

## GENERAL STATEMENT

The summer school program of the A. & M. College of Texas is an integral part of the college and is maintained to meet the needs of:

1. Teachers in the grades and in high school who wish to complete certificate requirements; who desire additional training in their special fields of work, or wish to prepare for work outside their present fields.

2. Teachers, principals, superintendents, and technicians in agriculture and industry who desire work leading to an advanced degree.

3. Graduate and undergraduate students in the various divisions of the college who find it desirable to shorten the period of their college instruction.

4. That large group of youths and adults—boys, girls, men, and women—who participate in the numerous special courses for stimulation and growth.

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### CALENDAR — 1936

#### COLLEGE DIVISION

June 2,—Tuesday, 8 a. m. to 12 noon, Registration for the first term.

June 2—Tuesday, 1 to 5 p. m., Classes begin.

June 2 to 20, inclusive.—Short Course for Vocational Teachers.

June 5—Friday. Last day on which students may register for credit.

June 22 to July 11, inclusive.—Short Course for Vocational Teachers and for County Superintendents.

July 4—Saturday. Independence Day, a Holiday.

July 10-11—Friday, Saturday. First term examinations.

July 13—Monday. 8 a. m. to 12 noon, Registration for second term.

July 13—Monday. 1 to 5 p. m., Classes begin.

July 16—Thursday. Last day on which students may register for credit.

August 21-22—Friday, Saturday. Second term examinations.

#### NON-COLLEGE DIVISION

June 1- 6—Short Course for Cotton Oil Mill Operators.

June 2 to July 11—The Summer Cotton School.

June —Third Annual Short Course for Peace Officers.

June 17-20—Texas School Administration Conference.

July 6- 9—Conference of County Superintendents and Rural School Supervisors.

July 13-17—Firemen's Training School, Seventh Session.

July 20-24—Twenty-seventh Farmers' Short Course.

August 16-22—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; Dean of the School of Engineering*
- EDWIN JACKSON KYLE, M.S.A., *Dean of the School of Agriculture.*
- M. FRANCIS, D.V.M., LL.D., *Dean of the School of Veterinary Medicine.*
- T. D. BROOKS, Ph.D., *Dean of the School of Arts and Sciences; Dean of the Graduate School.*

**OFFICERS OF ADMINISTRATION**

- T. O. WALTON, LL.D., *President of the College*
- CHARLES PURYEAR, M.A., C.E., LL.D., *Dean Emeritus of the College.*
- F. C. BOLTON, M.S., LL.D., *Dean of the College; Dean of the School of Engineering.*
- E. J. KYLE, M.S.A., *Dean of the School of Agriculture.*
- C. H. WINKLER, Ph.D., *Professor of Psychology; Director of Summer Session.*
- T. D. BROOKS, Ph.D., *Dean of the School of Arts and Sciences; Dean of the Graduate School.*
- J. B. BAGLEY, B.A., *Professor of Textile Engineering; Director of Summer Cotton School.*
- W. H. HOLZMANN, *Comptroller of Accounts.*
- E. J. HOWELL, M.S., *Registrar and Secretary of the Faculty.*
- S. G. BAILEY, *Executive Secretary of the College; Secretary to the Board of Directors.*
- J. E. MARSH, B.A., M.D., *College Physician.*
- M. L. CASHION, A.B., *Y. M. C. A. Secretary.*
- T. F. MAYO, Ph.D., *Librarian.*
- B. D. MARCURGER, B.S., *Superintendent Buildings and College Utilities.*
- W. A. DUNCAN, *Supervisor of Subsistence.*
- F. G. ANDERSON, M.A., *Commandant.*

