

Associate of Science in Mechanical 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 – Statics [†]	3		ENGR 2305 [†] & 2105 Circuits	4
	PHYS 2426 University Physics II [†]	4		ENGR 2302 Engr Mech – Dynamics [†]	3
	CHEM 1409 Chem for Engineers [†] or CHEM 1411 General Chemistry I	4		MATH 2320 Differential Equations	3
	MATH 2415 Calculus III [†]	4			

Additional Coursework

Core Classes			<p style="text-align: center;">In addition to the technical coursework above, students also need to complete 15 hours of core coursework. These courses can be taken at any time.</p> <p style="text-align: center;">Engr 2332 – Mechanics of Materials[†] is not required for graduation from MCC but is included in the Mech Engr FOS (see below)</p>
✓	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

Important Notes:

[Texas Education Code \(TEC\) 61.823](#) imposes a legal requirement that a Field of Study (FOS) curriculum must be accepted and applied for credit to the degree program upon a student's acceptance into the program. Related to the FOS statute are the rules of the Texas Higher Education Coordinating Board (THECB), [Texas Administrative Code \(TAC\) 4.32](#). The final version of four Engineering FOS curricula, which were approved by the THECB at its [meeting on July 27, 2017 \(see page 102\)](#), stipulates that they must be implemented at all institutions no later than fall 2018.

All courses marked with a [†] are courses in the Mechanical Engineering FOS. For students earning a C or better in any of these courses, these courses are ***legally required to transfer and apply to graduation requirements*** upon admission to a Mechanical Engineering program at any Texas public four-year institution.

If your courses are not accepted or you believe you have been denied admission to the program because of your FOS courses, you have the right to file a complaint

- <https://www1.thecb.state.tx.us/Apps/CRAFT/Home/Create>
- Every complaint is reviewed and taken very seriously