

COMPUTER SCIENCE

Computer Information Systems Option

- 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.
- 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 (48-50 UNITS)

Lower Division (12 units)

✓	Course	Units
<input type="checkbox"/>	CS 111: Computer Science I (^MATH 160)	4
<input type="checkbox"/>	CS 211: Computer Science II (*CS 111, MATH 160)	4
<input type="checkbox"/>	CS 231: Assembly Language and Digital Circuits (*CS 111)	4

Non-Computer Science Supporting Courses (36-38 units)

Mathematics Courses:

✓	Course	Units
<input type="checkbox"/>	MATH 160: Calculus with Applications I (*MATH 125, 126 or pass MATH Placement Exam)	5
<input type="checkbox"/>	MATH 270: Basic Discrete Mathematics (*MATH 160; MATH 370 accepted)	3

Choose 1 of the following courses:

- MATH 242: Introduction to Statistics (3) (*MATH 105 or MATH Category 1 or 2)
- MATH 440: Introduction to Mathematical Probability and Statistics (4) (*MATH 260)

✓	Course	Units
<input type="checkbox"/>		3-4

Business, Economics and Social Science Courses:

✓	Course	Units
<input type="checkbox"/>	ACCT 201: Introduction to Financial Accounting	3
<input type="checkbox"/>	ACCT 202: Introduction to Managerial Accounting (*ACCT 201)	3
<input type="checkbox"/>	ECON 201: Principles of Microeconomics	3
<input type="checkbox"/>	ECON 202: Principles of Macroeconomics	3
<input type="checkbox"/>	PSYC 100: Introduction to Psychology <u>or</u> SOC 101: Introduction to Sociology	3-4
<input type="checkbox"/>	BUS 302: Foundations of Business Environs (*ACCT 201, 202, ECON 201, 202, MATH 160 and PSYC 100 or SOC 101)	2
<input type="checkbox"/>	FIN 302: Foundations of Finance (*ACCT 201, 202, ECON 201, 202, MATH 160 and PSYC 100 or SOC 101)	2
<input type="checkbox"/>	MGMT 302: Foundations of Management (*MATH 160, ACCT 201, 202, ECON 201, 202)	2
<input type="checkbox"/>	MKTG 302: Foundations of Marketing (*MATH 160, ACCT 201, 202, ECON 201, 202)	2
<input type="checkbox"/>	OM 302: Foundations of Operations Management (*ACCT 201, 202, ECON 201, 202, MATH 160 and 242 or 440)	2

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UPPER-DIVISION COURSEWORK (27 UNITS)

✓ <input type="checkbox"/>	Course	Units
<input type="checkbox"/>	CS 311: Data Structures (*CS 211; ^MATH 270)	3
<input type="checkbox"/>	CS 433: Operating Systems (*CS 231, 311)	3
<input type="checkbox"/>	CS 436: Introduction to Networking (*CS 311)	3
<input type="checkbox"/>	CS 441: Software Engineering (*pass 2 400-level CS courses with C or higher)	3
<input type="checkbox"/>	CS 443: Database Management Systems (*CS 311)	3
<input type="checkbox"/>	CIS 341: Computer System Analysis and Design (*CS 211)	3
<input type="checkbox"/>	CIS 444: Web Programming (*CS 443)	3
<input type="checkbox"/>	CIS 490: Project Management and Practice (*CIS 444; offered spring only)	3

Computer Science Elective (3 units):

Select 1 course from CS/CIS numbered 300 or higher.

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