

BULLETIN  
OF THE  
AGRICULTURAL and MECHANICAL COLLEGE OF TEXAS

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Fourth Series, Vol. 6

MARCH 1, 1935

No. 3

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THE SUMMER SESSION NUMBER

JUNE 4—AUGUST 24, 1935

FIRST TERM—June 4—July 13

SECOND TERM—July 15—August 24

. Open to Men and Women



COLLEGE STATION, TEXAS.

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Published eight times a year by the Agricultural and Mechanical College  
of Texas in the months of January, February, March, April, May,  
October, November, and December.

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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 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 who 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 collegiate 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 — 1935

### FIRST TERM

- June 4—Tuesday. Registration 8 a. m. to 12 noon; 1 to 5 p. m. classes begin.
- June 4-22—Short Course for Vocational Teachers.
- June 7—Friday. Last day on which students may register for credit.
- June 10-13—Texas School Administration Conference.
- June 10-15—Course for Cotton Oil Mill Operators.
- June 24-July 13—Short Course for Vocational Teachers.
- July 4—Thursday. Independence Day, a holiday.
- July 8-13—Second Annual Short Course for Peace Officers.
- July 12-13—Friday, Saturday. First term examinations.

### SECOND TERM

- July 15—Monday. Registration 8 a. m. to 12 noon; 1 to 5 p. m. classes begin.
- July 15-August 3—Short Course for County Superintendents.
- July 15-19—Firemen's Training School, Sixth Session.
- July 18—Thursday. Last day on which students may register for credit.
- July 29-August 2—Farmers' Short Course; Twelfth Annual County Superintendents' Conference.
- August 19-24—Annual Coaching School.
- August 23-24—Friday, Saturday. Second term examinations.

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REID, D. H., M.S., *Professor of Poultry Husbandry.*  
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VEZEY, E. E., M.S., *Associate Professor of Physics.*

WILCOX, G. B., A.M., *Professor of Rural Education.*

WILLIAMS, E. L., M.S., *Professor of Industrial Education.*

WOOLKET, J. J., M.A., *Associate Professor of Modern Languages.*

### ORGANIZATION

The work of the 1935 Summer Session will embrace these five 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 Firemens' Training School.
5. The Conference of County Superintendents and the Texas School Administration Conference.

### 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. 58-60).

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

**All undergraduate courses in the Summer School are open to Men and Women.**

### BOARD AND ROOM AT COLLEGE

Men 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.

Rooms for unmarried women are available in homes and apartment houses at College Station and in Bryan.

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 5 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. The following speakers, outstanding authorities in their respective fields, will talk to the students during the first term.

Dr. C. E. Jones, Science Wizard.

Dr. Tehyi Hsieh, Chinese Lecturer and Author.

Students in the summer session are invited to participate in the programs of the general short course 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.

**EXPENSES**

For students in the College and in the Summer School of cotton:

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 4 to August 24)

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.

Registration for work in the College Division will not 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 parentheses 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 4 to July 13)

#### ACCOUNTING AND STATISTICS

- |      |   |       |     |
|------|---|-------|-----|
| 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>Daily 11:30                  | (6-0)  | [2] |
| 503. | Land Problems.<br>Daily 11:30 (Additional hours to be arranged). | (6-18) | [4] |

#### AGRICULTURAL ENGINEERING

- |       |  |       |     |
|-------|--|-------|-----|
| 321.  | Farm Shop.<br>MWF 11:30; TThS 8:50-11:25   | (3-9) | [2] |
| 511M. | Advanced Farm Shop.<br>Prerequisite: Agricultural Engineering 321, 322.<br>Daily 7:30 (Practice hours to be arranged). | (9-9) | [2] |

