganic Chemistry. (9-12) [4]
MW 7:30; TThFS 10:10; MW 1:30-5:30.
- 400s. Industrial Analysis. Credit 4 hours.
Prerequisite: Chemistry 216.
Daily 7:30 and 1:30-5:30.

CIVIL ENGINEERING

First Term

206. Plane Surveying. (3-6) [2]
Prerequisite: Mathematics 103.
MWF 1:30-4:30.
- 300s. Surveying Practice. [4]
Prerequisite: Civil Engineering 201.
Daily, except S, 8:50-5:30.
305. Mechanics of Materials. (12-0) [4]
Prerequisite: Mathematics 204; Mechanical
Engineering 212 or equivalent.
Daily 7:30 and S 8:50-11:20.

Second Term

201. Plane Surveying. (9-12) [4]
Prerequisite: Mathematics 103.
Daily 10:10; MWF 1:30-5:30.
305. Mechanics of Materials. (12-0) [4]
Prerequisite: Mathematics 204; Mechanical
Engineering 212 or equivalent.
Daily 7:30; W 1:30-3:30.
311. Hydraulics. (9-0) [3]
Prerequisite: Mechanical Engineering 212
or equivalent.
Daily 7:30.
315. Strength of Materials Laboratory. (0-6) [1]
Prerequisite: Civil Engineering 305 or
registration in that course.
TTh 1:30-4:30.
336. Hydraulics Laboratory. (0-6) [1]
Prerequisite: Civil Engineering 311 or
registration therein.
MF 1:30-4:30.

COTTON MARKETING

First Term

107. and 108. Cotton Classing. (6-15) Credit 4 hours each.
(Hours to be arranged).

DAIRY HUSBANDRY

First Term

420. Dairy Management. (9-6) [4]
Prerequisite: Dairy Husbandry 202, Animal Husbandry 303 or 409, and Genetics 301.
Daily 8:50; MW 1:30-4:30.
501. Advanced Dairy Production. (6-18) [4]
Daily 11:30; (Additional hours to be arranged).
- 510s. Endocrinology of Milk Secretion. 3 credit hours.
June 30 to July 19, 1941. *Dr. C. W. Turner.*
A study of the various endocrine organs with special emphasis on their relation to milk secretion.
(Full time of the student for three weeks).

Second Term

202. Dairying. (6-12) [3]
Daily 11:30; TTh 1:30-4:30.
508. Research in Dairy Manufacture. (6-18) [4]
(Hours to be arranged).

ECONOMICS

First Term

203. Principles of Economics. (9-0) [3]
Daily 10:10.
311. Money and Banking. (9-0) [3]
Prerequisite: Economics 203, 204 or 403.
Daily 8:50.
315. Economics of Insurance. (9-0) [3]
Prerequisite: Economics 203, 204, or 403.
Daily 7:30.
316. Business Law. (9-0) [3]
Prerequisite: Sophomore standing.
Daily 8:50.
317. Business Law. (9-0) [3]
Prerequisite: Economics 316.
Daily 10:10.
Or
426. Real Estate Titles and Conveyances. (9-0) [3]
Prerequisite: Economics 316, or 403.
318. Labor Problems. (9-0) [3]
Prerequisite: Economics 203, 204, or 403.
Daily 10:10.

THE SUMMER SESSION

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|------|---|--------|-----|
| 403. | Principles of Economics.
Daily (1) 7:30, (2) 10:10. | (9-0) | [3] |
| 416. | Public Utility Economics.
Prerequisite: Economics 203, 204, or 403.
Daily 7:30. | (9-0) | [3] |
| 501. | History of Economic Doctrines.
Or | (12-0) | [4] |
| 507. | Comparative Economic Theory.
(Hours to be arranged). | (12-0) | [4] |

