

**TENTATIVE COURSE OFFERINGS FOR ASCI-BS PROGRAM**

Course # Semester	Previously Quarter	Course Title	Units	Semesters				Prerequisites
				F 26	SP 27	F 27	SP 28	
<b>ASCI Major Courses</b>								
ASCI 1100	ASCI 101	Introduction to the Animal Sciences	1	•		•		None
ASCI 1101	-	Principles of Animal Physiology	3	•	•	•	•	None
ASCI 1102	-	Animal Management Systems	3	•	•	•	•	Requires concurrent enrollment in ASCI 1103
ASCI 1103	-	Animal Science Laboratory	1	•	•	•	•	Requires concurrent enrollment in ASCI 1102
ASCI 2210	ASCI 211	Meat Science	2	•	•	•	•	None
ASCI 2211	-	Meat Science Laboratory	1	•	•	•	•	Requires concurrent enrollment in ASCI 2210
ASCI 2220	ASCI 220	Animal Nutrition and Feeding	3	•	•	•	•	ASCI 1101 or ASCI 112; and BIO 1151 or BIO 161; and CHEM 1120 or CHEM 127
ASCI 2229	ASCI 229	Anatomy and Physiology of Farm Animals	3	•	•	•	•	ASCI 1101 or ASCI 112; and BIO 1151 or BIO 161
ASCI 3302	ASCI 302	Animal Genetics	3	•	•	•	•	BIO 1151 or BIO 161; and STAT 1110 or STAT 218
ASCI 3304	ASCI 304	Animal Genomics	2	•	•	•	•	ASCI 3302 or ASCI 302
ASCI 3340	ASCI 340	Animal Welfare and Ethics	3	•	•	•	•	Junior standing
ASCI 3351	ASCI 351	Mechanisms of Hormone Action and Reproductive Physiology	3	•	•	•	•	ASCI 2229 or ASCI 229
ASCI 3363	ASCI 363	Professional Development in the Animal Sciences	1	•	•	•	•	Junior standing
ASCI 4479	ASCI 479	Sr. Project – Current Topics in Animal Science	2	•	•	•	•	Senior standing and ASCI 3363 or ASCI 363
<b>Animal Management Elective Courses</b>								
ASCI 2230	ASCI 221 & DSCI 230	Beef and Dairy Cattle Management	3	•	•	•	•	ASCI 1101 and ASCI 1102 and ASCI 1103; or ASCI 112
ASCI 2231	ASCI 222 & ASCI 225	Swine and Poultry Management	3	•	•	•	•	ASCI 1101 and ASCI 1102 and ASCI 1103; or ASCI 112
ASCI 2232	ASCI 223 & ASCI 239	Small Ruminant and Range Management	3	•	•	•	•	ASCI 1101 and ASCI 1102 and ASCI 1103; or ASCI 112
ASCI 2233	ASCI 224 & ASCI 227	Companion Animal Management	3	•	•	•	•	ASCI 1101 and ASCI 1102 and ASCI 1103; or ASCI 112
<b>ASCI- Upper-Division Electives</b>								
<b>Biochemistry Elective Area</b>								
ASCI 3319	ASCI 319	Physiological Chemistry of Animals	3	•	•	•	•	Junior standing; Completion of GE Area 4-2 (GE A-B4) with C- or better; and one of the following: ASCI 2229, ASCI 229, BIO 2231, BIO 231, BIO 3352, or BIO 361; and one of the following: CHEM 212, CHEM 216, CHEM 2242, CHEM 312, or CHEM 2240
CHEM 3350	CHEM 314	Biochemistry: Fundamentals and Application	4	see Chemistry Department				
CHEM 3352	CHEM 369	Biochemical Principles	4	see Chemistry Department				
<b>Nutrition Elective Area</b>								
ASCI 3346	ASCI 346	Equine Nutrition	3		•		•	ASCI 2220 or ASCI 220
ASCI 3350	ASCI 350	Nonruminant Nutrition	3	•		•		ASCI 2220 or ASCI 220 with a grade of C- or better
ASCI 3355	ASCI 355	Ruminant Nutrition	3	•	•	•	•	ASCI 2220 or ASCI 220; and STAT 218 or STAT 1110
ASCI 4419	ASCI 419	Animal Metabolism and Nutritional Modeling	3		•		•	ASCI 2220 or ASCI 220 with a C- or better; and ASCI 319, ASCI 3319, CHEM 319, CHEM 3350, CHEM 369, or CHEM 3352
<b>Physiology Elective Area</b>								
ASCI 4403	ASCI 403	Applied Biotechnology in Animal Science	4					BIO 1151 or BIO 161; recommend BIO 3312 or BIO 302 or BIO 3351 or BIO 351 or ASCI 3302 or ASCI 302
