Requirement Area	Course	Pegree: Computer Science, B.S. 25-26 Course Title First Semester (FALL)	Prerequisites	Units
Recommended	SCI 130	Connecting to STEM Majors		
IC	COMM 100	Communication		
iB .				
			One from the following:	
			Satisfactory score of 78 or higher on	
			Mathematics	
			Placement Exam, MATH	
			120 or MATH 125 (either course with	
Area 4	MATH 130	Calculus I	grade C- or better).	
Code 1			Total:	
		Second Semester (SPRING)	lotal:	1
		Second Semester (SPRING)		
1A	ENGL 102			
3A				
			Mathematics/QR Placement Category I or	
			II, or successful	
			completion of GE area	
LD Major	CS 101	Computer Science I	Area 4.	
D Major	MATH 131	Calculus II	MATH 130 with grade C- or better.	
LD Major Elective		Salculus II	o- or petter.	
			Total:	1
			. Stun	
		Third Semester (FALL)		
EA/EC	DUVE 12E	Physics for Engineers	MATH 130 with grade	
5A/5C	PHYS 135	Physics for Engineers I	C- or better. MATH 130 with grade	
LD Major	CS 211	Discrete Structures	C- or better.	
	l		CS 101 with grade C- or	
LD Major	CS 201	Computer Science II	better.	
1B/Second Comp				
		F. al. C. and (CRRING)	Total:	1
		Fourth Semester (SPRING)		
Area 4/LD Major	CS 230	Computing and Social Responsibility		
Area 4/Code 2				
		Assembly Language and Computer	CS 100 or CS 101, both	
LD Major	CS 221	Architecture	with grade C- or better.	
LD Major		Architecture	with grade C- or better.	
LD Major	CS 221 MATH 225			
		Architecture	with grade C- or better. CS 101 and MATH 130.	
LD Major		Architecture	with grade C- or better.	
LD Major		Architecture Numerical Algorithms and Linear Algebra	with grade C- or better. CS 101 and MATH 130.	
LD Major		Architecture	with grade C- or better. CS 101 and MATH 130. Total: Completion of GE Areas	
LD Major		Architecture Numerical Algorithms and Linear Algebra	with grade C- or better. CS 101 and MATH 130. Total: Completion of GE Areas 1A, 1B, 1C and GE-2	
LD Major 3B		Architecture Numerical Algorithms and Linear Algebra	with grade C- or better. CS 101 and MATH 130. Total: Completion of GE Areas 1A, 1B, 1C and GE-2 with grade C- (CR) or	1
LD Major 3B UD-Area 5/Overlay		Architecture Numerical Algorithms and Linear Algebra Fifth Semester (FALL)	with grade C- or better. CS 101 and MATH 130. Total: Completion of GE Areas 1A, 1B, 1C and GE-2	1
LD Major 38 UD-Area 5/Overlay Area 6	MATH 225	Architecture Numerical Algorithms and Linear Algebra Fifth Semester (FALL) Ethnic Studies	with grade C- or better. CS 101 and MATH 130. Total: Completion of GE Areas 1A, 1B, 1C and GE-2 with grade C- (CR) or better	1
LD Major 38 UD-Area 5/Overlay Area 6 UD Major	MATH 225	Architecture Numerical Algorithms and Linear Algebra Fifth Semester (FALL) Ethnic Studies Statistics for Science and Engineering	with grade C- or better. CS 101 and MATH 130. Total: Completion of GE Areas 1A, 1B, 1C and GE-2 with grade C- (CR) or better MATH 131	1
LD Major 38 UD-Area 5/Overlay Area 6 UD Major	MATH 225	Architecture Numerical Algorithms and Linear Algebra Fifth Semester (FALL) Ethnic Studies	with grade C- or better. CS 101 and MATH 130. Total: Completion of GE Areas 1A, 1B, 1C and GE-2 with grade C- (CR) or better	1
LD Major 38 UD-Area 5/Overlay Area 6 UD Major UD Major	MATH 225	Architecture Numerical Algorithms and Linear Algebra Fifth Semester (FALL) Ethnic Studies Statistics for Science and Engineering	with grade C- or better. CS 101 and MATH 130. Total: Completion of GE Areas 1A, 1B, 1C and GE-2 with grade C- (CR) or better MATH 131 CS 201 and CS 211 CS 201 and CS 211 CS 201 and CS 21, both with grade C- or better.	1
