

Animal, Plant and Environmental Systems

Grade/Subject (credits)	Language Arts (4.0)	Math (3.0)	Science (3.0)	Social Studies (3.0)	Other Requirements (PE, Fine Arts)	Pathway Courses	Other Electives	Total Credits
9th (7.0)	<input type="checkbox"/> English 9 or Adv. English 9 (1.0)	<input type="checkbox"/> Geometry, Adv. Geometry, Algebra, Introduction to Algebra or Adv. Algebra II (1.0)	<input type="checkbox"/> Biology or Adv. Biology (1.0)		<input type="checkbox"/> Health 9 (.5) <input type="checkbox"/> Fine Arts or PE (.5)	<input type="checkbox"/> Intro to Animal, Plant and Environmental Systems(.5)	<input type="checkbox"/> Electives (2.5)	7.0
10th (7.0)	<input type="checkbox"/> English 10 or Adv. English 10 (.5) <input type="checkbox"/> Appreciation of Literature or Epic Tradition (.5)	<input type="checkbox"/> Algebra II, Adv. Algebra II, Geometry, or Other Math Course (1.0)*	<input type="checkbox"/> Chemistry, Physics or Other Science Elective (1.0)	<input type="checkbox"/> Modern World History or AP European History (1.0)	<input type="checkbox"/> Fine Arts or PE (1.0)	<input type="checkbox"/> Plant and Animal Science (1.0)	<input type="checkbox"/> Electives (1.0)	7.0
11th (7.0)	<input type="checkbox"/> American Literature I or Adv. American Literature (.5) <input type="checkbox"/> English Elective (.5)	<input type="checkbox"/> Analysis, Pre-Calculus or Other Math Course (1.0)	<input type="checkbox"/> Physics or Other Science Elective (1.0)	<input type="checkbox"/> US History I & II or AP US History I & II (1.0)		<i>Choose 1.0 Credit from above <u>or</u> from the following:</i> <input type="checkbox"/> Adv. Plant Science (.5) <input type="checkbox"/> Adv. Animal Science (.5) <input type="checkbox"/> Ecology and Environmental Science (1.0) <input type="checkbox"/> AP Environmental Science (1.0)	<input type="checkbox"/> Electives (2.0)	7.0
12th (7.0)	<input type="checkbox"/> English Elective (1.0)*			<input type="checkbox"/> US Government and Social Studies Elective (1.0) OR <input type="checkbox"/> AP Government & Politics (1.0)		<i>Choose 2.0 Credits from above <u>or</u> from the following:</i> <input type="checkbox"/> Vet Science (1.0) <input type="checkbox"/> Floriculture and Greenhouse (1.0) <input type="checkbox"/> Project Management and Resource Scheduling—Bio (.5)	<input type="checkbox"/> Electives (3.0)	7.0

Related Careers

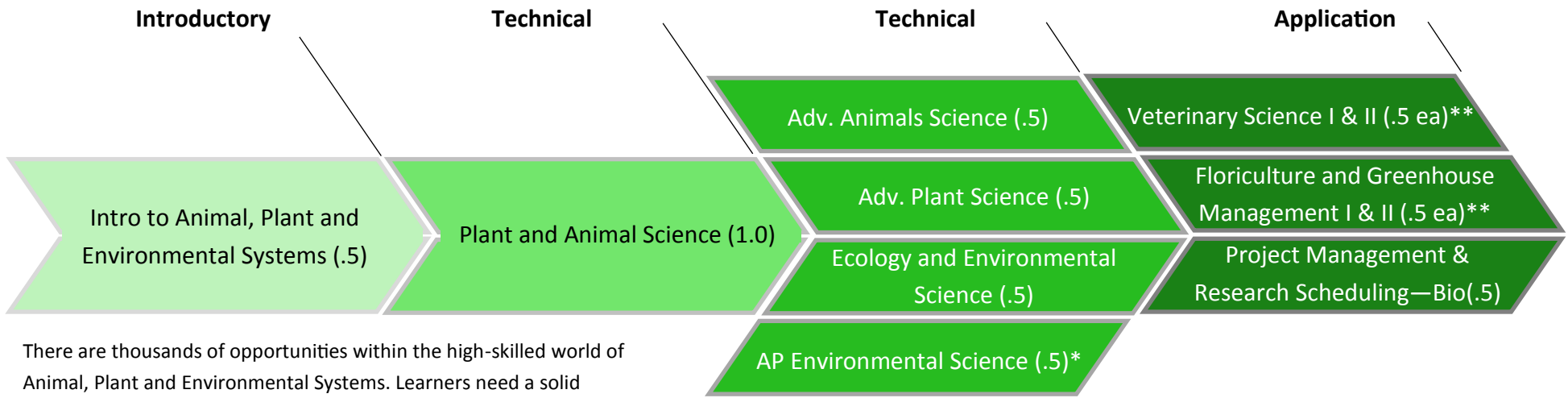
- Agricultural Educator, Engineer or Technician
- Agronomist
- Animal Breeder, Caretaker or Trainer
- Arborist
- Beekeeper
- Biologist, Biological Tech
- Botanist
- Brewmaster/Winemaker
- Butcher
- Cartographer
- Civil Engineer
- Conservation Officer
- Dietitian
- Ecologist
- Environmental Consultant or Engineer
- Explosives Specialist
- Farmer or Gardner
- Fisher
- Food Inspector or Scientist
- Forester, Forest Fighter
- Geneticist
- Geologist
- GIS Specialist
- Horticulturalist
- Hydrologist
- Land Surveyor
- Meteorologist
- Park Warden, Ranger
- Petroleum Engineer
- Veterinarian or Veterinary Tech
- Waste and Water Treatment
- Winemaker

Related Degrees

- Associate of Applied Science in Agriculture (Cloud County Community College)
- Bachelor of Arts in Environmental Studies (University of Kansas)
- Bachelor of Science in Environmental Studies (University of Kansas)

Other degree programs are available. Please see your teacher or counselor for more information.

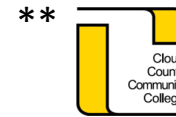
Animal, Plant and Environmental Systems Pathway



There are thousands of opportunities within the high-skilled world of Animal, Plant and Environmental Systems. Learners need a solid background in math, science, communications and technical skills. This diverse pathway prepares learners for careers in the planning, implementation, production, management, processing, and/or marketing of agricultural commodities and services, including food, fiber, wood products, natural resources, horticulture, and other plant and animal products. Additionally, one may pursue scientific research and professional and technical services including laboratory and testing services, and research and development services .



* Students who score a 3 or higher on the AP Environmental Science exam are eligible for 3 credits of EVRN 148—Scientific Principles of Environmental Studies at the University of Kansas.



** Students who complete the Animal or Plant Science pathway (3 credits) and complete Veterinary Science I & II or Floriculture and Greenhouse Management I & II can earn up to 3 credits at Cloud County Community College.

Free State High School

Intro to Animal, Plant and Environmental Systems
 Plant and Animal Science
 Adv. Animal Systems
 Adv. Plant Systems
 Ecology and Environmental Science
 AP Environmental Science
 Veterinary Science I & II
 Floriculture and Greenhouse Management I & II

Lawrence High School

Intro to Animal, Plant and Environmental Systems
 Plant and Animal Science
 Adv. Animal Systems
 Adv. Plant Systems
 Ecology and Environmental Science
 AP Environmental Science
 Veterinary Science I & II
 Floriculture and Greenhouse Management I & II

College & Career Center

Project Management and Resource Scheduling—Bio