Second Term

- | | | | |
|------|---|--------|-----|
| 204. | Principles of Economics.
Daily 10:10. | (9-0) | [3] |
| 316. | Business Law.
Prerequisite: Sophomore standing.
Daily 8:50. | (9-0) | [3] |
| 403. | Principles of Economics.
Daily (1) 7:30, (2) 10:10. | (9-0) | [3] |
| 408. | Corporation Finance.
Prerequisite: Economics 403 or its equivalent.
Daily 8:50. | (9-0) | [3] |
| 420. | Principles of Investment.
Prerequisite: Economics 403 or its equivalent.
Daily 10:10. | (9-0) | [3] |
| 502. | History of Economic Doctrines.
(Hours to be arranged). | (12-0) | [4] |
| 506. | Labor Problems.
(Hours to be arranged). | (12-0) | [4] |

EDUCATION

First Term

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|------|---|-------|-----|
| 121. | An Introduction to Education.
Daily 7:30. | (9-0) | [3] |
| 321. | Secondary School Methods.
Daily 8:50. | (9-0) | [3] |
| 426. | Tests and Measurements.
Prerequisite: Junior or Senior standing.
Daily 10:10. | (9-0) | [3] |
| 427. | Administration of Student Personnel.
Daily 10:10. | (9-0) | [3] |
| 508. | Administration of Local School Finance.
Daily 11:30. | (6-0) | [2] |

509. Public School Laws. (6-0) [2]
 MTThF 8:50.
510. Pupil Accounting. (6-0) [2]
 MTThF 7:30.
511. The Newer Techniques in Teaching. (12-0) [4]
 Daily 10:10; (Additional hours to be arranged).

Second Term

321. Secondary School Methods. (9-0) [3]
 Daily 7:30.
322. Secondary School Administration. (9-0) [3]
 Daily 10:10.
504. The Development of Education in Texas. (6-0) [2]
 MTThF 8:50.
515. State School Administration. (6-0) [2]
 MTThF 7:30.
516. Administration of Teacher-Personnel. (6-0) [2]
 Daily 11:30.

ELECTRICAL ENGINEERING

First Term

208. Direct Current Machinery. (9-18) [5]
 Prerequisite: Electrical Engineering 201,
 Mathematics 102, 104.
 Daily 7:30. (Practice Hours to be arranged).
517. Research in Electrical Engineering. Credit 2 to 6 hours.
 (Hours to be arranged).

Second Term

305. Electrical Machinery. (9-9) [4]
 Prerequisite: Physics 204, Mathematics 204.
 Daily 7:30; TTh 1:00-5:30.
431. Engineering Administration. (6-0) [2]
 Prerequisite: Senior Classification.
 MTThF 8:50.
510. Advanced Communication Engineering—
 Radio. (9-9) [4]
 (Hours to be arranged).
512. Application of Electrical Machinery to
 Industrial Operations. (12-0) [4]
 (Hours to be arranged).

ENGINEERING DRAWING

First Term

111. Mechanical Drawing. (0-18) [2]
Daily, Except S, 1:30-5:30.
112. Mechanical Drawing. (0-12) [1]
Prerequisite: Engineering Drawing 111.
MTThF 1:30-4:30.
124. Descriptive Geometry. (6-6) [3]
MTThF 8:50; MW 1:30-4:30.

Second Term

111. Mechanical Drawing. (0-18) [2]
Daily, except S, 1:30-5:00.
112. Mechanical Drawing. (0-12) [1]
Prerequisite: Engineering Drawing 111.
MTThF 1:30-4:30.
124. Descriptive Geometry. (6-6) [3]
MTTrF 8:50; MW 1:30-4:30.

ENGLISH

First Term

103. Rhetoric and Composition. (9-0) [3]
Daily (1) 8:50. (2) 10:10. (3) 7:30.
203. Composition and Literature. (6-0) [2]
Prerequisite: English 103, 104.
MTThF (1) 8:50. (2) 7:30. (3) 10:10. (4) 10:10.
231. English Literature. (9-0) [3]
Prerequisite: English 103, 104.
Daily 10:10.
401. Public Speaking. (0-6) [1]
Prerequisite: English 203, 210, or 231, 232.
(1) Daily 11:30. (2) Daily, except S. 8:50. (3) Daily 11:30.
415. Contemporary Continental Drama. (6-0) [2]
Prerequisite: English 231, 232, or 203, 210.
MTThF 7:30.