#### AGRONOMY AND GENETICS

##### (Agronomy)

- |      |   |        |     |
|------|---|--------|-----|
| 301. | Soils.<br>Prerequisite: Chemistry 101, 102.<br>Daily 11:30 (Practice hours to be arranged). | (9-6)  | [4] |
| 501. | Advanced Farm Crops.<br>(Hours to be arranged).   | (9-12) | [4] |

##### (Genetics)

- |      |  |       |     |
|------|--|-------|-----|
| 301. | Genetics.<br>Prerequisite: Biology 101, 102.<br>Daily 7:30; TTh 1:30-4:30. | (9-6) | [4] |
|------|--|-------|-----|

501. Advanced Plant Genetics. (9-12) [4]  
 MThF 8:50 (Practice hours to be arranged).

**ANIMAL HUSBANDRY**

107. General Animal Husbandry. (6-12) [3]  
 Daily 11:30; MWF 1:30-4:30.
307. Farm Meats. (6-18) [2]  
 This course will be offered in three-weeks units, June 5-25, and June 27-July 14 if there is sufficient demand.  
 Daily 1:30-5:30 (Additional hours to be arranged).
423. Seminar. (6-0). [2]  
 Prerequisite: Animal Husbandry 303, Genetics 301.  
 Daily 11:30.
501. Advanced Animal Nutrition. (9-9) [4]  
 or
502. Advanced Animal Nutrition. (9-9) [4]  
 Daily 11:30 (Practice hours to be arranged).
505. Advanced Livestock Production. (9-9) [4]  
 Daily 7:30; TTh 1:30-4:30.

**ARCHITECTURE**

101. Architectural Drawing. (0-12) [1]  
 (Hours to be arranged).
107. History of Architecture. (6-0) [2]  
 MThF 8:50.
109. Freehand Drawing. (0-12) [1]  
 (Hours to be arranged).
201. Architectural Design. (0-30) [3]  
 Prerequisite: Architecture 102.  
 (Hours to be arranged).
203. Shades, Shadows, and Perspective. (0-18) [2]  
 Prerequisite: Engineering Drawing 124.  
 (Hours to be arranged).
205. Freehand Drawing. (0-12) [1]  
 Prerequisite: Architecture 110.  
 (Hours to be arranged).
215. History of Architecture. (6-0) [2]  
 Prerequisite: Architecture 108.  
 MTWF 10:10.
315. Modern Architecture. (6-0) [2]  
 Prerequisite: Architecture 216.  
 Daily 11:30.

**BIOLOGY**

101. General Botany. (6-12) [3]  
Daily 11:30; TThS 8:50-11:30.
207. General Zoology. (6-12) [3]  
MTThF 10:10; MWF 1:30-4:30.

**CHEMISTRY**

101. General Inorganic Chemistry. (9-9) [4]  
Daily 7:30; MWF 1:30-4:30.
103. Inorganic Chemistry. (9-12) [4]  
Daily 7:30; MTWF 1:30-4:30.
212. Agricultural Chemistry. (9-0) [3]  
Prerequisite: Chemistry 102.  
Daily 10:10.
214. Agricultural Analysis. (3-9) [2]  
To be taken with Chemistry 212.  
TThS 11:30; MWF 1:30-4:30.
503. Advanced Industrial Chemistry. (6-18) [4]  
Prerequisite: Chemistry 302.  
Daily 11:30 (Practice hours to be arranged).

**CIVIL ENGINEERING**

300. Surveying Practice.  
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**

202. Dairying. (6-6) [3]  
MTThF 8:50; TTh 1:30-4:30.
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]  
or
502. 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.