D Major 38 JUD-Area 5/Overlay Area 6 JUD Major JUD Major	MATH 225 STAT 316 CS 301	Architecture Numerical Algorithms and Linear Algebra Fifth Semester (FALL) Ethnic Studies Statistics for Science and Engineering Data Structures Computer Architecture	with grade C- or better. CS 101 and MATH 130. Total: Completion of GE Areas 1A, 1B, 1C and GE-2 with grade C- (CR) or better MATH 131 CS 201 and CS 211 CS 201 and CS 221, both	1
LD Major 38 JUD-Area 5/Overlay Area 6 JUD Major JUD Major JUD Major	MATH 225 STAT 316 CS 301	Architecture Numerical Algorithms and Linear Algebra Fifth Semester (FALL) Ethnic Studies Statistics for Science and Engineering Data Structures	with grade C- or better. CS 101 and MATH 130. Total: Completion of GE Areas 1A, 1B, 1C and GE-2 with grade C- (CR) or better MATH 131 CS 201 and CS 211 CS 201 and CS 211 CS 201 and CS 21, both with grade C- or better.	1
LD Major 38 UD-Area 5/Overlay Area 6 UD Major UD Major UD Major UD Major	MATH 225 STAT 316 CS 301	Architecture Numerical Algorithms and Linear Algebra Fifth Semester (FALL) Ethnic Studies Statistics for Science and Engineering Data Structures Computer Architecture	with grade C- or better. CS 101 and MATH 130. Total: Completion of GE Areas 1A, 1B, 1C and GE-2 with grade C- (CR) or better MATH 131 CS 201 and CS 211 CS 201 and CS 211 CS 201 and CS 21, both with grade C- or better.	1
LD Major 33B UD-Area 5/Overlay Area 6 Area 6 UD Major UD Major UD Major UD Major UD Major	MATH 225 STAT 316 CS 301 CS 321	Architecture Numerical Algorithms and Linear Algebra Fifth Semester (FALL) Ethnic Studies Statistics for Science and Engineering Data Structures Computer Architecture Sixth Semester (SPRING)	with grade C- or better. CS 101 and MATH 130. Total: Completion of GE Areas 1A, 1B, 1C and GE-2 with grade C- (CR) or better MATH 131 CS 201 and CS 211 CS 201 and CS 221, both with grade C- or better. Total:	1
LD Major	MATH 225 STAT 316 CS 301	Architecture Numerical Algorithms and Linear Algebra Fifth Semester (FALL) Ethnic Studies Statistics for Science and Engineering Data Structures Computer Architecture	with grade C- or better. CS 101 and MATH 130. Total: Completion of GE Areas 1A, 1B, 1C and GE-2 with grade C- (CR) or better MATH 131 CS 201 and CS 211 CS 201 and CS 211 CS 201 and CS 21, both with grade C- or better.	1
LD Major 3B UD-Area 5/Overlay Area 6 UD Major	STAT 316 CS 301 CS 321 CS 311 CS 441	Architecture Numerical Algorithms and Linear Algebra Fifth Semester (FALL) Ethnic Studies Statistics for Science and Engineering Data Structures Computer Architecture Sixth Semester (SPRING) Programming Language Concepts Computer Networks	with grade C- or better. CS 101 and MATH 130. Total: Completion of GE Areas 1A, 1B, 1C and GE-2 with grade C- (CR) or better MATH 131 CS 201 and CS 221, both with grade C- or better. Total: CS 201 and CS 221. CS 201 and CS 221. CS 301 CS 301 CS 301 CS 3MATH 211 and CS	1
LD Major 3B UD-Area 5/Overlay Area 6 UD Major	MATH 225 STAT 316 CS 301 CS 321 CS 311	Architecture Numerical Algorithms and Linear Algebra Fifth Semester (FALL) Ethnic Studies Statistics for Science and Engineering Data Structures Computer Architecture Sixth Semester (SPRING) Programming Language Concepts	with grade C- or better. CS 101 and MATH 130. Total: Completion of GE Areas 1A, 1B, 1C and GE-2 with grade C- (CR) or better MATH 131 CS 201 and CS 221, both with grade C- or better. Total: CS 201 and CS 221. CS 301 CS/MATH 211 and CS 301 CS/MATH 211 and CS 301	1
LD Major 38 JUD-Area 5/Overlay Area 6 JD Major	STAT 316 CS 301 CS 321 CS 311 CS 441	Architecture Numerical Algorithms and Linear Algebra Fifth Semester (FALL) Ethnic Studies Statistics for Science and Engineering Data Structures Computer Architecture Sixth Semester (SPRING) Programming Language Concepts Computer Networks	with grade C- or better. CS 101 and MATH 130. Total: Completion of GE Areas 1A, 1B, 1C and GE-2 with grade C- (CR) or better MATH 131 CS 201 and CS 221, both with grade C- or better. Total: CS 201 and CS 221. CS 201 and CS 221. CS 301 CS 301 CS 301 CS 3MATH 211 and CS	1