Second Term

104. Rhetoric and Composition. (9-0) [3]
Daily (1) 8:50. (2) 7:30. (3) 10:10. (4) 8:50.
210. Writing and Discussion. (6-0) [2]
Prerequisite: English 103, 104.
MTThF (1) 7:30. (2) 10:10. (3) 8:50. (4) 7:30.

232. English Literature. (9-0) [3]
Prerequisite: English 103, 104.
Daily 10:10.
401. Public Speaking. (0-6) [1]
Prerequisite: English 203, 210, or 231, 232.
(1) Daily 11:30. (2) Daily, except S, 8:50. (3) Daily 11:30.
(4) Daily, except S, 10:10.
416. Contemporary English Drama. (6-0) [2]
Prerequisite: English 231, 232, or 203, 210.
MTThF 7:30.

ENTOMOLOGY

First Term

201. General Entomology. (6-6) [3]
Daily 11:30; TTh 1:30-4:30.
507. or 508. Economic Entomology. (9-9) [4]
(Hours to be arranged).

FISH AND GAME

First Term

- 300s. Wildlife Investigations in Old Mexico. Credit 7 hours.
A field course.
- 400s. Stream Survey of the Colorado River
Drainage, Texas. Credit 7 hours.
Prerequisite: Approval of the instructor.
A field course.
- 505s. Advanced Field Studies. Credit 7 hours.
A field course.
573. Research on Wildlife Problems. Credit to be adjusted.
(Hours to be arranged).

Second Term

- 300s. Wildlife Investigations in the Big Bend
Region of Texas. Credit 7 hours.
A field course.
- 505s. Advanced Field Studies. Credit 7 hours.
A field course.
- 506s. Techniques of Wildlife Management. Credit 7 hours.
A field course.
573. Research on Wildlife Problems. Credit to be adjusted.
(Hours to be arranged).

GENETICS

First Term

301. Genetics. (9-6) [4]
Prerequisite: Biology 101 or Biology 207.
Daily 7:30; TTh 1:30-4:30.

Second Term

505. Advanced Biometry. (9-12) [4]
Or
515. Advanced Animal Genetics. (9-0) [3]
(Hours to be arranged).
517. Laboratory Methods in Animal Genetics. (0-12) [1]
(Hours to be arranged).

GEOLOGY

First Term

- 299s. Introduction to Field Geology. Credit 6 hours.
Prerequisite: Approval of Head of Department.

Second Term

- 300s. Field Geology. Credit 7 hours.
Prerequisite: Geology 210 or 302, and
approval of head of department.
400s. Field Geology. Credit 7 hours.
Prerequisite: Geology 300s, and approval
of head of department.
509. Advanced Field Geology. Credit 2 to 6 hours.

HISTORY

First Term

105. History of the United States, 1492-1865. (9-0) [3]
Daily 10:10.
306. American Government. (9-0) [3]
Daily (1) 7:30. (2) 8:50. (3) 10:10.
322. Industrial History of United States. (9-0) [3]
Daily 10:10.
424. American Foreign Relations. (9-0) [3]
Foreign policy of the United States, 1865-1941.
Daily 8:50.

Second Term

106. History of the United States, 1865, 1941. (9-0) [3]
Daily 10:10.
306. American Government. (9-0) [3]
Daily (1) 7:30. (2) 8:50. (3) 10:10.
316. The Institutional Background of Texas,
1519-1845. (9-0) [3]
Daily 10:10.
318. International Developments Since 1918. (9-0) [3]
Daily 8:50.

HORTICULTURE**First Term**

317. Principles of Fruit Production. (6-9) [3]
Prerequisite: Horticulture 201.
MTThF 7:30; MWF 1:30-4:30.
501. Advanced Fruit Growing. (9-9) [4]
(Hours to be arranged).
503. Advanced Vegetable Gardening. (9-9) [4]
Prerequisite: Horticulture 309, 310, or
equivalent work.
(Hours to be arranged).
507. Research Methods. (6-18) [4]
(Hours to be arranged).

Second Term

318. Principles of Fruit Production. (6-9) [3]
Prerequisite: Horticulture 201.
MTThF 7:30; MWF 1:30-4:30.
502. Advanced Fruit Growing. (9-12) [4]
(Hours to be arranged).
504. Advanced Vegetable Gardening. (9-12) [4]
(Hours to be arranged).
508. Research Methods. (6-18) [4]
(Hours to be arranged).

