

Animal Science, B.S. - Animal Science Subplan/Option: 120 units
2019-2020 Academic Year

	Fall		Units	Spring		Units	Comments
	Courses	Requirements/Comments		Courses	Requirements/Comments		
Year 1	AVS 1000 Orientation to Animal & Veterinary Sciences		1	AG 1010 Agriculture & The Modern World (D3)		3	
	BIO 1210 Foundations of Biology: Energy, Matter, and Information (B2)	or BIO 1150 Basic Biology (B2)	3	CHM 1210 General Chemistry I (B1)	Prereq: 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 Coreq: CHM 1210L.	3	
	BIO 1210L Foundations of Biology: Energy, Matter, and Information Laboratory (B3)	or BIO 1150L Basic Biology Laboratory (B3)	1	CHM 1210L General Chemistry Laboratory I (B3)	Prereq: 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 Coreq: CHM 1210.	1	
	MAT 1050 College Algebra	Prereq: CO Category I, CO Category II, CO Category III, SAT >=570, MDTP >=14, MAT 1060, MAT 106, MAT 1250, MAT 125, MAT 1910, MAT 191, STA 1200, STA 120, ALEKS>=46, ACT>=23, MAT 12, or ESM 12.	3	STA 1200 Statistics with Applications (B4)	Prereq: SAT, ELM, ALEKS, ACT, IRW, GE Area B4, MAT 106, MAT 1060, MAT 125, MAT 1250, MAT 191, MAT 1910, MAT 105, MAT 1050, MAT 1051, or STA 1300.	3	
	AVS 1112 Food Animal Production		3	GE Area A3: Critical Thinking		3	
	GE Area A2: Written Communication		3	AVS 1113 Companion, Laboratory and Exotic Animal Care		3	
	AVS 1114L Food Animal Production Laboratory		1			0	
	AVS 1115L Companion Animal Management Laboratory		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)	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	or CHM 2010 Elements of Organic Chemistry	4	
CHM 1220L General Chemistry Laboratory II (B3)	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	or CHM 2010L Elements of Organic Chemistry Laboratory	1		
BIO 2060 Basic Microbiology	or AHS 3305 Parasitology and Animal Diseases	3	AVS 3350 Anatomy and Physiology	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	or AHS 3305L Parasitology and Animal Diseases Laboratory	1	AVS 3350L Anatomy and Physiology Laboratory	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	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		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		3		
GE Area A1: Oral Communication		3			0		
Semester Total Units		15	Semester Total Units		16		

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

	Fall		Units	Spring		Units	Comments
	Courses	Requirements/Comments		Courses	Requirements/Comments		
Year 4	Option Required	AVS 4473 Clinical Nutrition or AVS 4402 Advanced Nutrition	3	AVS 4430 Biotechnology Applications in Animal Science	Prereq: AVS 112 or AVS 1112; AVS 113 or AVS 1113; AVS 350 or AVS 3350; AVS 350 or AVS 3350; AVS 350L or AVS 3350L; BIO 303, BIO 2400, AVS 305 or AVS 3305; AVS 345 or AVS 3450; and Junior/Senior Standing. Coreq: AVS 4430L.	3	
	AG 4010 Ethical Issues in Food, Agricultural and Apparel Industries (D4, C3)	Prereq: Junior or Senior Standing; and completion of GE Area A2.	3	AVS 4430L Biotechnology Applications in Animal Science Laboratory	Prereq: AVS 112 or AVS 1112; AVS 113 or AVS 1113; AVS 350 or AVS 3350; AVS 350L or AVS 3350L; BIO 303, BIO 2400, AVS 305 or AVS 3305; AVS 345 or AVS 3450; and Junior/Senior Standing. Coreq: AVS 4430.	1	
	GE Area D4: Social Science Synthesis	or GE Area C3: Arts and Humanities Synthesis	3	AVS 4610 Senior Seminar	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	