

# 2011/2012 Animal Sciences – Science and Pre-Professional Option

## Pre-Major Courses

<u>Course Prefix</u>	<u>Course Title</u>	<u>Units</u>	<u>Semester</u>	<u>Prerequisites</u>
AREC 315	Agribusiness Econ & Mgmt.	3	F	ECON 200 or ECON 201A
PL S 312	Animal & Plant Genetics	3	S	CHEM 151
MCB 184 or 181R/L	Introductory Biology	4	F / S	MATH 109C or 112 or math placement
Statistics/Econometrics:	Select one course: AREC 339, AREC 350, COMM 200, ISTA 116, MATH 263, PSYC 230 (require math placement)			
Communications:	Select one course: A ED 301, AGTM 422, AN S396A & AN S496B (counts as 1 course), COMM 312, ENGL 307, ENGL 308, FSHD/FSHV 428			

## Major Requirements

AN S 102R	Intro. To Animal Science – Lecture	3	F	
AN S 102L	Intro. To Animal Science – Lab	1	F	
AN S 315R	Physiology of Reproduction	3	F	AN S 215 or ECOL 182, CHEM 152
AN S 334	Principles of Nutrition (may sub w/AN S 408)	3	F	CHEM 152
AN S 395A	Prof Dev in Animal Ag	1	S	
AN S 446	Human Resource Management	3	S	Jr. or Sr. Standing
PHYS 102	Introductory Physics I	3	F / S	Math 109C or 112 or math placement
PHYS 103	Introductory Physics II	3	F / S	PHYS 102
PHYS 181	Introductory Lab I	1	F / S	concurrent PHYS 102
PHYS 182	Introductory Lab II	1	F / S	concurrent PHYS 103
ECOL 182R	Introductory Biology II	3	F / S	Math 109C or 112 or math placement
ECOL 182L	Introductory Biology II Lab	1	F / S	
MIC 205A	General Microbiology	3	F / SS	MCB 184 or 181R & CHEM 151 (check about lab)
CHEM 241A	Organic Chemistry I	3	F / S / SS	CHEM 152
CHEM 241B	Organic Chemistry I	3	F / S / SS	
CHEM 243A	Organic Chemistry II Lab	1	F / S / SS	concurrent registration in CHEM 241A
CHEM 243B	Organic Chemistry II Lab	1	F / S / SS	concurrent registration in CHEM 241B
BIOC 385	Metabolic Biochemistry	3	F / S / SS	MCB 184 or 181R/L, CHEM 241A
MCB 410	Cell Biology	3	F / S	MCB 184 or 181R/L, ECOL 182R/L, see catalog
Select one course from:				
V SC 400A	Animal Anatomy and Physiology	3	F	MCB 184 or 181R/L, ECOL 182, CHEM 241A
V SC 400B	Animal Anatomy and Physiology	3	S	MCB 184 or 181R/L, ECOL 182, CHEM 241A
Select one course from:				
V SC 403R	Biology of Animal Parasites	3	F	12 units of Biology
V SC 405	Principles of Livestock Health Management	3	S	AN S 215
V SC 406	Diseases of Companion Animals	3	S	MIC 205A, V SC 400A or ANS 215
V SC 449	Diseases of Wildlife	3	F	

All students must complete 12 additional units that are required to complete the General Path OR Equine Path

## General Path

AN S 210	Intro Live Animal and Carcass Evaluation	3	S	AN S 102R/L
AN S 420	Meat Animal Composition	3	S	AN S 102R/L, AN S 210
Select 6 credits from: AN S 3**, 4** V SC 3**, 4**, PHIL 305, 321, 323, MCB 404, AREC 350, BIOC 195C, MCB 497B or PL S 329				
Course Number	Course Title			Units
_____	_____			_____
_____	_____			_____

## Equine Path

AN S 270	Introductory Horse Science	3	F	
AN S 316	Equine Repro Physiology and Management	3	S	AN S 315R
AN S 431	Equine Nutrition & Management	3	F	AN S 334
AN S 475	Equine Enterprises	3	S	ANS 270, ANS 316 or concurrent, ANS 431

Equine path students are encouraged to complete as many of the equine hands-on courses (AN S 271A, 272, 273, 370, and 371) as their schedule permits.

