

BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING

Catalogue

2018-2019

Student: _____

Date: _____

ID #: _____

Advisor: _____

Year 1

Semester 1	Cr	Status	Semester 2	Cr	Status
ENGR 002 - Graphical Communication	2		CS 020 - Programming for Engineers	3	
CHEM 031 - General Chemistry I	4		PHYS 031 - Physics for Engineers I	4	
FWIL ¹ (ENGS 001 / HCOL 085 / TAP)	3		PHYS 030 - Problem Solving Session I [opt]	[1]	
MATH 021 - Calculus I	4		MATH 022 - Calculus II	4	
General Education Elective ²	3		ME 001 - First Year Design Experience ⁶	2	
ENGR 050 - FY Engineering Seminar [opt]	[1]		ME 003 - Intro. to Robotics	1	
			Diversity 1 or 2 ³ (D1 or D2 courses)	3	
<i>Total credits</i>	<i>16-17</i>		<i>Total credits</i>	<i>17-18</i>	

Year 2

Semester 1	Cr	Status	Semester 2	Cr	Status
CE 001 - Statics	3		ME 012 - Dynamics	3	
ME 040 - Thermodynamics	3		ME 042 - Applied Thermodynamics (SU)	3	
MATH 121 - Calculus III	4		MATH 271 - Appl. Math. for Engr. & Sci.	3	
PHYS 125 - Physics for Engineers II	3		ME 014 - Mechanics of Solids	3	
PHYS 123 - Problem Solving Session II [opt]	[1]		Diversity 1 ³ (D1 courses)	3	
ME 081 - Mech. Engr. Shop Experience	1		ME 083 - Computational Mech. Engr. Lab	1	
<i>Total credits</i>	<i>14-15</i>		<i>Total credits</i>	<i>16</i>	

Year 3

Semester 1	Cr	Status	Semester 2	Cr	Status
ME 111 - System Dynamics	3		ME 144 - Heat Transfer	3	
ME 143 - Fluid Mechanics	3		ME 171 - Design of Elements	3	
ME 101 - Materials Engineering	3		STAT 143 - Statistics for Engineers	3	
MATH 124 - Linear Algebra or MATH 122 - Applied Linear Algebra	3		EE 101 - Digital Control w/ Embedded Sys.	4	
EE 100 - Electrical Engr. Concepts I	4		ME 124 - Materials and Mechanics Lab	2	
ME 123 - Thermo-Fluid Lab	2				
<i>Total credits</i>	<i>18</i>		<i>Total credits</i>	<i>15</i>	

Year 4

Semester 1	Cr	Status	Semester 2	Cr	Status
ME 185 - Capstone Design I	3		ME 186 - Senior Design Project II	3	
Mechanical Engineering Elective ⁴	3		Mechanical Engineering Elective ⁴	3	
Mechanical Engineering Elective ⁴	3		Mechanical Engineering Elective ⁴	3	
Technical Elective ⁵	3		Technical Elective ⁵	3	
General Education Elective ²	3		General Education Elective ²	3	
<i>Total credits</i>	<i>15</i>		<i>Total credits</i>	<i>15</i>	

Minimum Total Credits Required for Degree: 126

1. Foundational Writing and Information Literacy (FWIL) is a University requirement. Students must take either ENGS 001 or HCOL 085 (only for students enrolled in the Honors College). Students transferring from the College of Arts and Sciences can use a TAP class to fulfill this requirement.

2. Required General Education (GenEd) Electives: 9 credits of approved GenEd electives.

3. Diversity courses are a University requirement. Students must take one three-credit D1 course and a second three-credit D1 or D2 course.

4. ME Electives: [ME 161](#) and all 200-level (or above) ME courses.

5. Technical Electives: All 100-level (or higher) courses in BME, CE, EE, ENGR, ME, CS, CSYS, MATH, ASTR, BIOC, BIOL, CHEM, GEOL, MMG & PHYS; STAT 151 or higher; CS 021.

6. Transfer students without applicable transfer credit have the option of either taking [ME 001](#) or replacing the credits with engineering course work at the 100-level or higher.

N.B. The University's Sustainability (SU) and Quantitative Reasoning (QR) requirements are built into the Mechanical Engineering curriculum. ME 042 counts as the SU requirement. The QR requirement is satisfied by any MATH course.