

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
<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		
-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		
<b>Major/Core Requirements</b>					
-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				
<u>Additional Degree Requirements</u>					
-ENGR 191	Professional Seminar		1 unit		
Choose a minimum of 30 units of technical electives	(See page 2)		30 units		

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

**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**