

COMPUTER-AIDED DESIGN

Associate of Applied Science, 71 Credit Hours, 18-Month Program

The Computer-Aided Design program at WDT equips students with the skills and knowledge necessary to produce accurate technical drawings using industry standard CAD systems.

Graduates of the program receive training in a full range of knowledge and skills needed to succeed in the diverse and varied field of drafting and design. This degree is widely accepted as the industry standard in qualifying for an entry level position in the architectural, civil, and mechanical CAD fields.

Architectural drafters assist architects by preparing technical plans and details showing the dimensions, construction materials, and processes used for residential and commercial building projects. Mechanical drafters prepare detail and assembly drawings of a wide variety of machinery and mechanical devices, indicating dimensions, fastening methods, and other requirements. Civil drafters create drawings that detail the construction related to land, roads, bridges, and other infrastructure. The Computer-Aided Drafting Technician program at WDT provides students with a solid base of knowledge in all three of these fields, maximizing their versatility when entering the job market.

Course No.	Course Title	Credits
General Education Requirements		
CIS 105	MICROCOMPUTER SOFTWARE APPLICATIONS I	3
ECON 202	PRINCIPLES OF MACROECONOMICS (online)	3
ENGL 101	COMPOSITION* <i>or</i>	3
ENGL 106	WORKPLACE COMMUNICATIONS I *	
MATH 101	INTERMEDIATE ALGEBRA** <i>or</i>	3
MATH 102	COLLEGE ALGEBRA***	
MATH 120	TRIGONOMETRY****	3
PSYC 101	GENERAL PSYCHOLOGY <i>or</i>	3
PSYC 103	HUMAN RELATIONS IN THE WORKPLACE	
	Total	18
Technical Requirements		
CAD 101	DRAFTING FUNDAMENTALS	3
CAD 111	ARCHITECTURAL DRAFTING I	3
CAD 135	ARCHITECTURAL CONSTRUCTION THEORY I	3
CAD 139	2D CAD	3
CAD 141	ARCHITECTURAL 3D CAD	3
CAD 142	MECHANICAL 3D CAD	3
CAD 150	ARCHITECTURAL PRINT READING	1
CAD 202	MECHANICAL DRAFTING	3
CAD 203	PRINCIPLES OF COMMERCIAL THEORY I	3
CAD 214	INTRODUCTION TO CIVIL DRAFTING	3
CAD 232	MECHANICAL PRINCIPLES	3
CAD 234	MECHANICAL PRINT READING	2
CAD 237	ARCHITECTURAL DRAFTING II	3
CAD 250	INTRODUCTION TO MAPPING/GPS	2
CAD 252	INTRODUCTION TO SURVEYING	3
	ELECTIVES	12
	Total	53
Technical Electives-Choose minimum 12 credits		
CAD 215	LIGHT COMMERCIAL CONSTRUCTION WITH MECHANICAL AND ELECTRICAL	3
CAD 240	3D ARCHITECTURAL DESIGN	3
CAD 244	3D ENGINEERING DESIGN	3
CAD 247	COMPUTER AUTOMATED MANUFACTURING	3
CAD 297	INTERNSHIP	3

*Prerequisite: Acceptable ACCUPLACER score or Basic Writing.

**Prerequisite: Acceptable ACCUPLACER score or Basic Math.

***Prerequisite: Acceptable ACCUPLACER score or Intermediate Algebra.

****Prerequisite: Acceptable ACCUPLACER score, Intermediate Algebra, or College Algebra

Semester breakdown on next page

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Semester Breakdown AAS

First Semester			Second Semester		
		CR			CR
CAD 101	Drafting Fundamentals	3	CAD 111	Architectural Drafting I	3
CAD 135	Architectural Construction Theory I	3	CAD 141	Architectural 3D CAD	3
CAD 139	2D CAD	3	CAD 142	Mechanical 3D CAD	3
CAD 250	Introduction to Mapping/GPS	2	CAD 150	Architectural Print Reading	1
CIS 105	Microcomputer Software Applications I	3	CAD 232	Mechanical Principles	3
MATH 101	Intermediate Algebra <i>or</i>	3	CAD 234	Mechanical Print Reading	2
MATH 102	College Algebra		MATH 120	Trigonometry	3
Total Credit Hours		17	Total Credit Hours		18
Third Semester			Fourth Semester		
		CR			CR
CAD 202	Mechanical Drafting	3	ECON 202	Principles of Macroeconomics (online)	3
CAD 203	Principles of Commercial Theory I	3	PSYC 101	General Psychology <i>or</i>	3
CAD 214	Introduction to Civil Drafting	3	PSYC 103	Human Relations in the Workplace	12
CAD 237	Architectural Drafting II	3		Technical Electives	
CAD 252	Introduction to Surveying	3			
ENGL 101	Composition <i>or</i>	3			
ENGL 106	Workplace Communications I				
Total Credit Hours		18	Total Credit Hours		18

If you are or have been convicted, pleaded guilty or no contest to, or received a suspended imposition of sentence for a felony or certain misdemeanors, you are advised that you may not be able to complete all course requirements for your chosen program, you may be prevented from taking required certification/licensure examinations in your chosen program field, and you may be prevented from gaining employment in your program field