*The Summer Session*

**FACULTY OF THE SUMMER SESSION**

T. O. WALTON, LL.D., *President*

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

C. H. WINKLER, Ph.D., *Director*

- ADAMS, C. S., M.S., *Assistant Professor of Civil Engineering.*  
ADAMS, I. G., A.M., *Professor of Economics.*  
ADRIANCE, G. W., Ph.D., *Professor of Horticulture.*  
ALEXANDER, E. R., M.S., *Professor of Agricultural Education.*  
ALLEN, C. R., M.A., *Lecturer in Vocational Education.*  
BAKER, C. L., M.A., *Professor of Geology.*  
BAGLEY, J. B., B.A., *Professor of Textile Engineering.*  
BALL, O. M., Ph.D., *Professor of Biology.*  
BARGER, J. W., M.A., *Professor of Agricultural Economics.*  
BILSING, S. W., Ph.D., *Professor of Entomology.*  
BINNEY, J. H., Ph.D., *Associate Professor of Mathematics.*  
BLUMBERG, A. A., B.A., *Instructor in Mathematics.*  
BRAYTON, H. R., M.S., *Professor of Inorganic Chemistry.*  
BREWER, A. V., M.E., *Professor of Mechanical Engineering.*  
BRISON, F. R., M.S., *Associate Professor of Horticulture.*  
BURNS, P. W., D.V.M., *Professor of Veterinary Physiology and Pharmacology.*  
BURT, F. H., M.S., *Associate Professor of Geology.*  
CAMPBELL, C. B., Ph.D., *Professor of Modern Languages.*  
CLARK, F. B., Ph.D., *Professor of Economics.*  
CRAWFORD, C. W., M.S., *Professor of Mechanical Engineering.*  
COFER, D. B., M.A., *Professor of English.*  
CYRUS, C. C., B.S., *Industrial Education, University of Texas.*  
DAHLBERG, F. I., M.S., *Instructor in Animal Husbandry.*  
DARNELL, A. L., M.S., *Professor of Dairy Husbandry.*  
DAVIS, D. R., M.S., *Instructor in Rural Sociology.*  
DENT, J. B., M.S., *Assistant Professor of Engineering Drawing.*  
DIMMITT, L. J., *Instructor in Physical Education.*  
DOWNARD, R. W., *Instructor in Mechanical Engineering.*  
DUNN, R. C., D.V.M., *Professor of Veterinary Medicine and Surgery.*  
FOURAKER, L. L., M.S., *Associate Professor of Electrical Engineering.*  
GAMMON, S. R., Ph.D., *Professor of History.*  
GIBBONS, E. H., M.S., *Assistant Professor of Biology.*  
GLENN, E. W., M.S., *Professor of Industrial Education.*  
GODBEY, C. B., M.S., *Professor of Genetics.*  
GRINTER, L. E., Ph.D., *Professor of Civil Engineering.*  
HARRINGTON, M. T., M.S., *Assistant Professor of Chemistry.*  
HAYS, J. Q., M.A., *Assistant Professor of English.*  
HEDGES, C. C., Ph.D., *Professor of Chemistry.*  
HOPKINS, S. H., Ph.D., *Instructor in Biology.*

- 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.*  
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.*  
KEY, P. C., M.A., *Assistant Professor of English.*  
LANGFORD, E., M.S., *Professor of Architecture.*  
LELAND, T. W., M.S., C.P.A., *Professor of Accounting and Statistics.*  
LENNERT, A. A., D.V.M., *Professor of Veterinary Medicine.*  
LUDLUM, R. P., Ph.D., *Instructor in History.*  
MACKEY, A. K., M.S., *Professor of Animal Husbandry.*  
MARSTELLER, R. P., D.V.M., *Professor of Veterinary Medicine and Surgery.*  
MARTIN, A. D., B.A., *Associate Professor of Mathematics.*  
MCGINNIS, N. M., B.S., *Professor of Landscape Art.*  
MCNEW, J. T. L., M.S., C.E., *Professor of Highway Engineering.*  
MCQUILLEN, H. R., B.S., *Associate Professor of Physical Education.*  
MITCHELL, A., B.C.E., *Professor of Engineering Drawing.*  
MITCHELL, J. W., A.B., *Professor of Mathematics.*  
MORGAN, S. S., Ph.D., *Professor of English.*  
MUNNERLYN, W. F., M.S., *Associate Professor of Poultry Husbandry.*  
NELSON, T. R., M.A., *Assistant Professor of Mathematics.*  
NUTTER, P. A., A.M., *Associate Professor of Economics.*  
OLIVER, J. E., B.S., *Instructor in Accounting and Statistics.*  
ORR, J. A., M.S., *Associate Professor of Civil Engineering.*  
PAINE, L. S., M.A., *Associate Professor of Agricultural Economics.*  
PENBERTHY, W. L., B.S., *Professor of Physical Education.*  
PORTER, W. L., M.S., *Professor of Mathematics.*  
POWERS, J. G., *Assistant Professor of Textile Engineering.*  
REID, D. H., M.S., *Professor of Poultry Husbandry.*  
RICHEY, J. J., C.E., *Professor of Civil Engineering.*  
RODE, N. F., M.S., *Professor of Electrical Engineering.*  
ROSS, H., M.S., *Professor of Agricultural Education.*  
ROSS, J. W., M.A., *Assistant Professor of Mathematics.*  
RUSSELL, D., A.M., *Professor of Rural Sociology.*  
SAMUELSON, G. J., Ph.D., *Instructor in Chemistry.*  
SANDSTEDT, C. E., M.S., *Associate Professor of Civil Engineering.*  
SCHLESSELMAN, G. W., Ph.D., *Associate Professor of Agricultural Education.*  
SHEPARDSON, C. W., M.S., *Professor of Dairy Husbandry.*  
SIKES, J.V., B.S., *Assistant Professor of Physical Education.*  
SILVEY, O. W., Ph.D., *Professor of Physics.*  
SIMPSON, W. M., B.S., *Instructor in Accounting and Statistics.*  
SPRIGGS, C. O., M.A., *Professor of Public Speaking.*  
STEEL, E. W., C.E., *Professor of Municipal and Sanitary Engineering.*

*The Summer Session*

- STEEN, R. W., Ph.D., *Assistant Professor of History.*  
STEWART, R. T., Ph.D., *Associate Professor of Agronomy.*  
SUGAREFF, V. K., A.M., *Professor of History.*  
SUMMEY, GEO., JR., Ph.D., *Professor of English.*  
SNUGGS, R. E., M.S., *Instructor in Chemistry.*  
TALLEY, P. J., Ph.D., *Assistant Professor of Biology.*  
THURMOND, M. F., M.S., *Associate Professor of Agricultural Engineering.*  
TRAIL, J. A., M.S., *Assistant Professor of Mechanical Engineering.*  
TURNER, F. E., Ph.D., *Assistant Professor of Geology.*  
VEZEY, E. E., M.S., *Associate Professor of Physics.*  
WARD, R. P., M.S., *Associate Professor of Electrical Engineering.*  
WHARTON, A. E., D.V.M., *Associate Professor of Veterinary Pathology.*  
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., *Assistant Professor of Mechanical Engineering.*  
WINKLER, C. H., Ph.D., *Professor of Psychology.*  
WOOLKET, J. J., M.A., *Associate Professor of Modern Language.*

