

EL_ANSC_BS 120 Earned credits Total

Student/ID: _____

Advisor: _____

I. GENERAL EDUCATION (total 40 hr GenEd*)

Course No. Grade Cr.

Knowledge

- A1. STEM
A2. Social and Behavioral Sciences
A3. Humanities
A4. Arts and Design

Competencies

- B1. Write effectively
B2. Communicate effectively
B3. Mathematical, statistical, computation
B4. Information literacy

Responsibilities

- C1. Civic knowledge & responsibility
C2. Global responsibilities
C3. Diversity and inclusion

Integrate & Apply

- D1. Ability to Synthesize

Grand Challenge

- G. Grand Challenge Course
Additional General Education
Additional General Education
Additional General Education
Additional General Education

There are courses in other sections that also fulfill GenEd requirement

II. BASIC NON-SCIENCE REQUIREMENTS (9 cr)

Course Description: Course No. Grade Cr.

- Communication Fundamentals (B2)* COM 100* 3
WRT to Inform & Explain (WRT 104; B1, B4)
or Intro to Research WRT (WRT 106; B1, B4)* 3
WRT 300 level or higher 3

III. BASIC SCIENCE REQUIREMENTS (18-19 cr)

Course Description: Course No. Grade Cr.

- Principles of Biology I (A1)* BIO 101* 3
Principles of Biology I Lab (A1)* BIO 103* 1
Principles of Biology II (A1)* BIO 102* 3
Principles of Biology II Lab (A1)* BIO 104* 1
General Chemistry Lecture I (CHM 101) or Introductory Chemistry (CHM 103) (A1)* 3
Laboratory for Chemistry 101 (CHM 102) or Introductory Chemistry lab (CHM 105) (A1)* 1
MTH (fulfills GenEd Outcomes A1,B3)* 3
STA (220, 308 or 409) 3-4

VI. FREE ELECTIVES (~7 credits. Need 120 credits to graduate)

Course Description: Course No. Grade Cr.

- Planning for Academic Success URI 101 1
Additional free elective course
Additional free elective course

IV. PROFESSIONAL CONCENTRATION (33 cr). Min. GPA 2.0 req.

Course Description: Course No. Grade Cr.

Foundation Course Requirements (5 cr):

- Introduction to Animal Science (A1)* AVS 101* 3
Intro. Animal Science Laboratory AVS 102 1
Freshman Seminar AVS AVS 110 1

Concentration Course Requirements (25 cr):

- Advanced Animal Management Techniques AVS 304 3
Anatomy & Physiology AVS 331 3
Anatomy & Physiology Lab AVS 333 1
Animal Diseases AVS 332 3
Behavior of Domestic Animals AVS 343 3
Animal Management Course (300+)^
Nutrition (AVS 212 or AVS 412)
Physiology of Animal Reproduction* (D1) AVS 472 3
Animal Science Elective (400+) 3

Additional concentration credits (3 cr):

- Additional concentration course (300+) 3

V. ANIMAL SCIENCE ELECTIVES & INTERNSHIP (12 cr):

Course Description: Course No. Grade Cr.

- AVS Management Course^
Animal Science Elective
Animal Science Elective
AVS 399/491/492 (min 3 credits, max 9)
- Animal science electives include any AVS course

VI. SUPPORTING ELECTIVES^^ (24 cr):

- Additional supporting elective course
Additional supporting elective course
Additional supporting elective course
Additional supporting elective course
Additional supporting elective course
Additional supporting elective course
Additional supporting elective course
Additional supporting elective course
Additional supporting elective course
Additional supporting elective course

NOTES: NEED 120 CREDITS TO GRADUATE

*Courses (30 cr) that also count towards 40 credit GenEd requirement

^Qualified Animal management courses include the following:

AVS 201, 275, 323, 324, 325, 326, 327, 462

^^Approved supporting electives include any course taught in CELS or the following prefixes: APG, CHM, CSC, ECN/EEC, INE, MKT, MTH, OCG, PHY, STA

