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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** |