

## Industrial & Engineering Technology

# Engineering Technology

*Offered MCC-Business & Technology*

### A.A.S. Engineering Technology

Architecture .....	60-63 Credits
Civil Engineering.....	64-67 Credits
Computer & Electronics .....	62-66 Credits
Mechanical/Manufacturing Tech .....	62-65 Credits
Mechatronics .....	68 Credits
BIM Certificate .....	20-22 Credits

This program leads to an Associate in Applied Science degree and prepares the student to enter the workforce in engineering technology, assisting engineering professionals in the design process as an integral part of the design team. Graduates will have a strong background in mathematics, design principles, computer aided design and other technologies relating to the engineering fields. This program transfers to area universities if the student wishes to pursue a four-year degree in engineering technology or related degree.

### A.A.S. Engineering Technology: Architecture Emphasis

204405 Revised 12/2016 (Fall 2017)

General Education Requirements		Credits	Semester Taken	Prerequisites
ENGL 101	Composition and Reading I	3		ENGL 30/90 or appropriate placement test score
ENGL 215	Technical Writing	3		ENGL 101
COMM 100	Fundamentals of Speech	3		ENGL 30/90 or appropriate placement test score
HIST 120	U.S. History to 1865 <b>or</b>	3		
HIST 121	U.S. History since 1865 <b>or</b>			
POLS 135	Introduction to Political Science <b>or</b>			
POLS 136	Introduction to American National Politics <b>or</b>			
POLS 137	Introduction to State and Local Politics			
PHYS 130	General Physics	5		MATH 130 or appropriate placement test score.
Option #1		5-8		MATH 110 or satisfactory placement test score
MATH 120	College Algebra and			
MATH 120R	College Algebra w/ Review			
MATH 130	Trigonometry			
Option #2				
MATH 150	PreCalculus or higher			
<b>Minimum Total General Education Credit Hours</b>		<b>18</b>		
<b>Specific Program Requirements</b>				
ENGR 101	Introduction to the Profession	1		
EHSS 111	Intro to Health & Safety for General Industry or	1		
EHSS 112	Intro to Health & Safety for Construction			
ETEC 152	Engineering Graphics and CADD I	5		MATH 40/40L or appropriate placement test score
ETEC 153	Descriptive Geometry	3		ETEC 152
ETEC 200	Applied Statics & Mechanics	3		MATH 104 or 130
ETEC 268	Introduction to Structural Steel Design	3		ETEC 152
ETEC 269	CADD II	4		ETEC 152 or 169
ETEC 170	CADD I, Microstation	3		ETEC 152
ETEC 210	Introduction to Commercial Architecture	3		ETEC 152 and 155
ETEC 211	Building Information Modeling, Revit	3		ETEC 220
ETEC 265	Introduction to Civil Design	3		ETEC 152
ETEC 290	Internship in Engineering Technology or	3		ETE C 152
ETEC 295	Capstone Project in Engineering Technology			
SRVY 135	Elementary Surveying	3		MATH 130 or 150
<b>Total Credit Hours Required</b>		<b>60-63</b>		