

# COMPUTER AIDED DESIGN - MECHANICAL - ASSOCIATE IN SCIENCE

<sup>1</sup> Units for the major may be double-counted.

Computer Aided Design

Students learn entry-level job skills in mechanical drafting and design. The Associate Degree will prepare students for a mechanical design-related career, and appropriate course selection will facilitate transfer to a professional degree program at a CSU/UC or private institution.

Develop career awareness, planning, employability skills, work habits, and the foundational knowledge necessary for success in the workplace.

- Possess the necessary technical knowledge and communication skills to identify, articulate and solve problems pertaining to the industrial manufacturing environment and perform tasks required within the mechanical design drafting professions.

## Program Requirements

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

CAD 50	Mechanical Drafting, Introduction	2
CAD 51	Mechanical Drafting, Intermediate	2
CAD 52	Introduction to Engineering Technology	2

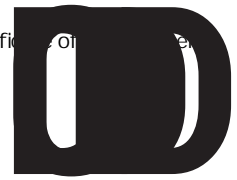
Complete one of the following: <sup>1</sup>	19-39
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LBCC General Education (Plan A) (<https://lbcc-public.courseleaf.com/academic-requirements/general-education-transfer-degree-certificate-requirements/general-education-plans/plan-a/>)

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<sup>1</sup> <https://lbcc-public.courseleaf.com/academic-requirements/general-education-transfer-degree-certificate-requirements/general-education-plans/plan-a/> 60 degree-

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Plan Code: 3907

The Core Skills Certificate will prepare students for an entry-level position as a mechanical drafter trainee in a variety of design professional settings and will serve as a foundation for specialization.



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

Code Number	Course Title	Units
<b>REQUIRED COURSES</b>		
CAD 50	Mechanical Drafting, Introduction	2
CAD 51	Mechanical Drafting, Intermediate	2
CAD 52	CAD/CAM	2
CAD 60	Geometric Dimensioning and Tolerancing	3
CAD 202	AutoCAD Fundamentals	2
CAD 203	AutoCAD II, Advanced Concepts	2
CAD 220	Introduction to CATIA	2
CAD 221	Intermediate CATIA	2
ETEC 10	Introduction to Engineering Technology	1
<b>Total Units</b>		<b>18</b>

# AUTOCAD I, FUNDAMENTALS - CERTIFICATE OF ACCOMPLISHMENT

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Plan Code: 4015

The Certificate of Accomplishment in AutoCAD I, Fundamentals (108 Hours) is the first in a series of 3 certificated classes leading to a cumulative certificate-CAD Professional (324 Hours). This entry-level AutoCAD drafting course is aimed at individuals with a drafting background employed in engineering, architecture, interior design and other related fields who wish to upgrade their skills in the area of Computer Aided Drafting (CAD).

## Program Student Learning Outcomes

- Construct architectural and mechanical drawings using fundamental drafting principles.

## Program Requirements

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**Plan Code: 4016**

The Certificate of Accomplishment in AutoCAD II, Advanced Certificate (108 Hours) is the second in a series of 3 certificated classes leading to a cumulative



