

**Discover what makes YOUR gears turn.**

*Achieve your goals fast and efficiently! In under two years, you can earn your associate degree with our NEW term schedules!*

**Why Choose P.I.T. for  
your Engineering  
Degree?**

- ✓ **Experienced Instructors**
- ✓ **Intimate Learning  
Environment and Family  
Atmosphere**
- ✓ **Portfolio Building and  
Interview Coaching**
- ✓ **Learn at Your Own Pace  
with eLearning at P.I.T.**
- ✓ **Free Tutoring**

**Why Engineering?**

With an associate degree in Engineering, you will have a functional understanding of basic engineering principles and design while strengthening technical, communication, and problem solving skills that are required for career growth. The curriculum exposes students to a broad spectrum of engineering disciplines, including civil, mechanical, and process control (PLC) engineering.

**What kind of career will I have?**

The possibilities are endless for mechanical engineers and engineering designers. The variety within engineering means that you'll always be able to find a job in fields like:

- Aerospace Engineering
- Biomedical Engineering
- Construction
- Manufacturing Engineering
- Marine Engineering
- Mechanical Engineering
- Metallurgical Engineering
- Pharmaceutical Manufacturing
- Quality Control Representative
- Refinery Engineering
- Research and Development
- Structural Engineering
- 3D Modeler
- Design Engineer
- Structural Engineer Assistant
- Metrology Technician



**Where can I go after P.I.T.?**

P.I.T. launches you into a world of opportunity! In addition to being prepared for immediate employment, P.I.T. has transfer agreements with a number of colleges and universities in the area. These agreements enable you to transfer the college credits that you earned at P.I.T. and complete a bachelor's degree at any accredited college or university.

# ENGINEERING (EGR)

## *Associate in Science (A.S.)*

### *Recommended Course Sequence*

Code	Course (Credits)	PHS 244*	Calculus Physics I (3)
EGR 138	Engineering Graphic Design I (3)	PSY 105	Introduction to Psychology (3)
EGR 198*	CAD I (3)	ACT 225	Civil Engineering/Site Design (3)
ENG 108	Composition I (3)	HUM 140	Critical Thinking in the Modern Age (3)
EGR 278*	CAD II (3)	STR 247*	Mechanics of Materials (3)
ENG 215	Analytical Writing (3)	MET 203	Theory of Machines (3)
MTH 145	College Algebra and Trigonometry (3)	MET 256	Manufacturing Processes (3)
ACT 151	Construction Technology (3)	_____	Free Elective (3)
CCT 182	Introduction to PLC's (3)		
COM 108	Communications and Social Interaction (3)		
MTH 225*	Calculus (4)		
NTE 101	Introduction to Nanotechnology (3)		
STR 134*	Engineering Mechanics (3)		
MET 277*	Fluid Mechanics (3)		
PHS 241	Calculus Physics I Laboratory (1)		

**PROGRAM TOTAL 65**

\*Prerequisite coursework is required.

NOTE: Additional course(s) may be required based on the results of a placement test.

## Course Highlights

### **ACT 151—Construction Technology**

The focus of this course is the building process and its components. Some topics covered: soil preparation and drainage, construction materials (cement materials, concrete, brick, stone, wood, metals, plastics, and glass), their properties and use in construction, construction cost estimating, and estimate preparation.

### **EGR 138—Engineering Graphic Design I**

This course covers the study of drafting orthographic, sectional, and auxiliary views of machine parts from pictorial production drawings of basic machines from the assembly; detail, and tabular format; dimensioning, tolerance practices and procedures; basic manufacturing, foundry, machining, and welding operations and symbols.

### **EGR 198 - CAD I**

This course provides an introduction to CAD and drafting principles, techniques, and equipment using the AutoCAD® program. Students learn the use of commands, including drawing and editing commands, layers, text, hatching, dimensioning, and plotting. Emphasis is given to understanding the features of CAD software and hardware.

## TUITION INFORMATION

### Number of Terms in Program

Traditional – 7 Terms

### Academic or Certification Achievement

Associate Degree for transfer to university or for employment

### Tuition and Fees for Associate Degree Programs

- Tuition: \$390 per credit, plus tech fees
- Graduation Fee: \$100
- May exclude books and supplies, course or program fees.
  - \*A detailed breakdown may be obtained in the financial aid office.