LD Major 38 JUD-Area 5/Overlay Area 6 JD Major	STAT 316 CS 301 CS 321 CS 311 CS 441	Architecture Numerical Algorithms and Linear Algebra Fifth Semester (FALL) Ethnic Studies Statistics for Science and Engineering Data Structures Computer Architecture Sixth Semester (SPRING) Programming Language Concepts Computer Networks	with grade C- or better. CS 101 and MATH 130. Total: Completion of GE Areas 1A, 1B, 1C and GE-2 with grade C- (CR) or better MATH 131 CS 201 and CS 221, both with grade C- or better. Total: CS 201 and CS 221. CS 301 CS/MATH 211 and CS 301 CS/MATH 211 and CS 301	1
LD Major 3B UD-Area 5/Overlay Area 6 UD Major	STAT 316 CS 301 CS 321 CS 311 CS 441	Architecture Numerical Algorithms and Linear Algebra Fifth Semester (FALL) Ethnic Studies Statistics for Science and Engineering Data Structures Computer Architecture Sixth Semester (SPRING) Programming Language Concepts Computer Networks Analysis of Algorithms	with grade C- or better. CS 101 and MATH 130. Total: Completion of GE Areas 1A, 1B, 1C and GE-2 with grade C- (CR) or better MATH 131 CS 201 and CS 221, both with grade C- or better. Total: CS 201 and CS 221. CS 301 CS/MATH 211 and CS 301 CS/MATH 211 and CS 301	1
LD Major 38 UD-Area 5/Overlay Area 6 UD Major	STAT 316 CS 301 CS 321 CS 311 CS 441	Architecture Numerical Algorithms and Linear Algebra Fifth Semester (FALL) Ethnic Studies Statistics for Science and Engineering Data Structures Computer Architecture Sixth Semester (SPRING) Programming Language Concepts Computer Networks	with grade C- or better. CS 101 and MATH 130. Total: Completion of GE Areas 1A, 1B, 1C and GE-2 with grade C- (CR) or better MATH 131 CS 201 and CS 221, both with grade C- or better. Total: CS 201 and CS 221. CS 301 CS/MATH 211 and CS 301 Total:	1
LD Major 3B UD-Area 5/Overlay Area 6 UD Major	STAT 316 CS 301 CS 321 CS 311 CS 441	Architecture Numerical Algorithms and Linear Algebra Fifth Semester (FALL) Ethnic Studies Statistics for Science and Engineering Data Structures Computer Architecture Sixth Semester (SPRING) Programming Language Concepts Computer Networks Analysis of Algorithms	with grade C- or better. CS 101 and MATH 130. Total: Completion of GE Areas 1A, 1B, 1C and GE-2 with grade C- (CR) or better MATH 131 CS 201 and CS 221, both with grade C- or better. Total: CS 201 and CS 221. CS 201 and CS 221. CS 301 CS/MATH 211 and CS 301 Total:	1
LD Major 38 JUD-Area 5/Overlay Area 6 JD Major	STAT 316 CS 301 CS 321 CS 311 CS 441	Architecture Numerical Algorithms and Linear Algebra Fifth Semester (FALL) Ethnic Studies Statistics for Science and Engineering Data Structures Computer Architecture Sixth Semester (SPRING) Programming Language Concepts Computer Networks Analysis of Algorithms	with grade C- or better. CS 101 and MATH 130. Total: Completion of GE Areas 1A, 1B, 1C and GE-2 with grade C- (CR) or better MATH 131 CS 201 and CS 221, both with grade C- or better. Total: CS 201 and CS 221. CS 301 CS/MATH 211 and CS 301 Total:	1
LD Major 38 JUD-Area 5/Overlay Area 6 JUD Major	STAT 316 CS 301 CS 321 CS 311 CS 441	Architecture Numerical Algorithms and Linear Algebra Fifth Semester (FALL) Ethnic Studies Statistics for Science and Engineering Data Structures Computer Architecture Sixth Semester (SPRING) Programming Language Concepts Computer Networks Analysis of Algorithms	with grade C- or better. CS 101 and MATH 130. Total: Completion of GE Areas 1A, 1B, 1C and GE-2 with grade C- (CR) or better MATH 131 CS 201 and CS 221, both with grade C- or better. Total: CS 201 and CS 221. CS 301 Total: CS 201 and CS 221. CS 301 Total:	1
