

# Animal Science, B.S. - Pre-Veterinary Science/Graduate School Subplan/Option: 120 units

2020-2021 Academic Year

	Fall		Units	Spring		Units	Comments
	Courses	Requirements/Comments		Courses	Requirements/Comments		
<b>Year 1</b>	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]	Coreq: BIO 1210L.	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]	Coreq: BIO 1210.	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] (Success Marker)	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] (Success Marker)	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	BIO 1220 Foundations of Biology: Evolution, Ecology, and Biodiversity [FSp]	Coreq: BIO 1220L.	3	
	AVS 1114L Food Animal Production Laboratory [FSp]		1	BIO 1220L Foundations of Biology: Evolution, Ecology, and Biodiversity Laboratory [FSp]	Coreq: BIO 1220.	1	

GE Area A2: Written Communication [FSp] (Success Marker)		3	AVS 1113 Companion, Laboratory and Exotic Animal Care [FSp]		3	
AVS 1115L Companion Animal Management Laboratory [FSp]		1			0	
<b>Total Units</b>		<b>16</b>	<b>Total Units</b>		<b>17</b>	



CalPoly  
Pomona

Year 2	Fall		Units	Spring		Units	Comments
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	MAT 1060 Trigonometry (B4) [FSpSu] (Success Marker)	Prereq: Category I, Category II, Category III, ALEKS >=46, completion of GE Sub-area B4, or C- or better in MAT 1051.	3	PHY 1210 Physics of Motion, Fluids, and Heat (B1) [FSp]	Prereq: C- or better in MAT 106, MAT 1060, MAT 112, MAT 114, MAT 1140, MAT 1140C, MAT 115, MAT 116 or MAT 1150. Coreq: PHY 1210L.	3	
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	PHY 1210L Physics of Motion, Fluids, and Heat Laboratory (B3) [FSp]	Coreq: PHY 1210.	1		
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 3140 Organic Chemistry I [FSpSu]	Prereq: C- or better in CHM 123 or CHM 1220; and C- or better in CHM 123L or CHM 1220L.	4		
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	CHM 3140L Organic Chemistry Laboratory I [FSpSu]	Prereq: C- or better in CHM 3140 or CHM 315; CHM 3140 can be concurrent.	1		
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	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		
GE Area A1: Oral Communication [FSP]		3	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		
<b>Semester Total Units</b>		<b>14</b>	<b>Semester Total Units</b>		<b>14</b>		

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Year 3	PHY 1220 Physics of Electromagnetism, Circuits, and Light [FSp]	Prereq: C- or better in PHY 122, PHY 122B, PHY 1210, or PHY 1210B. Coreq: PHY 1220L.	3	AHS 3305 Parasitology and Animal Diseases	or BIO 2060 Basic Microbiology	3	<i>Graduation Writing Test must be taken before completion of 75 units.</i>
	PHY 1210L Physics of Motion, Fluids, and Heat Laboratory (B3) [FSp]	Coreq: PHY 1210.	1	AHS 3305L Parasitology and Animal Diseases Laboratory	or BIO 2060L Basic Microbiology Laboratory	1	
	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	Major Required	AVS 3311 Animal Industry and Society (B5) or or AVS 3333 Canine and Feline Compendium (B5)	3	
	GE Area A3: Critical Thinking [FSp]		3	GE Area E: Lifelong Learning and Self-Development [FSp]		3	
	CHM 3150 Organic Chemistry II [FSpSu]	Prereq: C- or better in CHM 3140, CHM 315, or CHM 315B.	3	GE Area D2: U.S. Constitution and California Government [FSp]		3	
	CHM 3150L Organic Chemistry Laboratory II [FSpSu]	Prereq: C- or better in CHM 3140L or CHM 318L; and CHM 316 or CHM 3150.	1	GE Area C1: Visual and Performing Arts [FSp]		3	
	<i>Take the Graduation Writing Test</i>						
<b>Semester Total Units</b>		<b>14</b>	<b>Semester Total Units</b>		<b>16</b>		

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Year 4	CHM 3210 Elements of Biochemistry [FSpSu]	Prereq: C- or better in CHM 1220 or CHM 122; C- or better in CHM 1220L or CHM 122L; C- or better in CHM 315, CHM 201, CHM 2010, or CHM 3150; and C- or better in CHM 317L, CHM 250L, CHM 3140L, or CHM 2010L.	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	
	GE Area D1: U.S. History American Ideals [FSp]		3	GE Area D4: Social Science Synthesis [FSp]	or GE Area C3: Arts and Humanities Synthesis	3	
	GE Area C2: Literature, Modern Languages, Philosophy and Civilization [FSp]		3	AVS 4430 Biotechnology Applications in Animal Science [FSp]	Prereq: AVS 305 or AVS 3305; and Junior or Senior Standing. Coreq: AVS 4430L.	3	
	GE Area C1 or GE Area C2 [FSp]	Select either C1: Visual and Performing Arts or C2: Literature, Modern Languages, Philosophy and Civilization course	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	
	Unrestricted Elective		3	AVS 4610 Senior Seminar [FSp]	Prereq: Senior Standing.	1	
			0	Unrestricted Elective		3	
	<i>File an application to graduate</i>						
<b>Semester Total Units</b>		<b>15</b>	<b>Semester Total Units</b>		<b>14</b>		
					<b>Total Units</b>	<b>120</b>	