INDUSTRIAL EDUCATION**First Term**

406. Vocational Guidance. (6-0) [2]
MTThF 8:50.
419. Laboratory of Industries Methods. (3-15) [3]
MWF 7:30. (Additional hours to be arranged).

507b.	Organization of Vocational Industrial Schools and Classes. MTThF 10:10.	(6-0)	[2]
508.	Administration and Supervision in Industrial Education. (Hours to be arranged).	(12-0)	[4]
510.	Methods of Teaching High School Drawing. MTThF 8:50. (Additional hours to be arranged).	(6-12)	[3]
518.	Tests and Measurements in Industrial Education. Daily 11:30.	(6-0)	[2]
520b.	Electricity. (Hours to be arranged).	(3-8)	[2]
520c.	Cabinet Making. (Hours to be arranged).	(0-15)	[2]
521.	Philosophy of Vocational Education. Daily 11:30.	(6-0)	[2]
524.	Seminar in Industrial Arts Education. (Hours to be arranged).	(3-0)	[1]

Second Term

507a.	Organization of Industrial Arts Departments. MTThF 10:10.	(6-0)	[2]
514.	Guidance Seminar. MTThF 7:30.	(6-0)	[2]
520e.	Ornamental Metal Work. (Hours to be arranged).	(3-12)	[2]
522.	Philosophy of Industrial Arts Education. Daily 11:30.	(6-0)	[2]

LANDSCAPE ART

First Term

415.	Elementary Design and Construction. Prerequisite: Horticulture 201. Daily 7:30; MWF 1:30-5:30.	(9-12)	[4]
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MATHEMATICS

First Term

101.	Algebra. Daily 10:10.	(9-0)	[3]
102.	Algebra. Daily (1) 10:10. (2) 7:30.	(9-0)	[3]

103. Plane Trigonometry. (9-0) [3]
Daily (1) 7:30. (2) 10:10.
104. Analytics. (12-0) [4]
Prerequisite: Mathematics 101 and 103.
Daily (1) 8:50 and MWF 11:30. (2) 7:30 and TThS 11:30.
203. Calculus. (12-0) [4]
Prerequisite: Mathematics 104.
Daily (1) 7:30 and MWF 11:30. (2) 8:50 and TThS 11:30.
204. Calculus. (12-0) [4]
Prerequisite: Mathematics 104.
Daily (1) 8:50 and MWF 11:30. (2) 10:10 and TThS 11:30.
(3) 7:30 and S 8:50-11:20.
409. Advanced Calculus. (12-0) [4]
(Hours to be arranged).
507. Theory of Functions of a Real Variable. (12-0) [4]
Or
517. Theory of Functions of a Complex Variable. (12-0) [4]
(Hours to be arranged).

Second Term

101. Algebra. (9-0) [3]
Daily 7:30.
102. Algebra. (9-0) [3]
Daily 10:10.
103. Plane Trigonometry. (9-0) [3]
Daily (1) 7:30. (2) 10:10.
104. Analytics. (12-0) [4]
Prerequisite: Mathematics 101, 103, or 111.
Daily (1) 8:50 and MWF 11:30; (2) 7:30 and TThS 11:30.
203. Calculus. (12-0) [4]
Prerequisite: Mathematics 204.
Daily 7:30 and 11:30.
204. Calculus. (12-0) [4]
Prerequisite: Mathematics 203.
Daily (1) 8:50 and 11:30. (2) 7:30 and 11:30. (3) 10:10 and 11:30.
305. Differential Equations. (6-0) [2]
Prerequisite: Mathematics 204.
Daily 11:30.
410. Advanced Calculus. (12-0) [4]
(Hours to be arranged).
511. Ordinary Differential Equations. (12-0) [4]
(Hours to be arranged).

