

Animal Sciences

Advising Sheet -- Fall 2009

Student Name _____

Option: _____

ID# _____

Advisor: _____

E-Mail _____

GENERAL EDUCATION REQUIREMENTS

(minimum 40 credits, with correct distribution across knowledge domains and tiers)

	<u>Credits</u>	<u>Term</u>	<u>Grade</u>	<u>Offered</u>
World Civilization [A]				
GEN ED 110	3	_____	_____	S,F,Su
GEN ED 111	3	_____	_____	S,F,Su
Communication Proficiency [W,C]				
ENGL 101 [W]	3	_____	_____	S,F,Su
HD 205 or COMST 102 [C]	3	_____	_____	S,F,Su
Intercultural [I,G,K]	3	_____	_____	S,F,Su
Arts & Humanities [H, G]	3	_____	_____	S, F,Su
Arts & Humanities or Social Sciences [H, G, S, K]	3	_____	_____	S, F,Su
Social Sciences [S, K]				
ECONS 101 (Section 11 recommended)	3	_____	_____	S,F,Su
Mathematics Proficiency – 3 credits [N]				
*STAT 212	4	_____	_____	S,F,Su
Sciences- 10 credits [Q, B, P]				
Chem 101 or *105	4	_____	_____	F,Su
Chem 102 or *106	4	_____	_____	S,Su
*Biol 106	4	_____	_____	S,F
Tier III Course [T] _____	3	_____	_____	S,F,Su
American Diversity [D] _____				S,F,Su

NOTES:

*These courses are also veterinary medicine prerequisites.

NOTE: General Education Requirements (GER) relative to catalog for year student begins college

CHECKLIST

COMPLETE

GER (40 credits)	<input type="checkbox"/>
AS Core (16 credits)	<input type="checkbox"/>
Pre-Vet /Science Option <input type="checkbox"/> OR Animal Mgmt. Option	<input type="checkbox"/>
At least 40 of the 120 credits upper division	<input type="checkbox"/>
At least 24 Credits are AS Course Credits	<input type="checkbox"/>
Writing in the major [M]	<input type="checkbox"/> <input type="checkbox"/>
(2 courses from AS 408, 440, 464, 473, 474, 488)	
TOTAL (at least 120 credits)	<input type="checkbox"/>
Writing Portfolio/Writing Exam	<input type="checkbox"/>

***To certify in Animal Sciences, you must have at least 24 credit hours and a minimum 2.0 cumulative GPA.

GENERAL COURSE REQUIREMENTS (2 Courses)

	<u>Credits</u>	<u>Term</u>	<u>Grade</u>	<u>Offered</u>
*Math 107	4	_____	_____	S,F,Su
*Biol 107	4	_____	_____	S,F

AS CORE REQUIREMENTS (7 Courses)

	<u>Credits</u>	<u>Term</u>	<u>Grade</u>	<u>Offered</u>
AS 101-INTRO ANIMAL SCIENCE	3	_____	_____	F
AS 180-ANIMAL SCI ORIENTATION	1	_____	_____	F
AS 313-FEEDS & FEEDING	4	_____	_____	S,F
AS 330-ANIMAL GENETICS	3	_____	_____	F
AS 350-PHYSIOLOGY REPRODUCTION	3	_____	_____	S,F
AS 351-PHYSIOLOGY REPRO LAB	1	_____	_____	S,F
AS 380-CAREERS IN ANIMAL SCIENCE	1	_____	_____	S,F

Students in Animal Sciences take a wide variety of agricultural and non-agricultural courses. Prior to their junior year, students select an option to coincide with their interests. These options have required courses and electives that allow program specialization and specialization for graduate school.

The **Animal Management Option** emphasizes the business, economics and practical management aspects of animal production and care of animals. Employment opportunities are found in beef and dairy cattle, feedlot, swine, aquaculture and allied industries, animal shelters, vivaria, zoos, and in the financial industry related to agriculture.

The **Preveterinary Medicine/Science Option** places emphasis on basic science courses. This option is recommended for students planning to attend graduate school, work in an area of science or biotechnology, or apply to the professional program leading to the Doctor of Veterinary Medicine.

OPTION I: Animal Management

	Credits	Term	Grade
Animal Management Lab (AS 172, 174, or 178)	1	_____	_____
Animal Sciences Experiential Learning (e.g., AS 378, 398, 399, 499, FSHN 406, 407)	1-6	_____	_____
Animal-Related 200- & 300- Level Electives (e.g., AS 205, 260, 274, 285, 314, 345, 346, 360, Biol 321, 324, 350, 353, NATRS 280, Psych 372, 390, V An 308, VMS 361, 367)	6-8	_____	_____
Business & Economics (e.g., EconS 335, 350, 351, 352, 450, 451, 452 Acctg 230, BLaw 210, Mktg 360)	6	_____	_____
Agricultural Sciences (e.g., AFS 101, AgTM 453, CropS 302, 360, Ent 340, Soils 201, 445, NATRS 455)	2-3	_____	_____
Animal Products & Food Safety (AS 360, or FSHN 220, 303, or 429)	3-4	_____	_____
Animal Production (AS 466, 468, 472, 474, or 476)	3	_____	_____
Animal-Related 400-Level Electives (e.g., AS 408, 440, 451, 452, 454, 464, 466, 468, 472, 473, 474, 476, 488, Biol 412, 418, 423, 428, 432, 438, 447, NATRS 421, 431, Neuro 409)	8-11	_____	_____
Additional Electives (e.g., Eng 301 or 402, Spanish, Ethics, Math 140, to give a total of ≥ 120 credits, of which ≥ 24 credits are AS course credits and ≥ 40 credits are upper division)	≥ 7	_____	_____

