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## The University of Tennessee at Martin Agricultural Science Concentration, 2004-2005

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### Career Opportunities

Training in agricultural education in the College of Agriculture and Applied Sciences prepares students for a variety of careers. The principal focus is to train agriculture teachers for high school and vocational technical schools. Students have the opportunity to earn a teaching certificate as part of their education program. Because of the broad array of courses in the curriculum, many of our graduates are employed by government agencies, agricultural business, agricultural industries, banks and farm organizations. Some choose to farm, but feel secure knowing their degree will allow them to later change careers if they wish. This program leads to a bachelor of science (B.S.) degree in agriculture and is offered jointly by the College of Agriculture and Applied Sciences and the College of Education and Behavioral Sciences.

### Employment Possibilities

There is a nationwide shortage of teachers of vocational agriculture. Each year more vacancies occur in the state of Tennessee than there are certified teachers to fill these positions. In addition to these, UTM receives calls and letters from several of the neighboring states asking for certified teachers. About 60 percent of the agricultural education graduates accept teaching positions, while others go into many other areas of agriculture. The student-teaching experience a student receives while enrolled in agricultural education is considered a valuable asset by many prospective employers.

### Facilities

In addition to the West Tennessee Agricultural Pavilion, the library and classroom facilities, there are numerous laboratories containing modern equipment that are utilized for instructional programs. There are shop facilities on campus and a livestock teaching center adjacent to the campus. Numerous computer facilities are also available for student use.

### For More Information

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# Program of Study, Professional Education Option

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

## Freshman Year

### Fall

Biology 110: Introductory Cell Biology and Genetics . .	4
English 111: English Composition . . . . .	3
Math 140: College Algebra and Elementary Functions	3
Animal Science 110: Introduction to Animal Science .	3
Animal Science 119: Introduction to Animal Science <u>Laboratory</u> . . . . .	<u>1</u>
Total Hours . . . . .	14

### Spring

Biology 120: Introductory Plant and Animal Biology . .	4
English 112: English Composition . . . . .	3
Agricultural Economics 110: Introduction to Agricultural Business . . . . .	3
Plant Science 110: Introductory Plant and Soil Science	3
Agriculture Engineering Technology 110: Introduction to <u>Agricultural Engineering</u> . . . . .	<u>3</u>
Total Hours . . . . .	16

## Sophomore Year

### Fall

Chemistry 121: General Chemistry . . . . .	4
Agriculture Engineering Technology 210: Internal Combustion Engines . . . . .	3
Agriculture Engineering Technology 220: Surveying and Soil and Water Engineering . . . . .	3
Math 160 or 210: Calculus for Business and Life Science or Elementary Statistics and Probability . . .	3
<u>Global Dynamics Elective*</u> . . . . .	<u>3</u>
Total Hours . . . . .	16

### Spring

Chemistry 122: General Chemistry . . . . .	4
Communications 230: Public Speaking . . . . .	3
Soil Science 210: Introduction to Soil Science . . . . .	4
Philosophy 160: Introduction to Ethics . . . . .	3
Computer Science 201: Introduction to Computer <u>Applications</u> . . . . .	<u>3</u>
Total Hours . . . . .	17

## Junior Year

### Fall

Animal Science 240: Live Animal and Carcass Selection and Evaluation . . . . .	3
Agricultural Engineering Technology 370: Agriculture Mechanics Shop . . . . .	3
Animal Science 340 or 350: Basic Animal Nutrition or Applied Animal Nutrition . . . . .	3
Microbiology 251 or 310: General Bacteriology or General Molecular Biology . . . . .	4
Agricultural Education 310: Integrated Agricultural and <u>Agriscience Education Studies**</u> . . . . .	<u>3</u>
Total Hours . . . . .	16

### Spring

Plant Science 363 or 365: Plant Identification and Propagation or Greenhouse Crops and Management .	3
Agriculture 450: Dynamics and Development of Leadership in Natural Resources Management . . . . .	3
Special Education 300: Exceptional Child . . . . .	3
Teacher Education 301: Foundations of Education . .	2
Psychology 120: General Psychology . . . . .	3
<u>Aesthetics Elective*</u> . . . . .	<u>3</u>
Total Hours . . . . .	17

## Senior Year

### Fall

Teacher Education 302: Integrated Teaching Strategies** . . . . .	3
Agricultural Education 404: Student Teaching Grades 7- 8** . . . . .	6
Human Learning 311: Computers and Learning . . . . .	3
Reading 433: Reading in Content Area Classroom . .	3
<u>Teacher Education 401: Seminar in Teaching**</u> . . . . .	<u>1</u>
Total Hours . . . . .	16

### Spring

Teacher Education 303: Diagnosis and Evaluation** .	3
Agricultural Education 405: Student Teaching Grades 9-12** . . . . .	6
Agricultural Economics 471: Agricultural Management	3
Agriculture 390: Career Planning in Agriculture . . . . .	3
Agricultural Education 470: Problems in Agricultural <u>Education</u> . . . . .	<u>3</u>
Total Hours . . . . .	18

\*See catalog for options.

\*\* Admission to Teacher Education required.