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| **Erie High School** | | **Applied Horticulture Curriculum Map**  **CIP Code #01.0601** | | **Industry Standards**  **Future Farmers of America**  **Pennsylvania Landscape and Nursery Association** |
| **Level I** | **1st Quarter**  General Equipment and Field-Site Safety  OSHA 10 Hour Certification  National Safe Tractor and Machinery Operation Program (NSTMOP) Certification  Tool/Equipment Operation and Landscaping Basics | **2nd Quarter**  Plant Health  Plant Disease and Nutrients  Pest Identification and Control  National Safe Tractor and Machinery Operation Program (NSTMOP) Certification, Continued | **3rd Quarter**  Water Resources, Quality and Management  Proper Care and Usage of Water Resources  Limiting Waste of Natural Resources  Irrigation, Drainage and Stormwater Control | **4th Quarter**  Environment, Climate and Weather  How Weather and Climate Impact Plant Growth  Controlling Environment’s Effects on Plants |
| **Level II** | **1st Quarter**  Safety Review  Horticulture Business Opportunities  Selecting a Site for a Business  State and Local Laws  Record Keeping | **2nd Quarter**  Nursery Production and Management  Growing and Preparing Plants for Marketing and Sales  Managing Inventory and Human Resources | **3rd Quarter**  Sustainable Horticulture and Technology  Emerging Technology and Technologically Altered Plants  Comparing Sustainable and Conventional Techniques | **4th Quarter**  Horticulture and the Human Experience  The History of Horticulture and its Effects on Human Culture, Economy and Government |
| **Level III** | **1st Quarter**  Plants and Industry  Use of Various Plants in Horticulture and Other Industries  The Impact of Environment on Plant Materials and Availability | **2nd Quarter**  Horticulture Careers and Post-Secondary Education  Careers and Working Conditions in the Horticulture Industry  Skills, Certifications and Post-Secondary Opportunities | **3rd Quarter**  Landscape, Hardscape and Floral Design  Researching and Creating Designs  Creating and Reading Blueprints | **4th Quarter**  Lawn and Turfgrass Management  Growing and Maintaining Plots of Turf for Various Uses |
| **Level IV** | **1st Quarter**  Plant Physiology and Identification  Identifying Characteristics of Plants  Consistent, Proper Identification of Plants Used in Horticulture Industry  Proper Use of Plant Material in Various Industries | **2nd Quarter**  Plant Science and Structure  How Plants Live, Grow and Reproduce  Plant Structures and Functions | **3rd Quarter**  Soil Science, Management and Fertilizing  Proper Soil Sampling and Testing  Selecting and Applying Fertilizers and Soil Amendments  NOCTI Review and Preparation | **4th Quarter**  NOCTI Testing  Co-op |