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 Requirement1
16

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 Requirement3
16

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) Requirement2
16

Second Semester
12 - AGED 4060 Directed Teaching
2 - AGED 4250 Teaching Agricultural Mechanics
14
130 Total Semester Hours

1See General Education Requirements. Three of these credits must also satisfy the Science and Technology in Society General Education Requirement.
2ENGL 3040 or 3140 is recommended.
3See 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.

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.

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.) Requirement4
3 - Minor Requirement5
15

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 Management1,3
3 - AGRB 3090 Econ. of Agricultural Marketing or
3 - MKT 3010 Principles of Marketing1
3 - Minor Requirement5
16

Second Semester
3 - AGM 4100 Precision Agriculture Technology
3 - AGM 4720 Capstone
3 - Minor Requirement5
3 - Plant/Crop Science or Soil Science Req.
3 - Social Science Requirement6
15
124 Total Semester Hours

1Required for students minoring in Business Administration.
2HORT 1010, 2100, 2110, 2120, 4050, (PES) 4330, 4550, 4560, PES 3040, 4050, 4220, 4230, (AGRB) 4260, PLPS 3000, 4060, 4100, or 4590. If applicable, these courses may also be used to satisfy minor requirement.
3MGT 2010 may be substituted for either AGRB 3020 or 3190, but not for both.
4See 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.
5See 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.
6PES 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.
The Animal Agribusiness Concentration prepares students for careers in the many facets of the animal industries, including production, sales and marketing, business management, advertising, and extension. The Equine Business Concentration prepares students for such professions as trainers, managers, riding instructors, sales or media representatives, breed association representatives or for equine entrepreneurial careers such as owners of tack shops, boarding facilities, or riding schools. The Prevetery and Science Concentration prepares students to meet the requirements for most veterinary schools, graduate schools, and medical and dental schools. Students with South Carolina residency may compete for contract seats at Mississippi State, Tuskegee, and University of Georgia Colleges of Veterinary Medicine. Experienced preprofessional advising is provided for all students pursuing advanced degrees.

Change of Major into Animal and Veterinary Sciences
Students who change majors into Animal and Veterinary Sciences must have a 2.5 minimum cumulative grade-point average.

ANIMAL AGRIBUSINESS CONCENTRATION

Freshman Year
First Semester
3 - AVS 1500 Introduction to Animal Science
1 - AVS 1510 Introduction to Animal Science Lab.
3 - BIOI 1030 General Biology I and
1 - BIOI 1050 General Biology Lab. I or
5 - BIOI 1100 Principles of Biology I
4 - CH 1010 General Chemistry
3 - COMM 1500 Intro. to Human Comm or
3 - COMM 2500 Public Speaking

Second Semester
15-16

Sophomore Year
First Semester
3 - AVS 2040 Horse Care Techniques
2 - AVS Hands-On Course Requirement
3 - MATH 2110 Principles of Microeconomics
3 - STAT 2300 Statistical Methods I
1 - Elective
1 - Business Requirement
3 - Elective
15

Junior Year
First Semester
4 - AVS 3010 Anat. and Phys. of Domestic Animals
3 - AVS 3700 Principles of Animal Nutrition
3 - AVS 4700 Animal Genetics or
3 - GEN 3000 Fundamental Genetics
3 - ECON 2120 Principles of Macroeconomics
3 - Elective

Second Semester
3 - LAW 3220 Legal Environment of Business
3 - MKT 3010 Principles of Marketing
1 - AVS Hands-On Course Requirement
3 - Animal-Human Interaction Course Req.
2 - Advance AVS Nutrition/Physiology Req.
2 - Science and Technology in Society Req.
16

Senior Year
First Semester
3 - AVS 4100 Domestic Animal Behavior
3 - Advanced AVS Nutrition/Physiology Req.
3 - AVS Products or Production Course Req.
3 - Capstone Course Requirement
2 - Advance AVS Nutrition/Physiology Req.
3 - Equine Business Concentration
1 - Elective
15

Second Semester
3 - MATH 4220 Legal Environment of Business
3 - FIN 3060 Corporation Finance
3 - Arts and Humanities (Literature) Requirement
3 - Social Science Requirement
1 - Elective
15

Junior Year
First Semester
4 - AVS 3010 Anat. and Phys. of Domestic Animals
3 - AVS 3700 Principles of Animal Nutrition
3 - AVS 4700 Animal Genetics or
3 - GEN 3000 Fundamental Genetics
3 - ECON 2120 Principles of Macroeconomics
3 - Elective

