

HOWARDS GROVE HIGH SCHOOL

AGRIBUSINESS, FOOD & NATURAL RESOURCES Career Plan of Study

The production, processing, marketing, distribution, financing, and development of agricultural commodities and resources including food, fiber, wood products, natural resources, horticulture, and other plant and animal products/resources. Pathways include the following: Food Products & Processing; Plants; Animals; Power, Structural & Technical; Natural Resources; Environmental Service; and Agribusiness.

	Entry Level Occupations	Careers with Certification/Associate Degree	Careers with Bachelors, Pre-Professional, or Higher Degree
Sample Occupations	Commercial Fishing; Crop Sprayer; Farm Supply Sales; Farm Worker; Fish Hatchery Worker; Game Refuge Worker; Landscape Laborer; Logger; Nursery Worker; Pet Groomer; Pet Shop Worker; Stable Worker; Vet Hospital Worker	Animal Nutritionist; Crop &/or Animal Farmer; Dairy Herd Manager; Environmental Technician; Farm Implement Mechanic; Florist; Forestry Technician; Genetic Technologist; Greenhouse Manager; Horse Trainer; Horticulturist; Landscape Designer; Quality Food Control Specialist; Turf Manager; Veterinary Technician	Agricultural Sales & Communications; Botanist; Conservation Warden; Environmental Engineer; Food Scientist; Forester; Landscape Architect; Marine Biologist; Soil Geologist; USDA Inspector; Veterinarian; Wildlife Biologist; Zoologist

This plan of study should serve as a guide, along with other career planning materials, as you continue on your career path. Courses listed within this plan are only recommended courses and should be individualized to meet each learner's educational and career goals. All plans should meet high school graduation requirements as well as post-secondary school entrance requirements.

High School Requirements	Grade	English (4 credits total)	Math (2 credits total)	Science (2 credits total)	Social Studies (3 credits total)	Additional Requirements
	9	English 9		Physical Science	Geography	Computer App. OR Info. & Computer Tech. Physical Education Health
	10	Sophomore Composition		Biology	World History	Physical Education Health
	11	Speech & .5 credit (see list below)			U.S. History	Grades 9 - 12 <i>Fine Arts/Humanities:</i> 1 credit from Art, Music, Foreign Language, or Mythology <i>Career & Technical Education:</i> 1 credit from Agribusiness, Business Ed, Family & Consumer Ed, or Tech Ed
	12	English Electives (see list below)			Political Systems & Issues	Grade 11 or 12: P.E. Elective

High School Electives	English Electives	Math Electives	Science Electives	Social Studies Electives	Recommended Electives
	with Speech: American Lit Mythology Mass Media grade 12: Advanced Comp & World Lit; Advanced Comp & Mythology; Lit A & Lit B AP English	Applied Math I Algebra I Geometry Algebra II Intro to Stats Trigonometry Elementary Functions Calculus	Applied Chemistry Chemistry Physics AP Adv. Chemistry AP Adv. Biology	Social Problems	Exploring Plant Agri-Science; Intro to Horticulture; Landscape Horticulture; Greenhouse Mgt; Exploring Animal Agri-Science; Production Animal Science; Companion Animals; Veterinary Science; Wildlife & Natural Resources Ecology; Natural Resources Mgt/Aquaculture; Natural Resource Mgt/Forestry; Future Prep, Agribusiness Co-op; Food Choices; Food for Fitness; Business Economics; Intro to Tech; Applied Tech; Hard Materials; Power Conversions; Tech Engineering; Industrial Design; 2 years World Language

POST SECONDARY PROGRAMS

	Certificates	Technical Diplomas	Associate Degrees
Technical College	Farm Business & Production Management: FVTC, LTC, NWTC Farm Management: MPTC	Dairy Herd Management: LTC Farm Operation: FVTC Horticulture Technician: LTC Water Quality Technician: MPTC	Agri-Business/Science Technology: FVTC Agriculture/Outdoor Power Equipment: FVTC Arboriculture - Urban Forestry Tech: Mid-State Dairy Science: Northcentral Environmental & Pollution Control Tech: MATC Golf Course Management: Southwest WI Horticulture: Chippewa Valley, Gateway Laboratory Animal Technician: Madison Area Landscape Horticulture: MATC, NWTC Natural Resources Technician: FVTC Veterinary Technician: Madison Area, MPTC Wind Energy Technician: LTC

Key to Abbreviations: FVTC: Fox Valley; LTC: Lakeshore; MATC: Milwaukee Area; MPTC: Moraine Park; NWTC: Northeast Wisconsin

	Public Colleges	Private Colleges
Four Year Colleges	Agricultural Business/Mgt: Madison, Platteville Agricultural Engineering Technology: River Falls Agronomy: Madison, Platteville Animal Science: Madison, Platteville, River Falls Conservation & Environmental Science: Milwaukee Dairy Science: Madison, River Falls Environmental Policy & Planning: Green Bay Fisheries & Water Resources: Stevens Point Food Science/Systems/Technology: Madison, River Falls, Stout Forestry: Madison, Stevens Point Horticulture: Madison, Platteville, River Falls Paper Science: Stevens Point	Environmental Engineering: Marquette Environmental Science: Concordia, St. Norbert Urban & Environmental Affairs: Marquette

These are examples of programs at Wisconsin Technical Colleges and majors at UW System Colleges and WI Private Colleges and Universities.

For information about technical college programs go to www.witechcolleges.org.

For information about UW System colleges go to www.wisconsin.edu.

For information about private colleges and universities in Wisconsin go to www.wisconsinmentor.org.

For information about transfer agreements between technical colleges and UW System schools and between technical colleges and private schools go to www.uwsa.edu/tis.

This is one of sixteen career clusters. For more information about career clusters go to www.careerclusters.org.