B.S. Animal Science & Technology - Animal Science Option — Effective Fall 2024

EL_ANSC_BS **120 Earned credits Total** **Name:**_____ **ID:**_____ **Advisor:** _____

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

	Course No.	Grade	Cr.
Knowledge			
A1. STEM	AVS 101		
A2. Social and Behavioral Sciences			
A3. Humanities			
A4. Arts and Design			
Competencies			
B1. Write effectively	WRT ___		
B2. Communicate effectively	COM 100		
B3. Mathematical, statistical, computation	MTH ___		
B4. Information literacy	WRT ___		
Responsibilities			
C1. Civic knowledge & responsibilitiy	COM 100		
C2. Global responsibilities			
C3. Diversity and inclusion			
Integrate & Apply			
D1. Ability to Synthesize	AVS 472		
Grand Challenge			
G. Grand Challenge Course			

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 (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			

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 Managed Animals	AVS 343		3
Animal Management Course (300+)^	AVS ___		3
Nutrition (AVS 212 or AVS 412)	AVS ___		3
Physiology of Animal Reproduction* (D1)	AVS 472		3
Animal Science Elective (400+)	AVS 4__		3
Additional concentration credits (3 cr; 300+ level course(s) in CELS):			
Additional concentration course			
Additional concentration course			

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

Course Description:	Course No.	Grade	Cr.
AVS Management Course^	AVS ___		
Animal Science Elective	AVS ___		
Animal Science Elective	AVS ___		
AVS 399/491/492 (min 3 credits, max 9)	AVS ___		

- 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 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** (AVS, AFS, BIO, BTC, CMB, EEC, GEG, GEO, LAR, MAF, MLS, NRS, PLS, SAF), the College of Business (INE, MKT) or the following prefixes: APG, CHM, CSC, ECN, 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

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Effective Fall 2024

Animal Science & Technology Courses		
Course Code	**Course (Semester offered, credits)**	**GenEd Outcome**
AVS 101	Introduction to Animal Science (F, S, Su, J, 3 crs)	A1
AVS 102	Introduction to Animal Science Laboratory (F, S, 1 cr)	
AVS 110	Freshman Seminar in Animal and Veterinary Science (S, 1 cr)	
AVS 122X	Biology and Behavior of Sharks and Whales (F, 3crs)	
AVS 132G	Sustainable Agriculture, Food Systems, and Society (F, Su, J, 3 crs)	A2, G
AVS 201	Companion Animal Management (F, 3 crs)	
AVS 212	Feeds and Feedings (S, 3 crs)	
AVS 275	Pasture and Grazing Management in Sustainable Agriculture (F, Su, 4 crs)	
AVS 291	Laboratory Research Skills (F, 1 cr)	
AVS300+ Courses qualify for the Conentration requirement if not otherwise required by option		
AVS 300X	Winter Dairy Travel Course (J, 1 cr)	
AVS 301	Seminar in Animal and Veterinary Science (F, 1 cr)	
AVS 304	Advanced Animal Management Techniques (F, S, 3 crs)^	
AVS 323	Ruminant Livestock Management (F, 3 crs)	
AVS 324	Non-Ruminant Livestock Management (S, 3 crs)	
AVS 325	Exotic Pet Management (S, 3 crs)	
AVS 326	Equine Management (S, 3 crs)	
AVS 327	Zoo Animal Management (F, additional fee required, 3 crs)	
AVS 331	Anatomy and Physiology (F, 3 crs)	
AVS 332	Animal Diseases (S, Su, 3 crs)	
AVS 333	Anatomy and Physiology Laboratory (F, 1 cr)	
AVS 343	Behavior of Managed Animals (S, Su, 3 crs)	
AVS 372	Introductory Endocrinology (F, 3 crs)	
AVS 390	Wildlife and Human Disease (S, 3 crs)	
AVS 398	Practicum in Zoo and Aquarium Animal Science (F, S, 1 cr)	
AVS 399	Animal Science Internship (F, S, Su, 1-6 crs)	
AVS 400X	Advanced Small Farm Management (S, 4 crs)	
AVS 404	Food Systems, Sustainability and Health (F, 3 crs)	B4, D1
AVS 412	Animal Nutrition (F, 3 crs)^	
AVS 420	Animal Breeding & Genetics (S, 3 crs)	
AVS 427	Zoo and Aquarium Animal Welfare (S, 2 crs)	
AVS 440	Seminar on Marine Mammals (F, 3 crs)	
AVS 442	Physiology and Behavior of Marine Mammals (J, additional fee required, 3 crs)	
AVS 443	Advanced Methods in Applied Animal Behavior (S, 3 crs)	D1
AVS 462	Laboratory Animal Techniques (S, 4 crs)	
AVS 463	Animal Veterinary Technology (S, 3 crs)	
AVS 472	Physiology of Reproduction (S, 3 crs)^	D1
AVS 473	Physiology of Reproduction Lab (S, 1 cr)	
AVS 491	Special Projects (F, S, Su, 1-6 crs)	
AVS 503	Pathobiology (3 crs)^	
AVS 504	Food Systems, Sustainability and Health - graduate level (F, 3 crs)	
Additional Concentration and Supporting Elective Courses		
	Additional concentration courses include any 300 or 400 level course in CELS*	
	Additional supporting electives can be any course taught in CELS*, Business** or the following prefixes: APG, CHM, CSC, ECN, MTH, OCG, PHY, STA	
AFS 190	Issues in Biotechnology (F, S, online, 3 crs)	A1
BIO 341	Cell Biology (F, S, 3 crs)^	
BIO/CMB 352	General Genetics (F, S, Su, 4 crs)^	
ECN 201	Principles of Economics, Microeconomics	A2
EEC 105	Introduction to Resource Economics	A2
NRS 100	Natural Resource Conservation (F, S, 3 crs ,A1)	A1
NRS 223	Conservation Biology (S, 4 crs)	
SAF 123X	Sustainability for the Common Good (F, 3crs)	
SAFS 383	Food Justice (S, 3 crs)	A2, C3
SAFS 400G	Reimagining Food Systems Through Agroecology (F, 3 crs)	D1, G

