

Design Engineering Technology

Design Engineering (Mechanical)

OWENS CAMPUS

Spring 2022

The Design Engineering Technology curriculum provides students with a broad knowledge of basic engineering principles. An emphasis is placed on manufacturing, machining, and mechanical drafting and design. The program incorporates hands-on courses that provide students with experience in the modern technologies used in today's manufacturing sector. The program incorporates direct experience in computer-aided drafting and design (CADD), computer numerical control(CNC) machining, and computer-aided manufacturing(CAM). Careers in mechanical design, manufacturing, machining, maintenance, technical sales, and engineering management are likely areas of employment.

PROGRAM SPECIFIC ADVISEMENT STATEMENT

Courses - Semester 1

	Credits	Lecture	Lab
SSC 100 - First Year Seminar	1	1	0
EDD 141 - Engr Drafting & Design I	4	2	5
EDD 171 - Intro to CAD Using AutoCAD	3	2	2
EDT 128 - Machine Trades Blueprnt Rding	3	3	0
ENG 101 - Composition I	3	3	0
MAT 183 - Reasoning with Functions I	5	5	

Courses - Semester 2

	Credits	Lecture	Lab
EDT 152 - Engineering Design II	4	3	3
EDD 272 - Solid Modeling	3	2	2
(MAT 193 - Reasoning with Functions II	4	4	
OR MAT 281 - Calculus I)	4	4	1
MET 123 - Modern MFG Techniques	3	2	4
ENG 102 - Composition II	3	3	0

Courses - Semester 3

	Credits	Lecture	Lab
EDT 252 - Engineering Design III	4	3	3
EDD 273 - Advanced Solid Modeling	3	2	2
MET 132 - Statics	3	3	1
(PHY 205 - General Physics I	4	3	3
OR PHY 281 - Physics I with Calculus)	4	3	3

Courses - Semester 4

	Credits	Lecture	Lab
IET 209 - Survey in Prod Plan & Cntrl	3	2	2
MET 225 - Adv. Manufacturing Techniques	3	2	4
MET 242 - Strength of Materials	3	2	2
ELC 125 - Electrical Circuits I	4	3	3

Approved Electives

Select two social science electives to complete at any time after satisfying prerequisites.

Group	Courses	Credits	Lecture	Lab
	CLT 110 - Cross-Cultural Immersion	3	3	0
	(ECO 111 - Macroeconomics	3	3	0
	OR ECO 122 - Microeconomics)	3	3	0

(HIS 111 - U. S. History: Pre-Civil War	3	3	0
OR HIS 112 - U. S. History: Post-Civil War)	3	3	0
POL 111 - Political Science	3	3	0
PSY 121 - General Psychology	3	3	0
SOC 111 - Sociology	3	3	0

*To complete program requirements, you must pass the above courses and earn at least **69 credits**. The number of courses and credits required for graduation may be more depending on your need for developmental education courses and the elective choices you make (if electives are a part of the program). Some programs also have college-level courses that you must take if you do not score at a certain level on the College Placement Test. If this applies to your program, the courses are listed at the top of the sequence sheet before the first semester of the course list.*