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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 CertificationNational Safe Tractor and Machinery Operation Program (NSTMOP) CertificationTool/Equipment Operation and Landscaping Basics | **2nd Quarter**Plant HealthPlant Disease and NutrientsPest Identification and ControlNational Safe Tractor and Machinery Operation Program (NSTMOP) Certification, Continued | **3rd Quarter**Water Resources, Quality and ManagementProper Care and Usage of Water ResourcesLimiting Waste of Natural ResourcesIrrigation, Drainage and Stormwater Control | **4th Quarter**Environment, Climate and WeatherHow Weather and Climate Impact Plant GrowthControlling Environment’s Effects on Plants  |
| **Level II** | **1st Quarter**Safety ReviewHorticulture Business OpportunitiesSelecting a Site for a BusinessState and Local LawsRecord Keeping | **2nd Quarter**Nursery Production and ManagementGrowing and Preparing Plants for Marketing and SalesManaging Inventory and Human Resources | **3rd Quarter**Sustainable Horticulture and TechnologyEmerging Technology and Technologically Altered PlantsComparing Sustainable and Conventional Techniques  | **4th Quarter**Horticulture and the Human ExperienceThe History of Horticulture and its Effects on Human Culture, Economy and Government |
| **Level III** | **1st Quarter**Plants and IndustryUse of Various Plants in Horticulture and Other IndustriesThe Impact of Environment on Plant Materials and Availability | **2nd Quarter**Horticulture Careers and Post-Secondary EducationCareers and Working Conditions in the Horticulture IndustrySkills, Certifications and Post-Secondary Opportunities | **3rd Quarter**Landscape, Hardscape and Floral DesignResearching and Creating DesignsCreating and Reading Blueprints  | **4th Quarter**Lawn and Turfgrass ManagementGrowing and Maintaining Plots of Turf for Various Uses |
| **Level IV** | **1st Quarter**Plant Physiology and IdentificationIdentifying Characteristics of PlantsConsistent, Proper Identification of Plants Used in Horticulture IndustryProper Use of Plant Material in Various Industries | **2nd Quarter**Plant Science and StructureHow Plants Live, Grow and ReproducePlant Structures and Functions | **3rd Quarter**Soil Science, Management and FertilizingProper Soil Sampling and TestingSelecting and Applying Fertilizers and Soil AmendmentsNOCTI Review and Preparation | **4th Quarter**NOCTI TestingCo-op |