

Computer 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 _____

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		
<u>Lower-Division Courses</u>					
-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		
<u>Upper-Division Courses</u>					
-CSE 100	Algorithm Design		4 units		
-CSE 120	Software Engineering*		4 units		
	*taken as ENGR 190 in fall semesters				
Choose a minimum of 30 units of technical electives	(See page 2)		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.

Computer 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 _____

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