

BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING

Catalogue

Student: _____

Date: _____

2017-2018

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	
Foundational Writing and Info Literacy ¹	3		PHYS 030 - Prob. Solv. 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 ⁵	2	
ENGR 050 - First Year Engineering Seminar [opt]	[1]		ME 003 - Intro to Robotics	1	
			General Education Elective ²	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	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 - Prob. Solv. Session II [opt]	[1]		General Education Elective ²	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 ³	3		Mechanical Engineering Elective ³	3	
Mechanical Engineering Elective ³	3		Mechanical Engineering Elective ³	3	
Technical Elective ⁴	3		Technical Elective ⁴	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>	

1. Foundational Writing and Information Literacy: Students must take either ENGS 001 or HCOL 085 (only if the student is 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 Electives (GenEd): fifteen credits of approved GenEd electives, including three credits of D1 and three credits of D1 or D2.

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

4. 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.

5. 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.