MINOR IN ANIMAL SCIENCES: A minor in Animal Sciences requires a minimum of 16 credits in Animal Sciences, at least 11 of which must be upper-division. Courses needed to satisfy the minor must include at least seven credits selected from the following: AS 313, AS 330, AS 350 and AS 351. Up to four credits of AS 399 or 499 may be included. Students must maintain a minimum 2.0 GPA to remain certified as an Animal Sciences minor. Students may apply for a minor in Animal Sciences once they have completed 60 semester credit hours. However, they may take minor coursework at any time as long as they meet the prerequisites. Minor certification forms are available in the Animal Sciences Office, Clark 116.

OPTION II: Pre-Vet/Science

	Credits	Term	Grade
Animal Management Lab (AS 172, 174, or 178)	1	_____	_____
Animal Sciences Experiential Learning (e.g., AS 378, 398, 399, 499, FSHN 406, FSHN 407)	1-4	_____	_____
Calculus (Math 140)	4	_____	_____
*Physics (Phys 101)	4	_____	_____
*Organic Chemistry (Chem 345)	4	_____	_____
*Genetics (MBioS/Biol 301)	4	_____	_____
*Biochemistry (MBioS 303)	4	_____	_____
Nutrition, Physiology & Microbiology (3 of the following: AS 314, AS 440, AS 451, MBioS 305)	3 3 3	_____	_____
Animal Anatomy (V An 308 or Biol 324)	4	_____	_____
Animal Welfare, Growth or Meats (AS 285, 345, 346, or 360)	3	_____	_____
Animal Production (AS 466, 468, 472, 474, or 476)	3	_____	_____
Animal Sciences 400-Level Elective (AS 408, 451, 452, 454, 464, 466, 468, 472, 473, 474, 476, or 488)	2-3	_____	_____
Additional Electives (e.g., Acctg 230, Eng 402, MBioS 306, MBioS 440, Spanish, to give a total of ≥ 120 credits, of which ≥ 40 credits are upper division)	≥ 7	_____	_____

***VETERINARY MEDICINE PREREQUISITES:** Math 107, Chem 105 & 106, Chem 345, Biol 106 & 107, MBioS 301 & 303, Phys 101, and Stat 212, 412 or Psych 311 are required prerequisites for entry into WSU Veterinary Medicine program in addition to GER classes. Microbiology, immunology, & undergraduate research experience (AS 499) are recommended. Chem 346 should be taken for graduate & professional programs requiring 2 semesters of organic chemistry.

MINORS IN OTHER DEPARTMENTS: For minor in Agricultural Economics and Management, contact School of Economic Sciences. For minor in Zoology, contact School of Biological Sciences.

Animal Science Courses**Other Courses Listed in Options**

	<u>TERM</u>	<u>CREDITS</u>
AS 101-INTRO ANIMAL SCIENCE	F	3 CR
AS 172-DAIRY CATTLE MGMT LAB	F	1 CR
AS 174-BEEF COW CALF MGMT LAB	F	1 CR
AS 178-SWINE MGMT LAB	S	1 CR
AS 180-ANIMAL SCI ORIENTATION	F	3 CR
AS 205-COMPANION ANIM NUTRITION	F, S	3 CR
AS 260-LIVE ANIMAL CARCASS EVAL	F	3 CR
AS 274-FEEDLOT MANAGEMENT	F (UI)	2 CR
AS 285-RIGHTS & WELFARE OF ANIMALS	F	3 CR
AS 313-FEEDS & FEEDING	F, S (UI)	4 CR
AS 314-PRINCIPLES OF NUTRITION	S	3 CR
AS 330-ANIMAL GENETICS	F	3 CR
AS 345-INTRO ANIM GROWTH DEVEL	S	3 CR
AS 346-INTRO SKEL MUSCLE PHYSIOL	F	3 CR
AS 350-PHYSIOLOGY REPRODUCTION	F (UI), S	3 CR
AS 351-PHYIOLOGY REPRO LAB	F (UI), S	1 CR
AS 360-MEAT SCIENCE	S	3 CR
AS 378-ADV LIVESTOCK SELECTION	LIVESTOCK JUDGING	2 CR
AS 380-CAREERS IN ANIMAL SCIENCE	S	1 CR
AS 398-COOP EDUC EXTERNSHIP	F, S	2-8 CR
AS 399-PRACTICUM	F, S, SU	1-8 CR
AS 408-RUMINANT NUTRITION	S	3 CR
AS 440-PHYSIOLOGY DOMESTIC ANIM	F	3 CR
AS 451-ENDOCRINE PHYSIOLOGY	S	3 CR
AS 452-PHYSIOLOGY OF LACTATION	S (U I)	3 CR
AS 454-AI & PREGNANCY DETECTION	F, S (UI)	2 CR
AS 464-COMPANION ANIMAL MGMT	F (NOT TAUGHT IN 2009)	3 CR
AS 466-HORSE PRODUCTION	S (UI)	3 CR
AS 468-CONCEPTS IN AQUACULTURE	S (UI)	3 CR
AS 472-DAIRY CATTLE PRODUCTION	F	3 CR
AS 473-ADVANCED DAIRY MGMT	S	3 CR
AS 474-BEEF CATTLE PRODUCTION	S	3 CR
AS 476-SHEEP SCIENCE	S (UI)	3 CR
AS 480-STUDY ABROAD	SPECIAL COURSE	1-15 CR
AS 488-BIOTECHNOLOGY	F	3 CR
AS 499-SPECIAL PROBLEMS	F, S, SU	1-4 CR