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|------|--|--------|-----|
| 311. | Money and Banking.<br>Prerequisite: Economics 203, 204.<br>or      | (9-0)  | [3] |
| 316. | Business Law.<br>Prerequisite: Sophomore standing.<br>Daily 10:10. | (9-0)  | [3] |
| 403. | Principles of Economics.<br>Daily 7:30.                            | (9-0)  | [3] |
| 421. | Government and Industry.<br>MTThF 8:50                             | (6-0)  | [2] |
| 506. | Labor Problems.<br>Daily 7:30 (Additional hours to be arranged).   | (12-0) | [4] |

EDUCATION

(Agricultural)

- |      |   |        |     |
|------|---|--------|-----|
| 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.<br>MTThF 8:50   | (6-0)  | [2] |
| 509. | Part-time Classes.<br>MTThF 8:50  | (6-0)  | [2] |
| 511. | Evening School Problems.<br>Daily 11:30.  | (6-0)  | [2] |
| 512. | The Use of Agricultural Outlook Material.<br>Daily 11:30.                                       | (6-0)  | [2] |
| 514. | Research and Thesis Problems.<br>(Hours to be arranged).  | (6-0)  | [2] |

(Industrial)

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

(General and Rural)

- |      |  |       |     |
|------|--|-------|-----|
| 121. | An Introduction to Education.<br>Daily 7:30. | (9-0) | [3] |
| 221. | Rural School Methods.<br>Daily 10:10.        | (9-0) | [3] |

321.	Secondary School Methods. Daily 8:50.	(9-0)	[3]
323.	Psychology of Adolescence. Daily 10:10.	(9-0)	[3]
426.	Tests and Measurements. Daily 7:30.	(9-0)	[3]
430.	Curriculum Construction. Daily 7:30.	(9-0)	[3]
501.	Problems in Rural Education. Daily 8:50. (Additional hours to be arranged.)	(12-0)	[4]
505.	Educational Administration. or	(12-0)	[4]
507.	City School Supervision. (Hours to be arranged).	(12-0)	[4]
511.	The Techniques of Teaching. Daily 8:50 (Additional hours to be arranged).	(12-0)	[4]

## (Public School Music)

223.	Public School Instrumental Music. A general survey of the systems of teaching instrumental music (band and orchestra) in the public schools. Daily 8:50.	(9-0)	[3]
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## (Physical Education)

207.	Health Education. Prerequisite: Sophomore standing and approval of instructor. Daily 7:30.	(9-0)	[3]
305.	Public School Physical Education. Prerequisite: Junior standing and approval of instructor. Daily 10:10.	(9-0)	[3]
306.	Public School Physical Education. Prerequisite: Junior standing and approval of instructor. Daily 7:30.	(9-0)	[3]
311.	Fundamentals of Athletic Coaching. Prerequisite: Approval of instructor. Daily 11:30; TTh 1:30-4:30.	(6-6)	[3]
403.	Organization and Administration of Physical Education Prerequisite: Approval of instructor. MTThF 8:50; WF 1:30-4:30.	(6-6)	[3]

## ELECTRICAL ENGINEERING

301. Direct Currents. (9-18) [5]  
 Prerequisite: Electrical Engineering  
 202, Mathematics 204.  
 Daily 7:30 (Practice hours to be arranged).
507. Advanced Alternating Current Machinery. (6-18) [4]  
 Daily 11:30 (Practice hours to be arranged).

## ENGINEERING DRAWING

111. Mechanical Drawing. (0-18) [2]  
 Daily except S, 1:30-5:00.
124. Descriptive Geometry. (6-12) [3]  
 MTThF 8:50; MWF 1:30-5:30.
201. Mechanical Drawing. (0-6) [1]  
 Prerequisite: Engineering Drawing 111.  
 TTh 1:30-4:30.
202. Mechanical Drawing. (0-6) [1]  
 MW 1:30-4:30.
- 213, 214. Mechanical Drawing. (0-6) 1 Credit each  
 (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.  
 (1) MTThF 8:50. (2) Daily 11:30.
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.
413. Contemporary Literature. (6-0) [2]  
 Prerequisite: English 231, 232, or 203, 210.  
 MTThF 7:30.

