

Animal Science, B.S. - Animal Science Subplan/Option: 120 units
2020-2021 Academic Year

	Fall		Units	Spring		Units	Comments
	Courses	Requirements/Comments		Courses	Requirements/Comments		
Year 1	AVS 1000 Orientation to Animal & Veterinary Sciences [FSp]		1	AG 1010 Agriculture & The Modern World (D3) [FSpSu]		3	[] = Term Typically Offered F = Fall Sp = Spring Su = Summer e = even years o = odd years
	BIO 1210 Foundations of Biology: Energy, Matter, and Information (B2) [FSp]	or BIO 1150 Basic Biology (B2)	3	CHM 1210 General Chemistry I (B1) [FSpSu]	Prereq: SAT Math \geq 550; ACT Math \geq 23; C or better in MAT 12, 105, 106, 112, 114, 115, 116, 120, 125, 130, 191, 214, 216, 224, MAT 1050, MAT 1052, MAT 1060, MAT 1140, MAT 1150, MAT 1200, MAT 1250, MAT 1300, MAT 1310, MAT 1910, MAT 2140, MAT 2240, MAT 2250, STA 120, Coreq: CHM 1210L.	3	
	BIO 1210L Foundations of Biology: Energy, Matter, and Information Laboratory (B3) [FSp]	or BIO 1150L Basic Biology Laboratory (B3)	1	CHM 1210L General Chemistry Laboratory I (B3) [FSpSu]	Prereq: SAT Math \geq 550; ACT Math \geq 23; C or better in MAT 12, 105, 106, 112, 114, 115, 116, 120, 125, 130, 191, 214, 216, 224, MAT 1050, MAT 1052, MAT 1060, MAT 1140, MAT 1150, MAT 1200, MAT 1250, MAT 1300, MAT 1310, MAT 1910, MAT 2140, MAT 2240, MAT 2250, STA 120, or STA 1200; or C- or better in CHM 121 and CHM 121L. Coreq: CHM 1210.	1	
	MAT 1050 College Algebra (B4) [FSpSu]	Prereq: Category I, Category II, Category III, ALEKS \geq 46, or completion of GE Sub-area B4.	3	STA 1200 Statistics with Applications (B4) [FSpSu]	Prereq: Category I, Category II, Category III, appropriate score on ALEKS placement exam, completion of GE Sub-area B4, or C- or better in MAT 1051.	3	
	AVS 1112 Food Animal Production [FSp]		3	GE Area A3: Critical Thinking [FSp]		3	
	GE Area A2: Written Communication [FSp]		3	AVS 1113 Companion, Laboratory and Exotic Animal Care [FSp]		3	
	AVS 1114L Food Animal Production Laboratory [FSp]		1			0	
	AVS 1115L Companion Animal Management Laboratory [FSp]		1			0	
	Total Units		16	Total Units		16	

Year 2	Fall		Units	Spring		Units	Comments
	Courses	Requirements/Comments		Courses	Requirements/Comments		
	CHM 1220 General Chemistry II (B1) [FSpSu]	Prereq: C- or better in CHM 1210, CHM 122 or CHM 122B; and C- or better in CHM 1210L, CHM 122L or CHM122LB. Coreq: CHM 1220L.	3	CHM 3140 Organic Chemistry I [FSpSu]	or CHM 2010 Elements of Organic Chemistry	4	
CHM 1220L General Chemistry Laboratory II (B3) [FSpSu]	Prereq: C- or better in CHM 1210, CHM 122 or CHM 122B; and C- or better in CHM 1210L, CHM 122L or CHM122LB. Coreq: CHM 1220.	1	CHM 3140L Organic Chemistry Laboratory I [FSpSu]	or CHM 2010L Elements of Organic Chemistry Laboratory	1		
BIO 2060 Basic Microbiology [FSp]	or AHS 3305 Parasitology and Animal Diseases	3	AVS 3350 Anatomy and Physiology [FSp]	Prereq: BIO 1150, BIO 121, or BIO 1210; BIO 115L, BIO 1150L, BIO 121L, or BIO 1210L; CHM 121 or CHM 1210; and CHM 121L or CHM 1210L. Coreq: AVS 3350L.	4		
BIO 2060L Basic Microbiology Laboratory [FSp]	or AHS 3305L Parasitology and Animal Diseases Laboratory	1	AVS 3350L Anatomy and Physiology Laboratory [FSp]	Prereq: BIO 115, BIO 1150, BIO 121 or BIO 1210; BIO 115L, BIO 1150L, BIO 121L, or BIO 1210L; CHM 121 or CHM 1210; and CHM 121L or CHM 1210L. Coreq: AVS 3350.	1		
AVS 2101 Fundamentals of Animal Nutrition [FSp]	Prereq: AVS 1112; CHM 121 or CHM 1210; CHM 121L or CHM 1210L and MAT 105 or MAT 1050. Coreq: AVS 2101L.	3	GE Area C1: Visual and Performing Arts [FSp]		3		
AVS 2101L Fundamentals of Animal Nutrition Laboratory	Prereq: CHM 121 or CHM 1210; CHM 121L or CHM 1210L; and MAT 105 or MAT 1050. Coreq: AVS 2101.	1	GE Area D1: U.S. History American Ideals [FSp]		3		
GE Area A1: Oral Communication [FSP]		3			0		
Semester Total Units		15	Semester Total Units		16		

