

Why Choose P.I.T. for your Computer-Aided Design Engineering (CAD) degree?

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

A.S. Computer-Aided Design Engineering (CAD)

**Enter into the world of digital engineering
and design as a CAD specialist.**

Achieve your goals quickly! In under two years, you can earn your college degree with our FLEXIBLE term scheduling.

What is a Computer-Aided Design (CAD) Engineer?

The CAD program emphasizes architectural, civil and mechanical design. CAD specialists prepare detailed drawings of buildings and other structures. Graduates may specialize in a type of structure, such as commercial or residential, or a type of material, such as timber or reinforced concrete. Graduates interested in mechanical design prepare detailed diagrams of machinery and mechanical devices. Graduates also prepare and provide instructions regarding the fabrication, assembly, and use of mechanical equipment, parts, and devices.

What kind of career can I expect?

CAD graduates generally work in an office at a computer work station. Employers include architectural, engineering, and construction firms in manufacturing industries.

Entry-level job titles include:

- CAD Operator
- CAD Designer
- CAD Specialist
- Architectural/Civil Drafter

Career potential includes positions such as:

- CAD Manager
- Lead Design Drafter



Where can I go after earning my degree at P.I.T.?

Program graduates who choose to further their education may transfer to a bachelor's degree program. Graduates of the A.S. in CAD program may sit for the ADDA (*American Design Drafting Association*) Drafter Certification Examination.

COMPUTER-AIDED DESIGN ENGINEERING (BME)

Associate in Science A.S.

Recommended Course Sequence

Code	Course (Credits)		
EGR 138	Engineering Graphic Design (3)	EGR 212	Revit® (3)
EGR 198	Computer-Aided Design CAD I (3)	EGR 145	Electronic Graphic Design (3)
SIT 203	Basic Office Software Applications (3)	PSY 105	Introduction to Psychology (3)
EGR 278	Computer-Aided Design CAD II (3)	EGR 252	Inventor (3)
ENG 108	English Composition (3)	EGR 365	CAD Engineering Co-Op or (3)
MTH 145	College Algebra and Trigonometry (3)	OR	
EGR 108	Mechanical Graphic Design I (3)	_____	Free Elective (3)
HUM 140	Critical Thinking in the Modern Age (3)		
MTH 225	Calculus I (4)		
EGR 124	Architectural Graphic Design I (3)		
ENG 215	Analytical Writing (3)		
STR 134	Engineering Mechanics (3)		
EGR 113	Mechanical Graphic Design II (3)		
EGR 126	Architectural Graphic Design II (3)		
COM 108	Communications and Social Interaction (3)		

PROGRAM TOTAL: 61

*Prerequisite coursework is required.

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

Course Highlights

EGR 108—Mechanical Graphic Design

Students gain an understanding for standard machining processes and specific manufacturing tools, demonstrate the ability to utilize geometric tolerance dimensioning, the American National Standard Institute for machine processes, and demonstrate the ability to read and understand processes and symbols.

ENR 124—Architectural Graphic Design I

Students learn procedures/materials that are used for the Standard Principles of Residential Construction Systems; demonstrate the ability to design and draft various foundation systems; show the ability to design and draft floor, wall, and roof-framing systems; utilize standard applications and procedures used for "AutoCAD Architectural."

ENG 365—CAD Engineering CO-OP

Students are placed in workplaces in the region assisting professionals with CAD engineering projects. Students will demonstrate the knowledge acquired in the CAD Engineering program by completing CAD assignments. Placement at CAD-related workplaces is only available during the day. Students have the option of substituting a free elective course in place of this course.

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: \$380 per credit hour, plus tech fees
- Graduation Fee: \$100
- Excludes books and supplies