

CADD: Computer Aided Drafting & Design

CAD.AAS

FIRST YEAR/FIRST SEMESTER			
Course #	Course Name	Credits	Notes
ENG-101	English Composition I	3	Must test into ENG-101 or complete all appropriate prerequisites
CAD-101	Computer Aided Engineering Graphics	4	
CIM-101	Machine Shop Practices	3	
CST-103	Microcomputer Operating Systems I: Workstations	3	
EGR-103	Technical Drawing	3	
FIRST YEAR/SECOND SEMESTER			
ENG-102	English Composition II	3	Prerequisite: ENG-101
CAD-102	Advanced Computer Aided Engineering Graphics	3	
CAD-107	Parametric Design: Autodesk Inventor	3	
CAD-208	AutoCAD Civil 3D Level I	3	Prerequisite: CAD-101
HPE....	Health & Exercise Science Elective	1	
SECOND YEAR/FIRST SEMESTER			
CAD-201	CADD Applications: MicroStation	3	
MTH-125	Accelerated Precalculus	4	Must test into MTH-125 or take all prerequisites
PHY-103 or PHY-101	Physics I for Non-Science Majors Physics I	4	PHY-101 Prerequisite: MTH-100; PHY-101 Co-requisites: MTH-124 or MTH-125
ELECTIVE	Diversity-Humanities General Education Elective	3	
HPE....	Health & Exercise Science Elective	1	
SECOND YEAR/SECOND SEMESTER			
CAD-202 or EGR-208	Advanced CADD Project Co-op I: Engineering	3	
CAD-205	Architectural CADD Using Revit	3	Prerequisite: CAD-101
CAD-206	Solids Modeling: Solid Works	3	Prerequisite: CAD-101
MTH-132	Statistics for Technology	4	Prerequisite: MTH-100
ELECTIVE	Social Science General Education Elective	3	
TOTAL CREDITS		60	

PROGRAM DESCRIPTION

The Computer Aided Drafting and Design (CADD) associate degree program is a lab-intensive, hands-on approach to training in the field of engineering graphics and computer based drafting and design. This career-oriented major includes instruction on the use of a number of the most applications. The program has a basic general education core along with introductory manufacturing and computer courses. A cooperative education option is also available.

PROGRAM STUDENT LEARNING OUTCOMES

At the end of the program, the graduate will be able to:

1. Solve basic and complex drafting and design application problems using industry standard 2-dimensional and 3-dimensional software and feature-based parametric design software.
2. Apply the fundamentals of computer aided drafting and design disciplines such as architectural, mechanical and electrical engineering.
3. Utilize industry standard microcomputer CADD software and the hardware, operating systems and peripherals used to facilitate them.
4. Create free-hand sketches, engineering notes and scaled drawings using American National Standards (ANSI), American Society for Mechanical Engineers (ASME), and/or International Standards Organization (ISO) specifications.

CONTACT PERSON

Dr. Melvin L. Roberts, Coordinator
(856) 227-7200 ext. 4942
Email: mroberts@camdenc.ccc.edu