Second Semester
3 - LAW 3220 Legal Environment of Business
3 - MKT 3010 Principles of Marketing
1 - AVS Hands-On Course Requirement
3 - Animal-Human Interaction Course Req.
1 - Business Requirement
3 - Elective

Senior Year
First Semester
3 - AVS 4100 Domestic Animal Behavior
3 - advanced AVS Nutrition/Physiology Req.
3 - AVS Products or Production Course Req.
3 - Capstone Course Requirement
3 - Science and Technology in Society Req.
1 - Elective

Second Semester
3 - MATH 4220 Legal Environment of Business
3 - FIN 3060 Corporation Finance
3 - Arts and Humanities (Literature) Requirement
3 - Social Science Requirement
1 - Elective

Sophomore Year
First Semester
3 - ACCT 2010 Financial Accounting Concepts
2 - AVS 2040 Horse Care Techniques
3 - MGT 2010 Principles of Management
3 - STAT 2300 Statistical Methods I
3 - Arts and Humanities (Non-Lit.) Requirement
1 - Elective

Second Semester
3 - ECON 2120 Principles of Microeconomics
3 - FIN 3060 Corporation Finance
3 - Arts and Humanities (Literature) Requirement
3 - Social Science Requirement
1 - Elective

Junior Year
First Semester
4 - AVS 3010 Anat. and Phys. of Domestic Animals
3 - AVS 3700 Principles of Animal Nutrition
3 - AVS 4700 Animal Genetics or
3 - GEN 3000 Fundamental Genetics
3 - ECON 2120 Principles of Macroeconomics
3 - Elective

Second Semester
3 - BIOL 1040 General Biology II
1 - BIOL 1060 General Biology Lab. II or
5 - BIOL 1110 Principles of Biology II
4 - CH 1020 General Chemistry
3 - ENGL 1030 Composition and Rhetoric
3 - MATH 1010 Essen. Math. for Informed Soc. or
3 - MATH 1020 Business Calculus I or
4 - MATH 1060 Calculus of One Variable I
1 - Elective

Senior Year
First Semester
3 - AVS 4100 Domestic Animal Behavior
3 - Advanced AVS Nutrition/Physiology Req.
3 - AVS Products or Production Course Req.
3 - Capstone Course Requirement
3 - Science and Technology in Society Req.
1 - Elective

Second Semester
3 - MATH 4220 Legal Environment of Business
3 - FIN 3060 Corporation Finance
3 - Arts and Humanities (Literature) Requirement
3 - Social Science Requirement
1 - Elective

EQUINE BUSINESS CONCENTRATION

Freshman Year
First Semester
3 - AVS 1500 Introduction to Animal Science
1 - AVS 1510 Introduction to Animal Science Lab.
3 - BIOI 1030 General Biology I and
1 - BIOI 1050 General Biology Lab. I or
5 - BIOI 1100 Principles of Biology I
4 - CH 1010 General Chemistry
3 - COMM 1500 Intro. to Human Comm or
3 - COMM 2500 Public Speaking

Second Semester
15-16

Junior Year
First Semester
4 - AVS 3010 Anat. and Phys. of Domestic Animals
3 - AVS 3700 Principles of Animal Nutrition
3 - AVS 4700 Animal Genetics or
3 - GEN 3000 Fundamental Genetics
3 - ECON 2120 Principles of Macroeconomics
3 - Elective

Second Semester
3 - BIOL 1040 General Biology II
1 - BIOL 1060 General Biology Lab. II or
5 - BIOL 1110 Principles of Biology II
4 - CH 1020 General Chemistry
3 - ENGL 1030 Composition and Rhetoric
3 - MATH 1010 Essen. Math. for Informed Soc. or
3 - MATH 1020 Business Calculus I or
4 - MATH 1060 Calculus of One Variable I
1 - Elective

Senior Year
First Semester
3 - AVS 4100 Domestic Animal Behavior
4 - AVS 4160 Equine Exercise Physiology
3 - Advanced AVS Nutrition/Physiology Req.
3 - Animal-Human Interaction Requirement
3 - Social Science Requirement
1 - Elective

Second Semester
3 - MATH 4220 Legal Environment of Business
3 -FIN 3060 Corporation Finance
3 - Arts and Humanities (Literature) Requirement
3 - Social Science Requirement
1 - Elective

Sophomore Year
First Semester
3 - ACCT 2010 Financial Accounting Concepts
2 - AVS 2040 Horse Care Techniques
3 - MGT 2010 Principles of Management
3 - STAT 2300 Statistical Methods I
3 - Arts and Humanities (Non-Lit.) Requirement
1 - Elective

