

ADVS Major, Animal and Dairy Science Emphasis Plan

Courses required and recommended for meeting Bachelor of Science degree graduation requirements in the Animal and Dairy Science Emphasis within the Animal, Dairy and Veterinary Sciences major are shown below.

Successful completion of a bachelor's degree program in the ADVS Department requires that a very close student-academic advisor relationship be established and continued through each student's bachelor's degree program. Each student must take the responsibility of establishing this close working relationship with his or her advisor. Doing this soon after a student's acceptance into the department can keep academic problems to a minimum.

Freshman Year

Fall Semester

ADVS 1110 Introduction to Animal Science.....	4
ADVS 1920 New Student Orientation	1
BIOL 1610 Biology I	4
MATH 1050 (QL) College Algebra.....	4
University Studies Breadth Course.....	3

Spring Semester

ADVS 2080 ¹ Beef and Dairy Herd Health and Production Practices (3 cr) or	
ADVS 2090 ¹ Sheep Production Practices (2 cr).....	2 or 3
BIOL 1620 (BLS) Biology II.....	4
ENGL 1010 (CL1) Introduction to Writing: Academic Prose	3
STAT 1040 (QL) Introduction to Statistics (3 cr) or	
STAT 2000 (QI) Statistical Methods (3 cr).....	3
University Studies Breadth Course.....	3

Sophomore Year

Fall Semester

ADVS 2120 ¹ Swine Production Practices (2 cr) or	
ADVS 2190 ¹ Horse Production Practices (2 cr)	2
CHEM 1210 Principles of Chemistry I	4
CHEM 1215 Chemical Principles Laboratory I	1
Two University Studies Breadth Courses	6
Directed Elective Course	3

Spring Semester

ADVS 2200 Anatomy and Physiology of Animals.....	4
CHEM 1220 (BPS) Principles of Chemistry II	4
CHEM 1225 Chemical Principles Laboratory II	1
ENGL 2010 (CL2) Intermediate Writing: Research Writing in a Persuasive Mode.....	3

Junior Year

Fall Semester

ADVS 3500 Animal Nutrition	4
ADVS 4560 (QI) Principles of Animal Genetics and Breeding	3
Two Directed Elective Courses.....	6

Spring Semester

ADVS 3000 Animal Health and Hygiene	3
Two Directed Elective Courses.....	6
University Studies Depth Course.....	3

Senior Year

Fall Semester

ADVS 4920 (CI) Undergraduate Seminar	2
ADVS 5120 ² Swine Management.....	3
ADVS 4250 Internship in Animal Industry (3 cr) or	
ADVS 4800 Undergraduate Research or Creative Opportunity (3 cr)	3
Directed Elective Course	3
University Studies Depth Course.....	3

Spring Semester

ADVS 4200 (CI) Physiology of Reproduction and Lactation	4
ADVS 5080 ² Beef Management (3 cr) or	
ADVS 5090 ² Sheep Management and Wool Technology (4 cr) or	
ADVS 5130 ² Dairy Cattle Management (3 cr) or	
ADVS 5190 ² Horse Management (3 cr)	3-4
Two Directed Elective Courses.....	6

Directed Electives

Students must choose eight courses from the following:

ACCT 2010 ³ Financial Accounting Principles (F,Sp,Su)	3
ADVS 3650 Live Animal and Carcass Evaluation (F).....	3
ADVS 5030 Sustainable Agricultural Production Systems with Animals (F).....	3
ADVS 5520 Grazing Livestock Nutrition and Management (Sp even).....	3
ADVS 5530 Nutritional Management of Farm Animals (Sp odd).....	3
ADVS 5860 Poisonous Range Plants Affecting Livestock (Sp even)....	3
One additional management course (ADVS 5080, 5090, 5120, 5130, or 5190)	3-4
APEC/ECN 2010 (BSS) ³ Introduction to Microeconomics (F,Sp,Su)	3
APEC 3010 (DSS) ³ Introduction to Agricultural Economics and Agribusiness (Sp)	3
APEC 3020 (DSS) ³ Firm Finance and Records Analysis (Sp)	3
APEC 5010 (QI) Firm Marketing and Price Analysis (F)	3
BIOL 3060 (QI) Principles of Genetics (F,Sp,Su)	4
BIOL 3300 General Microbiology (F,Sp)	4
BUS 3400 (QI) Finance Fundamentals	3
BUS 3500 Marketing Principles.....	3
BUS 3700 Operations Management Fundamentals.....	3
CHEM 2310 ⁴ Organic Chemistry I (F)	4
CHEM 2315 ⁴ Organic Chemistry Laboratory I (F)	1
CHEM 2320 ⁴ Organic Chemistry II (Sp)	4
CHEM 3700 ⁴ Introductory Biochemistry (Sp)	3
ECN 3010 (DSS) Managerial Economics (F,Sp)	3
MATH 1100 (QL) Calculus Techniques (F,Sp,Su) (3 cr) or	
MATH 1210 (QL) Calculus I (F,Sp,Su) (4 cr)	3-4
MGT 2050 Legal and Ethical Environment of Business (F,Sp,Su)	3
MGT 3110 (DSS) Managing Organizations and People (F,Sp,Su).....	3
NFS 5020 Meat Technology and Processing (F).....	4
NFS 5030 Dairy Technology and Processing (F)	4
PSC 2010 (BPS) Soils, Waters, and the Environment (Sp) (3 cr) or	
PSC 3000 Fundamentals of Soil Science (F) (4 cr)	3-4
PSC 4320 Forage Production and Pasture Ecology (F even).....	3
WILD 2200 (BLS) Ecology of our Changing World (F,Sp)	3
WILD 3600 Wildland Plant Ecology and Identification (F).....	3
WILD 4000 Principles of Rangeland Management (Sp).....	3
WILD 4850 Vegetation and Habitat Management (F)	3

¹Students must take two courses selected from: ADVS 2080, 2090, 2120, and 2190.

²Students must take one course selected from: ADVS 5080, 5090, 5120, 5130, and 5190.

³Students may obtain an Agribusiness Management Minor by taking APEC/ECN 2010; APEC 3010, 3020; ECN 1500 (BAI); and ACCT 2010.

⁴Students may obtain a Chemistry Minor by taking CHEM 2310, 2315, 2320, and 3700.