**ORGANIZATION**

The work of the 1936 Summer Session embraces six major divisions:

1. The College, including the Graduate School and the three weeks' Courses for Vocational Teachers and County Superintendents.
2. The Summer Cotton School.
3. The Farmers' Short Course and the Short Course for Cotton Oil Mill Operators.
4. The Firemen's Training School.
5. The Conference of County Superintendents and the Texas School Administration Conference.
6. The Annual Coaching School.

**ADMISSION**

In the College Division courses will be offered subject to the same general admission requirements as in the regular session. (See general catalogue, pp. 58-61.)

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 AT COLLEGE**

Single men and women students, and married couples without children, may obtain rooms in the College dormitories at a cost of five dollars per person (two in a room) for a term of six weeks. These rooms are equipped with the usual furnishings—tables, chairs, wardrobes, etc. Sheets, pillows, towels, and window curtains are furnished by the student.

Two meals per day (noon and evening) will be served by the Mess Hall at a cost of 30 cents per meal. Breakfast may be had at the Coffee Shoppe. Those desiring meals at the Aggie-land Inn will find the "Terrace" a most delightful place to eat.

**BOARD AND LODGING IN BRYAN**

The city of Bryan, approximately five miles north of the College campus, affords splendid facilities for students desiring room and board. 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.

**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.

**RECREATION AND ENTERTAINMENT**

The summer session will feature a variety of interesting lectures and entertainments at no extra cost to the students. Among the speakers engaged to appear during the first term of the summer session are Dr. C. E. Jones, who will return to give his illustrated lecture-demonstration on "Gyroscopes and Geography, and Dr. Edgar C. Raine, famous traveler, lecturer and photographer, who will give his illustrated lecture—"The Land of the Midnight Sun".

Students in the summer session are invited to participate in the programs of the general short courses and conferences; the weekly "smoker" in the Y parlors, and to hear the speakers of national prominence in the fields of education, rural life, farm economics, etc.

Two golf courses are conveniently located for use by the students at very reasonable rates. The college swimming pool is among the finest in the country. A bowling alley has been provided in the Y. M. C. A. building. Summer baseball, on the drill field in front of the Y. M. C. A., is one of the most popular sports with summer school students.

**TRADE AND INDUSTRIAL TEACHERS**

All trade and industrial teacher-training work under the Federal Vocational Education Act will be concentrated at the Agricultural and Mechanical College this summer. Outstanding leaders in this field of education will supplement the regular teacher-training staff. Further information may be obtained from the Department of Industrial Education.

**EXPENSES**

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

Matriculation fee, per term .....	\$10.00
Medical Service fee, per term .....	2.00
Room rent per term of six weeks .....	5.00

**HOW TO REGISTER**

All Summer Session students will register in the New Administration Building.

1. Obtain registration and assignment cards from the registration desk in the lobby.
2. Report to the Fiscal Department, Room 100, and pay all fees.
3. See Head of Department about courses you wish to take.
4. Report to the Dean of the School in which your major work is being done for approval of your course of study.
5. Report to the Commandant, Room 126, for assignment to room in dormitories.
6. Return your assignment card to the Registrar, Room 118. This completes your registration.

**GRADUATE STUDENTS**

All former students will follow the above procedure in registering. New students entering the graduate school should obtain registration cards from the Dean of The Graduate School, room 206.

**THE COLLEGE**

(June 2 to August 22)

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 a student may take in a six week's term is the equivalent of seven semester hours, except in the case of students who have had approved teaching experience or those making a superior record during the regular session. With the consent of the Director of the Summer Session these students may take the equivalent of eight semester hours. All rules of the regular session apply to the Summer Session in the matters 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 College catalogue for the regular session. This catalogue may be obtained from the Registrar. Figures in parenthesis indicate recitation hours per week. Figures in brackets indicate value of course 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 2 to July 11)

**ACCOUNTING AND STATISTICS**

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|------|--|-------|-----|
| 201. | Principles of Accounting<br>Daily 8:50; MTThF 10:05-12:20. | (9-9) | [4] |
| 202. | Principles of Accounting.<br>Daily 7:30; MWF 1:30-4:30.    | (9-9) | [4] |
| 409. | Accounting for Engineers.<br>Daily 10:10.                  | (9-0) | [3] |

**AGRICULTURAL ECONOMICS**

- |      |  |        |     |
|------|--|--------|-----|
| 301. | Agricultural Geography of North<br>America.<br>Daily 8:50.                                     | (9-0)  | [3] |
| 429. | Economic Policy for Agriculture<br>Prerequisite: Economics 403, or equivalent.<br>Daily 11:30. | (6-0)  | [2] |
| 503. | Land Problems.<br>(Hours to be arranged).  | (12-0) | [4] |
| 571. | Research Methods<br>Daily except Sat. 7:30 (Practice hours to be arranged).                    | (6-18) | [4] |