## ENTOMOLOGY

402. Advanced Economic Entomology. (6-12) [3]  
 Prerequisite: Entomology 201 or 301.  
 MTThF 8:50 and 1:30-4:30.
- 507 or 508. Economic Entomology. (9-9) [4]  
 Daily 10:10 (Practice hours to be arranged).

**GEOLOGY**

201. General Geology. (9-9) [4]  
Prerequisite: Chemistry 102.
202. Historical Geology. (9-9) [4]  
Prerequisite: Geology 201.  
Daily 7:30; MWF 1:30-4:30.
307. Mineralogy and Petrology. (9-12) [4]  
Prerequisite: Chemistry 102.  
Daily 10:10 (Practice hours to be arranged).

**HISTORY**

215. History of the United States. (9-0) [3]  
Daily 7:30.
305. American Government. (9-0) [3]  
Daily 10:10.

**HORTICULTURE**

317. Principles of Fruit Growing. (6-9) [3]  
Prerequisite: Horticulture 201.  
MTThF 7:30; MWF 1:30-4:30.
418. Nut Culture. (3-9) [2]  
Prerequisite: Horticulture 201.  
MWF 11:30; TTh 1:30-5:30.  
(Extra practice hours to be arranged).
501. Advanced Fruit Growing (9-9) [4]  
Prerequisite: Horticulture 317, 318, or equivalent.  
Daily 10:10 (Practice 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 10:10. (2) 8:50.
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**

102. Engineering Problems. (3-6) [1]  
TThS 11:30; TTh 1:30-4:30.
212. Engineering Mechanics. (9-0) [3]  
Must be preceded or accompanied by  
Mathematics 204.  
Daily 10:10.
503. Power Plants. (6-18) [4]  
Prerequisite: Mechanical Engineering 418.  
(Hours to be arranged).
508. Experimental Engineering Research. (3-24) [4]  
(Hours to be arranged).

**MODERN LANGUAGES**

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

**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**

306. Game Propagation and Management. (6-9) [3]  
MTThF 8:50; TThF 1:30-4:30.
- 501 or 502. Research Problems. (9-12) [4]  
(Hours to be arranged).
- 503 or 504. Advanced Incubating and  
Brooding. (9-12) [4]  
(Hours to be arranged).

**RURAL SOCIOLOGY**

407. Rural Sociology. (6-6) [3]  
Daily 11:30; TTh 1:30-4:30.

501. Advanced Rural Sociology. (12-0) [4]  
Daily 7:30 (Additional hours to be arranged).
511. History of Modern Social Thought. (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, 471. Clinics. (0-21) [2]  
(Hours to be arranged).

#### VETERINARY PHYSIOLOGY AND PHARMACOLOGY

121. Physiology of the Domestic Animals. (6-0) [2]  
Daily 11:30.
333. Pharmacology. (9-12) [4]  
Daily 8:50; MTThF 1:30-4:30.

#### SECOND TERM

(July 5 to August 24)

#### AGRICULTURAL ECONOMICS

314. Marketing. (9-0) [3]  
Prerequisite: A course in Principles  
of Economics.  
Daily 8:50.
514. Contemporary Problems in Agricultural  
Economics (12-0) [4]  
(Hours to be arranged).

#### ANIMAL HUSBANDRY

203. Market Classes and Grades of Livestock. (6-6) [3]  
Prerequisite: Animal Husbandry 107.  
MTThF 8:50; TTh 1:30-4:30.
409. Animal Nutrition and Live Stock Feeding. (9-6) [4]  
Daily 10:10; MW 1:30-4:30.

