

# Agricultural Engineering Technology

## Concentration

### Career Opportunities

The Agricultural Engineering Technology program was developed for students seeking careers associated with the application of technologies in the field of food and fiber production. Careers in Agricultural Engineering Technology include: agricultural equipment manufacturers, agricultural/industrial equipment sales and service, fiber processing, food production/processing industries, geospatial technologies, and technological fields in government-related careers.

The Agricultural Engineering Technology program leads to a Bachelor of Science degree in Agriculture. The program prepares students to be successful in careers associated with industry or government. The curriculum is also structured to prepare students for admission to graduate school in Agriculture Engineering Technology, Agricultural Operations Management, Agricultural Systems Management, or Agricultural Mechanics.

As agriculture is becoming more technical and sophisticated, it is essential that students receive a thorough educational background in relevant technologies and business practices. In the Agriculture Engineering Technology program, engineering technology and business/agribusiness courses are taught in the College of Agriculture and Applied Sciences, College of Engineering and Natural Sciences, and the College of Business and Public Affairs.

### Employment Possibilities

The production of food and fiber, processing them, and transporting the final products to the world's people is the largest enterprise on earth. Everyone everywhere depends on agriculture. Colleges of agriculture throughout the country recognize the necessity for trained individuals in the field of agricultural engineering technology. It is estimated that nearly 50,000 jobs related to agriculture become available each year and many of them are related to agricultural engineering technology.

Some of the many career opportunities available for agricultural engineering technology graduates include those with agricultural equipment manufacturers, agricultural/industrial equipment sales/service, food & fiber industries, financial services, and government agencies.

### Facilities

Modern agricultural laboratories, classrooms, and computer laboratories are located in Brehm Hall and the Ned R. McWherter Agricultural Complex. Students utilize the latest computer technologies, GPS/GIS hardware and software, surveying instruments, and other technology-related equipment. Field trips and hands-on laboratory activities enhance classroom instruction.

# Sample Program of Study

This list includes all courses required; however, the sequence may be flexible.

## **Freshman Year**

### **Fall**

Agricultural Economics 110: Introduction to Agricultural Business .....	3
Engineering 100: Society and Technology (Social & Behavioral Sciences Elective).....	3
English 111: English Composition.....	3
Math 140: College Algebra and Elementary Functions ..	3
Humanities Elective* .....	3

**Total Hours.....15**

### **Spring**

Agricultural Engineering Technology 110: Introduction of Agricultural Engineering .....	3
Engineering 101: Engineering Graphics .....	3
English 112: English Composition.....	3
Math 160 or 251: Calculus for Business and Life Sciences or Calculus I .....	3
Humanities Elective* .....	3

**Total Hours.....15**

## **Sophomore Year**

### **Fall**

Accounting 201: Financial Accounting for Decision Making .....	3
Agricultural Engineering Technology Elective * .....	3
Chemistry 111: Introduction to Chemistry: General and Organic.....	4
Plant Science 110: Introduction to Plant and Soil Science .....	3
Physics 101: Physics in Everyday Life (Biological & Physical Systems Elective) .....	4

**Total Hours.....17**

### **Spring**

Accounting 202: Managerial Accounting Information for Decision Making .....	3
Agricultural Engineering Technology Elective* .....	3
Physics 102: Physics in Everyday Life (Biological & Physical Systems Elective) .....	4
Soil Science 210: Introduction to Soil Science .....	4

**Total Hours.....14**

## **Junior Year**

### **Fall**

Agricultural Economics 375: Environmental and Agricultural Law or Business Law 201: Legal Environment of Business .....	3
Agricultural Engineering Technology Elective* .....	3
Animal Science 110: Introduction to Animal Science .....	3
Soil Science 315: Soil and Water Conservation .....	3
Fine Arts Elective* .....	3

**Total Hours.....15**

### **Spring**

Agricultural Engineering Technology Elective* .....	3
Communications 230: Public Speaking .....	3
Communication 326: Desktop Publishing/Presentation Graphics .....	3
English 325: Technical Communication .....	3
AGRI/NRM Elective* .....	3

**Total Hours.....15**

## **Senior Year**

### **Fall**

Agriculture 390: Career Planning in Agriculture .....	2
Agricultural Engineering Technology Elective* .....	3
AGRI/NRM Elective* .....	3
General Elective* .....	4
Humanities Elective* .....	3

**Total Hours.....15**

### **Spring**

AGRI/NRM Electives* .....	6
Agricultural Engineering Technology Elective* .....	3
General Elective* .....	2
Social & Behavioral Sciences Elective* .....	3

**Total Hours.....14**

\*See catalog for options.

## **For Additional Information Contact:**

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