ANIMAL SCIENCES
SCIENCE AND TECHNOLOGY
This concentration is designed to prepare students for graduate or professional schools including veterinary medicine. Graduates of this concentration have the science background to pursue research in a variety of areas including animal nutrition, genetics, and reproductive physiology. Students interested in a four-year traditional route to vet school may study in this concentration or choose another concentration within the major.

Career Possibilities: Livestock production, animal scientist, research (genetics, animal breeding, animal behavior, animal product and process management), 4-H youth development, feed and pharmaceutical sales, meat and dairy product inspection, poultry scientist, graduate or professional school, veterinarian (with additional education).

SEMESTER 1
CRITICAL: “C” or better in ENGL 1001; MATH 1021.
ANSC 1011 Introduction to Animal Science (3)
BIOL 1201 Biology for Science Majors I (3)
BIOL 1208 Biology Lab for Science Majors I (1)
ENGL 1001 English Composition (3)
MATH 1021 College Algebra (3)
General Education course - Arts (3)
Total Semester Hours: 16

SEMESTER 2
CRITICAL: ANSC 1011; MATH 1022/ MATH 1550.
ANSC 2050 Animal Management Practices (2)
BIOL 1202 Biology for Science Majors II (3)
BIOL 1209 Biology Lab for Science Majors II (1)
CHEM 1201 General Chemistry I (3)
MATH 1022 Plane Trigonometry (3) or
MATH 1550 Analytic Geometry and Calculus I (5)
Elective (2-4)
Total Semester Hours: 16

SEMESTER 3
CRITICAL: BIOL 1201; CHEM 1201.
CHEM 1202 General Chemistry (3)
CHEM 1212 General Chemistry Lab (2)
EXST 2201 Introduction to Statistical Analysis (4)
ANSC 2040 Judging/Evaluation of Dairy Cattle (2) or
ANSC 2042 Judging/Evaluating Poultry/Poultry Products (2) or
ANSC 2033 Live Animal and Carcass Evaluation (2)
ANSC 2051 Large Farm Animal Lab (1) or
ANSC 2052 Small Farm Animal Lab (1) or
General Education Course – Humanities (3)
Total Semester Hours: 15

SEMESTER 4
CRITICAL: CHEM 1202.
AGEC 2003 Introduction to Agricultural Economics (3) or
ECON 2030 Economic Principles (3)
ANSC 2053 Foods of Animal Origin (3)
CHEM 2060 Survey of Organic Chemistry (3) or
CHEM 2261 Organic Chemistry (3)
ANSC 2072 Introductory Agricultural Genetics (3) or
BIOL 2153 Principles of Genetics (3)
ENGL 2000 English Composition (3)
Total Semester Hours: 15-16

SEMESTER 5
Critical: BIOL 1202
BIOL 2051 General Microbiology (4)
ANSC 2060 Companion Animal Management (3)
General Education Course – Social Sciences (3)
Science Elective (3) or
Elective (3)
Total Semester Hours: 16

SEMESTER 6
BIOL 2083 Elements of Biochemistry (3)
CMST 1061 Fundamentals of Communication (3) or
CMST 2060 Public Speaking (3)
Science Elective (3) or
ANSC 3133 Growth and Development of Livestock (3)
ANSC 3010 Applied Animal Feed Formulation (3)
Total Semester Hours: 15

SEMESTER 7
ANSC 4009 Animal Nutrition (3)
ANSC 4045 Reproductive Physiology of Farm Animals (3)
ANSC 4043 Domestic Animal Endocrinology (3)
General Education Course – Humanities (3)
Elective (1-2)
Total Semester Hours: 13-14

SEMESTER 8
ANSC 4092 Animal Science Proseminar (1)
ANSC Production Courses (6) or
Science Elective (3) or
Elective (3)
Total Semester Hours: 13

120 TOTAL SEMESTER HOURS

1 – ANSC 2051 is offered in Fall semesters only. ANSC 2052 is offered in Spring semesters only.
2 – Select from ANSC 4031 4052, 4054, 4081, 4084, 4086, 4088.
3 – Select from BIOL 2XXX, CHEM 2XXX, PHYS 2XXX, or ANSC 3060, 3070, 4001, 4005, 4018, 4050.