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| **Erie High School** | **Construction Trades Curriculum Map****CIP Code # 46.9999** | **Industry Standards****NCCER****OSHA****S/P2** |
| **Level I** | **1st Quarter** **Orientation**- Syllabus- Expectations**Construction Trades Task Grid****Intro to NCCER and Certs****NCCER Module 5 Blueprints**Projects: Guided Readings, Arch Scale, SketchUp, Prints**Introduction to SketchUp**Projects: Playship, MaltShop, Walls, Doors, Windows, etc.**NCCER Module 2 Math**Projects: Measuring Blocks, 3-4-5, Scaling**NCCER Module 1 Safety**Projects: Ladders, Harness, Scaffold | **2nd Quarter** **OSHA 10-Hour Construction Industry Certification & SP/2 Construction for CTE****SketchUp Continuation****NCCER Module 3 Hand Tools**Projects: 2x4 Z Cope, Hammers and Nails, Handsaws, Dumb Truck Cuts**NCCER Module 4 Power Tools**Projects: Hexagon Angles, Pallet Plaques, 3-D Cutouts, Recycled Project**NCCER Module 9 Materials****NCCER Module 7 Basic Communication Skills****NCCER Module 8 Basic Employability Skills**Projects: Job Application, Resume Work, Portfolio Creation | **3rd Quarter****SketchUp Continuation**Projects: Bird House **NCCER Construction Technology****CT Module 1 and 2 Masonry**Block Layout, Mortar Wall, Estimation, Sims and Equipment | **4th Quarter****SketchUp Continuation**Projects: Floor Plan, Floor Systems, Joists, Sheathing, Wall Components**CT Module 17 Equipment**Projects: Site Work, Foundation Work, Lasers and Transits, Concrete Forms, Sims and Equipment**CT Module 3 Floor Systems**Projects: Foundation, Sill, Rim Joists and Layout Estimation and Costing**Shop Close-Out** |
| **Level II** | **1st Quarter** **SketchUp Continuation**Projects: Floor Plan, Floor Systems, Joists, Sheathing, Wall Components 3-D Print**CT Module 6 Wall Systems**Projects: Wall Components, Principals of Wall Framing, Perimeter, Load Bearing vs Non-Bearing, Estimation and Costing Rough Openings for Windows and Doors**CT Module 8 Stairs**Projects: Layout, Estimation and Costing, Cutting Stringers | **2nd Quarter****SketchUp Continuation**Projects: Wall Components, Proper Framing, Ridge and Rafter, Hip and Valley, Stairs, 3-D Print**CT Module 4 Roof Framing**Projects: Layout, Cut Rafters, Common, Hip, Valley, Ridge, Estimation and Costing**CT Module 5 Roofing**Projects: Layout, Felt, Drip, Shingles, Venting, Estimation and Costing | **3rd Quarter****SketchUp Continuation**Projects: Sheathing and Siding, Exterior Finishes, Dog House Design, 3-D Print**CT Module 7 Exterior Finish**Projects: Estimation and Costing, Soffit, Fascia, Aluminum Bending and Wrapping**EOY Project**Student Designed Dog House | **4th Quarter****SketchUp Continuation**Projects: Dog House Design**EOY Project**Student Designed Dog House**Shop Close-Out** |
| **Level III** | **1st Quarter****SketchUp Continuation**Projects: Senior Project Begins, Structural, Basement Foundation, Floor Plan**CT Module 9 & 10 Electrical**Projects: Electrical Circuits, Estimation and Costing, NEC Code, Lamp Prep**CT Module 11 HVAC**Projects: Ductwork, Furnace and AC Unit | **2nd Quarter****SketchUp Continuation**Projects: Senior Project**PL Module 9**Projects: Black Iron, Threading, Black Iron Lamp**CT Module 12, 13, & 14**Projects: Toilet Assembly, Drains, Faucets, Soldering, PEX, and PVC | **3rd Quarter****SketchUp Continuation**Projects: Senior Project**Drywall and Finishing**Projects: Finish Board**Painting and Staining****CT Module 15 & 16 Millwork**Projects: Laminating, Wood Joints, Doors, Mortising, Chisels, Latches, Cabinets, Coping Trim, Moldings | **4th Quarter****SketchUp Continuation**Projects: Senior Project**3rd Year Final Project****Shop Close-Out** |
| **Level IV** | **1st Quarter****Co-Op****SketchUp Continuation**Projects: Senior Project**NOCTI Review****NOCTI Pre-Test** | **2nd Quarter****Co-Op****SketchUp Continuation**Projects: Senior Project**NOCTI Review****NOCTI Practice Testing** | **3rd Quarter****Co-Op****SketchUp Continuation**Projects: Senior Project**NOCTI Review****NOCTI Test** | **4th Quarter****Co-Op**Projects: Senior Project**Shop Close-Out** |