

CTE PROGRAM OF STUDY: Associate of Science for Transfer, Animal Science

**Industry Sector: Agriculture and Natural Resources
Career Pathway: Animal Science**



Levels	Grade	CTE Courses	English Language Arts	Math	Social Science	Science	Other Required Courses or Recommended Electives	Dual and/or Concurrent Enrollment	Articulated Courses (College Credit for HS Classes)	
Secondary	9	Ag I (Ag Earth Science, Ag Science I or Ag Biology) <i>CBEDS 4070</i>	English	Math (Algebra I Recommended)		Physical Science (satisfied by Ag Earth Science)	Physical Education			
	Recommended activities: Participate in FFA Activities, establish an SAE project, keep an updated record book, career exploration activities, participate in a career development events, visit AgCN (ffa.org)									
	10	Ag II (Ag Science II or Ag Biology) <i>CBEDS 4070</i>	English	Math (Geometry Recommended)	World History	Biological Science (satisfied by Ag Biology)	Physical Education			
	Recommended activities: Participate in FFA Activities, maintain SAE project, keep an updated record book, career exploration activities, participate in a career development events, participate in AgCN career exploration activities, explore college majors and campuses									
Senior	11	Animal Science (Veterinary Science, Livestock Skills) <i>CBEDS 4020</i>	English	Math (Algebra II or Trigonometry Recommended)	US History	Chemistry (Recommended)	Foreign Language I	AG-AS108L: Beef Science AG-AS124L: Small Ruminant Science		
	Recommended activities: Participate in FFA Activities, maintain SAE project, keep an updated record book, career exploration activities, participate in a career development events, participate in AgCN career exploration activities, take community college placement exams in Math and English, job shadow and mentoring activities, volunteer in the community									
Senior	12	Advanced Animal Science (Animal Physiology, Work Experience) <i>CBEDS 4020</i>	English (Recommended)	Math (PreCalculus Recommended)	Government (semester) Economics (satisfied by Ag Economics)		Floral Design (may satisfy fine arts graduation requirement)	Ag Economics <i>CBEDS 4040</i>	AG-AS132: Livestock Feeding and Nutrition MATH 155: Precalculus (recommended)	AG-AS 104: Intro to Animal Science
	Recommended activities: Participate in FFA Activities, maintain SAE project, keep an updated record book, apply for college scholarships and FAFSA, participate in career development events, participate in AgCN activities, take dual or concurrent enrollment community college courses, job shadow and mentoring activities, volunteer in the community									

This template assumes students have completed high school exit exams and basic skills coursework. Local graduation requirements may vary.

- Legend:**
- ① Course is recommended by industry experts
 - # Course is articulated, see comments below.
 - ★ Course may be taken via concurrent or dual enrollment
 - ② Indicates a course that may satisfy multiple requirements

Levels	Grade	AS-T Courses			Additional and Optional CTE Courses			General Education Requirements			Occupations Relating to this Pathway	
		CHEM101: Intro to Chemistry OR CHEM 110: General Chemistry for Science Majors I, with Lab	...For completion of Local AS/AA Degree (total Units)	...For completion of Achievement Certificate (total units)	...For completion of Skills Certificate (total Units)	Area A English Language Communication & Critical Thinking (9 units)	Area B- Scientific Study & Quantitative Reasoning with 1 lab (9 units)	Area C Arts & Humanities (9 units)	Careers requiring a high school diploma or equivalent	Careers requiring a BA / BS degree		
POST SECONDARY	13	MATH 110: Introduction to Statistics AG-AS 104: Intro to Animal Science				English composition	Mathematics	Arts	Retail Sales Farm Technician Skilled Laborer Ag Equipment Operator Ag Entrepreneur/Small Business Owner Herdsman Animal Shelter Attendant	Sales Representative Ag Researcher Marketing Specialist Business Manager USDA Inspector Farm Advisor/Extension Specialist Nutritionist Animal Control Officer		
	14	AG-AB124: Agriculture Economics OR ECON 202: Principles of Macroeconomics				Oral Communication	Physical Science	Humanities				
		Select one from: AG-AS132: Livestock Feeding and Nutrition AG-AS 136: Animal Health and Sanitation CHEM150: Organic Chemistry for Science Majors I, with Lab				Critical Thinking	Life Sciences	Arts or Humanities (recommended foreign language)	Careers requiring some post secondary			
		Select one from: AG-AS 108L: Beef Cattle Science AG-AS112L: Dairy Cattle Science AG-AS116L: Equine Science AG-AS 120L: Poultry Science AG-AS124L: Small Ruminant Science AG-AS128L: Swine Science				Area D Social Sciences (9units)	Area E Lifelong Learning & Self Development (3 units)	When course requirements are counted for credit in more than one area, i.e. double counted, students must complete additional transferrable units to result in a cumulative total of 60 units.	Artificial Insemination Technician Animal Trainer Pet Groomer Butcher (with certification)	Careers requiring a BA/BS + (beyond the scope of this template)		
15	Suggested Majors: Animal Science, Agriculture Science/Education,								Careers requiring 2 year degree			
16	Industry recognized certifications, Credentials, licenses, or apprenticeships related to this pathway								Brand Inspector (with certification) Farm Supervisor Livestock Technician Office Manager Lab Animal Technician Livestock Equipment Technician Veterinary Assistant (with additional courses) Veterinary Technician (with additional courses)	Animal Research Scientist Ag Teacher Geneticist Veterinarian		
<p>Comments: • Prerequisite requirements may vary by school and may alter the sequence of courses above.</p> <p>• This template is based upon requirements for CSU transfer pattern and assumes that all basic skills (remedial) coursework is completed. Courses with an emphasis in Business are recommended when they are CSU transferrable.</p> <p>• Where there are course numbers identified, the course number references the CID course. Course content for these courses may be found at www.c-id.net/descriptors. Per Title 5, students may only receive credit for articulated high school work upon completion of a credit by exam mechanism that ensures that the objectives of the community college course have been met. Completion of an articulated course in high school does not guarantee receipt of credit at the community college.</p>												

For students interested in attending a UC Campus, be aware that requirements meeting the CSU GE pattern may vary from IGETC GE requirements. Students are encouraged to consult college counselor for clarification.