**THE UNIVERSITY OF ARIZONA**<sup>®</sup>  
**Department of Animal Sciences**  
**Bachelor of Science Degree Program**  
**2011/2012**

**Student Name** \_\_\_\_\_ **#** \_\_\_\_\_ **Date** \_\_\_\_\_

**GENERAL EDUCATION REQUIREMENTS**

1. Foundations – all transfer courses to satisfy foundation requirements must be approved by the respective departments

- \_\_\_\_\_ ENGL 101 – First Year Composition
- \_\_\_\_\_ ENGL 102 – First Year Composition
- \_\_\_\_\_ Mid-Career Writing Assessment: B or better in ENGL 102 or completion of ENGL 307
- \_\_\_\_\_ MATH 109C / MATH 112 – College Algebra
- \_\_\_\_\_ Second semester foreign language proficiency or completion of a second semester of a foreign language course

2. Tier 1

Traditions and Cultures – complete 2 courses from the following. Many departments offer these courses, so the prefix may be different for example NES 160A, HIST 160A, etc. They **key** is the number and letter. An additional number after the letter further identifies the course within the offering department for example NES 160A1 and NES 160A2. You may **not** complete 2 sections with the same number and ending letter to satisfy degree requirements.

- \_\_\_\_\_ 160A (TRAD 101) – Non-Western Cultures and Civilizations
- \_\_\_\_\_ 160B (TRAD 102) – Western Cultures and Civilizations: Classical to Renaissance
- \_\_\_\_\_ 160C (TRAD 103) – Western Cultures and Civilizations: Renaissance to Present
- \_\_\_\_\_ 160D (TRAD 104) – Topics in Culture and Civilization

Individuals and Societies – complete 2 courses from the following. Many departments offer these courses, so the prefix may be different for example NES 160A, HIST 160A, etc. They **key** is the number and letter. An additional number after the letter further identifies the course within the offering department for example NES 160A1 and NES 160A2. You may **not** complete 2 sections with the same number and ending letter to satisfy degree requirements.

- \_\_\_\_\_ 150A (INDV 101) – Mind, Self and Language
- \_\_\_\_\_ 150B (INDV 102) – Social Interactions and Relationships
- \_\_\_\_\_ 150C (INDV 102) – Societal and Institutional Relationships

Natural Sciences – This requirement must be satisfied with the following Chemistry courses

- \_\_\_\_\_ CHEM 151 General Chemistry – 4 units (Pre-requirement: completion of MATH 109C or 112 or math placement)
- \_\_\_\_\_ CHEM 152 General Chemistry – 4 units (Pre-requirement: CHEM 151)

3. Tier 2

- \_\_\_\_\_ Arts                    3 units    (see university course list)
- \_\_\_\_\_ Humanities        1 course   (see university course list)
- \_\_\_\_\_ ECON 200 or 201A    (Individuals and Societies)
- \_\_\_\_\_ Natural Science    (This requirement will be satisfied by completion of departmental requirements)

4. Diversity

- \_\_\_\_\_ Non-Western Cultures, Race, Gender, Class or Ethnicity course  
All 160A courses satisfy this requirement as do various other Tier One and Tier Two courses.

**UNDERGRADUATE DEGREE PROGRAM REQUIREMENTS**

\_\_\_\_\_ You must complete 120 credit hours, of which at least 42 must be upper-division. Hours remaining after satisfying all required coursework may be completed through elective course credits.

\_\_\_\_\_ You must request and submit a completed Application for Degree Certification (“degree check”) after enrolling for your last semester of coursework.