

Computer Science and Engineering—Major Requirements for BS Degree

Effective Fall 2015

University of California, Merced

Anticipated Graduation Date (ex: May 2019) _____

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		
Engineering Fundamentals					
<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		
CSE Core					
-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 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.

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

Service Learning/Freshman Seminar/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.

Technical Elective Courses

A total of 24 units of CSE technical electives are required. Select from the following courses:

- | | |
|---------|----------|
| CSE 106 | CSE 176 |
| CSE 107 | CSE 177 |
| CSE 126 | CSE 178 |
| CSE 135 | CSE 179 |
| CSE 165 | CSE 180 |
| CSE 170 | CSE 185 |
| CSE 171 | MATH 131 |
| CSE 173 | MATH 141 |
| CSE 175 | |

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