

# Agricultural Science Concentration

## Professional Education Option

### 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 Ned R. McWherter Agricultural Complex, 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.

# 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
Animal Science 110: Introduction to Animal Science .....	3
Animal Science 119: Introduction to Animal Science Laboratory .....	1
Biology 110: Introductory Cell Biology and Genetics .....	4
English 111: English Composition .....	3
Math 140: College Algebra and Elementary Functions.....	3

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

### Spring

Agricultural Engineering Technology 110: Introduction to Agricultural Engineering .....	3
Biology 120: Introductory Plant and Animal Biology .....	4
English 112: English Composition.....	3
Plant Science 110: Introductory Plant and Soil Science .....	3
Plant Science 119: Introductory Plant and Soil Science Laboratory .....	1
Psychology 120: General Psychology (Social & Behavioral Sciences Elective).....	3

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

## Sophomore Year

### Fall

Agriculture 295: International Food and Fiber Systems or NRM 101: Wildlife, Conservation, and Environmental Issues (Social & Behavioral Sciences Elective) .....	3
Animal Science 240: Live Animal and Carcass Selection and Evaluation .....	3
Chemistry 111: Introduction to Chemistry I: General and Organic.....	4
English Literature/Humanities Elective* .....	3

**Total Hours.....13**

### Spring

Communications 230: Public Speaking .....	3
Plant Science 242: Fundamentals of Horticulture .....	3
Soil Science 210: Introduction to Soil Science .....	4
Fine Arts Elective* .....	3
Humanities Elective* .....	3

**Total Hours.....16**

## Junior Year

### Fall

Agricultural Engineering Technology 210: Internal Combustion Engines .....	3
Agricultural Engineering Technology 220: Surveying and Soil and Water Engineering .....	3
Agricultural Engineering Technology 370: Agricultural Mechanics Shop.....	3
Human Learning 311: Computers and Learning .....	3
Teacher Education 301**: Foundations of Education.....	2

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

### Spring

Agriculture 390: Career Planning In Agriculture.....	2
Human Learning 325: Educational Psychology .....	3
Special Education 300: Exceptional Child .....	3
Teacher Education 302**: Integrated Teaching Strategies .....	3
Humanities Elective*.....	3

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

## Senior Year

### Fall

Agriculture 450: Dynamics and Development of Leadership in Agriculture and Natural Resources .....	3
Agricultural Education 310**: Integrated Agricultural and Agriscience Education Studies.....	3
Agricultural Education 470: Problems in Agricultural Education (1 hour General Elective) .....	4
Reading 433: Reading in the Content Area Classroom .....	3
Teacher Education 303**: Diagnosis and Evaluation.....	3

**Total Hours.....16**

### Spring

Agricultural Education 404**: Student Teaching Grades 7-8 .....	6
Agricultural Education 405**: Student Teaching in Grades 9-12 .....	6
Teacher Education 401**: Seminar in Teaching.....	1

**Total Hours.....13**

\*See catalog for options.

\*\* Admission to Teacher Education required.

## For Additional Information Contact:

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