- Max. 9 credits total of AVS 399, 491, 492 can be counted towards degree

- Internship credits (AVS 399) cannot be counted towards concentration credits

- See AVS Advising Sheet (page 2) for course suggestions for various focus areas

B.S. Animal Science & Technology

Effective Fall 2022

Approved Concentration Courses (300+)

Course Code	GenEd Outcome	Course (Semester offered, credits)	Focus Area		
			Livestock*	Exotic*	Pre-Vet and Technology*
AVS 301/302		Seminar in Animal and Veterinary Science (F/S, 1 cr)	X	X	X
AVS 304		Advanced Animal Management Techniques (F, S, 3 crs)^	X		X
AVS 323		Animal Management I (F, 3 crs)	X		
AVS 324		Animal Management II (S, 3 crs)	X		
AVS 325		Animal Management III (S, 3 crs)		X	
AVS 326		Equine Management (S, 3 crs)	X		
AVS 327		Zoo Animal Management (F, 3 crs)		X	
AVS 343		Behavior of Domestic Animals (S, Su, 3 crs)	X	X	X
AVS 372		Endocrinology (F, 3 crs)			X
AVS 390		Wildlife and Human Disease (S, 3 crs)		X	
AVS 404	D1, B4	Food Systems, Sustainability and Health	X		
AVS 412		Animal Nutrition (F, 3 crs)^			X
AVS 420		Animal Breeding & Genetics (S, 3 crs)	X		
AVS 440		Seminar on Marine Mammals (F, 3 crs)		X	
AVS 442		Marine Mammal Behavior and Physiology (J, additional fee) required, 3		X	X
AVS 443	D1	Advanced Methods in Applied Animal Behavior (S, 3 crs)	X	X	X
AVS 462		Laboratory Animal Techniques (S, 4 crs)			X
AVS 463		Animal Veterinary Technology (S, 3 crs)			X
AVS 472	D1	Physiology of Reproduction (S, 3 crs)^	X		X
AVS 473		Physiology of Reproduction Lab (S, 1 cr)	X		X
AVS 491/492		Special Projects (F, S, 1-6 crs)			
AVS 504		Food Systems, Sustainability and Health - graduate level			
AFS 505		Pathobiology (S alternate years (even), 3 crs)^			X
BIO 341		Cell Biology (F, S, 3 crs)^			X
BIO/CMB 352		General Genetics (F, S, Su, 4 crs)^			X
BIO 437		Molecular Biology (S, 4 crs)^			X
CMB 333		Immunology and Serology (F, 3 crs)^			X
SAFS 400G	D1, G	Reimagining Food Systems Through Agroecology (F, 3 crs)	X		
NRS		Any 300 or 400 level course		X	
		Any 300 or 400 level course in CELS			

Some Examples of Potential Supporting Elective Courses/Basic Sciences That Complement Focus Areas

AVS 304		Advanced Animal Management Techniques (F, S, 3 crs)^	X		X
AVS 132G	A2, G	Sustainable Agriculture, Food Systems and Society (S, 3 crs)	X	X	X
AFS 190	A1	Issues in Biotechnology (F, S, online, 3 crs)			X
AVS 201		Companion Animal Management (F, 3 crs)			X
AVS 250		Livestock Judging and Evaluation (S, 2 crs)	X		
AVS 275		Pasture and Grazing Management (F, Su, 4 crs)	X		
AVS 399		Animal Science Internship (F, S, 1-6 crs)			
ECN 201	A2	Principles of Economics, Microeconomics	X		
EEC 105	A2	Introduction to Resource Economics	X		
NRS 100	A1	Natural Resource Conservation (F, S, 3 crs ,A1)		X	
NRS 223		Conservation Biology (S, 4 crs)		X	
		Additional supporting electives can be any course taught in College of Environment and Life Sciences (CELS) or the following prefixes: APG, CHM, CSC, ECN/EEC, INE, MKT, MTH, OCG, PHY, STA			

*Suggested courses for each focus area

^Recommended courses for students interested in Graduate School, dependent upon area of interest