**AGRICULTURAL EDUCATION**

- |      |  |        |     |
|------|--|--------|-----|
| 501. | Advanced Methods in Agricultural<br>Education<br>Daily 7:30 (Additional hours to be arranged). | (12-0) | [4] |
| 505. | Supervised Practice.<br>Daily 10:10 (Additional hours to be arranged).                         | (12-0) | [4] |

507.	Future Farmer Activities. MTThF 8:50.	(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]
511.	Evening School Problems. Daily 11:30.	(6-0)	[2]
512.	Agricultural Outlook Material. Daily 11:30.	(6-0)	[2]
513.	Administration and Supervision of Agricultural Education. MTThF 10:10.	(6-0)	[2]
514.	Research and Thesis Problems. (Hours to be arranged).	(6-0)	[2]

#### AGRICULTURAL ENGINEERING

321.	Farm Shop. MWF 11:30; TThS 8:50-11:25.	(3-9)	[2]
511M.	Advanced Farm Shop. Daily 7:30 (Practice hours to be arranged).	(9-9)	[2]

#### AGRONOMY AND GENETICS

##### (Agronomy)

105.	Fundamentals of Crop Production. Daily 7:30; TTh 1:30-4:30.	(9-6)	[4]
301.	Soils. Prerequisite: Chemistry 101, 102. Daily 8:30; MW 1:30-4:30.	(9-6)	[4]
314.	Field Crops. Daily 10:10; TTh 1:30-4:30.	(9-6)	[4]
305.	Advanced Soils. (Hours to be arranged).	(9-12)	[4]
	(Genetics)		
301.	Genetics. Prerequisite: Biology 101, 102. Daily 7:30; TTh 1:30-4:30.	(9-6)	[4]
501.	Advanced Plant Genetics. MTThF 8:50 (Practice hours to be arranged).	(9-12)	[4]

#### ANIMAL HUSBANDRY

107.	General Animal Husbandry. Daily 11:30; MWF 1:30-4:30.	(6-12)	[3]
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419. Meat Preservation Problem. (8-8) [2]  
 Prerequisite: Animal Husbandry 307  
 or equivalent.  
 TWThF 1:30-5:30.  
 (Three-weeks course).
420. Quality in Meats. (12-0) [2]  
 Daily 10:10 (Additional hours to be arranged).  
 (Three-weeks course).
502. Advanced Animal Nutrition. (9-9) [4]  
 Daily 11:30; (Practice hours to be arranged).
505. Advanced Wool and Mohair Production. (9-9) [4]  
 (Hours to be arranged).

## ARCHITECTURE

101. Architectural Drawing. (0-12) [1]  
 (Hours to be arranged).
109. Freehand Drawing. (0-12) [1]  
 (Hours to be arranged).
201. Architectural Design. (0-30) [3]  
 Prerequisite: Architecture 102.  
 (Hours to be arranged).
205. Freehand Drawing. (0-12) [1]  
 Prerequisite: Architecture 110.  
 (Hours to be arranged).
315. Modern Architecture. (6-0) [2]  
 Prerequisite: Architecture 216.  
 Daily 11:30.

## BIOLOGY

101. General Botany. (6-12) [3]  
 Daily 11:30; MThF 1:30-4:30.
- 206S. Introductory Bacteriology. (6-12) [3]  
 Prerequisite: Biology 101, 102.  
 MTThF 10:10 and 1:30-4:30.
207. General Zoology. (6-12) [3]  
 MTThF 7:30 and 1:30-4:30.
509. Advanced Plant Physiology. (6-18) [4]  
 or
513. Advanced Plant Pathology. (6-18) [4]  
 (Hours to be arranged).

## CHEMISTRY

- 101.-103. General Inorganic Chemistry. (9-9) [4]  
 Sec. 1 Daily 7:30; MW 1:30-5:30.  
 Sec. 2 MW 7:30; TThFS 8:50; MW 1:30-5:30.  
 Sec. 3 MW 7:30; TThFS 10:10; MW 1:30-5:30.

206. Organic Chemistry. (9-6) [4]  
Prerequisite: Chemistry 102.  
Daily 10:10; MW 1:30-4:30.
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.

#### CIVIL ENGINEERING

- 300S. Surveying Practice. [5]  
Prerequisite: Civil Engineering 202.  
Daily except S, 8:50-5:30.
533. Advanced Mechanics of Materials. (12-0) [4]  
Daily 8:50 (Additional hours to be arranged).
542. Research. Credit 2 to 6 Hours  
(Hours to be arranged).

#### DAIRY HUSBANDRY

418. Feeding and Management. (9-6) [4]  
Prerequisite: Animal Husbandry 303, Dairy  
Husbandry 202.  
Daily 10:10; MW 1:30-4:30.
501. Advanced Dairy Production. (6-18) [4]  
Daily 11:30 (Practice hours to be arranged).