#### BIOLOGY

102. General Botany. (6-12) [3]  
Daily 11:30; MWF 1:30-5:30.

#### CHEMISTRY

102. General Inorganic Chemistry. (9-9) [4]  
Daily 7:30; MWF 1:30-4:30.

**CIVIL ENGINEERING**

- |      |  |        |     |
|------|--|--------|-----|
| 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.   |        |     |
| 534. | Advanced Mechanics of Materials.   | (12-0) | [4] |
|      | Daily 7:30 (Additional hours to be arranged).                            |        |     |

**ECONOMICS**

- |      |                          |       |     |
|------|--------------------------|-------|-----|
| 204. | Principles of Economics. | (9-0) | [3] |
|      | Daily 10:10.             |       |     |
| 403. | Principles of Economics. | (9-0) | [3] |
|      | Daily 7:30.              |       |     |

**EDUCATION****(Industrial)**

- |      |   |        |     |
|------|---|--------|-----|
| 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).          |        |     |
| 510. | Methods of Teaching Drawing.                            | (6-12) | [3] |
|      | Daily 11:30; MWF 1:30-5:30.                             |        |     |

**(General and Rural)**

- |      |                                  |       |     |
|------|----------------------------------|-------|-----|
| 123. | Introduction to Teaching.        | (9-0) | [3] |
|      | Daily 7:30.                      |       |     |
| 222. | Rural School Administration.     | (9-0) | [3] |
|      | Daily 10:10.                     |       |     |
| 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.      | (9-0) | [3] |
|      | Daily 10:10.                     |       |     |

430.	Curriculum Construction. Daily 7:30.	(9-0)	[3]
502.	Rural School Administration. Daily 8:50 (Additional hours to be arranged).	(12-0)	[4]
502A.	Rural School Administration. (A three week course for County Superintendents.) (Hours to be arranged).	(18-0)	[3]
504.	Development of Public School Education in Texas. Daily 7:30 (Additional hours to be arranged).	(12-0)	[4]
506.	Educational Administration. Daily 10:10 (Additional hours to be arranged).	(12-0)	[4]
508.	Problems of Public School Support. (Hours to be arranged).	(6-0)	[2]
510.	Child Accounting. (Hours to be arranged).	(6-0)	[2]

**(Physical Education)**

208.	Athletic Training. Prerequisite: Approval of instructor. Daily 7:30.	(6-0)	[3]
305.	Public School Physical Education. Prerequisite: Approval of instructor. Daily 10:10.	(6-0)	[3]
306.	Public School Physical Education. Prerequisite: Approval of instructor. Daily 7:30.	(6-0)	[3]
312.	Fundamentals of Athletic Coaching. Prerequisite: Approval of instructor. Daily 11:30, TTh 1:30-4:30.	(6-0)	[3]
404.	Organization and Administration of Physical Education. Prerequisite: Approval of instructor. MTThF 8:50; WF 1:30-4:30.		

**ELECTRICAL ENGINEERING**

302.	Alternating Currents. Prerequisite: Electrical Engineering 301, Mathematics 204. Daily 7:30 and 11:30; TTh 1:30-4:30.	(15-0)	[5]
305.	Electrical Machinery. Prerequisite: Physics 204, Mathematics 204. Daily 8:50; MWF 1:30-4:30.	(9-9)	[4]
508.	Advanced Alternating Current Machinery. MTThF 8:50 (Practice hours to be arranged).	(6-18)	[4]



## ENGINEERING DRAWING

- |           |   |        |               |
|-----------|---|--------|---------------|
| 111.      | Mechanical Drawing.<br>Daily except S, 1:30-5:00.                               | (0-18) | [2]           |
| 124.      | Descriptive Geometry.<br>MTThF 8:50; MWF 1:30-5:30.                             | (6-12) | [3]           |
| 201.      | Mechanical Drawing.<br>Prerequisite: Engineering Drawing 111.<br>TTh 1:30-4:30. | (0-6)  | [1]           |
| 202.      | Mechanical Drawing.<br>MW 1:30-4:30.  | (0-6)  | [1]           |
| 213, 214. | Mechanical Drawing.<br>(Hours to be arranged).                                  | (0-6)  | 1 Credit each |