	<u>TERM</u>	<u>CREDITS</u>
ACCTG 230-INTRO FINANCIAL ACCTG	F, S	3 CR
AFS 101-INTRO AGRI FOOD SYSTEMS	F	2 CR
BIOL 321-ANIMAL DEVELOPMENT	F	4 CR
BIOL 324-COMP VERT ANATOMY	S	4 CR
BIOL 350-COMPARATIVE PHYSIOL	F	4 CR
BIOL 353-MAMMALIAN PHYSIOL	S	4 CR
BIOL 412-BIOL MGMT FISH	F	3 CR
BIOL 418-PARASITOLOGY	F	4 CR
BIOL 423-ORNITHOLOGY	S?	4 CR
BIOL 428-MAMMALOLOGY	S	4 CR
BIOL 432-BIOL AMPHIBIANS REPTILES	F	4 CR
BIOL 438-ANIMAL BEHAVIOR	S	3 CR
BIOL 447-BEHAVIORAL ECOLOGY	S?	3 CR
BLAW 210-LAW LEGAL ENV BUSINESS	F, S, SU	3 CR
CHEM 346-ORGANIC CHEM II	F, S	3 CR
CROPS 302-FORAGE CROPS	S	3 CR
CROPS 360-WORLD AGRI SYSTEMS	F	3 CR
ECONS 335-AGRIBUSINESS FINANCE	S	3 CR
ECONS 350-FARM RANCH MGMT	F	3 CR
ECONS 351-AGRI MARKETING	F	3 CR
ECONS 352-BUSINESS MGMT ECON	S	3 CR
ECONS 450- ADV FARM RANCH MGMT	S	3 CR
ECONS 451- ADV AGRI MARKETING	S	3 CR
ECONS 452- ADV AGRIBUS MGMT	F	3 CR
ENG 301-WRITING RHETORIC CONV	F, S, SU	3 CR
ENG 402-TECH PROF WRITING	F, S, SU	3 CR
ENT 340-AGRIC ENTOMOLOGY	S	3 CR
FSHN 220-FOOD SAFETY QUALITY	F, S	3 CR
FSHN 303-FOOD PROCESSING	F	3 CR
FSHN 406-EVAL DAIRY PRODUCTS I	S	1 CR
FSHN 407-EVAL DAIRY PRODUCTS II	F	1 CR
FSHN 429-DAIRY PRODUCTS	S	4 CR
MBioS 305-GENERAL MICROBIOLOGY	F, S, SU	3 CR
MBioS 306-MICROBIOLOGY LAB	F, S, SU	2 CR
MBioS 440-IMMUNOLOGY	F	3 CR
MKTG 360-MARKETING	F, S, SU	3 CR
NATRS 280-INTRO WILDLIFE MGMT	F	4 CR
NATRS 421-FISH HEALTH MGMT	S	4 CR
NATRS 431-WILDLIFE NUTRITION	S	3 CR
NATRS 455-ELEM RANGE MGMT SCI	S	3 CR
NEURO 409-AFFECTIVE NEUROSCIENCE	S	3 CR
PHIL 365-BIOMEDICAL ETHICS	F, S, SU	3 CR
PSYCH 311-ELEM STATS IN PSYCHOL	F, S, SU	4 CR
PSYCH 372-INTRO PHYSIOL PSYCHOL	F	3 CR
PSYCH 390-OPERANT BEHAVIOR	F, SU	3 CR
SOILS 201-SOIL LIVING SYSTEM	F, S	3 CR
SOILS 445-SUSTAIN FOOD SYSTEMS	S (BREAK)	3 CR
SPAN 105-SPANISH CONVERSATION	F, S, SU	1 CR
STAT 412-BIOMETRY	F, S	3 CR
VAN 308-ANATOMY DOMESTIC ANIM	S	4 CR
VMS 361-AGRIC ANIMAL HEALTH	S	3 CR
VMS-MEDICAL SURG PROB HORSE	F	3 CR