



## Academy Overview:

### Engineering, Manufacturing, Industrial Technology



The EMIT academy is designed to offer students the opportunity for hands-on experiences in engineering, manufacturing, industrial and technical fields within the curriculum framework. Through partnerships with local businesses and a rigorous curriculum, students will gain the necessary skills to continue on to post-secondary educational opportunities in related fields.



## Career Opportunities

| High School Diploma | High School + 2 Year Training | High School + 4 Year Degree |
|---------------------|-------------------------------|-----------------------------|
| Automotive          | Robotics Technician           | Engineering                 |
| Construction        | Automotive Technician         | Physicist                   |
| Landscaping         | Plumbing Technician           | Chemist                     |
| Shipbuilding        | Agriculture                   | Robotics                    |
|                     | Electrician/HVAC              | Architect                   |
|                     | Welder /Shipbuilding          | Aerospace                   |

## Pathway Selections

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### Completer

Core Courses + Complete 3 Academy Courses

### Advanced Completer

Advanced Core Courses + Complete 4 Academy Courses

## Course Offerings

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### Completer

#### **Science**

- Forensics
- Earth & Space
- Marine Biology
- Environmental Science
- Astronomy

#### **Math**

- Algebra with Finance
- Algebra 2
- Algebra 2/Trigonometry

#### **Electives**

Bryant Center Courses:

- Aviation*
- Automotive*
- Construction*
- HVAC*
- Plumbing/Pipefitting*
- Welding*

Foreign Language 1-2

### Advanced Completer

#### **Science**

- Physics
- AP Physics 1, 2, C
- Chemistry
- AP Chemistry
- AP Biology
- AP Environmental Science
- Zoology
- Human Anatomy & Physiology

#### **Math**

- Precalculus
- AP Calculus A, B
- Discrete Math
- AP Statistics

#### **Electives**

- Art 2 or above
- AP Computer Science
- Multimedia Design
- Foreign Language 1, 2, 3, AP

## Additional Components

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- Mentoring
- Cover Letter
- Resumé
- Job Shadowing
- Internship
- Portfolio