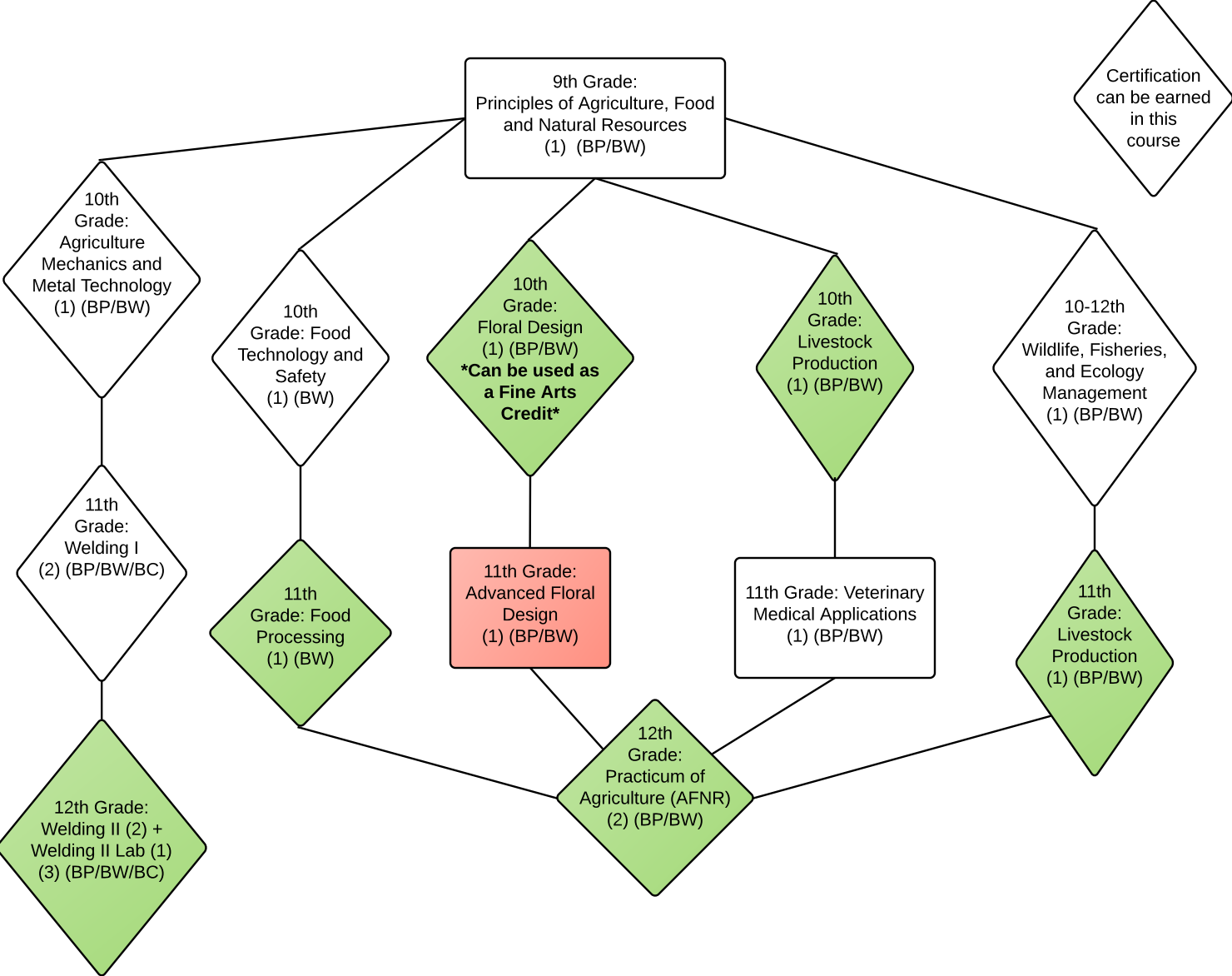


Agriculture, Food and Natural Resources

This industry cluster focuses on the planning, implementation, production, management, processing, and marketing of agricultural commodities and services, and the related professional, technical and educational services. Some of the fastest growing and /or highest wage occupations include agricultural marketing and sales personnel, agricultural engineers, laboratory and research technicians, animal reproduction specialists, environmental scientists, landscape and turf managers, and pest management specialists. As with all industry sectors, consideration of how academic courses required for graduation and college will sequence with Career Technical Education (CTE) or elective courses is important. An obvious connection for this industry sector is between the sciences and CTE courses. Also consider how math courses must integrate into the sequence of courses to ensure students can apply what they learn from one course to another. For example, natural resources management relies heavily on statistics and accurate measurement. This industry sector encompasses a wide range of pathways that include: Agricultural Business; Agricultural Mechanics; Agriscience; Animal Science; Forestry and Natural Resources; Ornamental Horticulture; Plant and Soil Science.



Business & Industry Endorsement

Agriculture, Food and Natural Resources Career Cluster

Wildlife/Livestock Pathway

9th Grade: Principles of Agriculture, Food and Natural Resources
1 Credit

10th Grade: Wildlife, Fisheries, and Ecology Management
1 Credit * Hunter's & Boater's Education Certifications

11th Grade: Livestock Production
1 Credit
*ICEV Principles of Livestock Selection & Evaluation Certification

12th Grade: Practicum in Agriculture: Wildlife/Livestock
2 Credits

Business & Industry Endorsement

Agriculture, Food and Natural Resources Career Cluster

Veterinary Science Pathway

9th Grade: Principles of Agriculture, Food and Natural Resources
1 Credit

10th Grade: Livestock Production
1 Credit
* ICEV Principles of Livestock Selection & Evaluation Certification

11th Grade: Veterinary Medical Applications
1 Credit

12th Grade: Practicum in Agriculture: Veterinary Science
2 Credits *Texas Veterinary Assistant Certification

Business & Industry Endorsement

Agriculture, Food and Natural Resources Career Cluster

Floral Design Pathway

9th Grade: Principles of Agriculture, Food and Natural Resources
1 Credit

10th Grade: Floral Design
1 Credit *ICEV Principles of Floral Design Certification
Can be used as a Fine Arts Credit

11th Grade: Advanced Floral Design
1 Credit

12th Grade: Practicum in Agriculture: Floral Design
2 Credits *Texas State Floral Association Certification

Business & Industry Endorsement

Agriculture, Food and Natural Resources Career Cluster

Food Processing Pathway

9th Grade: Principles of Agriculture, Food and Natural Resources
1 Credit

10th Grade: Food Technology and Safety
1 Credit *ServeSafe & ICEV Food Safety & Science Certifications

11th Grade: Food Processing
1 Credit *Meat Evaluation Certification

12th Grade: Practicum in Agriculture: Meat Science
2 Credits

Business & Industry Endorsement

Agriculture, Food and Natural Resources Career Cluster

Agricultural Mechanics Pathway

9th Grade: Principles of Agriculture, Food and Natural Resources
1 Credit

10th Grade: Agriculture Mechanics and Metal Technologies
1 Credit *NCCER Core Certification & OSHA Certifications

11th Grade: Welding I
2 Credits *NCCER & AWS Certifications

12th Grade: Welding II + Welding II Lab
3 Credits *Advanced NCCER & AWS Certifications