



Agriculture, Food, and Natural Resources Individual Graduation Plan

This career cluster plan of study is a source of information as you develop your own personal learning plan. This plan lists **EXAMPLES** of suggested coursework. Courses will vary according to the availability in each school district. Plans of study should meet high school graduation requirements as well as entrance requirements for a variety of postsecondary options within this career cluster.

■ Coursework				
Subject	9 th Grade	10 th Grade	11 th Grade	12 th Grade
Language Arts <i>(9 credits)</i>	English 9 Honors English 9 Speech	English 10 Honors English 10	English 11 AP English 11	English 12 AP English 12
Mathematics <i>(8 credits)</i>	Math class (per math dept. recommendation)	Math class (per math dept. recommendation)	Math class (per math dept. recommendation)	Math class (per math dept. recommendation)
Science <i>(6 credits)</i>	Earth Science Honors Earth Science	Biology AP Biology	Animal Science Applied Livestock Management Environmental Science	Plant Science Applied Greenhouse and Nursery Management AP Environmental Science
Social Studies <i>(4 credits)</i>	History 9	US History 10	US History 11 Dual Credit US History 11	American Government Adv. American Government
Additional Requirements	Freshman Transitions Humanities	Health PE	Business Computers PE	Economics
Electives (52 total credits required for graduation)	Intro to Ag Education Introduction to Ag Industry	Intro to Ag Mechanics Welding 1	Welding 2	Occupational and Career Experience Welding 3
■ Extended Learning				
School-Based	FFA Career Research Skills USA	FFA Supervised Ag Experience Career Interviews Skills USA	FFA Higher Ed Day Job Shadowing Skills USA	FFA Service Learning Project Internships Senior Project Skills USA
Community-Based	4-H	Mentorships	Volunteer	Part-Time Employment

Advanced Coursework for Postsecondary Credit

- Plant Science in Agriculture
- Agriculture Management
- Crop Production
- Principles of Animal Science
- Professions in Natural Resources
- Agricultural Activities
- Applied Dairy Nutrition
- Pest Management
- Fundamentals of GIS
- Introduction to GPS
- Applied Animal Nutrition
- Introduction to Agriculture Selling
- Food System Science
- Intro to Ag Education & Extension
- Intro to Precision Agriculture
- Wildland Plant Identification
- Principles of Range Management
- Environmental Law
- General Soils
- Environmental Law
- Plant Nutrition
- Animal Reproduction & Breeding
- Plants Poisonous to Animals
- Forage Crops
- Agricultural Markets
- Agricultural Issues
- Animal Evaluation
- Professional Development in Agriculture
- Livestock Judging
- Animal Anatomy & Physiology