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

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 4050 Plant Propagation
1 - HORT 4050 Plant Propagation Techniques Lab.
3 - Oral Communication Requirement

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

Second Semester
12 - AGED 4060 Directed Teaching
2 - AGED 4250 Teaching Agricultural Mechanics
16
130 Total Semester Hours

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.

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 Pre-veterinary 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.
1 - BIOL 1030 General Biology I and
1 - BIOL 1050 General Biology Lab. I or
5 - BIOL 1100 Principles of Biology I
4 - CH 1010 General Chemistry
3 - COMM 1500 Intro. to Human Comm or
3 - COMM 2500 Public Speaking

15-16

Second Semester
3 - BIOL 1040 General Biology II
3 - BIOL 1060 General Biology Lab. II and
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

15-17

Sophomore Year

First Semester
3 - ACCT 2010 Financial Accounting Concepts
3 - MGT 2010 Principles of Management
3 - STAT 2300 Statistical Methods I
3 - Arts and Humanities (Literature) Requirement1
1 - Elective

15

Second Semester
3 - AVS 4700 Animal Genetics4 or
3 - AVS 4100 Domestic Animal Behavior
3 - Advanced AVS Nutrition/Physiology Req.3,5
3 - AVS Products or Production Course Req.3,7
4 - Capstone Course Requirement4,8
4 - Elective

15

120–123 Total Semester Hours

1See General Education Requirements. Social Science courses may not be selected from AGRB and ECON courses. Three of these credits must also satisfy the Cross-Cultural Awareness Requirement.
2Select from AVS 2000, 2010, 2030, 2040, 2060, 2080, 2090,
2110, 2120, 2020, 3090, 3110, 3230, 3600, 3900, 4410, 4420, 4450, 4950
May be taken in either the fall or spring semester.
3AVS 4700 is only offered in the fall semester. GEN 3000 may be taken in either semester of the junior year.
4Select from AVS 1500, (BIOL/MICRO) 4410, 4530, 4650, 4670, 4700, (BIOL) 4800:
Select from AVS 3000, 3150, 3850
Select from AVS 4010, 4110, 4120, 4130, 4500
Select from AVS 4000, 4060, 4150, 4170
Select from any 3000- or 4000-level ACCT, AGRB, ECON, FIN, LAW, MKT, or MGT course not otherwise required.

EQUINE BUSINESS CONCENTRATION

Freshman Year

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

15-16

Second Semester
3 - AVS 4700 Animal Genetics2
3 - AVS 3010 Anat. and Phys. of Domestic Animals
3 - AVS 3700 Principles of Animal Nutrition
3 - GEN 3000 Fundamental Genetics4
3 - ECON 2120 Principles of Macroeconomics
3 - Elective

15

Junior Year

First Semester
3 - AVS 4100 Domestic Animal Behavior
3 - Advanced AVS Nutrition/Physiology Req.3,5
3 - AVS Products or Production Course Req.3,7
3 - Capstone Course Requirement4,8
4 - Elective

15

Second Semester
3 - Advanced AVS Nutrition/Physiology Req.3,5 or
3 - Animal-Human Interaction Course Req.3,6
2 - AVS Hands-On Course Requirement3,8
3 - Science and Technology in Society Req.1,3
1See General Education Requirements. Social Science courses may not be selected from AGRB and ECON courses. Three of these credits must also satisfy the Cross-Cultural Awareness Requirement.
2Select from AVS 2000, 2010, 2030, 2040, 2060, 2080, 2090,
2110, 2120, 2020, 3090, 3110, 3230, 3600, 3900, 4410, 4420, 4450, 4950
May be taken in either the fall or spring semester.
3AVS 4700 is only offered in the fall semester. GEN 3000 may be taken in either semester of the junior year.
4Select from AVS 1500, (BIOL/MICRO) 4410, 4530, 4650, 4670, 4700, (BIOL) 4800:
Select from AVS 3000, 3150, 3850
Select from AVS 4010, 4110, 4120, 4130, 4500
Select from AVS 4000, 4060, 4150, 4170
Select from any 3000- or 4000-level ACCT, AGRB, ECON, FIN, LAW, MKT, or MGT course not otherwise required.

Senior Year

First Semester
3 - AVS 4100 Domestic Animal Behavior
3 - Advanced AVS Nutrition/Physiology Req.3,5
3 - AVS Products or Production Course Req.3,7
3 - Capstone Course Requirement4,8
4 - Elective

15

Second Semester
3 - LAW 3220 Legal Environment of Business
3 - MKT 3010 Principles of Marketing
3 - Arts and Humanities (Literature) Requirement1
3 - Social Science Requirement1
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 Genetics4 or
3 - GEN 3000 Fundamental Genetics2
3 - ECON 2120 Principles of Macroeconomics
3 - Elective

15

Second Semester
3 - LAW 3220 Legal Environment of Business
3 - FIN 3060 Corporation Finance
3 - Arts and Humanities (Literature) Requirement1
3 - Social Science Requirement1
3 - Elective

15

Senior Year

First Semester
4 - AVS 4100 Domestic Animal Behavior
4 - AVS 4160 Equine Exercise Physiology
3 - Advanced AVS Nutrition/Physiology Req.1,4
3 - Animal-Human Interaction Requirement4,5
2 - AVS Hands-On Course Requirement4,6

14

Second Semester
3 - LAW 3220 Legal Environment of Business
3 - MKT 3010 Principles of Marketing
3 - Advanced AVS Nutrition/Physiology Req.1,4
3 - Animal-Human Interaction Requirement4,5
2 - AVS Hands-On Course Requirement4,6

14

120–123 Total Semester Hours

1See General Education Requirements. AGRB and ECON courses may not be used to fulfill the Social Science Requirement. Three of these credits must also satisfy the Cross-Cultural Awareness Requirement.