	Fall		Units	Spring		Units	Comments
	Courses	Requirements/Comments		Courses	Requirements/Comments		
Year 3	AVS 4214 Mammalian Endocrinology and Physiology of Reproduction and Lactation [F]	Prereq: AVS 350 or AVS 3350; and AVS 350L or AVS 3350L. Coreq: AVS 4214L.	3	AVS 3327 Meat Science [FSp]		3	<i>Graduation Writing Test must be taken before completion of 75 units.</i>
	AVS 4214L Mammalian Reproduction and Lactational Physiology Laboratory [F]	Prereq: AVS 350 or AVS 3350; and AVS 350L or AVS 3350L. Coreq: AVS 4214.	1	GE Area C2: Literature, Modern Languages, Philosophy and Civilization [FSp]		3	
	AVS 3333 Canine and Feline Compendium (B5)	or AVS 3311 Animal Industry and Society (B5)	3	GE Area C1 or GE Area C2 [FSp]	Prereq: Select either C1: Visual and Performing Arts or C2: Literature, Modern Languages, Philosophy and Civilization course	3	
	AVS 3305 Animal Genetics [FSp]	Prereq: BIO 115, BIO 1150, BIO 121 or BIO 1210; and BIO 115L, BIO 1150L, BIO 121L or BIO 1210L.	3	GE Area D2: U.S. Constitution and California Government [FSp]		3	
	GE Area E: Lifelong Learning and Self-Development [FSp]		3	Unrestricted Elective		2	
	Unrestricted Elective		1			0	
	<i>Take the Graduation Writing Test</i>						
	Semester Total Units		14	Semester Total Units		14	

Year 4	Fall		Units	Spring		Units	Comments
	Courses	Requirements/Comments		Courses	Requirements/Comments		
	Option Required [FSp]	AVS 4473 Clinical Nutrition or AVS 4402 Advanced Nutrition	3	AVS 4430 Biotechnology Applications in Animal Science [FSp]	Prereq: AVS 305 or AVS 3305; and Junior or Senior Standing. Coreq: AVS 4430L.	3	
AG 4010 Ethical Issues in Food, Agricultural and Apparel Industries (D4, C3) [FSpSu]	Prereq: Junior or Senior Standing; and Lower division GE requirements in Area A, at least two sub-areas in Area C, and at least two sub-areas in Area D.	3	AVS 4430L Biotechnology Applications in Animal Science Laboratory [FSp]	Prereq: AVS 305 or AVS 3305; and Junior or Senior Standing. Coreq: AVS 4430.	1		
GE Area D4: Social Science Synthesis [FSp]	or GE Area C3: Arts and Humanities Synthesis	3	AVS 4610 Senior Seminar [FSp]	Prereq: Senior Standing.	1		
Unrestricted Elective		3	Unrestricted Elective		3		
Unrestricted Elective		3	Unrestricted Elective		3		
		0	Unrestricted Elective		3		
<i>File an application to graduate</i>							
Semester Total Units		15	Semester Total Units		14		
					Total Units	120	