

CAD and Mechanical Design

Quick Comparison Guide

CAD Design and Drafting A.A.S. Typical Student Schedule

FIRST YEAR

First Quarter

Applied Written Communication
Introduction to the Professions
Intro - Computer Aided Drafting
Technical Math 1
Engineering Graphics 1

Second Quarter

Leadership Skills
Basic Blueprint Reading
Applied Technical Math
Applied Computer Aided Drafting
Engineering Graphics 2

Third Quarter

Introductory Applied Physics
Dimensioning and Tolerancing
Engineering Graphics 3
Applied Precision Measuring
Schematics
Manufacturing Processes

Fourth Quarter

CAD Solid Modeling
Mechanical Design Fundamentals
Structural CAD Applications
Shop Practices
Architectural CAD Applications

Fifth Quarter

Employment Preparation
Advanced CAD
Technical Applications I
Mechanical CAD Applications

Sixth Quarter

Project Design
Technical Applications II
Fabrication and Piping CAD Apps
Civil CAD Applications

Mechanical Design Technology A.A.S. Typical Student Schedule

FIRST YEAR

First Quarter

Applied Written Communication
Introduction to the Professions
Intro - Computer Aided Drafting
Technical Math 1
Engineering Graphics 1

Second Quarter

Leadership Skills
Basic Blueprint Reading
Applied Technical Math
Applied Computer Aided Drafting
Engineering Graphics 2

Third Quarter

Introductory Applied Physics
Dimensioning and Tolerancing
Engineering Graphics 3
Applied Precision Measuring
Schematics
Manufacturing Processes

Fourth Quarter

CAD Solid Modeling
Mechanical Design Fundamentals
Structural CAD Applications
Shop Practices
Statics

Fifth Quarter

Employment Preparation
Advanced CAD
Technical Applications I
Mechanical CAD Applications
Strength of Materials

Sixth Quarter

Project Design
Technical Applications II
Electrical Theory
Approved Tech Design Electives

CAD Design and Drafting Cert. Typical Student Schedule

FIRST YEAR

First Quarter

Applied Written Communication
Introduction to the Professions
Intro - Computer Aided Drafting
Technical Math 1
Engineering Graphics 1

Second Quarter

Leadership Skills
Basic Blueprint Reading
Applied Technical Math
Applied Computer Aided Drafting
Engineering Graphics 2

Third Quarter

Introductory Applied Physics
Dimensioning and Tolerancing
Engineering Graphics 3
Applied Precision Measuring
Schematics
Manufacturing Processes

Fourth Quarter

CAD Solid Modeling
Mechanical Design Fundamentals
Employment Preparation
Approved Elective (CAD Based)

Indicates core classes common between CAD Design, Mechanical Design Technology, and Civil Engineering Tech

Indicates core classes common between CAD Design and Mechanical Design.

Note: This is a recommended schedule - courses may be offered in a different quarter than shown here based on availability.

See complete Typical Student Schedule for each program for credit values and approved electives.