Bioengineering—Major Requirements for BS Degree Effective Fall 2017

University of California, Merced Anticipated Graduation Date (ex: May 2021)	
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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 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		
-BioE 021	Computing for Bioengineers		3 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 045	Introduction to Materials		4 units		
Lower Division Requirements					
-BIO 001 + BIO 001L	Contemporary Biology + Lab		5 units		
-BIO 002 + BIO 002L	Introduction to Molecular Biology + Lab		5 units		
-BIOE 060	Signals and Systems for Bioengineers		3 units		
-BIOE 065	Biocircuits Theory		3 units		
-CHEM 002	General Chemistry I		4 units		
-CHEM 010	General Chemistry II		4 units		
-CHEM 008 + CHEM 008L	Principles of Organic Chemistry + Lab		4 units		
Upper Division Requirements					
-BIOE 100	Physiology for Engineers		4 units		
-BIOE 104	Biotransport		4 units		
-BIOE 106	Cell Biology for Engineers		4 units		
-BIOE 113	Bioinstrumentation		4 units		
-BIOE 130	Biothermodynamics		3 units		
- BIOE 135	Biochemistry for Engineers		4 units		
-BIOE 140	Biomolecular Engineering		4 units		
-BIOE 150	Bioengineering Design		3 units		
-BIOE 166	Bioelectronics		3 units		
Additional Degree Requirements					
-ENGR 191	Professional Seminar		1 unit		
-Choose at least one technical			1 001:500		
elective (see page 2)			1 course		

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

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.

Bioengineering—Major Requirement	nts for BS Degree				
Effective Fall 2017 University of California, Merced					
Full Name:	ID #:	Email			
Service Learning/ SSHA GE Students may take either 3 units of ENGR 097/ENGR 197, or one 3-4 unit SSHA GE course					
Term / Course / Team or Title / Units 1.					
1. 2. 3.					
3.					
Technical Elective Courses (Choose 1)					
BIOE 103 (Biosensors and Bioinstr	rumentation)				

BIOE 112 (Biomolecule-Substrate Interactions)

BIOE 114 (Tissue Engineering Design)

BIOE 124 (Introduction to Biomedical Imaging)

BIOE 195 (Upper-Division Undergraduate Research)

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