ANIMAL SCIENCES | EQUINE

Potential careers for animal sciences majors include livestock production (beef cattle, dairy cattle, swine, poultry and horses), livestock processing and utilization (meat, milk, performance and recreation), allied service industries (feed, health care, genetics, equipment, supplies, marketing, promotion, finance and education) and preparation for graduate or veterinary medical school.

About this Program
- **College**: Agricultural and Life Sciences
- **Degree**: Bachelor of Science
- **Credits for Degree**: 120
- **Specializations**: Animal Biology | Equine | Food Animal
- **Additional Information**

To graduate with this major, students must complete all university, college, and major requirements.

By choosing appropriate electives, students can earn a minor or a dual major in agribusiness management, extension education or agricultural operations management while completing the degree requirements for the equine or food animal specialization.

Equine

Career preparation can be strengthened through electives.

Related Animal Sciences Programs
- **Combined Degree**

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites may be used for transfer students.

Semester 1
- Complete 2 of 6 critical-tracking courses, excluding labs: BSC 2010 and BSC 2010L, BSC 2011 and BSC 2011L, CHM 2045 and CHM 2045L, MAC 1147, STA 2023, and AEB 2014 or ECO 2013 or ECO 2023
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 2
- Complete 1 additional critical-tracking course, excluding labs
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 3
- Complete 2 additional critical-tracking courses, excluding labs
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 4
- Complete 1 additional critical-tracking course, excluding labs
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 5
- Complete all critical-tracking course, including labs

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Semester One</td>
<td>Title</td>
<td>Credits</td>
</tr>
<tr>
<td>BSC 2010 &amp; 2010L</td>
<td>Integrated Principles of Biology 1 and Integrated Principles of Biology Laboratory 1 (Critical Tracking; State Core Gen Ed Biological and Physical Sciences)</td>
<td>4</td>
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<tr>
<td>MAC 1147</td>
<td>Precalculus Algebra and Trigonometry (State Core Gen Ed Mathematics)</td>
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<tr>
<td>ENC 1101</td>
<td>Expository and Argumentative Writing (State Core Gen Ed Composition; Writing Requirement)</td>
<td>3</td>
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<td>State Core Gen Ed Humanities with Diversity</td>
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<td>3</td>
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<tr>
<td>Semester Two</td>
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<tr>
<td>AEC 3033C or SPC 2608</td>
<td>Effective Oral Communication or Introduction to Public Speaking</td>
<td>3</td>
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<tr>
<td>BSC 2011 &amp; 2011L</td>
<td>Integrated Principles of Biology 2 and Integrated Principles of Biology Laboratory 2 (Critical Tracking; Gen Ed Biological Sciences)</td>
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<tr>
<td>ECO 2013</td>
<td>Principles of Macroeconomics (Critical Tracking; State Core Gen Ed Social and Behavioral Sciences)</td>
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<tr>
<td>ENC 1102</td>
<td>Argument and Persuasion (Gen Ed Composition)</td>
<td>3</td>
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<tr>
<td>IUF 1000</td>
<td>What is the Good Life (Gen Ed Humanities)</td>
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<tr>
<td>Semester Three</td>
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<tr>
<td>Select one:</td>
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<tr>
<td>AEC 3033C</td>
<td>Research and Business Writing in Agricultural and Life Sciences (Writing Requirement)</td>
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<tr>
<td>ENC 2210</td>
<td>Technical Writing</td>
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<tr>
<td>CHM 2045 &amp; 2045L</td>
<td>General Chemistry 1 and General Chemistry 1 Laboratory (Critical Tracking; Gen Ed Biological and Physical Sciences)</td>
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<td>Electives</td>
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<td>Semester Four</td>
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<tr>
<td>MCB 2000 &amp; 2000L</td>
<td>Microbiology and Microbiology Laboratory (Gen Ed Biological Sciences)</td>
<td>4</td>
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<tr>
<td>STA 2023</td>
<td>Introduction to Statistics 1 (Critical Tracking; Gen Ed Mathematics)</td>
<td>3</td>
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</tbody>
</table>
Electives 5
Gen Ed Social and Behavioral Sciences 3