MECHANICAL ENGINEERING

First Term

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|------|---|-------|-----|
| 102. | Engineering Problems.
TThS 11:30; TTh 1:30-4:30. | (3-6) | [2] |
| 201. | Welding and Foundry.
TTh 1:15-5:45. | (0-9) | [1] |
| 212. | Engineering Mechanics.
Prerequisite: Mechanical Engineering 102.
Mathematics 204.
Daily 10:10. | (9-0) | [3] |
| 309. | Machine Shop.
MW 7:30 and 1:30-5:30. | (0-9) | [1] |
| 310. | Machine Shop.
TTh 7:30 and 1:30-5:30. | (0-9) | [1] |

Second Term

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|------|--|--------|-----|
| 102. | Engineering Problems.
TTh 8:50 and 1:30-4:30. | (3-6) | [2] |
| 212. | Engineering Mechanics.
Prerequisite: Mechanical Engineering 102.
Must be preceded or accompanied by
Mathematics 204.
Daily 10:10. | (9-0) | [3] |
| 220. | Engineering Mechanics.
Prerequisite: Mechanical Engineering 120.
Must be preceded or accompanied by
Mathematics 204. (10 student minimum).
Daily 8:50 and MWF 11:30. | (12-0) | [4] |
| 309. | Machine Shop.
MW 8:50 and 1:30-5:30. | (0-9) | [1] |
| 310. | Machine Shop.
TTh 8:50 and 1:30-5:30. | (0-9) | [1] |
| 313. | Engineering Mechanics.
Daily 7:30. | (9-0) | [3] |
| 320. | Thermodynamics.
Prerequisite: Mathematics 204, Physics 204.
Daily 7:30 and 11:30. | (15-0) | [5] |
| 338. | Kinematics and Machine Design.
Must be preceded or accompanied by
Civil Engineering 305.
Daily 11:30; MWF 1:30-4:30. | (6-9) | [3] |
| 403. | Engineering Laboratory. (July 21
August 9).
Prerequisite: Mechanical Engineering 320 or 323.
MTThF 7:30; MTWThF 1:30-5:30. | (6-18) | [2] |

404. Engineering Laboratory. (August
11-30). (6-18) [2]
Prerequisite: Mechanical Engineering 320 or 323.
MTThF 7:30; MTWThF 1:30-5:30.
517. Mechanical Vibrations. (12-0) [4]
Prerequisite: Mechanical Engineering 313,
Mathematics 305.
(Hours to be arranged).

MODERN LANGUAGES

First Term

101. Beginning French. (9-0) [3]
Daily 8:50.
201. Intermediate French. (9-0) [3]
Or
205. Intermediate Spanish. (9-0) [3]
Daily 7:30.

Second Term

102. Beginning French. (9-0) [3]
Daily 8:50.
202. Intermediate French. (9-0) [3]
Or
206. Intermediate Spanish. (9-0) [3]
Daily 7:30.

MUNICIPAL AND SANITARY ENGINEERING

Second Term

406. Sanitation and Public Health. (9-0) [3]
Junior classification.
Daily 7:30.
408. Municipal Administration. (9-0) [3]
Prerequisite: Junior classification.
Daily 10:10.

PETROLEUM ENGINEERING

Second Term

- 327s. Petroleum Engineering Problems. (6-6) [3]
Prerequisite: Petroleum Engineering 204,
305, 306, 307, 308.

PHYSICAL EDUCATION

First Term

207. Health Education. (9-0) [3]
Prerequisite: Sophomore standing and approval of instructor.
Daily 7:30.
405. Public School Activities. (6-6) [3]
Must be preceded or accompanied by Physical Education 313.
Daily 8:50.

Second Term

314. Organization and Administration of Health and Physical Education. (9-0) [3]
Prerequisite: Physical Education 405.
Daily 8:50.
406. Methods of Physical Education. (6-6) [3]
Prerequisite: Physical Education 405.
Daily 11:30; MW 1:30-4:30.

PHYSICS

First Term

201. College Physics. (9-6) [4]
Daily 7:30; TThF 1:30-3:30.
203. General Physics. (12-9) [5]
Prerequisite: Mathematics 102, 104.
Daily 8:50; MWF 11:30 and 1:30-4:30.