#### ECONOMICS

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.
316. Business Law. (9-0) [3]  
Prerequisite: Sophomore standing.  
Daily 10:10:
403. Principles of Economics. (9-0) [3]  
Daily 7:30.
421. Government and Industry. (9-0) [3]  
Prerequisite: Principles of Economics.  
MTThF 8:50.
501. History of Economic Doctrines. (12-0) [4]  
Or
505. Public Finance. (12-0) [4]  
Daily 7:30 (Additional hours to be arranged).

EDUCATION

121.	An Introduction to Education. Daily 7:30.	(9-0)	[3]
321.	Secondary School Methods. Daily 8:50.	(9-0)	[3]
322.	Secondary School Administration. Daily 8:50.	(9-0)	[3]
424.	Principles of Rural School Supervision (18-18) A three week course for County Superintendents. (Hours to be arranged).		[3]
423.	Tests and Measurements. Daily 7:30.	(9-0)	[3]
430.	Curriculum Construction. Daily 7:30.	(9-0)	[3]
507.	Programs and Procedures in Supervision. MTThF 7:30.	(6-0)	[2]
508.	Administration of Local School Finance. Daily 11:30.	(6-0)	[2]
510.	Administration of Pupil Personnel. MTThF 8:50.	6-0)	[2]

ELECTRICAL ENGINEERING

201.	Electricity and Magnetism. Prerequisite: Mathematics 111, 112. Daily 7:30; MTWThF 1:30-5:30.	(9-18)	[5]
204.	Electric Wiring and Repair. Prerequisite: Physics 201. Daily 11:30; (Practice hours to be arranged).	(6-12)	[3]
301.	Direct Currents. Prerequisite: Electrical Engineering 202, Mathematics 204. Daily 7:30 (Practice hours to be arranged).	(9-18)	[5]
517.	Research in Electrical Engineering. (Hours to be arranged).	(6-18)	[2-6]

ENGINEERING DRAWING

111.	Mechanical Drawing. Daily except S, 1:30-5:00.	(0-18)	[2]
201.	Mechanical Drawing. Prerequisite: Engineering Drawing 111. TTh 1:30-4:30.	(0-6)	[1]
202.	Mechanical Drawing. MW 1-30-4:30.	(0-6)	[1]

213. Mechanical Drawing. (9-6) [1]  
(Hours to be arranged).

#### ENGLISH

103. Rhetoric and Composition. (9-0) [3]  
(1) Daily 8:50. (2) 10:10.
203. Composition and Literature. (6-0) [2]  
Prerequisite: English 103, 104.  
MThF 8:50.
- 203X. Composition and Literature. (6-0) [2]  
Same as 203 except for the use of  
American instead of English  
Literature.  
Prerequisite: English 103, 104.  
MThF 7:30.
231. English Literature. (9-0) [3]  
Prerequisite: English 103, 104.  
Daily 10:10.
401. Public Speaking. (6-0) [2]  
Prerequisite: English 203, 210, or 231, 232.  
Daily 11:30.
415. Contemporary Continental Drama. (6-0) [2]  
Prerequisite: English 232 or 210.  
MThF 7:30.

#### ENTOMOLOGY

201. General Entomology. (6-6) [3]  
Daily 11:30; WF 1:30-4:30.
- 507 or 508. Economic Entomology. (9-9) [4]  
Daily 10:10 (Practice hours to be arranged).

#### GEOLOGY

201. General Geology. (9-0) [3]  
Prerequisite: Chemistry 101 or equivalent.  
Daily 8:50.
202. Historical Geology. (9-9) [4]  
Prerequisite: Geology 201 or 401.  
Daily 7:30; MWF 1:30-4:30.

#### HISTORY

103. Development of Modern Europe. (9-0) [3]  
Daily 8:50.
305. American Government. (9-0) [3]  
(1) Daily 7:30.  
(2) Daily 10:10.

424. American Foreign Relations. (9-0) [3]  
Daily 10:10.

**HORTICULTURE**

318. Principles of Fruit Growing. (6-9) [3]  
Prerequisite: Horticulture 201.  
Daily 11:30; MWF 1:30-4:30.
504. Advanced Vegetable Gardening. (9-9) [4]  
Daily 10:10 (Practice hours to be arranged).

**INDUSTRIAL EDUCATION**

406. Vocational Guidance. (6-0) [2]  
MTThF 10:10.
418. General Shop Methods. (3-15) [3]  
MWF 11:30 (Practice hours to be arranged).
505. Philosophy of Industrial Education. (12-0) [4]  
Daily 8:50 (Additional hours to be arranged).
507. Organization of Industrial Education. (12-0) [4]  
Daily 7:30 (Additional hours to be arranged).
509. Methods of Teaching Drawing. (6-12) [3]  
(Hours to be arranged).

**LANDSCAPE ART**

301. Introduction to Landscape Art. (6-12) [3]  
Prerequisite: Horticulture 201, or equivalent.  
MTThF 7:30; MWF 1:30-4:30.

**MATHEMATICS**

101. Algebra. (9-0) [3]  
(1) Daily 8:50. (2) 10:10.
102. Algebra. (9-0) [3]  
Daily 10:10.
103. Plane Trigonometry. (9-0) [3]  
Daily 7:30.
104. Analytics. (9-0) [3]  
Prerequisite: Mathematics 101, 103, or 111.  
Daily 8:50.
203. Calculus. (15-0) [5]  
Prerequisite: Mathematics 104 or 112.  
Daily 7:30 and 11:30.
204. Calculus. (15-0) [5]  
Prerequisite: Mathematics 203.  
Daily 8:50 and 11:30.

