

## ScienceTechnologyEngineeringMath

STEM is another meaning for 'CTE' or 'career and technical education'. STEM is what we are and what we teach.

**FACT:** Careers that are STEM related are among the highest paying jobs, but only 4% of graduating students decide to major in corresponding STEM coursework at college. Without any tuition costs, high school students of participating school districts can find out at FRCTC if STEM is for them, starting their 'Road to Success'!



### 9th Grade Exploratory Program

Students unsure of their career path have gone through this program to help them make the BEST educated decision to find their 'Road to Success' at FRCTC!



Students will participate in four FRCTC programs that will include safety, theory, and lab areas. Students will experience the real-life working areas of each program and select one of the four to enroll in the following year.

### Participating Districts



Allegheny Valley Plum

East Allegheny Riverview



Gateway Wilkinsburg

Highlands Woodland Hills



Penn Hills



# Forbes Road Career & Technology Center

## Programs of Study

# Your Road to Success

### Benefits Available to FRCTC Students:

- ⇒ Internships, Apprenticeships, & Working while in High School
- ⇒ Potential FREE College Credits
- ⇒ Community Service Activities
- ⇒ Additional Scholarships
- ⇒ Student Organizations

### Mission Statement

"The mission of Forbes Road Career & Technology Center is to provide quality educational programs that enable all individuals to achieve their fullest potential and become lifelong learners. Students will be equipped with the technical, academic, and 21st century skills necessary to compete in the global marketplace."



Middle States Association of Colleges and Schools  
Commissions on Elementary and Secondary Schools

**FORBES  
ROAD**  
CAREER & TECHNOLOGY  
CENTER  
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## Manufacturing

### Advanced Manufacturing



#### Includes:

- ⇒ Creating Metal Objects
- ⇒ Modern CNC Machinery
- ⇒ CAD/CAM Systems
- ⇒ Quality Control
- ⇒ Blueprint Reading

## Architecture/Construction

### Building Construction Technology



#### Includes:

- ⇒ Residential Construction
- ⇒ Carpentry
- ⇒ Masonry
- ⇒ Plumbing
- ⇒ Electrical



### Electrical Technology



#### Includes:

- ⇒ NEC Code
- ⇒ Green Technology
- ⇒ AC/DC Motors
- ⇒ Residential House Wiring
- ⇒ Commercial/Industrial Wiring

- Fire/Emergency Management
- Industrial Safety
- Patient Transport
- Emergency Medical
- Law Enforcement

### Heating, Ventilation & Air Conditioning



#### Includes:

- ⇒ Installation
- ⇒ Diagnosing
- ⇒ Servicing
- ⇒ Maintenance
- ⇒ Schematic Reading

### Landscape Design

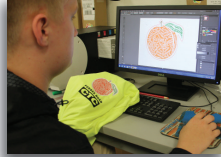


#### Includes:

- ⇒ Safety
- ⇒ Landscape & Floral Design
- ⇒ Disease & Pest Controls
- ⇒ Greenhouse Management
- ⇒ Hardscape Installation

## Information Technology

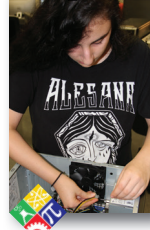
### Advertising Design



#### Includes:

- Illustrative Techniques
- Computer Generated Imaging
- Laser Engraving
- Embroidery
- Merchandise Production

### Computer Networking & Security



#### Includes:

- ⇒ Networking Administration
- ⇒ Software Support
- ⇒ Cyber & Biometric Security
- ⇒ Wireless Networking
- ⇒ Computer Diagnostics

### Multimedia Design



#### Includes:

- ⇒ Entertainment Productions
- ⇒ Videography & Photography
- ⇒ Creating Animation
- ⇒ Podcasts & Web Site Creation
- ⇒ Microsoft & Apple Macs

## Health & Law Occupations

### Emergency Response Services

#### Includes:



### Health Science Technology



#### Includes:

- ⇒ Patient Care with Diseases & Infections
- ⇒ Patient Transfer & Medical Terminology
- ⇒ Taking Vitals, CPR, AED, & First-Aid
- ⇒ Anatomy & Physiology
- ⇒ Basic Nursing Skills

## Service Occupations

### Cosmetology



#### Includes:

- Hair
- Skin
- Nail Care
- Cosmetology Science
- Clinical Experiences

### Culinary Arts



#### Includes:

- ⇒ Gourmet & Fine Dining
- ⇒ Customer Service
- ⇒ Menu Planning
- ⇒ Inventory Control
- ⇒ Nutrition & Food Preparation

### Early Childhood Education



#### Includes:

- ⇒ Participate at an Off Campus Daycare
- ⇒ Child Development
- ⇒ Nutrition, Guidance, & Discipline
- ⇒ Create Lessons for Art, Music, & Playtime
- ⇒ Classroom & Facility Management

## Transportation

### Automotive Technology



#### Includes:

- Engines
- Diagnostics
- Maintenance
- State Inspection
- Emissions

### Collision Repair Technology



#### Includes:

- Metalworking
- Fabricating
- Welding
- Estimating
- Painting

### Diesel Technology



#### Includes:

- Biodiesel Fuel
- Medium/Heavy Trucks
- Generators/Equipment
- State Inspection
- Emissions

### Warehouse Management



#### Includes:

- Forklift Operation
- Logistics & Shipping/Receiving
- Material Handling Equipment
- Inventory Management
- Supply Chain Management

