EL_ANSC_BS 120 Earned credits Total Student/ID:______Advisor:_____

. GENERAL EDUCATION (total 40 hr GenEd)		
	Course No. Grade Cr.	
Knowledge		
A1. STEM	BIO 101	
A2. Social and Behavioral Sciences		
A3. Humanities		
A4. Arts and Design		
Competencies	<u></u>	
B1. Write effectively	WRT	
B2. Communicate effectively	COM 100	
B3. Mathematical, statistical, computation	MTH 131	
B4. Information literacy	WRT	
Responsibilities		
C1. Civic knowledge & responsibilitiy		
C2. Global responsibilities		
C3. Diversity and inclusion		
Integrate & Apply		
D1. Ability to Synthesize	AVS 472	
Grand Challenge		
G. Grand Challenge Course		
courses in other sections also fulfill Ge	nEd requirement	
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II. BASIC NON-SCIENCE REQUIREMENTS (9 cr)						
Course Description:	Course No.	<u>Grade</u>	<u>Cr.</u>			
Communication Fundamentals (B2)*	COM 100*		3			
Wrt to Inform & Explain (WRT 104; B1, B4) or Intro to Research Wrt (WRT 106; B1, B4)*			3			
Technical Writing (WRT 332) or Science Writing (WRT 334) (B1, B2)*			3			

III.	. BASIC SCIENCE REQUIREMENTS (46 cr)					
	Course Description:	Course No.	<u>Grade</u>	<u>Cr.</u>		
	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 (A1)*	CHM 101*		3		
	Laboratory for Chemistry 101 (A1)*	CHM 102*		1		
	General Chemistry Lecture II	CHM 112		3		
	Laboratory for Chemistry 112	CHM 114		1		
	Organic Chemistry Laboratory	CHM 226		2		
	Organic Chemistry I	CHM 227		3		
	Organic Chemistry II	CHM 228		3		
	Integrative Microbiology*	CMB 211*		4		
	Introductory Biochemistry	CMB 311		3		
	Calculus (A1, B3)*	MTH 131*		3		
	Physics I (A1, B3)*	PHY 111*		3		
	Physics I Lab (A1, B3)*	PHY 185*		1		
	Physics II (A1, B3)*	PHY 112*		3		
	Physics II Lab (A1, B3)*	PHY 186*		1		
	Introductory Statistics	STA 308		4		

V. PROFESSIONAL CONCENTRATION (31 cr). Minimum GPA 2.0 required.				
Course Description:	Course No. Grade	<u>Cr.</u>		
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 (20 cr):			
Anatomy & Physiology	AVS 331	3		
Anatomy & Physiology Lab	AVS 333	1		
Animal Diseases	AVS 332	3		
Animal Nutrition	AVS 412	3		
Physiology of Reproduction (D1)*	AVS 472*	3		
Principles of Cell Biology	BIO 341	3		
General Genetics	BIO/CMB 352	4		
Additional (6) concentration credits (300+)	:			
Additional concentration course				
Additional concentration course				
Additional concentration course				

. SUPPORTING ELECTIVES (11 cr):			
Course Description:	Course No.	<u>Grade</u>	<u>Cr.</u>
Advanced Animal Management Techniques	AVS 304		3
BUS or ECN			3
Additional supporting elective course			
Additional supporting elective course			
Additional supporting elective course			
Additional supporting elective course			

VI.	FREE ELECTIVES (~2-5 credits. Need	12	20 credits	to grad	uate)
	Course Description:		Course No.	<u>Grade</u>	<u>Cr.</u>
	Planning for Academic Success		URI 101		1
	Additional free elective course				
	Additional free elective course				

NOTES:
NEED A TOTAL OF 120 CREDITS TO GRADUATE
*courses (38 cr) that also count towards 40 credit GenEd requirement.
The only GenEd courses left to take are those whose GenEd outcomes
have not been met (Sec I) by any of the required courses.
Maximum 9 cr total of AVS 399, 491, 492 can be counted towards degree
Maximum 3 cr total of AVS 491/492 can be counted as concentration course
Internship credits cannot counted as concentration credits
Approved supporting electives include any course taught in CELS, College of Business
or with the prefix: APG, CHM, CSC, ECN/EEC, MTH, OCG, PHY, STA
See AVS Advising Sheet (page 2) for course suggestions for various focus areas
ADVISING NOTES:

B.S. Animal Science & Technology Effective Fall 2021

course Code Outcome Livestock* Exotic* Technology* AVS 301/302 Seminar in Animal and Veterinary Science (F/S, 1 cr) X X X AVS 304 Advanced Animal Management II (F, 3 crs) X X X AVS 323 Animal Management II (F, 3 crs) X X AVS 324 Animal Management II (F, 3 crs) X X AVS 325 Animal Management II (F, 3 crs) X X AVS 327 Zoo Animal Management (F, 3 crs) X X AVS 327 Zoo Animal Management II (F, 3 crs) X X AVS 343 Behavior of Domestic Animals (S, Su, 3 crs) X X AVS 4767 AVS 404 D1, B4 Food Systems, Sustainability and Health X X AVS 412 Animal Science Internship (F, 5, 1 crs) X X X AVS 420 Animal Predding & Genetics (S, 3 crs) X X AVS 440 Seminar on Marine Mammals (F, 3 crs) X X AVS 443 D1 Avaced Methods in Applied Animal Behavior X			Examples of Approved Concentration Courses (300+)			
Course Code Course (Semester offered, credits) Livestock* Exotic* Fre-Vet and Technology* AVS 301/302 Seminar in Animal and Veterinary Science (F/S, 1 cr) X X X X AWS 304 Advanced Animal Management I (F, 3 crs) X X X AVS 324 Animal Management II (S, 3 crs) X X AVS 325 Animal Management II (S, 3 crs) X X AVS 327 Zoo Animal Management II (S, 3 crs) X X AVS 327 Zoo Animal Management II (S, 3 crs) X X AVS 3493 Behavior of Domestic Animals (S, 0, 3 crs) X X AVS 475 Wildlife and Human Disease (S, 3 crs) X X AVS 49399 Animal Science Internship (F,5, 1-6 crs) X X AVS 412 Animal Nutrition (F, 3 crs)* X X AVS 420 Animal Preeding & Genetics (S, 3 crs) X X AVS 440 Seminar on Marine Mammals (F, 3 crs) X X AVS 443 D1 Advanced Methods in Applied Animal Behavior X <					Focus A	rea
Technology*			Course (Semester offered, credits)			Pre-Vet and
AVS 304 Advanced Animal Management Techniques (F, S, 3 crs)^A X	-					
AVS 323					Х	
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 327 Zoo Animal Management (F, 3 crs) X AVS 328 Behavior of Domestic Animals (S, 5u, 3 crs) X AVS 343 Behavior of Domestic Animals (S, 5u, 3 crs) X AVS 343 Behavior of Domestic Animals (S, 5u, 3 crs) X AVS 349 Wildlife and Human Disease (S, 3 crs) X AVS 349 Animal Science Internship (F, 5, 1-6 crs) AVS 404 D1, 84 Food Systems, Sustainability and Health X AVS 412 Animal Nutrition (F, 3 crs) X AVS 420 Animal Nutrition (F, 3 crs) X AVS 420 Animal Beneding & Genetics (S, 3 crs) X AVS 440 Seminar on Marine Mammals (F, 3 crs) X AVS 442 Marine Mammal Behavior and Physiology (I, additional fee) X AVS 443 D1 Advanced Methods in Applied Animal Behavior X AVS 463 Animal Veterinary Technology (S, 3 crs) 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 472 D1 Physiology of Reproduction (S, 3 crs) X AVS 491/492 Special Projects (F, 5, 1-6 crs) X AVS 491/492 Special Projects (F, 5, 1-6 crs) X AVS 504 Food Systems, Sustainability and Health - graduate level ArS 505 Pathobiology (S atcrs) X BIO 331 Cell Biology (F, 3 crs)^N X AVS 323 General Genetics (F, S, 5u, 4 crs)^N X AVS 333 Immunology and Serology (F, 3 crs)^N X AVS 345 Application Any 300 or 400 level course in CELS Examples of Supporting Elective Courses That Complement Focus Areas (100+) AVS 201 Companion Animal Management (F, S, crs) X AVS 201 Livestock Judging and Eviluation (F, S, 2 crs) X AVS 201 Livestock Judging and Eviluation (F, S, 2 crs) X AVS 201 Livestock Judging and Fivilation (F, S, 2 crs) X AVS 201 Animal Management (F, S, C crs) X AVS 201 Animal Management (F, S, C crs) X AVS 201 Animal Management (F, S, C crs) X AVS 201 All Introduction to Business X AVS 201 Animal Management (F, S, C crs) X AVS 201 Animal Management (F, S, C crs) X AVS 201						Х
AVS 325						
AVS 326				Х		
AVS 327 Zoo Animal Management (F, 3 crs) AVS 343 Behavior of Domestic Animals (S, Su, 3 crs) X					Х	
