CATALOG TERM: 2024-2027 **TOTAL UNITS REQUIRED = 120**

COMPUTER SCIENCE

- 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 will display the following requirements in the University's recommended sequence.
- With the exception of CS 100, 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 15 units counted toward the major must be completed at CSUSM.
- No more than 3 units of CS 498 or 499 may be applied toward the major.
- All non-articulated courses MUST be reviewed and approved by a faculty advisor in the corresponding department.

PREPARATION FOR THE MAJOR (39 UNITS)

Lower Division (13 units):

✔	Course	Units
☐	CS 100: Introduction to the Computing Fields	1
☐	CS 111: Computer Science I (^MATH 125, 126, or 160)	4
☐	CS 211: Computer Science II (*CS 111; ^MATH 160)	4
☐	CS 231: Assembly Language and Digital Circuits (*CS 111)	4

Non-Computer Science Supporting Courses (26 units)

✔	Course	Units
☐	MATH 160: Calculus with Applications I (*MATH 125, 126, or pass Calculus Readiness Diagnostic)	5
☐	MATH 162: Calculus with Applications II (*MATH 160)	4
☐	MATH 242: Introduction to Statistics (*MATH 105 or MATH Category 1 or 2)	3
☐	MATH 264: Introduction to Linear Algebra (*MATH 162)	3
☐	MATH 270: Basic Discrete Mathematics (*MATH 160)	3

Biology, Chemistry or Physics courses that count toward a science major (8 units):

✔	Course	Units
☐		4
☐		4

UPPER-DIVISION COMPUTER SCIENCE COURSEWORK (39 UNITS)

Core Coursework (30 units)

✔	Course	Units
☐	CS 310: Social Issues and Professional Practices in Computing (*CS 111)	3
☐	CS 311: Data Structures and Algorithms (*CS 211; ^CS 310 and MATH 270 or 350)	3
☐	CS 331: Computer Architecture (*CS 231)	3
☐	CS 351: Programming Languages (^CS 311, MATH 270)	3
☐	CS 370/SE 370: Introduction to Software Engineering (^CS 311 and MATH 270 or 350)	3
☐	CS 433: Operating Systems (*CS 231, 311)	3

**prerequisite; ^co/prerequisite*

COMPUTER SCIENCE

	CS 436: Introduction to Networking (*CS 311)	3
	CS 443: Fundamentals of Database Systems (*CS 311)	3
	CS 471: Introduction to Artificial Intelligence (*CS 311 and either MATH 242, 342, 441 or 442)	3
	CS 490: Senior Project (*CS/SE 370; at least 2 400-level CS courses)	3

Computer Science Electives (9 units):

Choose a minimum of 9 units from CS and CIS courses numbered 400 or higher (excluding CIS 490), MATH 464* or MATH 480*.

✔	Course	Units