## ENGLISH

- |      |  |       |     |
|------|--|-------|-----|
| 104. | Rhetoric and Composition.<br>(1) Daily 8:50. (2) 10:10.                            | (9-0) | [3] |
| 210. | Argumentation.<br>(1) Daily 8:50-9:40. (2) 11:30.                                  | (6-0) | [2] |
| 232. | English Literature.<br>Prerequisite: English 103, 104.<br>Daily 10:10.             | (9-0) | [3] |
| 401. | Public Speaking.<br>Prerequisite: English 203, 210<br>or 231, 232.<br>Daily 11:30. | (6-0) | [2] |
| 414. | Contemporary Literature.<br>MTThF 7:30.  | (6-0) | [2] |

## GENETICS

- |      |   |        |     |
|------|---|--------|-----|
| 405. | Survey of Eugenics.<br>Daily 10:10.                               | (9-0)  | [3] |
| 502. | Advanced Plant Genetics.  | (9-12) | [4] |
|      | or  |        |     |
| 505. | Advanced Biometry.<br>MTThF 8:50 (Practice hours to be arranged). | (9-12) | [4] |

## HISTORY

- |      |  |       |     |
|------|--|-------|-----|
| 216. | History of United States.<br>Daily 7:30. | (9-0) | [3] |
| 305. | American Government.<br>Daily 10:10.     | (9-0) | [3] |

## HORTICULTURE

- |      |  |       |     |
|------|--|-------|-----|
| 201. | Plant Propagation and Orchardng.<br>Prerequisite: Biology 101, 102.<br>Daily 11:30; TTh 1:30-4:30. | (6-6) | [3] |
|------|--|-------|-----|

318. Principles of Fruit Growing. (6-9) [3]  
 Prerequisite: Horticulture 201.  
 MTThF 7:30; MWF 1:30-4:30.
502. Advanced Fruit Growing. (9-9) [4]  
 Prerequisite: Horticulture 317, 318,  
 or equivalent.  
 Daily 7:30 (Practice hours to be arranged).

#### MATHEMATICS

102. Algebra. (9-0) [3]  
 (1) Daily 10:10. (2) 8:50.
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 104 or 112.  
 Daily 7:30 and 11:30.
305. Differential Equations. (6-0) [2]  
 Prerequisite: Mathematics 204.  
 Daily 11:30.

#### MECHANICAL ENGINEERING

102. Engineering Problems. (3-6) [1]  
 MWF 1:30-4:30 (Recitation and practice).
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

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

#### 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 10:10; MW 1:30-4:30.
501. Research Problems. (9-12) [4]  
or
504. Advanced Incubation and Brooding. (9-12) [4]  
(Hours to be arranged).

VETERINARY MEDICINE AND SURGERY

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

VETERINARY PHYSIOLOGY AND PHARMACOLOGY

122. Physiology of the Domestic Animals. (6-0) [2]  
Daily 11:30.
334. Pharmacology. (9-0) [3]  
Daily 8:50.

THE SUMMER SCHOOL OF COTTON

(June 4 to July 13)

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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 1935

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The following conferences and short courses will be held at the Agricultural and Mechanical College during the 1935 Summer Session. For special announcement and full descriptive folder, write the person designated.

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The Twelfth Annual Conference of County Superintendents and Rural School Supervisors, July 29 to August 2.  
Write Professor W. L. Hughes.

Texas School Administration Conference. June 10 to 13.  
Write Dean T. D. Brooks.

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Short Courses for Teachers of Vocational Agriculture.  
June 4 to 22 and June 24 to July 13.  
Write Dean C. H. Winkler.

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Short Course for Cotton Oil Mill Operators. June 10 to 15.  
The Firemen's Training School (Sixth Session). July 15  
to 19. Write Dr. C. C. Hedges.

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Farmers' Short Course. July 29 to August 2.  
Write O. B. Martin, Director of Extension Service.

---

Second Annual Short Course for Peace Officers. July 8-12.  
Write Professor E. W. Steel.