LD Major 38 JUD-Area 5/Overlay Area 6 JD Major	STAT 316 CS 301 CS 321 CS 311 CS 441 CS 413	Architecture Numerical Algorithms and Linear Algebra Fifth Semester (FALL) Ethnic Studies Statistics for Science and Engineering Data Structures Computer Architecture Sixth Semester (SPRING) Programming Language Concepts Computer Networks Analysis of Algorithms Seventh Semester (FALL)	with grade C- or better. CS 101 and MATH 130. Total: Completion of GE Areas 1A, 18, 1C and GE-2 with grade C- (CR) or better MATH 131 CS 201 and CS 221, both with grade C- or better. Total: CS 201 and CS 221. CS 301 CS/MATH 211 and CS 301 Total: Completion of GE Areas 1A, 18, 1C and GE-2 with grade C- (CR) or better. CS 201 with grade C- (CR) or better. CS 301 with grade C- or or better. CS 301 with grade C- or better.	1
LD Major 38 JUD-Area 5/Overlay Area 6 JD Major	STAT 316 CS 301 CS 321 CS 311 CS 441	Architecture Numerical Algorithms and Linear Algebra Fifth Semester (FALL) Ethnic Studies Statistics for Science and Engineering Data Structures Computer Architecture Sixth Semester (SPRING) Programming Language Concepts Computer Networks Analysis of Algorithms	with grade C- or better. CS 101 and MATH 130. Total: Completion of GE Areas 1A, 1B, 1C and GE-2 with grade C- (CR) or better MATH 131 CS 201 and CS 221, both with grade C- or better. Total: CS 201 and CS 221. CS 301 CS 301 CS 301 CS 301 CS 301 CS 301 Total:	1
LD Major 38 JUD-Area 5/Overlay Area 6 JD Major	MATH 225 STAT 316 CS 301 CS 321 CS 311 CS 441 CS 413 CS 401	Architecture Numerical Algorithms and Linear Algebra Fifth Semester (FALL) Ethnic Studies Statistics for Science and Engineering Data Structures Computer Architecture Sixth Semester (SPRING) Programming Language Concepts Computer Networks Analysis of Algorithms Seventh Semester (FALL)	with grade C- or better. CS 101 and MATH 130. Total: Completion of GE Areas 1A, 1B, 1C and GE-2 with grade C- (CR) or better. MATH 131 CS 201 and CS 221, both with grade C- or better. Total: CS 201 and CS 221. CS 301 Total: CS 201 and CS 221. CS 301 Total: CS 301 with grade C- (CR) or better. CS 301 with grade C- or better. CS 301 with grade C- or better. CS 301 with grade C- or better.	1
LD Major 38 JUD-Area 5/Overlay Area 6 JD Major	STAT 316 CS 301 CS 321 CS 311 CS 441 CS 413	Architecture Numerical Algorithms and Linear Algebra Fifth Semester (FALL) Ethnic Studies Statistics for Science and Engineering Data Structures Computer Architecture Sixth Semester (SPRING) Programming Language Concepts Computer Networks Analysis of Algorithms Seventh Semester (FALL)	with grade C- or better. CS 101 and MATH 130. Total: Completion of GE Areas 1A, 1B, 1C and GE-2 with grade C- (CR) or better. MATH 131 CS 201 and CS 221, both with grade C- or better. Total: CS 201 and CS 221. CS 301 Total: CS 201 and CS 221. CS 301 Total: CS 201 and CS 221. CS 301 Total: CS 301 with grade C- (CR) or better. CS 301 with grade C- or better.	1
LD Major 38 JUD-Area 5/Overlay Area 6 JUD Major	STAT 316 CS 301 CS 321 CS 311 CS 441 CS 413 CS 401 CS 421	Architecture Numerical Algorithms and Linear Algebra Fifth Semester (FALL) Ethnic Studies Statistics for Science and Engineering Data Structures Computer Architecture Sixth Semester (SPRING) Programming Language Concepts Computer Networks Analysis of Algorithms Seventh Semester (FALL) Software Engineering Operating Systems	with grade C- or better. CS 101 and MATH 130. Total: Completion of GE Areas 1A, 1B, 1C and GE-2 with grade C- (CR) or better CS 201 and CS 221, both with grade C- or better. CS 201 and CS 221, both with grade C- or better. CS 301 CS/MATH 211 and CS 301 Total: Completion of GE Areas 1A, 1B, 1C and GE-2 with grade C- (CR) or better. CS 301 with grade C- or better. CS 301 with grade C- or better. CS 301 with grade C- or better. CS 211 and MATH 225, both with grade C- or better.	1