Second Term

202. College Physics. (9-6) [4]
Daily 7:30; TThF 1:30-3:30.
204. General Physics. (12-9) [5]
Prerequisite: Mathematics 102, 104.
Daily 10:10; MWF 11:30 and 1:30-4:30.

POULTRY HUSBANDRY

First Term

303. Turkey Production. (6-0) [2]
Daily 11:30.
501. Research Problems. (9-12) [4]
(Hours to be arranged).
503. Advanced Incubation and Brooding. (9-12) [4]
(Hours to be arranged).

Second Term

201. Poultry Production. (6-6) [3]
Daily 11:30; MW 1:30-4:30.
401. Culling and Management. (9-6) [4]
Prerequisite: Poultry Husbandry 201.
Daily 8:50; TTh 1:30-4:30.
- 431s. Turkey Production. 3 credit hours.
July 21 to August 9, 1941 *Dr. V. S. Asmundson*
The theory will consist of lectures on breeding, feeding, marketing, and general turkey management. The practice will consist of breed identification; selection of breeding stock; grading of market turkeys; methods of preparation for market; demonstrations of use of turkey equipment, and a visit to some successful farms that are producing turkeys.
(Full time of the student for three weeks).

PSYCHOLOGY

First Term

301. Educational Psychology. (9-0) [3]
Daily 8:50.

RELIGIOUS EDUCATION

First Term

301. The Life of Christ. (9-0) [3]
Or
307. The Historical Books of the Bible. (9-0) [3]
Daily 8:50.
302. Growth of the Early Church and Development of Christian Doctrine After the Death of Christ. (9-0) [3]
Or

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|------|---|-------|-----|
| 308. | Prophecy in the Old Testament.
Daily 7:30. | (9-0) | [3] |
| 305. | Old Testament Character Studies.
Or | (3-0) | [1] |
| 306. | New Testament Character Studies.
MWTh 8:50 | (3-0) | [1] |

RURAL SOCIOLOGY

First Term

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|------|---|--------|-----|
| 415. | Agricultural Journalism.
MThF 8:50; TTh 1:30-4:30. | (6-6) | [3] |
| 416. | Agricultural Journalism.
Daily 11:30; WF 1:30-4:30. | (6-6) | [3] |
| 506. | Rural Youth Leadership.
June 9 to June 28, 1941, <i>O. H. Benson.</i>
A survey and analysis of the rural youth problems and a discussion of technics of rural youth leadership. The course is meant for school teachers, boy scout leaders, F. F. A., 4-H Club, Y. M. C. A., Y. W. C. A., N. Y. A., and other youth leaders. The course will consist of lectures and field trips to youth projects. | (18-0) | [3] |
| 501. | Advanced Rural Sociology. (June 30 to July 19).
Or | (24-0) | [4] |
| 512. | The Rural Community. (June 30 to July 19).
(Hours to be arranged). | (24-0) | [4] |

Second Term

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|------|--|--------|-----|
| 201. | Introduction to Social Problems.
Daily 8:50. | (9-0) | [3] |
| 311. | Social Psychology.
Daily 7:30. | (9-0) | [3] |
| 407. | Rural Sociology.
Daily 11:30; TTh 1:30-4:30. | (6-6) | [3] |
| 511. | History of Modern Social Thought.
Daily 10:10. (Additional hours to be arranged). | (12-0) | [4] |

VETERINARY ANATOMY

First Term

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|------|--|--------|-----|
| 111. | Veterinary Anatomy.
A course in osteology and arthrology.
Prerequisite: Biology 107 or equivalent.
Daily 7:30. (Practice hours to be arranged). | (9-18) | [5] |
|------|--|--------|-----|

213. **Veterinary Histology.** (6-18) [4]
 A lecture and laboratory course in microscopic veterinary anatomy.
Prerequisite: Veterinary Anatomy 211, or taken concurrently.
MTThF 10:10. (Practice hours to be arranged).

Second Term

112. **Veterinary Anatomy.** (6-18) [4]
 A course in myology and splanchnology.
Prerequisite: Veterinary Anatomy 111.
Daily 7:30. (Practice hours to be arranged).

