

Mechanical Design Technology A.A.S.

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NOTICE(s): For the A.A. S. Degree in Civil Engineering Technology, Mechanical Design Technology Specialty, the student must complete a minimum of 71 credit hours — a minimum of 56 in technical courses and a minimum of 15 in general education courses — all of which must be approved by the advisor. A maximum of 9 credit hours of technical electives may be selected from any approved area of Engineering Technology programs with prior written approval from the student's major advisor. Technical courses may vary to meet student needs and to provide options.

Admission Requirement: High school diploma or GED.

The courses in this program of study may not be offered every semester. It is important to consult with your advisor to determine course schedules to stay on track to graduate.

The student is responsible for verifying the transferability of credit in this program to a senior institution with the appropriate senior institution advisor.

Area I — Written Composition

Item #	Title	Hours	Grade	Term Completed
ENG 101	English Composition I	3		
	Sub-Total Credits	3		

Area II — Humanities and Fine Arts

Item #	Title	Hours	Grade	Term Completed
	Humanities/Fine Arts Elective	3		
	Sub-Total Credits	3		

Area III — Natural Sciences and Mathematics

Item #	Title	Hours	Grade	Term Completed
INT 104	Principles of Technology	3		
	MTH 100: Intermediate College Algebra OR numerically higher	3		
	Sub-Total Credits	6		

Area IV – History, Social and Behavioral Sciences

Item #	Title	Hours	Grade	Term Completed
	History, Social and Behavioral Sciences Elective	3		
	Sub-Total Credits	3		

Area V - Required Technical Courses

Item #	Title	Hours	Grade	Term Completed
CET 101	Introduction to Engineering Technology	3		
CET 215	Statics	3		
CET 217	Strength of Materials	3		
	MDT 100 OR MTT 121	3		
MDT 105	Introduction to Computer-Aided Design (CAD)	3		
MDT 111	Mechanical Drawing	3		
MDT 146	AutoCAD CADD	3		
MDT 147	Inventor CADD	3		
MDT 202	SOLIDWORKS CADD	3		
MDT 211	Advanced Mechanical Drawings	3		
MDT 221	Machine Design	3		
ORI 101	Orientation to College	1		
WKO 101	Workplace Skills Development I	1		
	Sub-Total Credits	35		

Additional Coursework:

Choose 21 credit hours from the following list.

Item #	Title	Hours	Grade	Term Completed
CIS 146	Computer Applications	3		
MDT 122	Architectural Drawing	3		
MDT 123	Architectural Drawing II	3		
MDT 187	Advanced Inventor Cadd	3		
MDT 203	CREO CADD	3		
MDT 215A	Co-Op	1		
MDT 215B	Co-Op	1		
MDT 215C	Co-Op	1		
MDT 216	Co-Op	2		
MDT 217	Co-Op	3		
MDT 252	Advanced Solidworks CADD	3		
MDT 261	HVAC and Pipe Systems Design	3		
MDT 271	Structural and Weld Design	3		
MDT 272	Electrical and Electronic Design	3		
MDT 280	3-D Studio Max	3		
MDT 293	Advanced Pro-Engineer	3		
SPH 106	Fundamentals of Oral Communication	3		
	Sub-Total Credits	44		
		71		