LD Major 38 JUD-Area 5/Overlay Area 6 JUD Major	STAT 316 CS 301 CS 321 CS 311 CS 441 CS 441 CS 421 CS 401 CS 421	Architecture Numerical Algorithms and Linear Algebra Fifth Semester (FALL) Ethnic Studies Statistics for Science and Engineering Data Structures Computer Architecture Sixth Semester (SPRING) Programming Language Concepts Computer Networks Analysis of Algorithms Seventh Semester (FALL)	with grade C- or better. CS 101 and MATH 130. Total: Completion of GE Areas 1A, 1B, 1C and GE-2 with grade C- (CR) or better. MATH 131 CS 201 and CS 221, both with grade C- or better. Total: CS 201 and CS 221. CS 301 Total: CS 201 and CS 221. CS 301 Total: CS 201 and CS 221. CS 301 Total: CS 301 with grade C- (CR) or better. CS 301 with grade C- or better.	1
LD Major 38 JUD-Area 5/Overlay Area 6 JUD Major	STAT 316 CS 301 CS 321 CS 311 CS 441 CS 413 CS 401 CS 421	Architecture Numerical Algorithms and Linear Algebra Fifth Semester (FALL) Ethnic Studies Statistics for Science and Engineering Data Structures Computer Architecture Sixth Semester (SPRING) Programming Language Concepts Computer Networks Analysis of Algorithms Seventh Semester (FALL) Software Engineering Operating Systems	with grade C- or better. CS 101 and MATH 130. Total: Completion of GE Areas 1A, 18, 1C and GE-2 with grade C- (CR) or better. CS 201 and CS 221, both with grade C- or better. Total: CS 201 and CS 221. CS 301 CS/MATH 211 and CS 301 Total: Completion of GE Areas 1A, 18, 1C and GE-2 with grade C- (CR) or better. CS 301 with grade C- or better.	1
LD Major 38 JUD-Area 5/Overlay Area 6 JUD Major	STAT 316 CS 301 CS 321 CS 311 CS 441 CS 441 CS 421 CS 401 CS 421	Architecture Numerical Algorithms and Linear Algebra Fifth Semester (FALL) Ethnic Studies Statistics for Science and Engineering Data Structures Computer Architecture Sixth Semester (SPRING) Programming Language Concepts Computer Networks Analysis of Algorithms Seventh Semester (FALL) Software Engineering Operating Systems Automata and Complexity	with grade C- or better. CS 101 and MATH 130. Total: Completion of GE Areas 1A, 1B, 1C and GE-2 with grade C- (CR) or better CS 201 and CS 221, both with grade C- or better. CS 201 and CS 221, both with grade C- or better. CS 301 CS/MATH 211 and CS 301 Total: Completion of GE Areas 1A, 1B, 1C and GE-2 with grade C- (CR) or better. CS 301 with grade C- or better. CS 301 with grade C- or better. CS 301 with grade C- or better. CS 211 and MATH 225, both with grade C- or better.	1
LD Major 38 JUD-Area 5/Overlay Area 6 JUD Major	STAT 316 CS 301 CS 321 CS 311 CS 441 CS 441 CS 421 CS 401 CS 421	Architecture Numerical Algorithms and Linear Algebra Fifth Semester (FALL) Ethnic Studies Statistics for Science and Engineering Data Structures Computer Architecture Sixth Semester (SPRING) Programming Language Concepts Computer Networks Analysis of Algorithms Seventh Semester (FALL) Software Engineering Operating Systems	with grade C- or better. CS 101 and MATH 130. Total: Completion of GE Areas 1A, 18, 1C and GE-2 with grade C- (CR) or better. CS 201 and CS 221, both with grade C- or better. Total: CS 201 and CS 221. CS 301 CS/MATH 211 and CS 301 Total: Completion of GE Areas 1A, 18, 1C and GE-2 with grade C- (CR) or better. CS 301 with grade C- or better.	1 1 1