Second Semester
3 - ECON 2120 Principles of Microeconomics
3 - FIN 3060 Corporation Finance
3 - Arts and Humanities (Literature) Requirement
3 - Social Science Requirement
1 - Elective

Junior Year
First Semester
4 - AVS 3010 Anat. and Phys. of Domestic Animals
3 - AVS 3700 Principles of Animal Nutrition
3 - AVS 4700 Animal Genetics or
3 - GEN 3000 Fundamental Genetics
3 - ECON 2120 Principles of Macroeconomics
3 - Elective

Second Semester
3 - MATH 4220 Legal Environment of Business
3 - FIN 3060 Corporation Finance
3 - Arts and Humanities (Literature) Requirement
3 - Social Science Requirement
1 - Elective

Senior Year
First Semester
3 - AVS 4100 Domestic Animal Behavior
4 - AVS 4160 Equine Exercise Physiology
3 - Advanced AVS Nutrition/Physiology Req.
3 - Animal-Human Interaction Requirement
3 - Social Science Requirement
1 - Elective

Second Semester
3 - MATH 4220 Legal Environment of Business
3 - FIN 3060 Corporation Finance
3 - Arts and Humanities (Literature) Requirement
3 - Social Science Requirement
1 - Elective

1See General Education Requirements. AGRB and ECON courses may not be used to fulfill the Social Science Requirement. These three of these credits must also satisfy the Cross-Cultural Awareness Requirement.
<table>
<thead>
<tr>
<th>Semester</th>
<th>Requirements</th>
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<tbody>
<tr>
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<td>CH 1010 General Chemistry</td>
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<td>STAT 2300 Statistical Methods I</td>
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<tr>
<td>1.</td>
<td>PHYS 2090 General Physics I Lab.</td>
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**PREPROFESSIONAL HEALTH SCIENCES—VETERINARY MEDICINE**
Under a regional plan, the South Carolina Prevetinary Advisory Committee coordinates a program for South Carolina residents who are interested in pursuing careers in veterinary medicine. South Carolina residents attending any college or university may apply through the Veterinary Medical College Application Service (VMCAS) to the University of Georgia College of Veterinary Medicine. South Carolina residents attending any college or university may apply through the Veterinary Medical College Application Service (VMCAS) to the University of Georgia College of Veterinary Medicine. Currently the University of Georgia College of Veterinary Medicine includes the following undergraduate courses: six credits of English, 14 credits of humanities and social studies, eight credits of physics, eight credits of general biology, eight credits of advanced biology, three credits of biochemistry, and 16 credits of organic and inorganic chemistry. Chemistry and physics courses must be at the premedical level; they may not be survey courses.) Tuskegee University also requires a medical terminology course.

To be in the best competitive position, applicants should complete courses in animal agriculture, genetics, nutrition, biochemistry, and advanced biology. Considerations for selection are character, scholastic achievement, personality, experience with large and small animals, general knowledge, and motivation. In the past, competition has been keen, and only those applicants who have shown exceptional ability have been admitted. Specific considerations may include a minimal grade-point average and completion of standardized tests such as the Graduate Record Examination and the Veterinary College Admission Test.

Since out-of-state students attending Clemson are ineligible to apply to the University of Georgia or Tuskegee University under the South Carolina quota, they should contact the college(s) of veterinary medicine to which they plan to apply. They may apply at the University of Georgia for all-large admission.

Veterinary schools accept students with a broad range of academic backgrounds; therefore, it is recommended that the beginning university student select any undergraduate major and simultaneously complete the courses required for veterinary school entrance and those required for completion of a BS or BA degree. For students selecting Animal and Veterinary Sciences or Biological Sciences at Clemson University, the basic curricula have been designed to accommodate Georgia’s entrance requirements. Further information is available from the Department of Animal and Veterinary Sciences at 864-656-3427.

**ENVIRONMENTAL AND NATURAL RESOURCES**

**Bachelor of Science**
The Environmental and Natural Resources curriculum produces professionals who have a broad-based knowledge in natural resources and an ability to interact with other resource professionals to provide thoughtful solutions to environmental and natural resource problems. The world is blessed with an abundance of natural resources, but the problems associated with their conservation are immense. Protection of rare and endangered species, preventing and controlling invasions of exotics, protecting old growth forests, restoring degraded ecosystems, and balancing the resource demands of industry and the public are some of the environmental issues which are enmeshed in politicized environments.

Three concentrations are offered within the Environmental and Natural Resources major, which is administered by the Department of Forestry and Environmental Conservation. The Conservation Biology Concentration is oriented toward students...