

ENGINEERING, MANUFACTURING & INDUSTRIAL TECHNOLOGY



- Engineering (Civil, Electrical, Environmental, Industrial)
- Manufacturing (Machine Tool Operator, Assembler & Fabricator)
- Tool & Die Maker, Welder, etc.

RECOMMENDED COURSES

- **3299** Pre-Calculus
- **3352** Calculus AP
- **3430** Ecology
- **3685** CADD
- **4195** Physics – E & M
- **4196** Physics – Waves
- **4224** Physics – Motion
- **4223** Personal Math
- **4197** OSHA
- **4028** Computer Science Principles AP

Career & Tech Options

- **3026** Automotive Technology
- **3028** Welding
- **3057** Construction Trades
- **3969** Engineering/Robotics
- **3970** Precision Machining

RECOMMENDED ACTIVITIES/CREDENTIALS

- Develop leadership skills through clubs, sports, work, service, etc.
- Compete at Skills USA competitions through CTE
- Earn NOCTI Certifications
- Seek employment with PennDOT through their Summer Maintenance Program



OCCUPATIONS *(Lycoming County Data – May 2018)*

	INDUSTRIAL ENGINEER	CIVIL ENGINEER	COMPUTER PROGRAMMER	SUPERVISOR: PRODUCTION WORKERS	MACHINE TOOL OPERATOR	ASSEMBLER & FABRICATOR
AVERAGE ANNUAL SALARY	\$82,490 <i>(County Average)</i>	\$76,460 <i>(County Average)</i>	\$74,340 <i>(County Average)</i>	\$57,550 <i>(County Average)</i>	\$42,850 <i>(County Average)</i>	\$31,030 <i>(County Average)</i>
OUTLOOK	Increasing Demand	Increasing Demand	High Demand	Increasing Demand	High Demand	High Demand
EDUCATION	Bachelor's Degree	Bachelor's Degree	Bachelor's Degree	Work Experience	On the Job Training	On the Job Training