

COMPUTER ENGINEERING

- This worksheet is intended for supplemental use only. The University will use your Academic Requirements Report (ARR) to track your graduation requirements, including those for your major. Please continue to check your ARR for accuracy.
- If your ARR requires a correction, please submit an [ARR Correction Form](#).
- Your [Degree Planner](#) (in [mycsusm.edu](#)) will display the following requirements in the University’s recommended sequence.
- All courses used for the major and preparation for the major must be completed with a grade of C (2.0) or higher.
- All non-articulated courses MUST be reviewed and approved by a faculty advisor in the corresponding department.
- A minimum of 15 upper-division units counted for the major must be completed at CSUSM.

PREPARATION FOR THE MAJOR (46 UNITS)

Lower-division Courses (16 units):

✓	Course	Units
<input type="checkbox"/>	CE 100: Introduction to Computer Engineering	1
<input type="checkbox"/>	CS 111: Computer Science I (^MATH 125 or 160)	4
<input type="checkbox"/>	CS 211: Computer Science II (*CS 111; ^MATH 60)	4
<input type="checkbox"/>	CS 231: Assembly Language and Digital Circuits (*CS 111)	4
<input type="checkbox"/>	EE/PHYS 280: Introduction to Circuit Analysis (*{EE 100 and PHYS 201} or PHYS 202 or 206)	3

Supporting Courses (30 units):

✓	Course	Units
<input type="checkbox"/>	MATH 160: Calculus with Applications I (*MATH 125, 126 or MATH Placement Exam)	5
<input type="checkbox"/>	MATH 162: Calculus with Applications II (*MATH 160)	4
<input type="checkbox"/>	MATH 260A: Multivariable Integration (*MATH 162)	1
<input type="checkbox"/>	MATH 270: Basic Discrete Mathematics (*MATH 160)	3
<input type="checkbox"/>	EE/MATH 342: Probability and Statistics for Engineers/Scientists (*CS 111 and MATH 260 or 260A)	3
<input type="checkbox"/>	MATH 346: Mathematical Methods for Engineering and Physics (*MATH 162)	3
<input type="checkbox"/>	PHYS 201: Physics of Mechanics and Sound (*MATH 160)	4
<input type="checkbox"/>	PHYS 202: Physics of Electromagnetism and Optics (*PHYS 201 or 205 and MATH 162)	4
<input type="checkbox"/>	PHIL 348: Ethics in Engineering	3

UPPER-DIVISION COURSEWORK (38 UNITS)

✓	Course	Units
<input type="checkbox"/>	CE/EE/PHYS 301: Digital Systems Design with HDL (*{EE 100, CS 111} or {CS 231 and PHYS 202 or 206})	4
<input type="checkbox"/>	CE 310: Introduction to Computer Engineering Laboratory (*CS 231; ^CE 100)	1
<input type="checkbox"/>	CE/EE/PHYS 402: Microcontroller Systems and Computer Interfacing (*CE/EE/PHYS 301)	4
<input type="checkbox"/>	CE 411: System-on-Chip Design (*CE 310, 331)	3
<input type="checkbox"/>	CS 311: Data Structures and Algorithms (*CS 211, ^MATH 270)	3
<input type="checkbox"/>	CS 331: Computer Architecture (*CS 231)	3
<input type="checkbox"/>	CS 433: Operating Systems (*CS 231, 311)	3

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<input type="checkbox"/>	CS 436: Introduction to Networking (*CS 311)	3
<input type="checkbox"/>	EE 303: Signals and Systems (*EE/PHYS 280; ^MATH 346)	3
<input type="checkbox"/>	EE 330: Electronic Circuits I (*EE/PHYS 280)	4
<input type="checkbox"/>	CE/EE 491A: Senior Project Planning (*instructor consent)	1
<input type="checkbox"/>	CE/EE 491B: Senior Lab Project (*CE/EE 491A)	3

Computer Engineering Electives (3 units):

Choose a 400-level course from Computer Science, Computer Engineering, Electrical Engineering or SE 370*.

<input checked="" type="checkbox"/>	Course	Units
<input type="checkbox"/>	400-level course: _____	3