Name: _____
 Major: _____

Student ID: _____
 Subplan: _____

Course Code	Description	Sem.	Cr

Course Code	Description	Sem	Cr

Course Code	Description	Sem.	Cr

Course Code	Description	Sem	Cr

Course Code	Description	Sem	Cr

Course Code	Description	Sem	Cr

Course Code	Description	Sem.	Cr

Course Code	Description	Sem	Cr

Total Credits Earned:			
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Course Code	Description	Sem.	Cr

Course Code	Description	Sem.	Cr

Course Code	Description	Sem.	Cr

Course Code	Description	Sem.	Cr

Course Code	Description	Sem.	Cr

Course Code	Description	Sem.	Cr

Course Code	Description	Sem.	Cr

Course Code	Description	Sem.	Cr

Total Credits Remaining for Graduation:			
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Please Note: A Sample 4 Year Plan for the Major can be found on the next page. The sample is to be used as a reference and guide however your 4 Year Plan is individual to you.

B.S. Animal Science & Technology - Animal Science Option- Effective Fall 2022

Sample 4 Year Plan

College of the Environment and Life Sciences

Freshman Year Fall Semester

Course Code	Description	Cr	
AVS 101,102	Introduction to Animal Science, Lab	4	
BIO 101,103	Principles of Biology I, Lab	4	
COM 100	COM Fundamentals	3	
	General Education Course / MTH	3	
URI 101	Planning for Academic Success	1	
		15	

Freshman Year Spring Semester

Course Code	Description	Cr	
AVS 110	AVS Freshman Seminar	1	
BIO 102,104	Principles of Biology II, Lab	4	
WRT 104 OR 106	Writing Gen Ed (B4)	3	
	General Education Course / MTH	3	
AVS 212	Feeds and Feeding (if not taking AVS 412)	3	
	Supporting Elective or Gen Ed Course	3	
		14-17	

Year 1 Milestones: Earn 30 credits and a GPA of 2.0 or higher. Meet with your Faculty Advisor for ANSC option discussion.

Sophomore Year Fall Semester

Course Code	Description	Cr	
AVS 331/333	Anatomy and Physiology Lecture & Lab	4	
	Concentration or Sup Elective Course	3	
	Supporting Elective	4	
	Concentration or Sup Elective Course	3	
	Supporting Elective or Gen Ed Course	3	
		14-17	

Sophomore Year Spring Semester

Course Code	Description	Cr	
AVS 343	Behavior of Domestic Animals	3	
CHM	Chem. w/ lab (CHM 101/102 or 103/105)	4	
	Supporting Elective	3	
WRT 300+	300 or 400 Level Writing course	3	
	General Education Course	3	
		16	

Year 2 Milestones: Earn 60 credits and a GPA of 2.0 or higher. Meet with your Faculty Advisor to discuss major and experiential learning opportunities.

Junior Year Fall Semester

Course Code	Description	Cr	
AVS 304	Advanced Animal Management Techniques	3	
	AVS Elective Course	3	
	Supporting Elective Course	3	
	General Education course	3-4	
AVS 412	Animal Nutrition (if not taking AVS 212)	3-4	
		15-17	

Junior Year Spring Semester

Course Code	Description	Cr	
	Animal Management Course (300+)	3	
AVS 332	Animal Diseases	3	
	AVS Concentration Course (400+)	3	
	General Education course	3-4	
	Free Elective	3-4	
		15-17	

Year 3 Milestones: Earn 90 credits and a GPA of 2.0 or higher. Meet with your Faculty Advisor to prepare intent to graduate application for fall submission.

Senior Year Fall Semester

Course Code	Description	Cr	
	Concentration or Supporting Elective Courses	6	
	AVS Elective Course	3	
	General Education course	3-4	
	Free Elective	3-4	
		15-17	

Senior Year Spring Semester

Course Code	Description	Cr	
	Concentration or Supp Elective Courses	6	
AVS 472	Physiology of Animal Reproduction	3	
	General Education course	3-4	
	AVS Management Course	3	
		15-17	

Year 4 Milestones: Earn 120 credits and a GPA of 2.0 or higher in CUM and CON. Complete all remaining required courses.

Total Credits to Graduate = 120