



1 Agriculture, Food & Natural Resources



Plan of Study

Sub-pathways: Food Products and Processing Systems Pathway, Plant Systems Pathway, Animal Systems Pathway, Power Structural and Technical Systems Pathway, Natural Resources Systems Pathway, Environmental Service Systems Pathway, Business Systems Pathway

High School	9 th Grade	10 th Grade	11 th Grade	12 th Grade
	English 9	Speech and Writing Experiences	American Literature and Advanced Writing or Guided Writing Projects	Contemporary Literature or Classical Literature or Guided Literature Projects
	Algebra 1	Geometry (or Algebra 2)	Algebra 2 (Pre-Calculus or Discrete Math)	Discrete Math, Pre-Calculus, or AP Stats (or AP Calc)
	Molecular Biology	Chemistry	Environmental Studies, Zoology, Anatomy or Physiology	AP Biology or Genetics
	American Studies II	Contemporary American History or Historical Viewpoints	Geography and Economics	American Government or Psychology
	Lifetime Fitness Education	PE/Health	PE/Health	PE/Health
Computer Applications I				

World Languages: In our global society, taking multiple years of a World Language is highly recommended for all post-secondary endeavors and is a requirement for many colleges.

Related High School Electives: Supplementary materials including the student 'Course Guide' showing elective course offerings that relate to each career cluster are available in the schools and on the district web site at: <http://www.davenport.k12.ia.us/students.asp>

Sample Focused Elective Sequences: With the diverse array of career opportunities available under each career cluster, there is no one right combination of elective course offerings. Students, in conjunction with parents, counselors and other caring adults must determine what is right for them. More details can be found at: http://davenportschools.org/curriculum/ACP/Foc_EI.pdf

Sample Career-Focused Elective Sequences Follow:

Agriculture-Related Careers: Choose at least 3 units from the following: Earth Materials 0.5; Environmental Studies 0.5; Meteorology 0.5; Genetics 0.5; Weather, Climate & Space 0.5; Operating a Small Business 0.5; Principles of Accounting 0.5; Business Law 0.5; Applied Economics 0.5; Foods 0.5

Work in Progress

Post-Secondary	Black Hawk College	Clinton, Muscatine and Scott	Iowa State University
	www.bhc.edu AG Production Animal Science Agricultural Transfer Beef & Swine Production Biological Science Transfer Earth Science Environmental Management Equestrian Science Horse Science Horticulture Science Pre-Veterinary Medicine Sustainable Energy Certificate	<input type="checkbox"/> Farm Management <input type="checkbox"/> Animal Science & Production Specialist <input type="checkbox"/> Plant Production Specialist <input type="checkbox"/> Swine Production Specialist <input type="checkbox"/> Feed & Fertilizer Marketing <input type="checkbox"/> Retail Agribusiness Crop Science <input type="checkbox"/> Retail Agribusiness Feed & Grain <input type="checkbox"/> Retail Lawn Care Sales & Service <input type="checkbox"/> Equestrian Science <input type="checkbox"/> Agriculture <input type="checkbox"/> Horticulture <input type="checkbox"/> Pre-Veterinary <input type="checkbox"/> Welding	http://www.ag.iastate.edu/departments.php Agricultural & Biosystems Engineering Agricultural Education & Studies Agronomy Animal Science Ecology, Evolution & Organismal Biology Entomology Food Science & Human Nutrition Horticulture Natural Resource Ecology & Management Plant Pathology

Post-Secondary	Kirkwood Community College	Indian Hills Community College	University of Northern Iowa
	www.kirkwood.cc.ia.us/programs Agricultural GPS/GIS Technology Agricultural Transfer Agriculture Business Agriculture Production Agricultural Science Diesel Ag Technology Environmental Science/Geology Horse Science Technology Landscape Maintenance Pre-Veterinary Medicine Veterinary Assistant Veterinary Technician Water Environmental Technology	www.indianhills.edu Ethanol Plant Technician Sustainable Agriculture/Entrepreneurship Turf & Greenhouse Management Viticulture Forestry Natural Resources	www.uni.edu Biology: Plant Bioscience Chemistry: Environmental Earth Science Environmental Studies Pre-Veterinary
		Augustana College	Western Illinois University
		www.augustana.edu Biology Environmental Studies Environmental Management & Forestry Geology Veterinary Medicine	http://www.wiu.edu/ies/academic.php Agricultural Business Agricultural Science Agriculture Biology Botany Geology
	University of Iowa	St. Ambrose University	
	http://www.uiowa.edu/~envsci/track_bio.html Biological Sciences Environmental Sciences Geosciences	www.sau.edu Environmental Studies	
Career Enhancement Options	Work-based Learning Options	Short-Term Training Options	
	<input type="checkbox"/> Job-Shadowing: <input type="checkbox"/> Internship/Mentorship: <input type="checkbox"/> On-The-Job Training:	<input type="checkbox"/> Farm Business <input type="checkbox"/> Welding <input type="checkbox"/> Conversational Spanish	

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Parent/Guardian: Please sign and return this document indicating that you are aware of your student's career cluster interest and have reviewed the courses recommended for this particular cluster. These are only recommendations. Students will be able to customize their *Academic Career Plans* to best meet their postsecondary and career goals.

PRINT Student's Name/School

Parent/Guardian's Signature

Date