VETERINARY HYGIENE

First Term

493. **Infectious Diseases.** (9-0) [3]
 A study of the infectious diseases of animals, and the interrelation of infectious diseases of man and animals. **Prerequisite:** Veterinary Medicine 352, Veterinary Surgery 362; Veterinary Pathology 342, 343; Veterinary Pharmacology 334.
Daily 7:30.

VETERINARY MEDICINE AND SURGERY

First Term

351. **Veterinary Medicine.** (9-0) [3]
 Non-infectious diseases. Lectures and demonstrations on physical diagnosis. Diseases of the digestive, circulatory, respiratory, and urinary organs. **Prerequisite:** Veterinary pharmacology 333 and Veterinary Clinic 371 or taken concurrently.
Daily 10:10.
361. **Veterinary General Surgery.** (9-0) [3]
 The principles of surgery, restraint of domestic animals, surgical diagnosis, surgical exercises and unsoundness. **Prerequisite:** Veterinary Pharmacology 333, Veterinary Medicine 351; Veterinary Clinic 371 or taken concurrently.
Daily 8:50.

371. **Veterinary Clinics.** (0-18) [2]
NOTE: All students taking clinics are required to give attention daily to cases assigned, and if necessary laboratory diagnosis and post-mortem examinations must be conducted. Students will visit sick animals on farms, ranches, and other premises near the College. Trips to other parts of the State are required when outbreaks of diseases occur that cannot be studied at the College. About seven thousand cases of non-infectious diseases, infectious diseases and surgical diseases of animals and fowls are treated each year. Prerequisite: Veterinary Medicine 351; Veterinary Surgery 361 or taken concurrently.
(Hours to be arranged).
471. **Veterinary Clinics.** (0-18) [2]
Prerequisite: Veterinary Medicine 352, Veterinary Surgery 362, Veterinary Clinic 372.
(Hours to be arranged).

Second Term

352. **Veterinary Medicine.** (9-0) [3]
Non-infectious diseases. Lectures and demonstrations on physical diagnosis. Diseases of the digestive, circulatory, respiratory, and urinary organs. Prerequisite: Veterinary Medicine 351; Veterinary Clinic 372 and Veterinary Pharmacology 334 or taken concurrently; Veterinary Pathology 341.
Daily 10:10.
362. **Veterinary General Surgery.** (9-0) [3]
The principles of surgery, restraint of domestic animals, surgical diagnosis, surgical exercises and unsoundness. Prerequisite: Veterinary Surgery 361; Veterinary Pathology 341.
Daily 7:30.
- 372s. **Veterinary Clinics.** (0-18) [2]
NOTE: All students taking clinics are required to give Attention daily to cases assigned, and if necessary laboratory diagnosis and post-mortem examinations must be conducted. Students will visit sick animals on farms, ranches, and other premises near the College. Trips to other parts of the States are required when outbreaks of diseases occur that cannot be studied at the College. About seven thousand cases of non-infectious diseases and surgical diseases of animals and fowls are treated each year. Prerequisite: Veterinary Clinic 371; Veterinary Medicine 352 and Veterinary Parasitology 481 or taken concurrently.
(Hours to be arranged).

472. **Veterinary Clinics.** (0-18) [2]
 Prerequisite: Veterinary Clinic 471; Veterinary Pathology 441; Veterinary Hygiene 493; Veterinary Parasitology 481.
 (Hours to be arranged).

VETERINARY PARASITOLOGY

First Term

481. **Parasites of Domestic Animals.** (6-9) [3]
 The parasites infesting farm, ranch, pet and fur bearing animals. Attention is given to symptoms, diagnosis, treatment, control and eradication of parasitic diseases. Practice consists of a study of the morphology of parasites; laboratory and diagnostic methods used in parasitology; the pathology of parasitism. Both fresh and preserved material obtained from the field, clinics and necropsies are utilized in the laboratory. Prerequisite: Veterinary Pathology 342; Veterinary Pharmacology 334.
 Daily 11:30; MWF 1:30-4:30.

