

Mechanical Engineering—Major Requirements for BS Degree

Effective Fall 2009

University of California, Merced

Anticipated Graduation Date (ex: May 2010) _____

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					
-CORE 090x or ENGR 097			1 unit		
-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		
-CSE 020	Introduction to Computing I		2 units		
-CSE 021	Introduction to Computing II		2 units		
-BIO 001	Contemporary Biology		4 units		
-CHEM 002	General Chemistry I		4 units		
-Arts/Humanities GE			3-4 units		
-Social Science GE			3-4 units		
Major/Core Requirements					
-ENGR 097 or SSHA GE			2 units		
-ENGR 197 or Upper-division SSHA GE			3 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 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 135	Finite Element Analysis		3 units		
-ME 137	Computer Aided Engineering		3 units		
-ME 140	Vibration and Control		4 units		
-ME 170	Capstone Design		3 units		
-ENGR 191	Professional Seminar		1 unit		
-Choose a minimum of 7 units from Technical Electives			7 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.
 Edited 6/11 to remove CORE 100 requirement. This catalog no longer requires CORE 100 per UGC – 4/27/11.

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Service Learning/Freshman Seminar/SSHA GE

1 unit of either ENGR 097 or CORE 090x is required; remaining 5 units may be ENGR 097, ENGR 197 or SSHA GE (3 units must be upper division).

Term / Course / Team or Topic / Units

1.
2.
3.
4.
5.
6.

Technical Elective Courses

- ENGR 065
- ME 142
- ENVE 130
- ENVE 132
- ENVE 160
- ENVE 162
- MSE 118

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