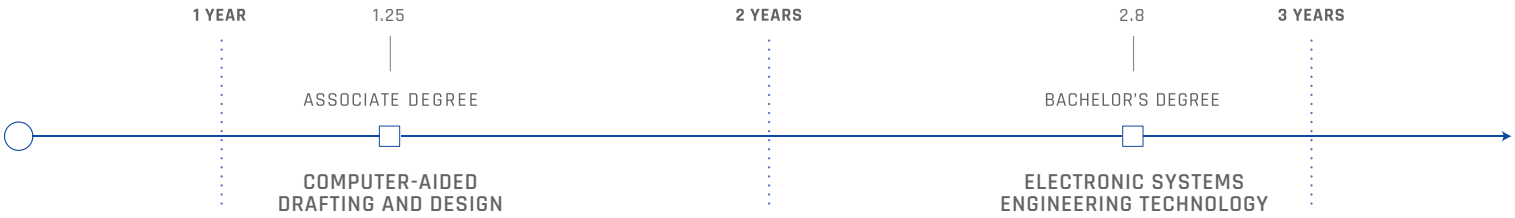
ecpi UNIVERSITY

COLLEGE OF TECHNOLOGY
COMPUTER-AIDED DRAFTING AND DESIGN
ASSOCIATE DEGREE

COMPUTER-AIDED DRAFTING AND DESIGN

The Computer-Aided Drafting & Design program focuses on real-world application of engineering principles. Students in the A.S. Computer-Aided Drafting & Design program will take a hands-on approach, utilizing a variety of drafting software and tools to create drawings in support of engineering projects. The program focuses on needed skills and competencies to develop the ability for the creation of two and three-dimensional drawings, models, and designs for various engineering fields such as mechanical, electrical, architectural, and civil. Through a capstone experience, students will develop an effective solution to a problem statement related to engineering systems utilizing acquired skills in computer-aided drafting and design.



Outcomes

Students in the A.S. Computer-Aided Drafting & Design program learn to use drafting software to create and visualize design concepts for product manufacturing, architectural designs, and civil infrastructure planning. They are able to apply acquired skills in design and drafting to analyze and prototype designs.

Upon completion of the Associate of Science in Computer-Aided Drafting & Design, graduates will be able to:

- Apply written, oral, and graphical communication in both technical and non-technical environments.
- Select and apply the knowledge, techniques, skills, and modern tools of the drafting discipline to a variety of engineering fields.
- Create digital and physical prototypes using software tools and rapid prototyping technologies.
- Perform relevant analysis on parts and assemblies by applying tools within CAD software.
- Function effectively as a member or leader on a technical team.

Possible Career Track

Computer-aided drafting and design professionals are employed in a wide range of positions including:

- CAD Designer
- CAD Technician
- Technical Illustrator
- Mechanical Drafter
- Mechanical Designer

REV: Jan. 2021

The National Security Agency and the Department of Homeland Security have designated ECPI University as a National Center of Academic Excellence in Cyber Defense Education (CAE-CDE) for the Bachelor of Science in Computer and Information Science: Cyber and Information Security Technology major, Cybersecurity Track through academic year 2023.