AVS 343 Behavior of Domestic Animals (S, Su, 3 crs) AVS (AMS/RMT 390) Wildlife and Human Disease (S, 3 crs) AVS 404 D1, B4 Food Systems, Sustainability and Health X AVS 412 Animal Nutrition (F, 3 crs)^ AVS 442 Animal Marine Mammals (F, 3 crs) AVS 440 Seminar on Marine Mammals (F, 3 crs) AVS 442 Marine Mammal Behavior and Physiology (J, additional fee) X X X AVS 443 D1 Advanced Methods in Applied Animal Behavior X X X AVS 443 D1 Advanced Methods in Applied Animal Behavior X X X AVS 463 Animal Veterinary Technology (S, 3 crs) X AVS 472 D1 Physiology of Reproduction (S, 3 crs) X AVS 473 AVS 491/492 Special Projects (F, S, 1-6 crs) AVS 491/492 Special Projects (F, S, 1-6 crs) AVS 491/492 Special Projects (F, S, 1-6 crs) AVS 491/492 AVS 491/492 Special Projects (F, S, 1-6 crs) AVS 491 AVS 491 Cell Biology (F, 3 crs)^ X X BIO 341 Cell Biology (F, 3 crs)^ X BIO 347 Coll Biology (F, 3 crs)^ AVS 493 ANS 493 ANS 493 ANS 493 ANS 493 ANS 493 ANS 494 ANS 495 ANS 495 ANS 495 ANS 495 ANS 495 ANS 495 ANS 496 ANS				Х		
AVS/ENT 390						
AVS 399				Х	Х	Х
AVS 404 D1, B4 Food Systems, Sustainability and Health X					Х	
AVS 412	-					
AVS 420	AVS 404	D1, B4	Food Systems, Sustainability and Health	Х		
AVS 440	AVS 412		Animal Nutrition (F, 3 crs)^			
AVS 442 Marine Mammal Behavior and Physiology (J., additional fee) X X X AVS 443 D1 Advanced Methods in Applied Animal Behavior X X X X X AVS 462 Laboratory Animal Techniques (S, 4 crs) X X X X X AVS 463 Animal Veterinary Technology (S, 3 crs) X X X X X S 4VS 463 Animal Veterinary Technology (S, 3 crs) X X X X X X X X X X X X X X X X X X X	AVS 420		Animal Breeding & Genetics (S, 3 crs)	Х		
AVS 443 D1 Advanced Methods in Applied Animal Behavior X X X X AVS 462 Laboratory Animal Techniques (S, 4 crs) X AVS 462 Animal Veterinary Technology (S, 3 crs) X X AVS 463 Animal Veterinary Technology (S, 3 crs) X X AVS 472 D1 Physiology of Reproduction (S, 3 crs)^ X X AVS 473 Physiology of Reproduction Lab (S, 1 cr) X X AVS 473 Physiology of Reproduction Lab (S, 1 cr) X X AVS 491/492 Special Projects (F, S, 1-6 crs) 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 X BIO 341 Cell Biology (F, 3 crs)^ X X BIO 341 Cell Biology (F, 3 crs)^ X X BIO 437 Molecular Biology (S, 4 crs)^ X X BIO 437 Molecular Biology (S, 4 crs)^ X X BIO 437 Molecular Biology (S, 4 crs)^ X X AVS 400G D1, G Reimagning Food Systems Through Agroecology (F, 3 crs) X X AVS 400G D1, G Reimagning Food Systems Through Agroecology (F, 3 crs) X X AVS 201 Any 300 or 400 level course in CELS AVS 504 AVS 205 AS Sustainable Agriculture, Food Systems and Society (S, 3 crs) X X X X AFS 190 A1 Issues in Biotechnology (F, 5, online, 3 crs) X X X X X X AFS 190 A1 Issues in Biotechnology (F, 5, online, 3 crs) X X X X X X X X X X X X X X X X X X X	AVS 440		Seminar on Marine Mammals (F, 3 crs)		Х	
AVS 462	AVS 442		Marine Mammal Behavior and Physiology (J, additional fee)		Х	Х
AVS 463 Animal Veterinary Technology (S, 3 crs) AVS 472 D1 Physiology of Reproduction (S, 3 crs)^ AVS 473 Physiology of Reproduction Lab (S, 1 cr) 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)^ BIO 341 Cell Biology (F, 3 crs)^ BIO 341 Cell Biology (F, 3 crs)^ BIO 341 Molecular Biology (S, 4 crs)^ Molecular Biology (S, 4 crs)^ BIO 437 Molecular Biology (S, 4 crs)^ SAFS 400G D1, G Reimagining Food Systems Through Agroecology (F, 3 crs) Any 300 or 400 level course in CELS Examples of Supporting Elective Courses That Complement Focus Areas (100+) All of the above courses plus: AVS 132G A2, G Sustainable Agriculture, Food Systems and Society (S, 3 crs) X X AVS 201 Companion Animal Management (F, 3 crs) X X AVS 201 Companion Animal Management (F, 3 crs) X X AVS 250 Livestock Judging and Evluation (F, S, 2 crs) X X AVS 257 Pasture and Grazing Management (F, Su, 4 crs) BUS 149 Introduction to Entrepreneurship X EN SEC SUB ALIVER OF SEC	AVS 443	D1	Advanced Methods in Applied Animal Behavior	Х	Х	Х
