













Mechanical Engineering Technology (9440)

Associate of Applied Science Degree


This concentration emphasizes the design and analysis of mechanical elements.

Students planning to transfer to a four-year college or university should take MATH 1650 College Algebra (A), MATH 2400 Calculus for Business, Social, and Life Sciences, and PHYS 1610 General Physics I in lieu of MATH 1180 Technical Mathematics I, MATH 1280 Technical Mathematics II, PHYS 1100 Applied Physics Mechanics, and PHYS 1200 Applied Physics Heat and Thermodynamics.

Course	Title	Credit Hours
First Semester		
CADT 1100	Introduction to AutoCAD 	3
CIMN 1110	Machining Processes 	3
ENGL 1110 or ENGL 1111	English Composition I (A) ¹ or English Composition I (B)	3
ENGR 1000	Introduction to Engineering Technology	2
FYEX 1000	First Year Experience	1
MATH 1180	Technical Mathematics I	4
Credit Hours		16
Second Semester		
ENGL 1121	English Composition II-Technical Focus	3
MATH 1280	Technical Mathematics II	4
MECT 1600	Geometric Dimensioning and Tolerancing 	2
MECT 2110	Engineering Mechanics I 	3
MECT 2370 or CIMN 1210	Materials Technology  or Materials Processing	3
PHYS 1100	Applied Physics Mechanics	3
Credit Hours		18
Third Semester		
CADT 2100	Introduction to SolidWorks 	3
COMM 1050 or COMM 1150	Fundamentals of Public Speaking ² or Fundamentals of Interpersonal Communications	2
MECT 2210	Engineering Mechanics II 	3
MECT 2230	Strength of Materials 	3
PHYS 1200	Applied Physics Heat and Thermodynamics	3
Select course(s) from the Arts and Humanities Electives list		3
Credit Hours		17
Fourth Semester		
CIMN 1160	Applied Electricity 	2
CIMN 2390	Fluid Power Technology 	3
MECT 2700	Mechanical Technology Design Capstone 	4
QENT 1200	Quality Concepts and Techniques 	2
Select course(s) from the Social and Behavioral Sciences Electives list		3
Credit Hours		14
Total Credit Hours		65

¹ English course selection is based on placement test results (ENGL 1111 English Composition I (B) is 4 credits, only 3 credits apply to the degree).

² Students may substitute either COMM 1000 Effective Public Speaking or COMM 1100 Effective Interpersonal Communications. One of these 3 credit courses may be required for students transferring to a four-year college.

 This course is designated as a technical course in the program. Students must earn a "C" grade or higher in the course to fulfill the college's graduation requirements policy.

Electives

Course	Title	Credit Hours
Arts and Humanities		
ARTS 1120	Art Appreciation	3
ARTS 2220	Survey of Art I	3
ARTS 2230	Survey of Art II	3
ENGL 2250	Survey of American Literature I	3
ENGL 2260	Survey of American Literature II	3
ENGL 2280	Survey of British Literature I	3
ENGL 2290	Survey of British Literature II	3
HUMX 1100	Introduction to Humanities	3
HUMX 1200	The American Experience in the Arts	3
MUSC 1200	Music Appreciation	3
MUSC 1215	World Music	3
MUSC 1800	Popular Music: Rock, Jazz, Country, and Hip-Hop	3
MUSC 2200	Music History and Literature I	3
MUSC 2250	Music History and Literature II	3
PHIL 1500	Introduction to Philosophy	3
PHIL 2000	Comparative Religion	3
PHOT 1000	History of Photography	3
Social and Behavioral Sciences		
ANTH 1160	Introduction to Cultural Anthropology	3
ECON 1150	Basic Economics	3
ECON 2500	Principles of Macroeconomics	3
ECON 2600	Principles of Microeconomics	3
GEOG 1500	Introduction to Geography	3
GEOG 1600	World Regional Geography	3
HIST 1150	Western Civilization I: Antiquity Through the Reformation	3
HIST 1250	Western Civilization II: Age of Revolution Through the Present	3
HIST 2150	U.S. History: Colonization Through Reconstruction	3
HIST 2250	U.S. History: Reconstruction to the Present	3
POLS 1300	U.S. National Government	3
POLS 2500	Modern Political Ideologies	3
PSYC 1500	Introduction to Psychology	3
SOCY 1150	Principles of Sociology	3