*CELS Courses include following prefixes: AFS, AVS, BIO, BTC, CMB, EEC, GEG, GEO, LAR, MAF, MLS, NRS, PLS, SAF

**College of Business Courses include the following prefixes: INE, MKT

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

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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	
	Suporting 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	
	Suporting 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 dicuss 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	3	
	Concentration or Supporting Elective Courses	3	
	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	3	
	Concentration or Supp Elective Courses	3	
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

Name: _____ Student ID: _____

Major: _____ Subplan: _____

First Year Fall Semester (20XX)			
Course Code	Description	Sem.	Cr

First Year Spring Semester (20XX)			
Course Code	Description	Sem.	Cr

Summer / J-Term (20XX)			
Course Code	Description	Sem	Cr

Summer / J-Term (20XX)			
Course Code	Description	Sem.	Cr

Sophomore Year Fall Semester (20XX)			
Course Code	Description	Sem.	Cr

Sophomore Year Spring Semester (20XX)			
Course Code	Description	Sem.	Cr

Summer / J-Term (20XX)			
Course Code	Description	Sem	Cr

Summer / J-Term (20XX)			
Course Code	Description	Sem.	Cr

Junior Year Fall Semester (20XX)			
Course Code	Description	Sem	Cr

Junior Year Spring Semester (20XX)			
Course Code	Description	Sem.	Cr

Summer / J-Term (20XX)			
Course Code	Description	Sem	Cr

Summer / J-Term (20XX)			
Course Code	Description	Sem.	Cr

Senior Year Fall Semester (20XX)			
Course Code	Description	Sem.	Cr

Senior Year Spring Semester (20XX)			
Course Code	Description	Sem.	Cr

Summer / J-Term (20XX)			
Course Code	Description	Sem	Cr

Summer / J-Term (20XX)			
Course Code	Description	Sem.	Cr

Total Credits Earned:	0

Total Credits Remaining for Graduation:	120

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.

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Advising Notes