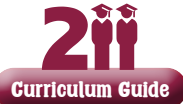


METT (Manufacturing, Engineering, Technology, and Trades)



View all course descriptions and prerequisite requirements in the



ILLINOIS CAREER PATHWAY

**MANUFACTURING,
ENGINEERING,
TECHNOLOGY & TRADES**

PATHWAY ADDITIONS

Additional Courses to Consider

English writing & communication, Math courses and electives should be reviewed with your teachers/counselors to align best with your interests. Some classes may have prerequisite requirements.

- **Social Studies**
World Geography
Human Geography[▲]

- **World Languages**

Certifications: Seal of Biliteracy

Clubs and Activities

- Art Club
- Autos Club
- CAD Club
- Coding Club
- Computer Club
- Electronics Club
- Engineering Club
- Robotics Club
- Science Club
- Science Olympiad
- Society of Women Engineers
- Speech Team
- Woodworking Technology Club

NATIONAL CAREER CLUSTERS

- **Architecture and Construction**
- **Manufacturing**
- **STEM/Energy** (Science, Technology, Engineering & Math)
- **Transportation, Distribution, and Logistics**

PATHWAY CAREER COURSE OPTIONS

Architecture and Construction		
	Course	Department
Architecture	3D Art, Clay, Sculpture and Design	Art & Media
	Architecture Design	Applied Technology
	PLTW Civil Engineering & Architecture	Applied Technology
	Design Studio* Housing/Interior Design	Family & Consumer Sciences
Construction	Manufacturing Technology	Applied Technology
	Engine & Power Technology	Applied Technology
	Electronics Technology	Applied Technology
	Woodworking Technology	Applied Technology
	Geometry in Construction	Applied Technology
	Building Construction*	Applied Technology
	Welding & Metal Fabrication*	Applied Technology
	HVAC Refrigeration Fundamentals* HVAC Heating Principles*	Harper College Campus

Manufacturing		
Certifications: Haas CNC Machine Certification Program, National Institute of Metalworking Skills (NIMS)		
	Course	Department
Mechanics	Manufacturing Technology	Applied Technology
	Engine & Power Technology	Applied Technology
	Advanced Manufacturing Technology*	Applied Technology
	Computer Aided Manufacturing*	Applied Technology
	Welding & Metal Fabrication*	Applied Technology

*Dual Credit | ▲Advanced Placement

STEM • Energy		
	Course	Department
Engineering	Engine & Power Technology	Applied Technology
	Electronics Technology*	Applied Technology
	Engineering 1 & 2 PLTW	Applied Technology
	Digital Electronics*	Applied Technology
	Civil Engineering & Architecture	Applied Technology
Science & Technology	Bioengineering & Environmental Sustainability	Applied Technology
	Computer Aided Manufacturing*	Applied Technology
	Biology* [▲]	Science
	Chemistry [▲]	Science
	Physics [▲]	Science
Mathematics	Environmental Studies	Mathematics
	Advanced Topics in Science	Mathematics
	Introduction to Computer Programming	Mathematics
	AP Computer Science Principles [▲] AP Computer Science A [▲]	Mathematics

Transportation, Distribution, and Logistics		
Certifications: Automotive Service Excellence (ASE)		
	Course	Department
Mechanics	Manufacturing Technology	Applied Technology
	Engine & Power Technology	Applied Technology
	Automotive Technology*	Applied Technology
	Welding & Metal Fabrication*	Applied Technology
Supply Chain	Business Explorations	Business
	Business with Personal Finance [▲]	Business
	Technology Applications*	Business
	Business Management*	Business
	Accounting Financial* & Managerial	Business

PATHWAY CAREER OPTIONS (See your MaiaLearning results as there are 400+ careers in METT.)

Architecture and Construction

- **Certificates/Associates Degree**
Carpenters
Cement Masons/Finishers
Construction Inspectors & Laborers
Helpers for Electricians
Highway Maintenance Workers
Home Appliance Repairers
HVAC Mechanics and Installers
Landscaping and Groundskeeping
Maintenance and Repair Workers
Plumbers, Pipefitters, and Steamfitters
Roofers
Security/Fire Alarm Systems Installers
Solar Energy Installation Managers
Supervisors of Construction Trades
Wind Turbine Service Technicians

► Bachelor's Degree or Higher

- Architects
Architectural and Civil Drafters
Architectural and Engineering Mgrs.

Commercial and Industrial Designers
Construction Managers
Interior Designers

Manufacturing

► Certificates/Associates Degree

- CNC Programmers
Industrial Machinery Mechanics
Machinery Maintenance Workers
Maintenance and Repair Workers
Medical Equipment Repairers
Mobile Heavy Equipment Mechanics
Molders, Shapers and Casters
Quality Control Analysts
Telecommunications Equipment
Installers and Repairers
Welders

► Bachelor's Degree or Higher

- Health and Safety Engineers
Industrial & Manufacturing Engineers
Occupational Health & Safety Specialists
Quality Control Systems Managers

STEM

► Certificates/Associates Degree

- Civil Engineering Technicians
Electrical & Electronic Engineering Technicians
Electrical and Electronics Drafters
Electro-Mechanical Technicians
Food Science Technicians
Industrial Engineering Technicians

► Bachelor's Degree or Higher

- Architectural and Engineering Mgrs.
Biochemists & Biophysicists & Biologists
Biomedical Engineers & Biostatisticians
Chemical Engineers & Chemists
Civil Engineers
Computer and Information Scientists
Computer Hardware Engineers
Electrical Engineers
Environmental Engineers
Epidemiologists & GIS Technicians
Industrial Engineers

- Logistics Engineers
Mechanical Engineers
Medical Scientists
Microbiologists
Petroleum Engineers
Physicists
Social Science Research Assistants
Statisticians
Validation Engineers

Transportation, Distribution, and Logistics

► Certificates/Associates Degree

- Aircraft Cargo Handling Supervisors
Auto Svcs. Technicians and Mechanics
Cargo & Freight Agents
Flight Attendants
Heavy and Tractor-Trailer Truck Drivers
Laborers & Freight, Stock, & Material Movers
Light Truck Drivers
Mobile Heavy Equipment Mechanics

- Recreational Vehicle Service Techs
Transportation and Storage Managers

► Bachelor's Degree or Higher

- Airfield Operations Specialists
Logisticians and Logistics Analysts
Supply Chain Managers
Transportation Planners



To learn more about pathway career options, complete the Interest Profiler in **MaiaLearning**. Add your favorites ♥ to your career list!