ASSOCIATE IN APPLIED SCIENCE

CIP Code 15.1301

CADD: Computer Aided Drafting & Design CAD.AAS

CODE	COURSE	CREDITS
First Year/First Semester		
ENG-101	English Composition I	3
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
		16
Second Semester		
ENG-102	English Composition II	3
CAD-102	Advanced Computer Aided Engineering Graphics	3
CAD-107	Parametric Design: AutoDesk Inventor	3
CST-102	Introduction to Networking	3
CST-106	Microcomputer Operating Systems II: Server Systems or	
CIM-221	CNC Programming and CAM	3/4
HPE.....	Health & Exercise Science Elective	1
		16/17
Second Year/First Semester		
CAD-201	CADD Applications: MicroStation	3
MTH-125	Accelerated Precalculus[1] or	
MTH-140	Calculus I	4
PHY-103	Physics I for Non-Science Majors or	
PHY-101	Physics I or	
PHY-201	Physics III	4
…….	Diversity - Humanities General Education Elective	3
HPE.....	Health & Exercise Science Elective	1
		15
Second Semester		
CAD-202	Advanced CADD Project or	
EGR-208	Co-op I: Engineering	3
CAD-205	Architectural CADD Using Revit	3
CAD-206	Solids Modeling: SolidWorks	3
MTH-132	Statistics for Technology or	
MTH-150	Calculus II	4
…….	Social Science General Education Elective	3
		16
	Total Minimum Credits	**63**

[1] The Precalculus Mathematics I (MTH-123) & Precalculus Mathematics II (MTH-124) series of courses may be substituted for Accelerated Precalculus (MTH-125).

PROGRAM DESCRIPTION

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

PROGRAM GOALS

- To provide students with the ability to propose, develop, complete and articulate professional Computer Aided Drafting (CAD) presentations based on their designs.
- To equip students with a working knowledge of the modern computer platforms upon which CAD is mounted.
- To assure students can employ and demonstrate effective written communication skills.
- To prepare students to qualify for entry-level employment in any of the disciplines of computer aided drafting such as architectural, mechanical and electrical design or any related field such as space planning, solids modeling and civil site preparation.
- To provide students with a General Education foundation.

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) and/or International Standards Organization (ISO) specifications.

EMPLOYMENT OPPORTUNITIES

- CADD operator
- CADD technician
- Computer draftsperson
- Design drafter
- Drafting detailer

CONTACT PERSONS

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Highlights

This program prepares students for a variety of high-paying careers.