

Mechanical Design Technology A.A.S.

Advisor - East Broad Campus: James Wilson, Bevill Center (256.549.8659) jwilson@gadsdenstate.edu

NOTICE(s): For the A.A. S. Degree in Civil Engineering Technology, Mechanical Design Technology Specialty, the student must complete a minimum of 70 credit hours — a minimum of 55 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.

This program is offered at the East Broad Campus only.

Program: Mechanical Design Technology

Type: Associate in Applied Science Degree

Area I — Written Composition

Item #	Title	Credits
ENG 101	English Composition I	3
	Sub-Total Credits	3

Area II — Humanities and Fine Arts

Item #	Title	Credits
	Humanities/Fine Arts Elective	3
	Sub-Total Credits	3

Area III — Natural Sciences and Mathematics

Item #	Title	Credits
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	Credits
	History, Social and Behavioral Sciences Elective	3
	Sub-Total Credits	3

Area V - Required Technical Courses

Item #	Title	Credits
CET 101	Introduction to Engineering Technology	3
CET 215	Statics	3
CET 217	Strength of Materials	3
MDT 100	Engineering Blue Prints	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
	Sub-Total Credits	34

Additional Coursework:

Choose 21 credit hours from the following list.

Item #	Title	Credits
CIS 146	Microcomputer 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 215	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	42
	Total credits:	70