

Animal Science - TENTATIVE COURSE OFFERINGS 2020-2022

Course #	Course title	Units	F 20	W 21	Sp 21	F 21	W 22	Sp 22	Prerequisites
ASCI 101	Introduction to the Animal Sciences	2	•			•			None
ASCI 112	Principles of Animal Science	4	•	•	•	•	•	•	None
ASCI 211	Meat Science	4	•	•	•	•	•	•	None
ASCI 212/412	Livestock Show Mgmt/Adv. Livestock Event Plan	3		•			•		None/ ASCI 212, AGB 314 and consent of instructor
ASCI 214	Equine Management	2	•	•	•	•	•	•	Consent of instructor
ASCI 220	Introductory Animal Nutrition and Feeding	4	•	•	•	•	•	•	BIO 111 or BIO 161; and CHEM 127
ASCI 221	Introduction to Beef Production	4	•		•	•		•	None
ASCI 222	Systems of Swine Production	4	•	•	•	•	•	•	None
ASCI 223	Systems of Small Ruminant Management	4		•	•		•	•	None
ASCI 224	Equine Science	4	•	•	•	•	•	•	None
ASCI 225	Introduction to Poultry Management	4	•	•	•	•	•	•	None
ASCI 226	Livestock Evaluation	3						•	None
ASCI 227	Companion Animal Science	4	•			•			None
ASCI 229	Anatomy and Physiology of Farm Animals	4	•	•	•	•	•	•	BIO 111 or BIO 161
ASCI 239	Principles of Range Management	4	•		•	•		•	None
ASCI 265	Equine Behavior and Training	3	•			•			None
ASCI 304	Animal Genomics	3		•	•		•	•	BIO 302 or BIO 303 or BIO 351
ASCI 310	Technical Veterinary Skills	4				•	•	•	ASCI 229
ASCI 311	Advanced Beef Cattle System Management	4		•			•		ASCI 221
ASCI 312	Production Medicine	3						•	ASCI 221 or 223; 225 or 222; 224 or 227; and ASCI 229
ASCI 315	Equine Biomechanics	4	•			•			ASCI 224
ASCI 320	Physiological Chemistry of Animals	4	•	•			•	•	ASCI 229 and one of the following: CHEM 212/216/312/316
ASCI 321	Zoonoses & Veterinary Public Health Concerns	4					•		BIO 111 or BIO 161
ASCI 325	Egg Production, Processing and Distribution	4			•			•	ASCI 225
ASCI 326	Advanced Livestock Evaluation	2							ASCI 112 and ASCI 226
ASCI 330	Poultry Meat Production and Processing	4		•			•		ASCI 225
ASCI 333	Equine Reproduction	5			•			•	ASCI 224
ASCI 340	Animal Welfare and Ethics	4		•	•		•	•	BIO 111 or 161; and Junior standing
ASCI 342	Poultry Business Management	4		•			•		ASCI 225
ASCI 344	Equine and Human Communication	3		•	•		•	•	ASCI 214
ASCI 345	Equine Behavior Modification	5	•	•		•	•		ASCI 344 and consent of instructor
ASCI 346	Equine Nutrition	4			•			•	ASCI 220 with a grade of C- or better and ASCI 224
ASCI 347	Equine Exercise Physiology	3			•				ASCI 224
ASCI 350	Nonruminant Nutrition	4		•			•		ASCI 220 with a grade of C- or better or consent of instructor
ASCI 351	Reproductive Physiology	4	•	•	•	•	•	•	ASCI 229
ASCI 355	Ruminant Nutrition	4		•			•		ASCI 320 or CHEM 313 or 371 & ASCI 220 with a grade of C- or better
ASCI 360	Holistic Management	4	•	•	•	•	•	•	JR standing and completion of GE Area A, B1, and one of B2, B3 and B4
ASCI 363	Undergraduate Seminar	2	•	•	•	•	•	•	Junior standing
ASCI 366	Veterinary Pharmacology	4		•					CHEM 111 or 127; and ASCI 229
ASCI 370	Rangeland Improvements	3		•			•		ASCI 239 or 329
ASCI 372	CA Rangelands & Ranch Resource Mgmt	3			•			•	ASCI 239 or 329
ASCI 403	Applied Biotechnology in Animal Science	5			•	•			BIO 161 & 162, & upper division genetics course
ASCI 405	Domestic Livestock Endocrinology	4	•			•			ASCI 229 or BIO 361
ASCI 406	Applied Animal Embryology & Assisted. Repro	4	•						ASCI 229 and ASCI 351
ASCI 407	Assisted Repro Tech of Gametes & Embryo Lab	3							ASCI 229, 351 & 406. Rec: ASCI 320 or CHEM 371 & 372
ASCI 410	Applied Animal Behavior Science	4		•	•		•	•	BIO 111 or 161; ASCI 229 or BIO 162
ASCI 413	Advanced Livestock Event Management	1	•		•	•		•	ASCI 412 and consent of instructor
ASCI 415	HACCP for Meat and Poultry Operations	3		•	•		•	•	ASCI 211
ASCI 420	Animal Metabolism and Nutrition	3				•			ASCI 220 with grade of C- or better; ASCI 320 or CHEM 313 or 371
ASCI 425	Meat Industry Study Tour	2					•		ASCI 211
ASCI 438	Systemic Animal Physiology	4	•		•	•		•	ASCI 229, CHEM 313 or 371, or ASCI 320
ASCI 440	Immunology and Diseases of Animals	4			•			•	ASCI 229. Rec.: ASCI 320, CHEM 371 or equivalent
ASCI 450	Computer Applications in Animal Science	4					•		Junior standing
ASCI 455	Advanced Equine Reproductive Technologies	4						•	ASCI 333 and 351. Recommended: ASCI 405 and 406
ASCI 460	Rangeland Assessment and Planning	4		•					ASCI 329
ASCI 465	Applied Practices for Monitoring CA Rangelands	4							SUMMER only. ASCI 239 or 329 and consent of instructor
ASCI 479	Sr. Project – Current Topics in Animal Science	3	•		•	•		•	Senior standing and ASCI 363
ASCI 484	Processed Meat Products	4	•			•			ASCI 211, FSN 204, or graduate standing
ASCI 520	Comparative Animal Nutrition	4	•						ASCI 320 or CHEM 313 or 371; and one of the following: ASCI 346/350/355/DSCI 301, or consent of instructor
ASCI 581	Graduate Seminar in Animal Science	1	•	•	•	•	•	•	Graduate standing and consent of instructor