ASCI 4405	ASCI 405	Domestic Livestock Endocrinology	3					ASCI 2229 or ASCI 229 or BIO 3352 or BIO 361
ASCI 4406	ASCI 406	Animal Embryology and Assisted Reproduction	3	•				ASCI 2229 or ASCI 229; and ASCI 3351 or ASCI 351
ASCI 4438	ASCI 438	Systemic Animal Physiology	4	•	•	•	•	ASCI 2229 or ASCI 229; and ASCI 319, ASCI 3319, CHEM 314, CHEM 3350, CHEM 369, or CHEM 3352
ASCI 4440	ASCI 440	Immunology and Diseases of Animals	3		•		•	ASCI 2229 or ASCI 229
ASCI 4455	ASCI 455	Equine Reproduction	3		•		•	ASCI 2233 or ASCI 224; and ASCI 3351 or ASCI 351
DSCI 3321	DSCI 321	Lactation Physiology	3	•		•		ASCI 1101 or ASCI 112; and ASCI 2220 or ASCI 220; and DSCI 2230 or DSCI 230 or ASCI 2230
DSCI 3330	DSCI 330	Dairy Cattle Reproductive Management and AI	3					DSCI 2230 or DSCI 230 or ASCI 2229 or ASCI 229
<b>Additional ASCI &amp; DSCI Approved Electives</b>								
ASCI 3303	ASCI 203	Animal Parasitology	3	•		•		ASCI 2229 or ASCI 229
ASCI 3310	ASCI 310	Technical Veterinary Skills	3	•	•	•	•	ASCI 2229 or ASCI 229
ASCI 3311	ASCI 311	Advanced Beef Cattle Systems Management	3				•	ASCI 2230 or ASCI 221
ASCI 3312	ASCI 312	Production Medicine	2	•		•		ASCI 2229 or ASCI 229; one of the following: ASCI 221, ASCI 2001, ASCI 2003, ASCI 2004, ASCI 2006, ASCI 2230, ASCI 4002, ASCI 4003, ASCI 4005, ASCI 4006, or DSCI 230; and one of the following: ASCI 222, ASCI 223, ASCI 224, ASCI 225, ASCI 227, ASCI 2231, ASCI 2232, or ASCI 2233
ASCI 3321	ASCI 321	Zoonoses and Veterinary Public Health Concerns	3		•		•	BIO 1151 or BIO 161
ASCI 3347	ASCI 347	Equine Exercise Physiology	2					ASCI 2229 or ASCI 229; and ASCI 2233 or ASCI 224
ASCI 3360	ASCI 360	Holistic Management	3		•		tbd	Junior standing; and GE Area A; and GE Areas B1 through B3; and GE Area B4 with C- or better
ASCI 3366	ASCI 366	Veterinary Pharmacology	2					ASCI 2229 or ASCI 229; and one of the following: CHEM 216, CHEM 312, CHEM 2240, or CHEM 2242
ASCI 3370	ASCI 370	Rangeland Improvements	2				•	ASCI 2239 or ASCI 239; and ASCI 2232
ASCI 3372	ASCI 372	California Rangeland & Ranch Resource Management	3		•			ASCI 2232 or ASCI 2239 or ASCI 239
ASCI 4407	ASCI 407	Assisted Reproduction Technologies Laboratory	2		•		•	ASCI 2229 or ASCI 229; and ASCI 3351 or ASCI 351; and ASCI 4406 or ASCI 406
ASCI 4410	ASCI 410	Applied Animal Behavior Science	3		•		•	ASCI 2229 or ASCI 229; and Junior or Graduate Standing
ASCI 4415	ASCI 415	HACCP for Meat and Poultry Operations	3		•	•		ASCI 2210 or ASCI 211 or FDSC 3330 or Graduate Standing
ASCI 4425	ASCI 425	Meat Industry Study Tour	1		•		•	ASCI 2210 or ASCI 211 or Graduate Standing; *4-day industry tour occurs during Winter Break
ASCI 4460	ASCI 460	Rangeland Assessment and Planning	3		•			ASCI 2232 or ASCI 2239 or ASCI 239
ASCI 4484	ASCI 484	Poultry Meat and Egg Production and Processing	4		•		•	ASCI 2210 or ASCI 211 or ASCI 2231
ASCI 5520	ASCI 520	Comparative Animal Nutrition	3					Graduate Standing
ASCI 5581	ASCI 581	Graduate Seminar in Animal Science	1	•		•		Graduate Standing
DSCI 3344	DSCI 344	Dairy Microbiology	3			•		DSCI 2229 or DSCI 229 or FDSC 3330 or FSN 330; and STAT 218 or STAT 1110

