

**Junior Year****First Semester**

- 3 - AGED 3030 Mechanical Technology for Agriculture Education
- 3 - AGM 2210 Surveying
- 3 - HORT 3030 Landscape Plants
- 4 - PES 2020 Soils
- 3 - Advanced Writing Requirement<sup>2</sup>

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**Second Semester**

- 3 - AGED 4160 Ethics and Issues in Agriculture and the Food and Fiber System
- 3 - EDF 3020 Educational Psychology
- 3 - ENR 3020 Natural Resources Measurements
- 3 - HORT 4040 Plant Propagation
- 1 - HORT 4050 Plant Propagation Techniques Lab.
- 3 - Oral Communication Requirement<sup>3</sup>

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**Senior Year****First Semester**

- 1 - AGED 4000 Supervised Field Experience II
- 3 - AGED 4010 Instructional Methods in Ag. Ed.
- 3 - AGED 4030 Principles of Adult/Ext. Education
- 3 - AGED 4230 Curriculum
- 3 - EDLT 4980 Secondary Content Area Reading
- 3 - Arts and Humanities (Literature) Requirement<sup>1</sup>

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**Second Semester**

- 12 - AGED 4060 Directed Teaching
- 2 - AGED 4250 Teaching Agricultural Mechanics

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130 Total Semester Hours

<sup>1</sup>See General Education Requirements. Three of these credits must also satisfy the Science and Technology in Society General Education Requirement.

<sup>2</sup>ENGL 3040 or 3140 is recommended.

<sup>3</sup>See General Education Requirements. COMM 1500 or 2500 is recommended.

## AGRICULTURAL MECHANIZATION AND BUSINESS

**Bachelor of Science**

The Agricultural Mechanization and Business major provides a program for students who desire training in areas relevant to dynamic agricultural enterprises. The program is organized with strength in both business management and technical support of agriculture and agribusiness. To produce well rounded individuals with good communication skills, the curriculum includes courses in the humanities, social sciences, English composition, and public speaking.

Graduates in Agricultural Mechanization and Business find meaningful and remunerative employment in a variety of situations directly and indirectly related to agricultural production, processing, marketing, and the many services connected therewith. Farming and technical sales in the agricultural, industrial, and heavy equipment industries are frequently chosen careers.

By completing this curriculum, graduates will have fulfilled the requirements for an Agricultural Business Management minor or other selected minor. Contact the Enrolled Student Services Office to have the minor recorded.

Additional information is available from the departmental offices or can be found at [www.clemson.edu/cafls/safes/agmec/index.html](http://www.clemson.edu/cafls/safes/agmec/index.html).

**Freshman Year****First Semester**

- 1 - AGM 1010 Intro. to Ag. Mech. and Business
- 3 - AGM 2050 Principles of Fabrication
- 3 - AGRB 2020 Agricultural Economics *or* 3 - ECON 2110 Principles of Microeconomics<sup>1</sup>
- 3 - BIOL 1030 General Biology I
- 1 - BIOL 1050 General Biology Lab. I
- 3 - MATH 1020 Business Calculus I

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**Second Semester**

- 3 - ACCT 2010 Financial Accounting Concepts
- 3 - BIOL 1040 General Biology II
- 1 - BIOL 1060 General Biology Lab. II
- 3 - ENGL 1030 Composition and Rhetoric
- 3 - STAT 2300 Statistical Methods I<sup>1</sup>
- 3 - Elective

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**Sophomore Year****First Semester**

- 3 - AGM 2190 Agribusiness and Food Systems
- 3 - AGM 2210 Surveying
- 4 - CH 1010 General Chemistry
- 2 - ENGR 2080 Engineering Graphics and Machine Design *or* 2 - ENGR 2090 Introduction to Engineering Computer Graphics *or* 2 - ENGR 2100 Comp. Aided Design/Engr. Apps.
- 4 - PHYS 2000 Introductory Physics *or* 3 - PHYS 2070 General Physics I *and* 1 - PHYS 2090 General Physics I Lab.

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**Second Semester**

- 3 - AGM 2060 Machinery Management
- 3 - AGM 2200 Calculations for Mechanized Agric.
- 4 - CH 1020 General Chemistry
- 3 - Arts and Humanities (Literature) Requirement
- 3 - Plant/Crop Science Requirement<sup>2</sup>

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**Junior Year****First Semester**

- 3 - AGM 3010 Soil and Water Conservation
- 3 - AGM 3190 Agribusiness Decision Analysis
- 3 - AGM 4600 Electrical Systems
- 3 - AGRB 3020 Economics of Farm Management *or* 3 - MGT 2010 Principles of Management<sup>1,3</sup>
- 4 - PES 2020 Soils

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**Second Semester**

- 3 - AGM 4020 Irrigation System Design
- 3 - AGM 4520 Mobile Power
- 3 - COMM 1500 Intro. to Human Comm. *or* 3 - COMM 2500 Public Speaking
- 3 - Arts and Humanities (Non-Lit.) Requirement<sup>4</sup>
- 3 - Minor Requirement<sup>5</sup>

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**Senior Year****First Semester**

- 1 - AGM 4000 Senior Seminar in Agricultural Mechanization and Business
- 3 - AGM 4050 Environmental Control in Animal Structures
- 3 - AGM 4060 Mechanical and Hydraulic Systems
- 3 - AGRB 3190 Agribusiness Management *or* 3 - MGT 2010 Principles of Management<sup>1,3</sup>
- 3 - AGRB 3090 Econ. of Agricultural Marketing *or* 3 - MKT 3010 Principles of Marketing<sup>1</sup>
- 3 - Minor Requirement<sup>5</sup>

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**Second Semester**

- 3 - AGM 4100 Precision Agriculture Technology
- 3 - AGM 4720 Capstone
- 3 - Minor Requirement<sup>5</sup>
- 3 - Plant/Crop Science<sup>2</sup> *or* Soil Science<sup>6</sup> Req.
- 3 - Social Science Requirement<sup>4</sup>

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124 Total Semester Hours

<sup>1</sup>Required for students minoring in Business Administration.  
<sup>2</sup>HORT 1010, 2100, 2110, 2120, 4050, (PES) 4330, 4550, 4560, PES 1040, 4050, 4210, 4220, 4230, (AGRB) 4260, PLPA 3100, 4060, 4110, or 4590. If applicable, these courses may also be used to satisfy minor requirement.

<sup>3</sup>MGT 2010 may be substituted for either AGRB 3020 or 3190, but not for both.

<sup>4</sup>See General Education Requirements. Three of these credit hours must also satisfy the Cross-Cultural Awareness and three must satisfy the Science and Technology in Society Requirements.

<sup>5</sup>See CAFLS approved minors. If requirements for an approved minor have already been satisfied, this course may be any 3000-level (or higher) course from an approved program. Any required course in the curriculum may also be used to satisfy minor requirements.

<sup>6</sup>PES 4030, 4460, 4520, 4850, or 4900. If applicable, these courses may also be used to satisfy minor requirement.

Note:

Students must earn a grade of C or better in all required AGM courses and in MATH 1020.

## ANIMAL AND VETERINARY SCIENCES

**Bachelor of Science**

The Animal and Veterinary Sciences curriculum provides students with both a basic and applied understanding of the scientific principles needed for successful careers in the scientific, technical, and business phases of livestock and poultry production, processing, and marketing; or veterinary/medical professions. Strengths of this program include extensive hands-on instruction at Clemson's six animal farms, personalized advising, and the opportunity for valued-added experiences, including involvement in research, teaching, extension, international travel, and internships. Students choose from three concentrations.