

Associate of Science in Industrial Engineering

First Year: Technical Coursework

Fall Semester			Spring Semester		
✓	Course	Credits	✓	Course	Credits
	ENGR 1201 Intro to Engineering	2		ENGR 2304 Engr Programming	3
	ENGR 1304 Engineering Graphics	3		PHYS 2425 University Physics I	4
	MATH 2413 Calculus I*	4		MATH 2414 Calculus II	4

*Students starting in Precalculus should take the Math 2412/Math 2413 Fasttrack/Flextrack courses so they will have completed Calculus 1 by the end of the fall semester.

Second Year: Technical Coursework

Fall Semester			Spring Semester		
✓	Course	Credits	✓	Course	Credits
	ENGR 2301 Engr Mech I – Statics	3		ENGR 2305 & 2105 Circuits	4
	ENGR 2308 Engineering Economics	3		CHEM 1409 Chem for Engineers or CHEM 1411 General Chemistry I	4
	PHYS 2426 University Physics II	4		MATH 2320 Differential Equations	3
	MATH 2415 Calculus III	4			

Additional Coursework

Core Classes			In addition to the technical coursework above, students also need to complete 15 hours (5 courses) of core coursework. These courses can be taken at any time.
✓	Course	Credits	
	Texas Core Curriculum 1	3	
	Texas Core Curriculum 2	3	
	Texas Core Curriculum 3	3	
	Texas Core Curriculum 4	3	
	Texas Core Curriculum 5	3	

Total Degree Hours: 60

Some recommended core courses for engineering students:

- ENGL 1301 – Freshman Composition I
- GOVT 2305 – National Government
- GOVT 2306 – Texas Government
- HIST 1301 – History Of US To 1877
- HIST 1302 – History Of US From 1877

Some recommended “Catch-up” courses for students entering MCC with a minimal science or technology background:

- CHEM 1405 – Introductory Chemistry I
- PHYS 1401 – General Physics I
- COSC 1301 – Microcomputer Applications
- COSC 1336 – Programming Fundamentals I