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 Pod Systems, Sustainability and Health - graduate level AFS 505 Pod Pod Systems, Sustainability and Health - graduate level AFS 505 Pod Systems, Sustainability and Health - graduate level AFS 505 Pod Systems, Sustainability and Health - graduate level AFS 505 Pod Systems, Sustainability and Health - graduate level AFS 505 Pod Systems, Sustainability and Health - graduate level AFS 505 Pod Systems, Sustainability and Health - graduate level AFS 505 Pod Systems, Sustainability and Health - graduate level AFS 505 Pod Systems, Sustainability and Health - graduate level AFS 506 Pod Systems, Sustainability, Sus	AVS 462		Laboratory Animal Techniques (S, 4 crs)			Х
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 Any 300 or 400 level course in CELS Examples of Supporting Elective Courses That Complement Focus Areas (100+) All of the above courses plus: AVS 132G A2, G Sustainable Agriculture, Food Systems and Society (S, 3 crs) X AFS 190 A1 Issues in Biotechnology (F, S, online, 3 crs) X AVS 201 Companion Animal Management (F, 3 crs) X AVS 201 Livestock Judging and Evluation (F, S, 2 crs) X AVS 275 Pasture and Grazing Management (F, Su, 4 crs) X BUS 149 Introduction to Business X BUS 149 Introduction to Entrepreneurship X ECN 201 A2 Principles of Economics, Microeconomics X 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 AND Course in CELS, the College of Business or the following	AVS 463		Animal Veterinary Technology (S, 3 crs)			Х
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 Any 300 or 400 level course in CELS Examples of Supporting Elective Courses That Complement Focus Areas (100+) AVS 132G A2, G Sustainable Agriculture, Food Systems and Society (S, 3 crs) X AYS 201 Companion Animal Management (F, 3 crs) X AVS 201 Companion Animal Management (F, 3 crs) X AVS 250 Livestock Judging and Evluation (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 NRS 100 A1 Natural Resource Conservation (F, S, 3 crs, A1) X NRS 223 Conservation Biology (S, 4 crs) X ANS 201 Conservation Biology (S, 4 crs) X ANS 223 Conservation Biology (S, 4 crs) X ANS 223 Any Course in CELS, the College of Business or the following	AVS 472	D1	Physiology of Reproduction (S, 3 crs) [^]	Х		
AVS 504 Food Systems, Sustainability and Health - graduate level AFS 505 Pathobiology (S alternate years (even), 3 crs)^ BIO 341 Cell Biology (F, 3 crs)^ BIO/CMB 352 General Genetics (F, S, Su, 4 crs)^ BIO 437 Molecular Biology (S, 4 crs)^ SAFS 400G D1, G Reimagining Food Systems Through Agroecology (F, 3 crs) Any 300 or 400 level course in CELS Examples of Supporting Elective Courses That Complement Focus Areas (100+) All of the above courses plus: AVS 332G A2, G Sustainable Agriculture, Food Systems and Society (S, 3 crs) AVS 201 Companion Animal Management (F, 3 crs) AVS 201 Livestock Judging and Evluation (F, S, 2 crs) AVS 250 Livestock Judging and Evluation (F, S, 2 crs) AVS 275 Pasture and Grazing Management (F, Su, 4 crs) BUS 140 Introduction to Business BUS 149 Introduction to Entrepreneurship X Principles of Economics, Microeconomics X PRS 100 A1 Natural Resource Conservation (F, S, 3 crs ,A1) X NRS 223 Conservation Biology (S, 4 crs) X Any Course in CELS, the College of Business or the following	AVS 473		Physiology of Reproduction Lab (S, 1 cr)	Х		
AFS 505 Pathobiology (S alternate years (even), 3 crs)^ X BIO 341 Cell Biology (F, 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 Any 300 or 400 level course in CELS Examples of Supporting Elective Courses That Complement Focus Areas (100+) All of the above courses plus: AVS 132G A2, G Sustainable Agriculture, Food Systems and Society (S, 3 crs) 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 Evluation (F, S, 2 crs) X AVS 275 Pasture and Grazing Management (F, Su, 4 crs) X BUS 149 Introduction to Business X BUS 149 Introduction to Entrepreneurship X ECN 201 A2 Principles of Economics, Microeconomics X BRS 100 A1 Natural Resource Conservation (F, S, 3 crs ,A1) X NRS 223 Conservation Biology (S, 4 crs) X ANY Course in CELS, the College of Business or the following	AVS 491/492		Special Projects (F,S, 1-6 crs)			