**MECHANICAL ENGINEERING**

- |      |  |        |     |
|------|--|--------|-----|
| 101. | Engineering Problems.<br>MWF 11:30; MW 1:30-4:30.  | (3-6)  | [2] |
| 102. | Engineering Problems.<br>TThS 11:30; TTh 1:30-4:30.  | (3-6)  | [2] |
| 212. | Engineering Mechanics.<br>Must be preceded or accompanied by<br>Mathematics 204.<br>Daily 10:10.           | (9-0)  | [3] |
| 309. | Machine Shop.<br>MWF 1:30-4:30.  | (0-9)  | [1] |
| 404. | Engineering Laboratory.<br>Prerequisite: Mechanical Engineering<br>320 or 323.<br>MWF 11:30 and 1:30-4:30. | (3-9)  | [2] |
| 507. | Experimental Engineering Research.<br>(Hours to be arranged).  | (3-24) | [4] |

**MODERN LANGUAGES**

(Only two of the three courses will be given each term).

- |      |                                     |       |     |
|------|-------------------------------------|-------|-----|
| 101. | Beginning French.<br>Daily 7:30.    | (9-0) | [3] |
| 105. | Beginning Spanish.<br>Daily 10:10.  | (9-0) | [3] |
| 201. | Intermediate French.<br>Daily 8:50. | (9-0) | [3] |

**PSYCHOLOGY**

- |      |   |       |     |
|------|---|-------|-----|
| 301. | Educational Psychology.<br>Daily 10:10. | (9-0) | [3] |
|------|---|-------|-----|

**PHYSICAL EDUCATION**

- |      |   |       |     |
|------|---|-------|-----|
| 207. | Health Education.<br>Prerequisite: Sophomore standing and<br>approval of instructor.<br>Daily 7:30.                             | (9-0) | [3] |
| 305. | Public School Physical Education.<br>Prerequisite: Junior standing and<br>approval of instructor.<br>Daily 10:10.               | (9-0) | [3] |
| 403. | Organization and Administration of<br>Physical Education.<br>Prerequisite: Approval of Instructor.<br>MTThF 8:50; WF 1:30-4:30. | (6-6) | [3] |



**PHYSICS**

201. College Physics. (9-6) [4]  
Daily 7:30; TThF 1:30-3:30.
203. General Physics. (9-9) [4]  
Prerequisite: Mathematics 112.  
Daily 10:10; MWF 1:30-4:30.

**POULTRY HUSBANDRY**

- 501 or 502. Research Problems. (9-12) [4]  
(Hours to be arranged).
- 503 or 504. Advanced Incubation and  
Brooding. (9-12) [4]  
(Hours to be arranged).

**RURAL SOCIOLOGY**

312. General Sociology. (9-0) [3]  
Daily 8:50.
502. Advanced Rural Sociology. (12-0) [4]  
or
512. The Rural Community. (12-0) [4]  
Daily 10:10 (Additional hours to be arranged).

**VETERINARY MEDICINE AND SURGERY**

351. Non-Infectious Diseases. (9-0) [3]  
Daily 7:30.
361. General Surgery. (9-0) [3]  
Daily 10:10.
371. Clinics. (0-21) [2]  
(Hours to be arranged).
471. Clinics. (0-21) [2]  
(Hours to be arranged).

**VETERINARY PATHOLOGY**

242. General Pathology. (9-6) [4]  
Prerequisite: Veterinary Anatomy 213.  
Daily 8:50; WF 1:30-4:30.

**VETERINARY PHYSIOLOGY AND PHARMACOLOGY**

121. Physiology of the Domestic Animals. (6-0) [2]  
Daily 11:30.

**SECOND TERM**

(July 13 to August 22)

**ACCOUNTING AND STATISTICS**

202. Principles of Accounting. (9-9) [4]  
Daily 7:30; MWF 1:30-4:30.
303. Statistical Method. (9-9) [4]  
Daily 8:50; MTThF 10:05-12:20.

**AGRICULTURAL ECONOMICS**

312. Agricultural Economics. (9-0) [3]  
Daily 7:30.
314. Marketing. (9-0) [3]  
Prerequisite: A course in Principles  
of Economics.  
Daily 8:50.
501. Advanced Marketing Problems (12-0) [4]  
Or
514. Contemporary Problems in Agricultural  
Economics. (12-0) [4]  
(Hours to be arranged).
572. Research Methods. (6-18) [4]  
Daily except Sat. 7:30 (Practice hours to be arranged).

**AGRICULTURAL ENGINEERING**

201. Farm Machinery. (6-6) [3]  
Daily 11:30; TTh 1:30-4:30.
203. Gas Engines. (6-6) [3]  
MTThF 8:50; MWF 10:10-12:10.

**ANIMAL HUSBANDRY**

409. Animal Nutrition and Live Stock  
Feeding. (9-9) [4]  
Daily 10:10; MWF 1:30-4:30.

**BIOLOGY**

102. General Botany. (6-12) [3]  
Daily 11:30; MTThF 1:30-4:30.
510. Advanced Plant Physiology (6-18) [4]  
Or
514. Advanced Plant Pathology. (6-18) [4]  
(Hours to be arranged).

