

ELECTRICAL 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 Student Center and 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.
- A minimum of fifteen (15) upper-division units counted toward the major must be completed at CSUSM.
- All non-articulated courses MUST be reviewed and approved by a faculty advisor in the corresponding department.

PREPARATION FOR THE MAJOR (36 UNITS)

Supporting Courses (25 units):

✓	Course	Units
<input type="checkbox"/>	MATH 160: Calculus with Applications I (*MATH 125 or MATH 160 Placement Exam) PC MATH 140	5
<input type="checkbox"/>	MATH 162: Calculus with Applications II (*MATH 160) PC MATH 141	4
<input type="checkbox"/>	MATH 260: Calculus III (*MATH 162) PC MATH 205	4
<input type="checkbox"/>	PHYS 201: Physics of Mechanics and Sound (*MATH 160) PC PHYS 230	4
<input type="checkbox"/>	PHYS 202: Physics of Electromagnetism and Optics (*PHYS 201, MATH 162) PC PHYS 231	4
<input type="checkbox"/>	PHYS 203: Thermodynamics and Modern Physics (*PHYS 202 or 206) PC PHYS 232	4

Lower Division (11 units):

✓	Course	Units
<input type="checkbox"/>	CS 111: Computer Science I (^MATH 160) PC CSCI 112 + CSCI 222	4
<input type="checkbox"/>	CS 231: Assembly Language and Digital Circuits (*CS 111) PC CSCI 212	4
<input type="checkbox"/>	EE 280: Introduction to Electronics (*PHYS 202 or 206) PC ENGR 210 + ENGR 210L	3

UPPER-DIVISION COURSEWORK (48 UNITS)

Core Coursework (42 units):

✓	Course	Units
<input type="checkbox"/>	MATH 342: Probability and Statistics for Engineers and Scientists (*MATH 260)	3
<input type="checkbox"/>	MATH 346: Methods for Physicists and Engineers I (*MATH 162)	3
<input type="checkbox"/>	PHYS 321: Classical Electromagnetism (*PHYS 202 or 206 and MATH 260)	3
<input type="checkbox"/>	PHIL 348: Ethics in Engineering and Science	3
<input type="checkbox"/>	EE 301: Digital Electronics (*CS 231, PHYS 202 or 206)	4
<input type="checkbox"/>	EE 303: Signals and Systems (*PHYS 203, ^MATH 346)	3
<input type="checkbox"/>	EE 322: Solid State Devices (*PHYS 203, 280 or EE 280)	3
<input type="checkbox"/>	EE 330: Electronic Circuits I (*EE 280 or PHYS 280 and MATH 346)	4
<input type="checkbox"/>	EE 402: Computer Interfacing and Control (*PHYS 301 or EE 301)	4
<input type="checkbox"/>	EE 415: Instrumentation – Sensing and Controls (*EE 280 or PHYS 280 and EE 303 and 330; ^EE 430)	4
<input type="checkbox"/>	EE 430: Electronic Circuits II (*EE 330)	4
<input type="checkbox"/>	EE 491A: Senior Project Planning (*instructor consent)	1
<input type="checkbox"/>	EE 491B: Senior Lab Project (*EE 491A)	3

^co/prerequisite, *prerequisite

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Elective Courses (6 units):

Choose 2 courses from the following:

EE 404: Digital Signal Processing (*EE 303 or PHYS 303)

EE 406: Digital Embedded Systems Design w/ HDL (*CS 331 or PHYS 301 or EE 301)

EE 435: Communication Systems (*EE 303)

PHYS 421: Applied Electromagnetic Waves (*PHYS 321 or EE 321 and MATH 346)

PHYS 422: Applied Solid State Physics (*PHYS 203; ^MATH 346)

PHYS 442: Physical & Geometric Optics (*PHYS 321)

✓ <input type="checkbox"/>	Course	Units
<input type="checkbox"/>		3
<input type="checkbox"/>		3