

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](#) (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 (46-50 UNITS)

Lower Division (12 units)

✓ <input type="checkbox"/>	Course	Units
<input type="checkbox"/>	CS 111: Computer Science I (^MATH 125 or 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 (34-38 units)

Mathematics Courses:

✓ <input type="checkbox"/>	Course	Units
<input type="checkbox"/>	MATH 160: Calculus with Applications I (*MATH 125, 126, or pass Calculus Readiness Diagnostic)	5
<input type="checkbox"/>	MATH 242: Introduction to Statistics (*MATH 105, more advanced MATH, or MATH Category 1 or 2)	3
<input type="checkbox"/>	MATH 270: Basic Discrete Mathematics (*MATH 160; MATH 370 accepted)	3

Business, Economics and Social Science Courses:

Choose 1 of the following courses:

- PSYC 100: Introduction to Psychology
- SOC 101: Introduction to Sociology

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

Select one of the following accounting options:

✓ <input type="checkbox"/>	Course	Units
<input type="checkbox"/>	ACCT 203: Introduction to Accounting for Managers	4

OR

<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"/>	Course	Units
<input type="checkbox"/>	ECON 201: Principles of Microeconomics	3
<input type="checkbox"/>	ECON 202: Principles of Macroeconomics	3
<input type="checkbox"/>	BUS 302: Business Environments (*{ACCT 201 and 202} or ACCT 203; ECON 201, 202, MATH 160; and PSYC 100 or SOC 101)	2

*prerequisite; ^co/prerequisite

COMPUTER INFORMATION SYSTEMS

	FIN 302: Foundations of Finance (*{ACCT 201 and 202} or ACCT 203; ECON 201, 202, MATH 160; and PSYC 100 or SOC 101)	2
	MGMT 302: Foundations of Organizational Behavior (*{ACCT 201 and 202} or 203; ECON 201, 202, MATH 160)	2
	MKTG 302: Foundations of Marketing (*{ACCT 201 and 202} or 203; ECON 201, 202, MATH 160)	2
	OM 302: Operations Management ((*{ACCT 201 and 202} or 203; ECON 201, 202, MATH 160; MATH 242 or 440)	2

UPPER-DIVISION COURSEWORK (27-29 UNITS)

	Course	Units
✓	CS 311: Data Structures and Algorithms (*CS 211; ^MATH 270 or 350)	3
	CS/SE 370: Introduction to Software Engineering (^CS 311, MATH 270)	3
	CS 433: Operating Systems (*CS 231, 311)	3
	CS 436: Introduction to Networking (*CS 311)	3
	CS 443: Database Management Systems (*CS 311)	3
	CIS 341: Computer System Analysis and Design (*CS 211)	3
	CIS 444: Web Programming (*CS 443)	3
	CIS 490: Project Management and Practice (*CIS 444; offered spring only)	3

Computer Science Elective (3-5 units):

Students who took ACCT 203 for a Non-Computer Science Supporting Course must select a **minimum of 5 units** of CS/CIS numbered 400 or higher and not already used in the major.

Students who took ACCT 201 and 202 for Non-Computer Science Supporting Courses must select a **minimum of 3 units** of CS/CIS numbered 400 or higher and not already used in the major.

	Course	Units
✓		