**CHEMISTRY**

- 102.-104. General Inorganic Chemistry. (9-9) [4]  
Sec. 1. Daily 7:30; MW 1:30-5:30.  
Sec. 2. MW 7:30; TThFS 8:50; MW 1:30-5:30.  
Sec. 3. MW 7:30; TThFS 10:10; MW 1:30-5:30.
- 400S. Quantitative Analysis. (6-18) [4]  
Prerequisite: Chemical Engineering 202.  
Daily 7:30 and 1:30-5:00.

**CIVIL ENGINEERING**

206. Plane Surveying. (3-9) [2]  
Prerequisite: Mathematics 103 or 112.  
TThS 7:30; MWF 1:30-4:30.
305. Mechanics of Materials. (12-0) [4]  
Prerequisite: Mathematics 204; Mechanical Engineering 212 or equivalent.  
Daily 8:50.
311. Hydraulics. (9-0) [3]  
Prerequisite: Mechanical Engineering 212 or equivalent.  
Daily 10:10.
340. Elementary Stress Analysis. (9-0) [3]  
Prerequisite: Civil Engineering 305.  
Daily 7:30.
344. Reinforced Concrete. (6-0) [2]  
Prerequisite: Civil Engineering 305.  
Daily 11:30.
542. Research. Credit 2 to 6 Hours  
(Hours to be arranged).

**DAIRY HUSBANDRY**

202. Dairying. (6-6) [3]  
MThF 8:50; TTh 1:30-4:30.

**ECONOMICS**

204. Principles of Economics. (9-0) [3]  
Daily 10:10.
403. Principles of Economics. (9-0) [3]  
Daily 7:30.
409. Foreign Trade and Exchange. (9-0) [3]  
Prerequisite: Economics 403.  
Daily 7:30.
502. History of Economic Doctrines. (12-0) [4]  
Or
506. Labor Problems. (12-0) [4]  
(Hours to be arranged).

**EDUCATION**

121. An Introduction to Education. (9-0) [3]  
Daily 7:30.
322. Secondary School Administration. (9-0) [3]  
Daily 8:50.
422. History of Education. (9-0) [3]  
Daily 10:10.

428.	Junior High School Methods. Daily 10:10.	(9-0)	[3]
431.	Curriculum Construction. Daily 7:30.	(9-0)	[3]
512.	Interpreting the School to the Public. MTThF 7:30.	(6-0)	[2]
514.	State School Finances. MTThF 10:10.	(6-0)	[2]
515.	State School Administration. Daily 11:30.	(6-0)	[2]
516.	Administration of Teaching Personnel. TWFS 8:50.	(6-0)	[2]

## ENGINEERING DRAWING

124.	Descriptive Geometry. MTThF 8:50; MWF 1:30-5:30.	(6-12)	[3]
201.	Mechanical Drawing. Prerequisite: Engineering Drawing 111. TTh 1:30-4:30.	(0-6)	[1]
202.	Mechanical Drawing. MW 1:30-4:30.	(0-6)	[1]
214.	Mechanical Drawing. (Hours to be arranged).	(0-6)	[1]

## ENGLISH

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

## GENETICS

405.	Survey of Eugenics. Daily 10:10.	(9-0)	[3]
502.	Advanced Plant Genetics. or	(9-12)	[4]

## References

1. *Journal of the American Medical Association*, 1997; 277: 1000-1001.

## CORRECTION

The following courses in

### ELECTRICAL ENGINEERING

will be offered in the Second Term:

- |      |   |        |          |
|------|---|--------|----------|
| 202. | Elementary Electrical Engineering.  | (9-9)  | [4]      |
|      | Prerequisite: Electrical Engineering 201,<br>Mathematics 104 or 112.<br>Daily 10:10; TTh 1:30-6:00.   |        |          |
| 302. | Alternating Currents.   | (15-0) | [5]      |
|      | Prerequisite: Electrical Engineering 301,<br>Mathematics 204.<br>Daily 7:30 and 11:30; TTh 1:30-4:30. |        |          |
| 305. | Electrical Machinery.   | (9-9)  | [4]      |
|      | Prerequisite: Physics 204, Mathematics 204.<br>Daily 7:30; MWF 1:30-4:30.                             |        |          |
| 431. | Engineering Administration.   | (6-0)  | [2]      |
|      | Prerequisite: Senior Classification.<br>MTThF 8:50.   |        |          |
| 518. | Research in Electrical Engineering.   |        | [2 to 6] |
|      | (Hours to be arranged).   |        |          |

505. Advanced Biometry. (9-12) [4]  
MTThF 8:50 (Practice hours to be arranged).

GEOLOGY

- 400S Field Geology [7]

HISTORY

104. Development of Modern Europe. (9-0) [3]  
Daily 10:10:  
322. Industrial History of United States. (9-0) [3]  
Daily 8:50.  
305. American Government. (9-0) [3]  
(1) Daily 7:30. (2) Daily 10:10.

