

Computer Aided Design Certificate

■ What Is Computer Aided Design?

Computer aided design is the technology used to prepare technical drawings and plans used to build everything from manufactured products such as toys, toasters, industrial machinery, and spacecraft to structures such as houses, office buildings, and oil and gas pipelines. CAD drawings provide visual guidelines; show the technical details of the products and structures; and specify dimensions, materials, and procedures.

CAD systems create and store drawings electronically that can then be viewed, printed, or programmed directly into automated manufacturing systems. People who produce technical drawings with CAD still function as drafters and need the knowledge of traditional drafters, in addition to their CAD skills.

■ Success Factors

Mechanical ability and visual aptitude are important for anyone in CAD. You should be capable of performing detailed work accurately in a timely manner. Good interpersonal skills are also important because you will work closely with engineers, surveyors, architects, and other professionals. Artistic ability is helpful in some specialized fields, as is knowledge of manufacturing and construction methods.

■ Career Possibilities

The CAD program is designed to open doors for you to a drafting career in general manufacturing, architecture, electronics and computers, as well as in more technical areas such as aerospace engineering and machine tool design.

■ Program Requirements

This program offers 2 levels of career-specific coursework. It gives you the technical core of the CAD associate degree. Level I requires 1 year of part-time study to complete. Level II requires an additional year of part-time study to complete.

You will be taking the technical courses which are the foundation of the CAD program.

CORE COURSES	Cr. Hrs.
<i>Level I</i>	
CAD I, II.....	6
Introduction to Solid Modeling.....	3
Welding Design	3
Elements of Electrical and Computer Engineering Technology	3
Elements of Electrical and Computer Engineering Technology Lab.....	1
Principles of Machining.....	2
Principles of Machining Lab	1
TOTAL.....	19



Level II

CAD I, II.....	6
Introduction to Solid Modeling.....	3
Tool Design I.....	3
CAM I.....	3
Welding Design.....	3
Advanced CAD I, II.....	6
Elements of Electrical and Computer Engineering Technology.....	3
Elements of Electrical and Computer Engineering Technology Lab.....	1
Principles of Machining.....	2
Principles of Machining Lab.....	1
Technical electives.....	6
TOTAL.....	37

■ Advantages & Special Opportunities

The Clermont campus is on 92 wooded acres located in Batavia, Ohio, in the heart of Clermont County. We are relatively small and our faculty to student ratio is low. You will find our small class size and personal interaction with your instructors create the ideal learning environment. Parking is convenient and at no additional charge. Plus, our tuition is the lowest of the UC colleges.

Credits earned can be applied toward an associate degree in computer aided design if you later decide to complete your degree.

■ Admissions

UC Clermont College is an open admissions campus. If you have your high school diploma, GED, or its equivalent, we will admit you. We accept applications all year long and you may start any quarter. We recommend that you apply at least 4 weeks prior to your desired attendance.

■ For More Information, Contact:

Enrollment & Student Services
4200 Clermont College Drive
Batavia OH 45103

513-732-5319
1-866-446-2822
www.ucclermont.edu
Clermont.Information@uc.edu

We are converting to semesters in fall 2012.
For complete details on how this may affect you, visit www.uc.edu/conversion.

