



Academic & Career PATHWAYS

Associate in Engineering (A.E.) Mechanical and Aerospace – Advising Guide

The Associate in Engineering degree program prepares students to transfer to a four-year institution to major in mechanical or aerospace engineering.

Semester 1		
Course	Credits	Action Steps
^CHEM 111 (General Education Requirement: Science)	5	 Meet with Academic
^ENGL 101 or ^COMM 100 (General Education Requirement: Communications)	3	Advisor to build plar
ENGR 101 (Program Requirement)	1	in Starfish
HIST 120, HIST 121, or POLS 136 (General Education: History & Social Science)	3	
MATH 180 (General Education Requirement: Mathematics)	5	 Complete Civics
CIMM 101, ^CIMM 102, ^CIMM 103, ^CSIS 123, ^CSIS 223, ^CISI 271, ENGR	1 – 5*	Exam with 70% or
113, ^ENGR 180, ^ETEC 130, ^ETEC 152, ^ETEC 271, GEOL 101, ^MATH 141,		higher
^SRVY 135, WELD 100 (Program Elective)		
Total Credits	18 - 22	
Semester 2		
ART 108, ART 150, ART 151, ENGL 201, ENGL 214, ENGL 216, ENGL 254,	3	 Research/ contact
ENGL 268, HIST 133, HIST 134, MUSI 108, MUSI 160, PHIL 100, or THEA 106		transfer institutions
(General Education Elective: Humanities & Fine Arts)		
^ENGL 101, ^ENGL 102, ^ENGL 215 or ^COMM 100 (General Education	3	
Requirement: Communications)		
MATH 190 (General Education Requirement: Mathematics)	5	
^PHYS 220 (General Education Requirement: Science)	5	
Total Credits	16	
Semester 3 - Summer		
ECON 210 or ECON 211 (Program Elective)	3	
MATH 230 (General Education Requirement: Mathematics)	3	
Total Credits	6	
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SCIENCE, TECHNOLOGY, ENGINEERING & MATH

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Semester 4		
^PHYS 221 (General Education Requirement: Science)	5	 Apply for admission
MATH 210 (General Education Requirement: Mathematics)	5	at transfer institution
ENGR 229 (Required Engineering)	3	
^CHEM 112, ^CHEM 221, ^CHEM 222, CIMM 101, ^CIMM 102, ^CIMM 103,	1 -5*	 Apply for
CSIS 123, CSIS 223, CISI 271, ENGR 113, ENGR 180, ENGR 190, ENGR		scholarships at
204, ^ENGR 215, ^ENGR 223, ^ETEC 130, ^ETEC 152, ^ETEC 271, GEOL 101,		transfer institution
MATH 141, SRVY 135, WELD 100 (Program Elective)		
Total Credits	14 - 18	
Semester 5		
^CHEM 112, ^CHEM 221, ^CHEM 222, CIMM 101, ^CIMM 102, ^CIMM 103,	1-5*	 Apply for graduation
CSIS 123, CSIS 223, CISI 271, ENGR 113, ENGR 180, ENGR 190, ENGR		
204, ^ENGR 215, ^ENGR 223, ^ENGR 230, ^ENGR 233, ^ ENGR 234, ^ ENGR		
240, ^ETEC 130, ^ETEC 152, ^ETEC 271, GEOL 101, ^MATH 141, ^SRVY 135,		
WELD 100 (Program Elective)		
^CHEM 112, ^CHEM 221, ^CHEM 222, CIMM 101, ^CIMM 102, ^CIMM 103,	1-5*	
CSIS 123, CSIS 223, CISI 271, ENGR 113, ENGR 180, ENGR 190, ENGR		
204, ^ENGR 215, ^ENGR 223, ^ENGR 230, ^ENGR 233, ^ ENGR 234, ^ ENGR		
240, ^ETEC 130, ^ETEC 152, ^ETEC 271, GEOL 101, ^MATH 141, ^SRVY 135,		
WELD 100 (Program Elective)		
^CHEM 112, ^CHEM 221, ^CHEM 222, CIMM 101, ^CIMM 102, ^CIMM 103,	1-5*	
CSIS 123, CSIS 223, CISI 271, ENGR 113, ENGR 180, ENGR 190, ENGR		
204, ^ENGR 215, ^ENGR 223, ^ENGR 230, ^ENGR 233, ^ ENGR 234, ^ ENGR		
240, ^ETEC 130, ^ETEC 152, ^ETEC 271, GEOL 101, ^MATH 141, ^SRVY 135,		
WELD 100 (Program Elective)		
^CHEM 112, ^CHEM 221, ^CHEM 222, CIMM 101, ^CIMM 102, ^CIMM 103,	1-5*	
^CSIS 123, ^CSIS 223, ^CISI 271, ENGR 113, ^ENGR 180, ^ENGR 190, ^ENGR		
204, ^ENGR 215, ^ENGR 223, ^ENGR 230, ^ENGR 233, ^ ENGR 234, ^ ENGR		
240, ^ETEC 130, ^ETEC 152, ^ETEC 271, GEOL 101, ^MATH 141, ^SRVY 135,		
WELD 100 (Program Elective)		
CHEM 112, ^CHEM 221, ^CHEM 222, CIMM 101, ^CIMM 102, ^CIMM 103,	1-5*	
CSIS 123, CSIS 223, CISI 271, ENGR 113, ENGR 180, ENGR 190, ENGR		
204, ^ENGR 215, ^ENGR 223, ^ENGR 230, ^ENGR 233, ^ ENGR 234, ^ ENGR		
240, ^ETEC 130, ^ETEC 152, ^ETEC 271, GEOL 101, ^MATH 141, ^SRVY 135,		
WELD 100 (Program Elective)	F 05	
Total Credits	5-25	





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Semester 6 - Summer		
COMM 100, ART 108, MUSI 108, THEA 106, PHIL 100 or ENGL 268 (Additional	3	
Elective)		
^CHEM 112, ^CHEM 221, ^CHEM 222, CIMM 101, ^CIMM 102, ^CIMM 103,	1-5*	
^CSIS 123, ^CSIS 223, ^CISI 271, ENGR 113, ^ENGR 180, ^ENGR 190, ^ENGR		
204, ^ENGR 215, ^ENGR 223, ^ENGR 230, ^ENGR 233, ^ ENGR 234, ^ ENGR		
240, ^ETEC 130, ^ETEC 152, ^ETEC 271, GEOL 101, ^MATH 141, ^SRVY 135,		
WELD 100 (Program Elective)		
Total Credits	4 - 8	
Credits Required	77*	
*The A.E. degree requires 77 total credits for graduation. When selecting a course from multiple options, please		

*The A.E. degree requires 77 total credits for graduation. When selecting a course from multiple options, please consider the number of credits for each course to ensure meeting the minimum requirements for graduation.

This Pathway Map is an advising tool designed for full-time students on this AE degree and identifies the course taking recommendation for timely degree completion. Please be aware that all pathway maps can be modified to fit the individual needs of students. Degree requirements and prerequisite information can be found here: https://mcckc.edu/programs/ae/index.aspx All students are encouraged to meet with their academic advisor to develop an individualized completion plan that best meets their goals, interests, and objectives.

^Course requires a prerequisite or appropriate placement, see catalog for additional information