

**B.S. Animal Science & Technology - Animal Science Option**

**Effective Fall 2019**

**EL\_ANSC\_BS 120 Earned credits Total**      **Student/ID:** \_\_\_\_\_      **Advisor:** \_\_\_\_\_

**I. GENERAL EDUCATION (total 40 hr GenEd\*)**

	Course No.	Grade	Cr.
<b>Knowledge</b>			
A1. STEM	BIO 101		
A2. Social and Behavioral Sciences			
A3. Humanities			
A4. Arts and Design			
<b>Competencies</b>			
B1. Write effectively	WRT _____		
B2. Communicate effectively	COM 100		
B3. Mathematical, statistical, computation	MTH _____		
B4. Information literacy	WRT _____		
<b>Responsibilities</b>			
C1. Civic knowledge & responsibility			
C2. Global responsibilities			
C3. Diversity and inclusion			
<b>Integrate &amp; Apply</b>			
D1. Ability to Synthesize			
<b>Grand Challenge</b>			
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 (25 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
<b>Additional credits (10):</b>			
Additional Basic Science			
Additional Basic Science			
Additional Basic Science			
Additional Basic Science			

**IV. PROFESSIONAL CONCENTRATION (30 cr). Minimum GPA 2.0 required.**

Course Description:	Course No.	Grade	Cr.
<b>Foundation Course Requirements (5 cr):</b>			
Introduction to Animal Science (A1)*	AVS 101*		3
Intro. Animal Science Laboratory	AVS 102		1
Freshman Seminar AVS	AVS 110		1
<b>Concentration Course Requirements (16 cr):</b>			
Anatomy & Physiology	AVS 331		3
Anatomy & Physiology Lab	AVS 333		1
Animal Diseases	AVS 332		3
Behavior of Domestic Animals	AVS 343		3
	AVS 4 ____		3
	AVS 4 ____		3
<b>Additional (9) concentration credits (300+):</b>			
Additional concentration course			
Additional concentration course			
Additional concentration course			
Additional concentration course			

**V. SUPPORTING ELECTIVES (29 cr):**

Course Description:	Course No.	Grade	Cr.
Feeds and Feeding^	AVS 212^		3
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			

**VI. FREE ELECTIVES (~9 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			
Additional free elective course			

**NOTES: NEED 120 CREDITS TO GRADUATE**

\*courses (24 cr) that also count towards 40 credit GenEd requirement  
 ^requirement waived if taking AVS 412

See AVS Advising Sheet for approved concentration, supporting electives and basic science course suggestions.

Maximum 9 credits total of AVS 399, 491, 492 can be counted towards degree  
 Maximum 3 credits total of AVS 491/492 can be counted as concentration course  
 Internship credits cannot be counted towards concentration credits

**ADVISING NOTES:**

## B.S. Animal Science & Technology

Effective Fall 2019

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	Spring 2020	Advance Animal Management Techniques (F, S, 2 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 390		Wildlife and Human Disease (S, 3 crs)		X	
AVS 399		Animal Science Internship (F,S, 1-6 crs)			
AVS 404	D1, B4	Food Systems, Sustainability and Health	X		
AVS 412		Animal Nutrition (F, 3 crs)^			
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 crs)		X	X
AVS 443	D1	Advanced Methods in Applied Animal Behavior	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		
AVS 473		Physiology of Reproduction Lab (S, 1 cr)	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, 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 104	F 2019	Advance Animal Management Techniques (F, S, 2 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 (F, S, 2 crs)	X		
AVS 275		Pasture and Grazing Management (F, Su, 4 crs)	X		
BUS 140		Introduction to Business	X		
BUS 149		Introduction to Entrepreneurship	X		
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	

\*Suggested courses for each focus area

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

**B.S. Animal Science & Technology - Animal Science Option- Effective Fall 2019**

**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	
	B2 General Education Course	3	
URI 101	Planning for Academic Success	1	
		<b>15</b>	

**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	
	Concentration or Supporting Elective Courses	3	
		3	
	General Education Course	3	
		<b>17</b>	

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

**Sophomore Year Fall Semester**

Course Code	Description	Cr	
AVS 331/333	Anatomy and Physiology Lecture & Lab	4	
	Concentration	3	
	Supporting Elective	4	
CHM	Chemistry course with lab	4	
		<b>15</b>	

**Sophomore Year Spring Semester**

Course Code	Description	Cr	
AVS 332	Animal Diseases	3	
AVS 343	Behavior of Domestic Animals	3	
	Supporting Elective	3	
WRT _____	300 or 400 Level Writing course	3	
	General Education Course	3	
		<b>15</b>	

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

**Junior Year Fall Semester**

Course Code	Description	Cr	
	Concentration or Supporting Elective Courses	3	
	Concentration or Supporting Elective Courses	3	
	Concentration or Supporting Elective Courses	3	
	General Education course	3-4	
	Free Elective	3-4	
		<b>15-17</b>	

**Junior Year Spring Semester**

Course Code	Description	Cr	
	Concentration or Supporting Elective Courses	3	
	Concentration or Supporting Elective Courses	3	
	Concentration or Supporting Elective Courses	3	
	General Education course	3-4	
	Free Elective	3-4	
		<b>15-17</b>	

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

**Senior Year Fall Semester**

Course Code	Description	Cr	
	Concentration or Supporting Elective Courses	9	
	General Education course	3-4	
	Free Elective	3-4	
		<b>15-17</b>	

**Senior Year Spring Semester**

Course Code	Description	Cr	
	Concentration or Supporting Elective Courses	9	
	General Education course	3-4	
	Free Elective	3-4	
		<b>15-17</b>	

**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**