

# METT (Manufacturing, Engineering, Technology, and Trades)



Update Your Plan

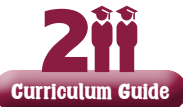
## ILLINOIS CAREER PATHWAY



## NATIONAL CAREER CLUSTERS

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

View all course descriptions and prerequisite requirements in the



## 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<sup>^</sup>

- **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

## PATHWAY CAREER COURSES

### Architecture and Construction

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

### Manufacturing

**Certifications:** Haas CNC Machine Certification Program, National Institute of Metalworking Skills (NIMS)

Course	Department
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	
<b>Engineering</b>	Engine & Power Technology	Applied Technology
	Electronics Technology	Applied Technology
	Introduction to Engineering Design	Applied Technology
	Principles of Engineering	Applied Technology
	Digital Electronics*	Applied Technology
Civil Engineering & Architecture	Applied Technology	
Bioengineering & Environmental Sustainability	Applied Technology	
Computer Integrated Manufacturing	Applied Technology	
<b>Science &amp; Technology</b>	Biology* <sup>^</sup>	Science
	Chemistry* <sup>^</sup>	Science
	Physics* <sup>^</sup>	Science
	Environmental Studies	Science
	Advanced Topics in Science	Science
Introduction to Computer Programming	Mathematics	
AP Computer Science Principles <sup>^</sup>	Mathematics	
AP Computer Science A <sup>^</sup>	Mathematics	

### Transportation, Distribution, and Logistics

**Certifications:** Automotive Service Excellence (ASE)

Course	Department	
<b>Mechanics</b>	Manufacturing Technology	Applied Technology
	Engine & Power Technology	Applied Technology
	Automotive Technology 1 & 2*	Applied Technology
	ASE Automotive Independent Study	Applied Technology
<b>Supply Chain</b>	Business Explorations	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  
Molders, Shapers and Casters  
Maintenance and Repair Workers  
Medical Equipment Repairers  
Mobile Heavy Equipment Mechanics  
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 Srvc. 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!