Materials Science and Engineering—Major Requirements for BS Degree Effective Fall 2017

University of California, Merced	Anticipated Graduation Date (ex: May 2021)
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Full Name: _____ ID #: _____ Email _____

Requirement/ Course Dept #	Course Title	Grade	Units or # Required	Term/Year Completed	Substitute Approved
UCM Requirements	Course Title	Grade	Required	Completed	Approved
-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 Phys Sciences & Eng		4 units		
-MATH 022	Calculus II Phys Sciences & Eng		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		
Engineering Fundamentals					
-ENGR 057	Statics and Dynamics		4 units		
-ENGR 120	Fluid Mechanics		4 units		
-ENGR 130	Thermodynamics		3 units		
-ENGR 151	Strength of Materials		4 units		
-ENGR 155	Engineering Economics		3 units		
MSE Core					
-ENGR 045	Introduction to Materials		4 units		
-MSE 109	Materials Thermodynamics		4 units		
-MSE 110	Solid State Materials Properties		4 units		
-MSE 111	Materials Kinetics and Processing		4 units		
-MSE 112	Materials Selection and Performance		3 units		
-MSE 113	Materials Characterization		4 units		
-MSE 120	Materials Capstone Design		3 units		
Additional Degree Requirements					
-CHEM 002	General Chemistry I		4 units		
-ENGR 191	Professional Seminar		1 unit		
-Choose a minimum of 12 units			12 units		
from Technical Electives			.2 00		
Notes/Comments					

This guide in 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.

Advisor Signature/Date: Student Signature/Date:

Materials Science and Engineering—Major Requirements for BS Degree Effective Fall 2017 University of California, Merced Anticipated Graduation Date (ex: May 2021) Full Name: _____ ID #: _____ Email _____ 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 a minimum of 12 units from: MSE 104 MSE 126 MSE 114 MSE 195 (4 units maximum) **MSE 115 ENGR 170 MSE 116 BIOE 110 MSE 117 BIOE 111 MSE 118 BIOE 112 MSE 119 CHEM 112** MSE 121

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