Revised: 10/06/2020

NOTE: ASCI 290, 339, 477, 478, 490, 500 and 539 are taught each quarter.

Dairy Science - 2020-2022 TENTATIVE COURSE OFFERINGS

DSCI	Course title	Units	F20	W21	Sp 21	F21	W 22	Sp 22	Prerequisites
102	Dairy Operations and Safety	2	•		•	•		•	None
202	Dairy Promotion and Marketing	4	•			•			DSCI 230 and DSCI 231
230	General Dairy Husbandry	4	•	•	•	•	•	•	None
231	General Dairy Manufacturing	4	•		•	•		•	None
233	Milk Processing and Inspection	4		•			•		DSCI 231 or FSN 125 or FSN 230
241	Dairy Cattle Breeds, Fitting, and Showing	4			•			•	DSCI 230
301	Dairy Cattle Nutrition	4	•		•	•		•	ASCI 220 with grade of C- or better or consent of instructor
321	Lactation Physiology	4	•			•			ASCI 220, DSCI 230 and BIO 111 or 161
330	Artificial Insemination and Embryo Biotech	4	•			•			DSCI 230 or ASCI 229
333	Dairy Animal Health, Safety & Applied Tech	4		•			•		ASCI 220 and DSCI 230
339	Internship in Animal/Dairy Science	1-12	•	•	•	•	•	•	Now offered as ASCI 339. CR/NC Consent of Instructor
401	Physical Chemical Properties Dairy Products	4	•			•			Junior standing; Recommend CHEM 312
402	Quality Assurance Control of Dairy Products	4			•			•	DSCI 444 or MCRO 421
410	Advanced Dairy Nutrition	4	•			•			ASCI 229; and ASCI 355 or DSCI 301
412	Dairy Farm Consultation	4		•			•		DSCI 333
422	Breeding and Genetics of Dairy Cattle	4			•			•	DSCI 241, BIO 111 or higher, STAT 130 or higher
432	Advanced Dairy Herd Management	4		•			•		DSCI 333
433	Dairy Plant Management and Equipment	4				•			DSCI 233 or FSN 204
434	Cheese and Fermented Dairy Foods	4					•		DSCI 231; MCRO 221 or 224; and STAT 218 Recommended CHEM 313
435	Concentration and Fractionation Technology	4						•	DSCI 233 or FSN 204
444	Dairy Microbiology	4	•			•			DSCI 233; MCRO 221 or 224; and STAT 130 or 218

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