DSCI 3388	DSCI 388	Dairy Farmstead Operations: Cow to Cheddar	3	•	•	•	•	Junior Standing; completion of GE Area 1 (A), GE Area 5B (B2), and GE Area 2 (B4) with a grade of C- or better
DSCI 4401	DSCI 401	Physical and Chemical Properties of Dairy Products	3	•			•	CHEM 124, CHEM 1120, or Graduate Standing; recommend CHEM 312 or CHEM 2240; and CHEM 314 or CHEM 3350
DSCI 4402	DSCI 402	Quality Assurance and Control of Dairy Products	3		•		•	STAT 218, STAT 1110, or Graduate Standing; recommend DSCI 3344 or DSCI 444 or MCRO 4421 or MCRO 421
DSCI 4410	DSCI 410	Dairy Nutrition	3					ASCI 3355 or ASCI 355; and STAT 218 or STAT 1110
DSCI 4412	DSCI 412	Dairy Farm Consultation	3		•		•	Requires concurrent enrollment in DSCI 4432 or DSC 432
DSCI 4422	DSCI 422	Breeding and Genetics of Dairy Cattle	3		•		•	ASCI 3302 or ASCI 302
DSCI 4432	DSCI 432	Advanced Dairy Herd Management	4				•	DSCI 2230 or DSCI 230

**ASCI & DSCI Lower-Division Electives (Count toward Free-electives for ASCI-BS Program)**

ASCI 1120	ASCI 265	Equine Handling & Training	2	•			•	Consent of instructor
ASCI 1121	ASCI 214	Introductory Equitation	2	•	•	•	•	Consent of instructor
ASCI 1122	ASCI 344	Intermediate Equitation	2	•	•	•	•	Consent of instructor. Recommended: ASCI 214 or ASCI 1121
ASCI 2123	ASCI 345	Advanced Equitation and Colt Starting	3	•			•	ASCI 1122 or ASCI 344; and consent of instructor
ASCI 1112	ASCI 112	Principles of Animal Science	3	•	•	•	•	None (GE) ***For Non-ASCI majors only***
ASCI 2215	ASCI 215	Safe Handling of Animal-Derived Foods	4		•		•	None (GE)
ASCI 2226	ASCI 226	Livestock Evaluation	2		•		•	Recommended: ASCI 112 or ASCI 1102
ASCI 2239	ASCI 239	Principles of Range Management	3					None
DSCI 2202	DSCI 202	Dairy Promotion and Marketing	3	•			•	DSCI 2229 or DSCI 229
DSCI 2229	DSCI 229	General Dairy Manufacturing	4	•	•	•	•	None
DSCI 2230	DSCI 230	General Dairy Husbandry	3				•	None