Semester Five
AEB 3133 Principles of Agribusiness Management 3
ANS 3006 Introduction to Animal Science 4
& 3006L and Introduction to Animal Science Laboratory
ANS 3217C Equine Health Management 2
ANS 3440 Principles of Animal Nutrition 4
ANS 3934 Careers in the Livestock Industry 2

Credits 15

Semester Six
AGR 4231C Forage Science and Range Management 4
ANS 3319C Reproductive Physiology and Endocrinology in Domestic Animals 4
ANS 3384C Genetics of Domestic Animals 3
Food and resource economics elective 3

Credits 14

Summer After Semester Six
ANS 4941 Full-Time Practical Work Experience in Animal Science 3-8

Credits 3-8

Semester Seven
ANS 3043 Growth and Development of Farm Animals 3
ANS 3405 Equine Nutrition and Feeding Management 2
Equine practicum elective 2
Food and resource economics elective 3
Electives 4

Credits 14

Semester Eight
ANS 3079L Relationship of Form to Function in Horses 2
ANS 4234 Horse Enterprise Management 2
ANS 4931 Senior Seminar 1
Equine practicum elective 1
Electives 7

Credits 13

Total Credits 120

Approved Equine Practicum Electives
Code Title Credits
ANS 3239L Techniques in Equine Science 2
ANS 4212L Techniques in Farrier Science 1-2
ANS 4218L Horse Psychology and Training 3
ANS 4231 Practicum in Horse Management and Training Technique 1
ANS 4241L Intermediate Horse Training 2
ANS 4605 Animal and Products Evaluation 1

Approved Food and Resource Economics Electives
Code Title Credits
AEB 3122 Financial Planning for Agribusiness 3
AEB 3300 Agricultural and Food Marketing 3
AEB 3341 Selling Strategically 3
AEB 3450 Introduction to Natural Resource and Environmental Economics 3
AEB 4085 Agricultural Risk Management and the Law 3
AEB 4123 Agricultural and Natural Resource Law 3
AEB 4126 Agricultural and Natural Resource Ethics 3
AEB 4138 Advanced Agribusiness Management 3
AEB 4242 International Trade Policy in Agriculture 3

AEB 4342 Agribusiness and Food Marketing Management 3
AEB 4343 International Agribusiness Marketing 3
AEB 4424 Human Resources Management in Agribusiness 3

Animal sciences majors receive a broad education in the healthy production of animals and animal products. Students' knowledge will be developed through formal courses, laboratories and field trips and will be applied in internships, team projects and presentations. Students will develop the ability to apply conceptual knowledge to solve problems in animal production and to make management decisions.

Before Graduating Students Must
- Pass the animal sciences competency exam, given in three parts. One part will be given in each of these required courses:
  Code Title Credits
  ANS 3006 Introduction to Animal Science 3
  ANS 3043 Growth and Development of Farm Animals 3
  ANS 3319C Reproductive Physiology and Endocrinology in Domestic Animals 4

- Achieve minimum grades of C in AEC 3030C and AEC 3033C. These courses are graded using rubrics developed by a faculty committee.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes (SLOs)

Content
1. Describe and explain fundamental concepts, skills and processes in animal sciences.
2. Apply fundamental concepts, skills and processes in animal sciences.

Critical Thinking
3. Critically evaluate information (or data) in animal sciences.
4. Solve problems in animal sciences.

Communication
5. Effectively communicate in written form in a manner appropriate in animal sciences.
6. Effectively communicate orally in a manner appropriate in animal sciences.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses SLO1 SLO2 SLO3 SLO4 SLO5 SLO6
AEC 3030C I, R, A
AEC 3033C I, R, A
ANS 3006 I R
ANS 3043 R I R R
ANS 3319C R I, R R
ANS 4931 R R R R R
Academic A A A
Assessment Exam
Assessment Types

- Grades
- Academic assessment exam
  - Students in the equine specialization must complete a case study in ANS 4234
  - Students in the food animal specialization must complete an economic assessment plan in ANS 3613L