Second Term

482. **Parasites of Domestic Animals.** (3-9) [2]
 The parasites infesting farm, ranch, pet and fur bearing animals. Attention is given to symptoms, diagnosis, treatment, control and eradication of parasitic diseases. Practice consists of a study of the morphology of parasites; laboratory and diagnostic methods used in parasitology; the pathology of parasitism. Both fresh and preserved material obtained from the field, clinics and necropsies are utilized in the laboratory. Prerequisite: Veterinary Pathology 342; Veterinary Pharmacology 334; Veterinary Parasitology 481.
 MWF 11:30 and 1:30-4:30.

VETERINARY PATHOLOGY AND BACTERIOLOGY

First Term

341. **Veterinary Special Pathology.** (3-12) [2]
 Lectures on the special systematic pathology and morbid anatomy of the different organs and systems of organs. The pathology of the various infectious and contagious diseases is considered. The practice includes the demonstration of museum and fresh specimens and an introduction to post-mortem technique. Prerequisite: Veterinary Pathology 242.
 MWF 11:30 and 1:30-5:30.

Second Term

341. Veterinary Special Pathology. (3-12) [2]
 Same as above.
 MWF 11:30 and 1:30-5:30.
446. Veterinary Poultry Pathology and Bacteriology. (6-6) [3]
 The pathology of diseases of poultry will be considered from clinical, pathological, bacteriological and parasitical standpoints. Prevention, control and treatment will also be given consideration. Prerequisite: Veterinary Pathology 343, 441; Veterinary Hygiene 493; Veterinary Parasitology 481.
 MTThF 8:50; TTh 1:30-4:30.

VETERINARY PHYSIOLOGY AND PHARMACOLOGY**First Term**

121. Veterinary Physiology. (6-0) [2]
 An introductory course in the study of physiology; physiochemical basis of physiology; fundamental properties of animal protoplasm. Prerequisite: Chemistry 101, 102.
 Daily 11:30.
333. Veterinary Pharmacology. (9-9) [4]
 Metrology; history of therapeutics; sources and composition of drugs; methods of administration, factors influencing the actions of drugs; posology; prescription writing; drugs affecting the various tissues and organs of the body. The practice consists of identification of crude drugs; extractions of drug constituents; manufacture of type of official and a few nonofficial preparations; prescription compounds; chemic, pharmaceutic and biologic assay methods; actions of drugs on experimental animals. Prerequisite: Veterinary Physiology 222, Veterinary Pathology 242.
 Daily 8:50; MWF 1:30-4:30.

Second Term

122. Veterinary Physiology. (6-9) [3]
 Digestion and absorption in the domestic animals. Chemical physiology, with special reference to food, digestive juices and enzymes. Prerequisite: Veterinary Anatomy 111; Veterinary Anatomy 112 or taken concurrently; Chemistry 206; Veterinary Physiology 121.
 MTThF 10:10; TTh 1:30-6:00.

334. **Veterinary Pharmacology.** (9-9) [4]
 Metrology; history of therapeutics; sources and composition of drugs; methods of administration; factors influencing the actions of drugs; posology; prescription writing; drugs affecting the various tissues and organs of the body. The practice consists of identification of crude drugs; extraction of drug constituents; manufacture of types of official and a few nonofficial preparations; prescription compounds; chemic, pharmaceutic and biologic assay methods; actions of drugs on experimental animals. Prerequisite: Veterinary Physiology 222, Veterinary Pathology 242.
 DAILY 7:30; MWF 1:30-4:30.

THE SUMMER COTTON SCHOOL

(June 9 to July 19)

For announcement giving complete details relative to the work of this division, write Professor J. B. Bagley, College Station, Texas.

SHORT COURSES, NON-COLLEGE DIVISION

For special announcement and full descriptive circular, write the person designated.

The Cotton Seed Oil Millers' Short Course. June 16-20.
 Write Dr. J. D. Lindsay.

The Annual Conference of County Superintendents and Rural School Supervisors. June 23-28.
 Write Professor W. L. Hughes.

Texas School Administration Conference. June 23-28.
 Write Dean T. D. Brooks.

Farmers' Short Course, July 13-18.
 Write W. H. Williamson, Director of Extension Service.

The Firemen's Training School (Twelfth Session. July 18-23.
 Write Dr. C. C. Hedges.

Annual Coaching School. August 18-23.
 Write Coach Homer H. Norton.