BIO 341 Cell Biology (F, 3 crs)^ BIO/CMB 352 General Genetics (F, S, Su, 4 crs)^ BIO 437 Molecular Biology (S, 4 crs)^ CMB 333 Immunology and Serology (F, 3 crs)^ SAFS 400G D1, G Reimagining Food Systems Through Agroecology (F, 3 crs) Any 300 or 400 level course in CELS Examples of Supporting Elective Courses That Complement Focus Areas (100+) All of the above courses plus: AVS 132G A2, G Sustainable Agriculture, Food Systems and Society (S, 3 crs) X X AFS 190 A1 Issues in Biotechnology (F, S, online, 3 crs) X X AVS 201 Companion Animal Management (F, 3 crs) X AVS 250 Livestock Judging and Evluation (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 RRS 100 A1 Natural Resource Conservation (F, S, 3 crs ,A1) X NRS 223 Conservation Biology (S, 4 crs) X Any Course in CELS, the College of Business or the following	AVS 504		Food Systems, Sustainability and Health - graduate level			
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 Any 300 or 400 level course in CELS Examples of Supporting Elective Courses That Complement Focus Areas (100+) All of the above courses plus: AVS 132G A2, G Sustainable Agriculture, Food Systems and Society (S, 3 crs) 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 Evluation (F, S, 2 crs) X AVS 250 Pasture and Grazing Management (F, Su, 4 crs) X BUS 140 Introduction to Business BUS 149 Introduction to Entrepreneurship X BUS 149 Introduction to Entrepreneurship X ECN 201 A2 Principles of Economics, Microeconomics X RNS 100 A1 Natural Resource Conservation (F, S, 3 crs ,A1) X NRS 223 Conservation Biology (S, 4 crs) Any Course in CELS, the College of Business or the following	AFS 505		Pathobiology (S alternate years (even), 3 crs)^			Х
BIO 437	BIO 341		Cell Biology (F, 3 crs) [^]			Х
CMB 333 Immunology and Serology (F, 3 crs)^ X SAFS 400G D1, G Reimagining Food Systems Through Agroecology (F, 3 crs) X Examples of Supporting Elective Courses That Complement Focus Areas (100+) All of the above courses plus: 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 X AVS 201 Companion Animal Management (F, 3 crs) X X AVS 250 Livestock Judging and Evluation (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 Any Course in CELS, the College of Business or the following	BIO/CMB 352		General Genetics (F, S, Su, 4 crs)^			Х
SAFS 400G D1, G Reimagining Food Systems Through Agroecology (F, 3 crs) X Any 300 or 400 level course in CELS Examples of Supporting Elective Courses That Complement Focus Areas (100+) All of the above courses plus: AVS 132G A2, G Sustainable Agriculture, Food Systems and Society (S, 3 crs) 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 Evluation (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 NRS 100 A1 Natural Resource Conservation (F, S, 3 crs ,A1) X NRS 223 Conservation Biology (S, 4 crs) X Any Course in CELS, the College of Business or the following	BIO 437		Molecular Biology (S, 4 crs)^			Х
Examples of Supporting Elective Courses That Complement Focus Areas (100+) All of the above courses plus: 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 Evluation (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 NRS 100 A1 Natural Resource Conservation (F, S, 3 crs ,A1) X Any Course in CELS, the College of Business or the following	CMB 333		Immunology and Serology (F, 3 crs) [^]			Х
Examples of Supporting Elective Courses That Complement Focus Areas (100+) All of the above courses plus: AVS 132G	SAFS 400G	D1, G	Reimagining Food Systems Through Agroecology (F, 3 crs)	Х		
