COMPUTER AIDED DESIGN -MECHANICAL - ASSOCIATE IN SCIENCE

Plan Code: 2913

In this program, students learn entry-level job skills in mechanical drafting and design. The program will prepare students for a mechanical design-related career, and appropriate course selection will facilitate transfer to a professional degree program at a four-year university.

Program Student Learning Outcomes

- Demonstrate the ability to attain the Institutional Student Learning Outcomes (ISLOs).
- Construct engineering detail and working drawings incorporating tolerances and fits for manufacturing.

Program Requirements

This degree requires the completion of General Education coursework plus the following:

Code Number REQUIRED COURSES	Course Title	Units
ETEC 10	Introduction to Engineering Technology	2
CAD 1	Intro Computer Aided Design SolidWorks	3
CAD 2	Intro to Computer Aided Design AutoCAD	3
CAD 3	Intro to Computer Aided Design CATIA	3
CAD 4	Geometric Dimensioning and Tolerancing	3
CAD 5	Intro to CAD/CAM MasterCAM	3
CAD 6	Computer Aided Design Advanced	3
Required Subtotal		20
Complete one of the following: 1		19-39
LBCC General Education (Plan A) (https://lbcc- public.courseleaf.com/academic-requirements/general- education-transfer-degree-certificate-requirements/general- education-plans/plan-a/)		
CSU GE Breadth (Plan B) (https://lbcc-public.courseleaf.com/ academic-requirements/general-education-transfer-degree- certificate-requirements/general-education-plans/plan-b/)		
academic-requirer certificate-require	an C) (https://lbcc-public.courseleaf.com/ ments/general-education-transfer-degree- ments/general-education-plans/plan-c/)	
Electives (as needed to reach 60 degree-applicable units) ²		
Minimum Degree Total		

Units for the major may be double-counted for LBCC GE, CSU GE, or IGETC; see counselor for limitations.

² Elective units from course(s) numbered 1-599, if needed, to reach 60 degree-applicable units.

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COMPUTER AIDED DESIGN - MECHANICAL - CERTIFICATE OF ACHIEVEMENT

Plan Code: 3907

This program will prepare students for an entry-level position as a Computer Aided Design (CAD) technician and or mechanical drafter/technician trainee in a variety of professional design settings and will serve as a foundation for specialization.

Program Student Learning Outcomes

 Construct engineering detail and working drawings incorporating tolerances and fits for manufacturing.

Program Requirements

Code Number REQUIRED COURSE	Course Title	Units
ETEC 10	Introduction to Engineering Technology	2
CAD 1	Intro Computer Aided Design SolidWorks	3
CAD 2	Intro to Computer Aided Design AutoCAD	3
CAD 3	Intro to Computer Aided Design CATIA	3
CAD 4	Geometric Dimensioning and Tolerancing	3
CAD 5	Intro to CAD/CAM MasterCAM	3
CAD 6	Computer Aided Design Advanced	3
Total Units		20