

Computer Science and Engineering—Major Requirements for BS Degree

Effective Fall 2014

University of California, Merced

Anticipated Graduation Date (ex: May 2018) \_\_\_\_\_

Full Name: \_\_\_\_\_ ID #: \_\_\_\_\_ Email \_\_\_\_\_

Requirement/ Course Dept #	Course Title	Grade	Units or # Required	Term/Year Completed	Substitute Approved
<b>UCM Requirements</b>					
-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		
<b>School Requirements</b>					
-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		
-BIO 001	Contemporary Biology		4 units		
-Arts/Humanities GE			3-4 units		
-Social Science GE			3-4 units		
<b>Major/Core Requirements</b>					
-ENGR 097/197 or SSHA GE			3 units		
-Upper-division Writing Course			4 units		
<b>Engineering Fundamentals</b>					
<i>Choose 8 units from the following</i>					
-ENGR 045	Introduction to Materials		4 units		
-ENGR 057	Statics and Dynamics		4 units		
-ENGR 065	Circuit Theory		3 units		
-ENGR 120	Fluid Mechanics		4 units		
-ENGR 130	Thermodynamics		3 units		
-ENGR 140 (same as CSE165)	Objects Oriented Programming		4 units		
-ENGR 151	Strength of Materials		4 units		
-ENGR 155	Engineering Economics		3 units		
-ENGR 160 (same as CSE 115)	Discrete Mathematics		4 units		
-ENGR 180	Spatial Analysis		4 units		
<b>CSE Core</b>					
-CSE 030	Intro to Computer Science I		4 units		
-CSE 031	Intro to Computer Science II		4 units		
-ENGR 191	Professional Seminar		1 unit		
<i>And choose 4 courses from the following</i>					
-CSE 100	Algorithm Design and Analysis		4 units		
-CSE 111	Database Systems		4 units		
-CSE 115 (same as ENGR 160)	Discrete Mathematics		4 units		
-CSE 120	Software Engineering		4 units		
-CSE 140	Computer Architecture		4 units		
-CSE 150	Operating Systems		4 units		
-CSE 160	Computer Networks		4 units		
Choose a minimum of 24 units of technical electives	(See reverse)		24 units		

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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<b>Notes/Comments</b>
<b>Advisor Signature/Date:</b>
<b>Student Signature/Date:</b>

**Service Learning/Freshman Seminar/SSHA GE**

3 units of either ENGR 097/ENGR 197, or 1 SSHA GE course.

Term / Course / Team or Title / Units

1.
2.
3.

**Technical Elective Courses**

*A total of 24 units of CSE technical electives are required. A technical elective is **any upper-division CSE course, or MATH 131, or MATH 141**. Upper-division core courses taken in excess of the core requirements may be counted as technical electives. 4-units maximum of CSE 195 may apply toward technical electives.*

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