All of the above courses plus: AVS 132G A2, G Sustainable Agriculture, Food Systems and Society (S, 3 crs) A1 Issues in Biotechnology (F, S, online, 3 crs) AVS 201 Companion Animal Management (F, 3 crs) AVS 250 Livestock Judging and Evluation (F, S, 2 crs) AVS 275 Pasture and Grazing Management (F, Su, 4 crs) BUS 140 Introduction to Business X BUS 149 Introduction to Entrepreneurship 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) NRS 223 Conservation Biology (S, 4 crs) Any Course in CELS, the College of Business or the following			Any 300 or 400 level course in CELS			
AVS 132G A2, G Sustainable Agriculture, Food Systems and Society (S, 3 crs) X X X X AFS 190 A1 Issues in Biotechnology (F, S, online, 3 crs) X X X X X X X X X X X X X X X X X X X			Examples of Supporting Elective Courses That Complement Focus Areas (100+)		
AFS 190 A1 Issues in Biotechnology (F, S, online, 3 crs) AVS 201 Companion Animal Management (F, 3 crs) X AVS 250 Livestock Judging and Evluation (F, S, 2 crs) AVS 275 Pasture and Grazing Management (F, Su, 4 crs) BUS 140 Introduction to Business X Introduction to Entrepreneurship ECN 201 A2 Principles of Economics, Microeconomics EEC 105 A2 Introduction to Resource Economics NRS 100 A1 Natural Resource Conservation (F, S, 3 crs ,A1) NRS 223 Conservation Biology (S, 4 crs) Any Course in CELS, the College of Business or the following			All of the above courses plus:			
AVS 201 Companion Animal Management (F, 3 crs) AVS 250 Livestock Judging and Evluation (F, S, 2 crs) AVS 275 Pasture and Grazing Management (F, Su, 4 crs) BUS 140 Introduction to Business BUS 149 Introduction to Entrepreneurship ECN 201 A2 Principles of Economics, Microeconomics EEC 105 A2 Introduction to Resource Economics NRS 100 A1 Natural Resource Conservation (F, S, 3 crs ,A1) NRS 223 Conservation Biology (S, 4 crs) Any Course in CELS, the College of Business or the following	AVS 132G	A2, G	Sustainable Agriculture, Food Systems and Society (S, 3 crs)	Х	Х	Х
AVS 250 AVS 275 Pasture and Grazing Management (F, Su, 4 crs) BUS 140 Introduction to Business BUS 149 Introduction to Entrepreneurship ECN 201 A2 Principles of Economics, Microeconomics X EEC 105 A2 Introduction to Resource Economics NRS 100 A1 Natural Resource Conservation (F, S, 3 crs ,A1) NRS 223 Conservation Biology (S, 4 crs) Any Course in CELS, the College of Business or the following	AFS 190	A1	Issues in Biotechnology (F, S, online, 3 crs)			X
AVS 275 Pasture and Grazing Management (F, Su, 4 crs) BUS 140 Introduction to Business X BUS 149 Introduction to Entrepreneurship 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) NRS 223 Conservation Biology (S, 4 crs) Any Course in CELS, the College of Business or the following	AVS 201		Companion Animal Management (F, 3 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 Any Course in CELS, the College of Business or the following	AVS 250		Livestock Judging and Evluation (F, S, 2 crs)	Х		
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 Any Course in CELS, the College of Business or the following	AVS 275		Pasture and Grazing Management (F, Su, 4 crs)	Х		
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 Any Course in CELS, the College of Business or the following	BUS 140		Introduction to Business	Х		
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 Any Course in CELS, the College of Business or the following	BUS 149		Introduction to Entrepreneurship	Х		
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 Any Course in CELS, the College of Business or the following	ECN 201	A2		Х		
NRS 100 A1 Natural Resource Conservation (F, S, 3 crs ,A1) X NRS 223 Conservation Biology (S, 4 crs) X Any Course in CELS, the College of Business or the following	EEC 105	A2		Х		
NRS 223 Conservation Biology (S, 4 crs) X Any Course in CELS, the College of Business or the following	NRS 100	A1	Natural Resource Conservation (F, S, 3 crs ,A1)		Х	
Any Course in CELS, the College of Business or the following	NRS 223				Х	
departments: APG, CHM, CSC, ECN/EEC, MTH, OCG, PHY, STA						
			departments: APG, CHM, CSC, ECN/EEC, MTH, OCG, PHY, STA			