HORTICULTURE

201. Plant Propagation and Orchardng. (6-6) [3]  
Prerequisite: Biology 101, 102.  
Daily 11:30; TTh 1:30-4:30.  
317. Principles of Fruit Growing. (6-9) [3]  
Prerequisite: Horticulture 201.  
MTThF 7:30; MWF 1:30-4:30.  
503. Advanced Vegetable Gardening. (9-9) [4]  
Daily 10:10 (Practice hours to be arranged).

INDUSTRIAL EDUCATION

308. A Study of Modern Industries. (9-0) [3]  
Daily 7:30.  
508. Administration and Supervision in  
Industrial Education. (12-0) [4]  
Daily 10:10 (Additional hours to be arranged).  
511. Industrial Education Problems. (12-0) [4]  
Daily 8:50 (Additional hours to be arranged).

MATHEMATICS

101. Algebra. (9-0) [3]  
Daily 7:30.  
102. Algebra. (9-0) [3]  
Daily 10:10.  
103. Plane Trigonometry. (9-0) [3]  
Daily 7:30.  
104. Analytics. (9-0) [3]  
Prerequisite :Mathematics 101, 103, or 111.  
Daily 8:50.

204. Calculus. (15-0) [5]  
 Prerequisite: Mathematics 203.  
 Daily 8:50 and 11:30.
305. Differential Equations. (6-0) [2]  
 Prerequisite: Mathematics 204.  
 Daily 11:30.

#### MECHANICAL ENGINEERING

102. Engineering Problems. (3-6) [2]  
 MWF 1:30-4:30 (Recitation and practice).
212. Engineering Mechanics. (9-0) [3]  
 Must be preceded or accompanied by  
 Mathematics 204.  
 Daily 10:10.
307. Kinematics. (6-9) [3]  
 Prerequisite: Physics 203.  
 Daily 11:30; MWF 1:30-4:30.
313. Engineering Mechanics. (9-0) [3]  
 Daily 10:10.
320. Thermodynamics. (15-0) [5]  
 Prerequisite: Mathematics 204,  
 Physics 204.  
 Daily 7:30 and 11:30.

#### MODERN LANGUAGES

(Only two of the three courses will be given each term).

102. Beginning French. (9-0) [3]  
 Daily 7:30.
106. Beginning Spanish. (9-0) [3]  
 Daily 10:10.
202. Intermediate French. (9-0) [3]  
 Daily 8:50.

#### MUNICIPAL AND SANITARY ENGINEERING

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

#### PHYSICAL EDUCATION

208. Athletic Training. (9-0) [3]  
 Prerequisite: Approval of instructor.  
 Daily 7:30.



306. Public School Physical Education. (9-0) [3]  
 Prerequisite: Approval of instructor.  
 Daily 7:30.
404. Organization and Administration of  
 Physical Education. (6-6) [3]  
 Prerequisite: Approval of instructor.  
 MTThF 8:50; WF 1:30-4:30.

**PHYSICS**

202. College Physics. (9-6) [4]  
 Daily 7:30; TThF 1:30-3:30.
204. General Physics. (9-9) [4]  
 Prerequisite: Mathematics 112.  
 Daily 10:10; MWF 1:30-4:30.

**POULTRY HUSBANDRY**

401. Culling and Management. (9-6) [4]  
 Prerequisite: Poultry Husbandry 201, 302.  
 Daily 7:30; TTh 1:30-4:30.
501. Research Problems. (9-12) [4]  
 (Hours to be arranged).

**RURAL SOCIOLOGY**

303. Introduction to Social Problems. (9-0) [3]  
 Daily 7:30.
407. Rural Sociology. (6-6) [3]  
 Daily 11:30; TTh 1:30-4:30.

**VETERINARY MEDICINE AND SURGERY**

352. Non-Infectious Diseases. (9-0) [3]  
 Daily 7:30.
362. General Surgery. (9-0) [3]  
 Daily 10:10.
372. Clinics. (0-36) [4]  
 (Hours to be arranged).
472. Clinics. (0-21) [2]  
 (Hours to be arranged).

**VETERINARY PHYSIOLOGY AND PHARMACOLOGY**

122. Physiology of the Domestic Animals. (6-0) [2]  
 Daily 11:30.

**THE SUMMER COTTON SCHOOL**(June 2 to July 11)  

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

**SHORT COURSES****SUMMER SESSION 1936**  

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The following conferences and short courses will be held at the Agricultural and Mechanical College during the 1936 Summer Session. For special announcement and full descriptive folder, write the person designated.

The Annual Conference of County Superintendents and Rural School Supervisors, July 6 to 9.

Write Professor W. L. Hughes.

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Texas School Administration Conference. June 17 to 20.  
Write Dean T. D. Brooks.

---

Short Courses for Teachers of Vocational Agriculture. June 2 to 20 and June 22 to July 11.

Write Professor E. R. Alexander.

---

Short Course for Cotton Oil Mill Operators. June 1 to 6.  
The Firemen's Training School (Seventh Session). July 13 to 17. Write Dr. C. C. Hedges.

---

Farmers' Short Course. July 20 to 24.

Write H. H. Williamson, Director of Extension Service.

---

Third Annual Short Course for Peace Officers.

Write Professor E. W. Steel.

---

Annual Coaching School. August 16 to 22.

Write Coach Homer H. Norton.