

Mechanical Engineering—Major Requirements for BS Degree

Effective Fall 2016

University of California, Merced

Anticipated Graduation Date (ex: May 2020) _____

Full Name: _____ ID #: _____ Email _____

Requirement/ Course Dept #	Course Title	Grade	Units or # Required	Term/Year Completed	Substitute Approved
UCM Requirements					
-UC Entry Level Writing			n/a		
-American History/Institutions			n/a		
-CORE 001	World at Home I		1 course		
-WRI 010	College Composition		1 course		
School Requirements					
-MATH 021	Calculus I		4 units		
-MATH 022	Calculus II		4 units		
-MATH 023	Vector Calculus		4 units		
-MATH 024	Linear Algebra and Differential Equations		4 units		
-MATH 032	Probability and Statistics		4 units		
-PHYS 008	Introductory Physics I		4 units		
-PHYS 009	Introductory Physics II		4 units		
-ME 021	Engineering Computing		4 units		
-Science Course	BIO 001, BIO 005, ESS 001, or ESS 005		4 units		
-Arts/Humanities GE			3-4 units		
-Social Science GE			3-4 units		
Major/Core Requirements					
-ENGR 097/197 or SSHA GE			3 units		
-Upper-division Writing Course			4 units		
<i>Engineering Fundamentals</i>					
-ENGR 045	Introduction to Materials		4 units		
-ENGR 057	Statics and Dynamics		4 units		
-ENGR 130	Thermodynamics		3 units		
-ENGR 151	Strength of Materials		4 units		
-ENGR 155	Engineering Economics Analysis		3 units		
<i>Mechanical Engineering Core</i>					
-ENGR 065	Circuit Theory		4 units		
-ENGR 120	Fluid Mechanics		4 units		
-ENGR 135	Heat Transfer		4 units		
-MATH 131	Numerical Analysis I		4 units		
-ME 120	Component Design		3 units		
-ME 137	Computer Aided Engineering		3 units		
-ME 140	Vibration and Control		4 units		
-ME 170	Capstone Design		3 units		
<i>Additional Requirements</i>					
-CHEM 002	General Chemistry I		4 units		
-ENGR 191	Professional Seminar		1 unit		
-Choose 10-15 units from Technical Electives	See Reverse		10-15 units		

Notes/Comments
Advisor Signature/Date:
Student Signature/Date:

This guide is an unofficial document intended to be used for advising/course planning only. This document cannot be used to supersede or waive requirements listed in the UCM Catalog unless approved by your advisor.

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Service Learning/Freshman Seminar/SSHA GE

3 units of ENGR 097/ENGR 197 or one 3-4 unit SSHA GE course.

Term / Course / Team or Title / Units

1.
2.
3.

Technical Elective Courses (choose 10-15 units)

- | | |
|--------------------|----------|
| ME 135 | ENVE 160 |
| ME 136 | ENVE 162 |
| ME 141 | MSE 114 |
| ME 142 | MSE 117 |
| ME 144 | MSE 118 |
| ME 190 (1-4 units) | MSE 121 |
| ME 195 (1-4 units) | MATH 125 |
| ENVE 130 | MATH 126 |
| ENVE 132 | |

Course Dept. #	Course Title	Grade	Units	Term/Year Completed