**Animal Science Enterprise Experiences**

**Introductory Enterprises**

ASCI 2001	ASCI 290	Beef Cattle Calving (7.5 weeks)	1				•	Recommended: ASCI 2230
ASCI 2002	ASCI 290	Broiler production	2		•		•	Recommended: ASCI 2231
ASCI 2003	ASCI 290	Bull Test	2		•		•	Recommended: ASCI 2230
ASCI 2004	ASCI 290	Dairy Calving (7.5 weeks)	1	•	•	•	•	Consent of instructor
ASCI 2005	ASCI 290	Dairy Fit & Show (7.5 weeks)	1		•		•	None
ASCI 2006	ASCI 290	Dairy Herd Evaluation	2		•		•	Consent of instructor
ASCI 2007	ASCI 290	Dairy Products Evaluation	1	•	•		•	None
ASCI 2008	ASCI 290	Equine Care (7.5 weeks)	1	•	•	•	•	Consent of instructor
ASCI 2009	ASCI 290	Foaling	2		•		•	Consent of instructor. Recommended: ASCI 2008
ASCI 2010	ASCI 290	Lambing (7.5 weeks)	1		•		•	Consent of instructor
ASCI 2011	ASCI 290	Performance Horse Development	3	•			•	ASCI 2123 or ASCI 345; and consent of instructor
ASCI 2012	ASCI 290	Reptile Husbandry (7.5 weeks:)	1	•	•	•	•	Consent of instructor
ASCI 2013	ASCI 290	Sausage Production	2	•	•	•	•	None
ASCI 2014	ASCI 290	Swine	1	•	•	•	•	None
ASCI 2015	ASCI 290	Targeted Grazing	1	•	•	•	•	Recommended: ASCI 2232
ASCI 2016	ASCI 290	Veterinary Clinic Operations (7.5 weeks)	1	•	•	•	•	None
ASCI 2017	ASCI 290	Western Bonanza (7.5 weeks:First Only)	1		•		•	None

**Advanced Enterprises**

ASCI 4001	ASCI 490	Artificial Insemination of Beef Cattle (7.5 weeks)	1	•			•	One of the following: DSCI 3330 or DSCI 330 or ASCI 3351 or ASCI 351
ASCI 4002	ASCI 490	Bull Test Management	2		•		•	ASCI 2003
ASCI 4003	ASCI 490	Bull Test Sale Implementation (7.5 weeks)	1	•			•	ASCI 4002
ASCI 4004	ASCI 490	Equine Mustang Management	2	•			•	Consent of instructor
ASCI 4005	ASCI 490	Escuela I	1	•			•	ASCI 2230
ASCI 4006	ASCI 490	Escuela II	1		•		•	ASCI 2230
ASCI 4007	ASCI 490	Horse and Mule Packing	1		•		•	Consent of instructor
ASCI 4008	ASCI 490	Livestock Event Planning	2	•			•	ASCI 212 or ASCI 2017; and consent of instructor
ASCI 4009	ASCI 490	Livestock Event Implementation (7.5 weeks: First Only)	1		•		•	ASCI 412 or ASCI 4008
ASCI 4010	ASCI 490	Livestock Judging	1	•			•	Consent of instructor
ASCI 4011	ASCI 490	Marine Mammal Health	3		•		•	Consent of instructor
ASCI 4012	ASCI 490	Performance Horse Production	3		•		•	ASCI 2011 and consent of instructor
ASCI 4013	ASCI 490	Strategic Equine Sale Event Planning	3	•			•	ASCI 4012 and consent of instructor
ASCI 4014	ASCI 490	Strategic Equine Sale Event Implementation	3		•		•	ASCI 4013 and consent of instructor
ASCI 4015	ASCI 490	Veterinary Community Service	2		•		•	ASCI 2016 and consent of instructor