Computer Science and 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 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		
-CSE 020	Introduction to Computing I		2 units		
-CSE 021	Introduction to Computing II		2 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		
Lower-Division Courses					
-CSE 015	Discrete Mathematics		4 units		
-CSE 030	Data Structures		4 units		
-CSE 031	Computer Org & Assembly Language		4 units		
-ENGR 065	Circuit Theory		4 units		
Upper-Division Courses					
-CSE 100	Algorithm Design		4 units		
-CSE 120	Software Engineering*		4 units		
	*taken as ENGR 190 in fall semesters				
Additional Degree Requirements					
-ENGR 191	Professional Seminar		1 unit		
Choose a minimum of 30 units of technical electives	(See reverse)		30 units		

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

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

Term / Course / Team or Title / Units

1.
2.
3.

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.

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Technical Elective Courses
A total of 30 units of engineering technical electives are required. A minimum of 20 units must be CSE upper-division or graduate courses outside of Core Classes. Students may select from:

CSE 106	CSE 171
CSE 107	CSE 173
CSE 111	CSE 175
CSE 126	CSE 176
CSE 135	CSE 177
CSE 140	CSE 178
CSE 150	CSE 179
CSE 160	CSE 180
CSE 165	CSE 185
CSE 170	

Any combination of classes such as MATH 131, MATH 141, Service Learning (ENGR 097/197 – maximum 4 units), Engineering fundamental courses, all Engineering upper-division courses, and all Engineering graduate-level courses can be used to satisfy the remaining 10 units. Other upper-division courses outside your major area can be selected with approval

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

Total Technical Elective Units: 30