^{*}Suggested courses for each focus area

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

B.S. Animal Science & Technology- Pre-Vet Option- Effective Fall 2021 Sample 4 Year Plan

College of the Environment and Life Sciences

Freshman Year Fall Semester

Freshman Vear Spring Semester

Freshman Year Fall Semester			_		Freshman Year Spring Semester			
Course Code	Description	Cr			Course Code	Description	Cr	
AVS 101,102	Introduction to Animal Science, Lab	4			AVS 110	AVS Freshman Seminar	1	
BIO 101,103	Principles of Biology I, Lab	4			BIO 102,104	Principles of Biology II, Lab	4	
MTH 103/131	Pre-calculus or Calculus I	3			CHM 101, 102	General Chemistry and Lab	4	
COM 100	COM Fundamentals	3			WRT 104 OR 106	Writing Gen Ed (B4)	3	
URI 101	Planning for Academic Success	1			MTH 131	Calculus I or Concentration	3	
		15					15	
				_	•			

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

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Sopholibre real Fall Selliester			 Sopholiole real Spring Semester				
Course Code	Description	Cr		Course Code	Description	Cr	
AVS 331/333	Anatomy and Physiology Lecture & Lab	4		AVS 332	Animal Diseases	3	
CHM 112, 114	General Chemistry II and Lab	4		PHY 112, 186	Physics II and Lab	4	
PHY 111, 185	Physics I and Lab	4		WRT 332 or 334	WRT course	3	
	General Education Course	3		STA 308	Introductory Statistics	4	
	Supporting Elective	3			General Education Course	3	
		15-18				17	

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

Junior Year Fall Semester

Junior Year Spring Semester

74			_		builtor rear opring beintester			
Course Code	Description	Cr			Course Code		Description	on
	Concentration or Supporting Elective	6				Concentration or Supporting Elective	3-6	
CMB 211	Introductory Microbiology	4			CMB 311	Introductory Biochemistry	3	
CHM 227	Organic Chemistry 1	3			CHM 228,226	Organic Chemistry 2, Lab	4	
BUS or ECN		3				General Education Course	3	
		16					13-16	

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			Senior Year Spring Semester		
Course Code	Description	Cr	Course Code	Description	Cr	
AVS 412	Animal Nutrition	3	AVS 472	Physiology of Reproduction	3	
BIO 341	Cell Biology	3	BIO/CMB 352	General Genetics	4	
	Concentration or Supporting Electives	6		Concentration or Supporting Electives	6	
	General Education or Free Electives	3		General Education or Free Electives	3	
		15			16	

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

Effective Fall 2021