
The University of Tennessee at Martin

Agricultural Engineering Technology Concentration 2005-2006

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 complex fields 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 West Tennessee Agricultural Pavilion. 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.

For More Information Contact

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Program of Study: Agricultural Engineering Technology Concentration, 2005-2006

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	3
English 111: English Composition	3
Global Dynamics Elective*	3
<u>Math 140: College Algebra and Elementary Functions</u>	<u>3</u>
Total Hours	15

Spring

Agricultural Engineering 110: Introduction of Agricultural Engineering	3
Engineering 101: Engineering Graphics	3
English 112: English Composition	3
Math 160: Calculus for Business and Life Sciences or 251: Calculus I	3
<u>Global Dynamics Elective*</u>	<u>3</u>
Total Hours	15

Sophomore Year

Fall

Accounting 201: Financial Accounting for Decision Making	3
Agricultural Engineering Technology Concentration Requirement #1 *	3
Chemistry 100 or 121: Basic Concepts of Chemistry or General Chemistry	4
Plant Science 110: Intro. Plant and Soil Science	3
<u>Physics 101: Physics in Everyday Life</u>	<u>4</u>
Total Hours	17

Spring

Accounting 202: Managerial Accounting Information for Decision Making	3
Agricultural Engineering Technology Concentration Requirement #2*	3
Physics 102: Physics in Everyday Life	4
<u>Soil Science 210: Introduction to Soil Science</u>	<u>4</u>
Total Hours	14

Junior Year

Fall

Agricultural Econ 375: Env. & Agri. Law or Business Law 210: Legal Environment of Business . . .	3
Agricultural Engineering Technology Concentration Requirement #3*	3
Animal Science 110: Introduction to Animal Science ..	3
Soil Science 315: Soil and Water Conservation	3
<u>Aesthetics Elective*</u>	<u>3</u>
Total Hours	15

Spring

Agri/NRM Elective #1*	3
Agricultural Engineering Technology Concentration Requirement #4*	3
Communication 326: Desktop Publishing/Presentation Graphics	3
Communications 230: Public Speaking	3
<u>English 325: Technical Communication</u>	<u>3</u>
Total Hours	15

Senior Year

Fall

Agriculture 390: Career Planning in Agriculture	2
Agricultural Engineering Technology Concentration Requirement #5*	3
Agri/NRM Elective #2*	3
Social Dynamics Elective*	3
<u>General Elective*</u>	<u>4</u>
Total Hours	15

Spring

Agricultural Engineering Technology Concentration Requirement #6*	3
Agri/NRM Elective 3 & 4*	6
Agriculture 295 Intl. Food and Fiber Systems	3
<u>Social Dynamics Elective*</u>	<u>3</u>
Total Hours	15

*See catalog for options.