CATALOG TERM: 2025-2027 **TOTAL UNITS REQUIRED = 120**

COMPUTER INFORMATION SYSTEMS

- 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 CIS 100 or 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 (37 UNITS)

Lower Division (12 units)

Choose 1 of the following courses:

CIS 100: Introduction to Computer Information Systems (*preferred for students admitted as a CIS major)*
CS 100: Introduction to the Computing Fields

✓	Course	Units
☐		1

✓	Course	Units
☐	CIS 200: Foundations of Information Systems (*CIS 100 or CS 100)	3
☐	CS 111: Computer Science I (^MATH 125, 126, or 160)	4
☐	CS 211: Computer Science II (*CS 111; ^MATH 160)	4

Non-Computer Science Supporting Courses (25 units)

✓	Course	Units
☐	ACCT 203: Introduction to Accounting for Managers	4
☐	ECON 201: Principles of Microeconomics	3
☐	ECON 202: Principles of Macroeconomics	3
☐	MATH 160: Calculus with Applications I (*MATH 125, 126, or pass Calculus Readiness Diagnostic)	5
☐	MATH 242: Introduction to Statistics (*MATH 105, more advanced MATH, or MATH Category 1 or 2)	3
☐	MATH 270: Basic Discrete Mathematics (*MATH 160)	3
☐	MKTG 302: Foundations of Marketing (*ACCT 203; ECON 201, 202; MATH 160)	2
☐	OM 302: Foundations of Operations Management (*ACCT 203; ECON 201, 202, MATH 160, 242)	2

UPPER-DIVISION COURSEWORK (39 UNITS)

✓	Course	Units
☐	CIS 341: Computer System Analysis and Design (*CIS 200)	3
☐	CIS 444: Web Programming (*CS 443)	3
☐	CIS 470: Introduction to Intelligent Information Systems (*CS 311; ^MATH 242 or MATH/EE 342)	3
☐	CIS 490: Capstone Project (*CS/SE 370; CIS 341, 444; offered spring only)	3

**prerequisite; ^co/prerequisite*

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	CS 310: Social Issues and Professional Practices in Computing (*CS 111)	3
	CS 311: Data Structures and Algorithms (*CS 211; ^MATH 270 or 350)	3
	CS/SE 370: Introduction to Software Engineering (^MATH 270 or 350 and CS 311)	3
	CS 436: Introduction to Networking (*CS 311)	3
	CS 443: Database Management Systems (*CS 311)	3
	CS 452: Introduction to Computer Security (*CS 433 or CIS 444)	3

Computer Information Systems/Computer Science Electives (9 units)

Select 9 units of CS/CIS courses numbered 400 or higher and not already used in the major, excluding CS 490:

✓	Course	Units
		3
		3
		3