

DEPARTMENT OF ANIMAL SCIENCE

Major in Animal Science

Check Sheet for Equine Systems (EQSC) Concentration

2026-2027

University Requirements: 1 hour¹

- ☐ UNIV 10051 University Perspectives

English/ Communications: 12 hours

- ☐ ENGL 10103 Composition I

- ☐ ENGL 10203 Composition II

Choose 6 hours Communication Intensive Electives:²

Check for completion	Course I. D.:	Course Name:
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US History or Government: 3 hours

- ☐ HIST 20003 **OR** HIST 20103 **OR** PLSC 20003

Mathematics: 3 hours

- ☐ MATH 11003 College Algebra

Biological Sciences: 8 hours

- ☐ BIOL 10103 Principles of Biology **AND**

- ☐ BIOL 10101 Principles of Biology Lab

- ☐ BIOL 20003 General Microbiology **AND**

- ☐ BIOL 20001 General Microbiology Lab **OR**

ANSC 24133 Domestic Animal Microbiology

ANSC 24131 Domestic Animal Microbiology Lab

Chemical and Physical Sciences: 8 hours

- ☐ CHEM 12103 Fundamentals of Chemistry **AND**

- ☐ CHEM 12101 Fundamentals of Chemistry Lab **OR**

CHEM 14103 University Chemistry I **AND**

CHEM 14101 University Chemistry I Lab

Choose one lecture/lab from the following:

- ☐ CHEM 14203 University Chemistry II **AND**

- ☐ CHEM 14201 University Chemistry II Lab **OR**

CHEM 26103 Organic Physiological Chemistry **AND**

CHEM 26101 Organic Physiological Chemistry Lab **OR**

CHEM 36053 Organic Chemistry I **AND**

CHEM 36051 Organic Chemistry I Lab **OR**

ENSC 10003 Environmental Science **AND**

ENSC 10001 Environmental Science Lab **OR**

ENTO 10203 Insects, Science and Society **AND**

ENTO 10201 Insects, Science and Society Lab **OR**

PHYS 20103 College Physics I **AND**

PHYS 20101 College Physics I Lab

Fine Arts/Humanities: 6 hours

Choose 3 hours from Fine Arts and 3 hours from Humanities:²

Check for completion	Course I. D.:	Course Name:
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Social Sciences: 9 hours

Choose 9 hours Social Science Core:²

Check for completion	Course I. D.:	Course Name:
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Animal Science Core: 33 hours

- ☐ ANSC 10303 Introductory Animal Sciences

- ☐ ANSC 17801 Career Preparation and Development

- ☐ ANSC 21133 Intro to Animal Evaluation and Handling **AND**

- ☐ ANSC 21131 Intro to Animal Evaluation and Handling Lab

- ☐ ANSC 26102 Intro to Animal Products

- ☐ ANSC 31203 Principles of Genetics **OR**

ANSC 31303 Animal Breeding and Genetics **OR**

BIOL 23373 General Genetics

- ☐ ANSC 31433 Principles of Animal Nutrition **AND**

- ☐ ANSC 31431 Animal Nutrition Lab

- ☐ ANSC 32103 Behavior of Domestic Animals **OR**

ANSC 44103 Animal Welfare **OR**

ANSC 37703 Equine Behavior

- ☐ ANSC 30303 Animal Physiology

- ☐ ANSC 34303 Fundamentals of Reproductive Physiology

- ☐ ANSC 49903 Animal Capstone

Select a minimum of 4 hours from the following (4 hours):⁴

- ☐ ANSC 42502 Cow-Calf Management

- ☐ ANSC 42602 Swine Production

- ☐ ANSC 42702 Sheep Production

- ☐ ANSC 42802 Horse Production

- ☐ ANSC 44502 Milk Production

- ☐ ANSC 44802 Companion Animal Management

- ☐ ANSC 46502 Stocker-Feedlot Cattle Management

- ☐ ANSC 46603 Comparative Studies in Panamanian and

US Agricultural Practices³

- ☐ ANSC 4100V Special Topics in Animal Sciences³

- ☐ POSC 23403 Poultry Production

Equine Systems Concentration: 21 hours⁴

- ☐ ANSC 20003 Introduction to Equine Industry

- ☐ ANSC 37203 Horse and Livestock Merchandising

- ☐ ANSC 42802 Horse Production

Choose 3 hours from the following:

- ☐ ANSC 23303 Introduction to Animal Health

- ☐ ANSC 30003 Applied Animal Parasitology

- ☐ ANSC 30103 Parasitisms of Domesticated Non-Herbivores

- ☐ ANSC 36103 Meat Science

- ☐ ANSC 43003 Comparative Veterinary Anatomy

- ☐ ANSC 43303 Diseases of Livestock

- ☐ ANSC 46103 Muscle Growth and Development

Choose **10 hours** from the following:

- ☐ ANSC 23003 Introduction to Horsemanship
- ☐ ANSC 30702 Equine Selection and Evaluation
- ☐ ANSC 37503 Equine Assisted Activities and Therapies
- ☐ ANSC 37601 Ranch Horse Riding⁶
- ☐ ANSC 37703 Equine Behavior
- ☐ ANSC 41203 Legal Issues in Animal Agriculture **OR**
AGEC 35003 Agricultural Law I
- ☐ ANSC 41603 Companion Animal Nutrition
- ☐ ANSC 41703 Thoroughbred Horse Industry
- ☐ ANSC 43003 Comparative Veterinary Anatomy
- ☐ ANSC 45503 Forage-Ruminant Relations
- ☐ *Upper Level ANSC Course:*²

Check for completion	Course I. D.:	Course Name:
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General Electives: 16 hours⁵

Check for completion	Course I. D.:	Course Name:
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OTHER REQUIREMENTS FOR A B.S.A. DEGREE

120 Total Hours of which:
 40 hours must be 30000/40000 level courses
 9 hours must be in Bumpers College but outside of departmental major
 Minimum GPA of 2.0

¹ UNIV 10051 is required for new freshmen or transfer with less than 24 hours
² See student degree audit for approved list of courses.
³ Study Abroad with ANSC faculty-led program (Only 1 program allowed for production requirement⁴ Courses cannot be duplicated to meet degree requirements.
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⁵ Depending on number of Upper Division courses completed, some general electives may need to be 30000 or 40000 level.
⁶ Maximum of 4 credits allowed