LD Major 3B UD-Area 5/Overlay Area 6 UD Major	STAT 316 CS 301 CS 321 CS 311 CS 441 CS 441 CS 421 CS 401 CS 421	Architecture Numerical Algorithms and Linear Algebra Fifth Semester (FALL) Ethnic Studies Statistics for Science and Engineering Data Structures Computer Architecture Sixth Semester (SPRING) Programming Language Concepts Computer Networks Analysis of Algorithms Seventh Semester (FALL) Software Engineering Operating Systems Automata and Complexity	with grade C- or better. CS 101 and MATH 130. Total: Completion of GE Areas 1A, 18, 1C and GE-2 with grade C- (CR) or better. CS 201 and CS 221, both with grade C- or better. Total: CS 201 and CS 221. CS 301 CS/MATH 211 and CS 301 Total: Completion of GE Areas 1A, 18, 1C and GE-2 with grade C- (CR) or better. CS 301 with grade C- or better.	1 1 1
LD Major 38 UD-Area 5/Overlay Area 6 UD Major	STAT 316 CS 301 CS 321 CS 311 CS 441 CS 441 CS 421 CS 401 CS 421	Architecture Numerical Algorithms and Linear Algebra Fifth Semester (FALL) Ethnic Studies Statistics for Science and Engineering Data Structures Computer Architecture Sixth Semester (SPRING) Programming Language Concepts Computer Networks Analysis of Algorithms Seventh Semester (FALL) Software Engineering Operating Systems Automata and Complexity	with grade C- or better. CS 101 and MATH 130. Total: Completion of GE Areas 1A, 18, 1C and GE-2 with grade C- (CR) or better. CS 201 and CS 221, both with grade C- or better. Total: CS 201 and CS 221. CS 301 CS/MATH 211 and CS 301 Total: Completion of GE Areas 1A, 18, 1C and GE-2 with grade C- (CR) or better. CS 301 with grade C- or better. Total: CS 301 with grade C- or better.	1 1 1
LD Major 38 JUD-Area 5/Overlay Area 6 JD Major	STAT 316 CS 301 CS 321 CS 311 CS 441 CS 441 CS 421 CS 401 CS 421	Architecture Numerical Algorithms and Linear Algebra Fifth Semester (FALL) Ethnic Studies Statistics for Science and Engineering Data Structures Computer Architecture Sixth Semester (SPRING) Programming Language Concepts Computer Networks Analysis of Algorithms Seventh Semester (FALL) Software Engineering Operating Systems Automata and Complexity	with grade C- or better. CS 101 and MATH 130. Total: Completion of GE Areas 1A, 1B, 1C and GE-2 with grade C- (CR) or better. CS 201 and CS 221, both with grade C- or better. Total: CS 201 and CS 221, both with grade C- or better. Total: CS 201 and CS 221. CS 301 CS/MATH 211 and CS 301 Total: CS 301 with grade C- or better. CS 301 with grade C- or better. CS 201 and MATH 225, both with grade C- or better. CS 211 and MATH 225, both with grade C- or better. CS 211 and MATH 225, both with grade C- or better. CS 201 and CS 221. CS 201 and CS 221. CS 301 with grade C- or better. CS 201 and MATH 225, both with grade C- or better. CS 201 and CS 201. Completion of GE Areas 1A, 1B, 1C and GE-2 with grade C- (CR) or better.	1
LD Major 38 JUD-Area 5/Overlay Area 6 JUD Major	STAT 316 CS 301 CS 321 CS 311 CS 441 CS 441 CS 421 CS 421 CS 421 CS 421 CS 411 CS Breadth	Architecture Numerical Algorithms and Linear Algebra Fifth Semester (FALL) Ethnic Studies Statistics for Science and Engineering Data Structures Computer Architecture Sixth Semester (SPRING) Programming Language Concepts Computer Networks Analysis of Algorithms Seventh Semester (FALL) Software Engineering Operating Systems Automata and Complexity	with grade C- or better. CS 101 and MATH 130. Total: Completion of GE Areas 1A, 18, 1C and GE-2 with grade C- (CR) or better. CS 201 and CS 221, both with grade C- or better. Total: CS 201 and CS 221. CS 301 CS/MATH 211 and CS 301 Total: Completion of GE Areas 1A, 18, 1C and GE-2 with grade C- (CR) or better. CS 301 with grade C- or better. Total: CS 301 with grade C- or better.	1
D Major BB JD-Area 5/Overlay Area 6 JD Major JD Major	STAT 316 CS 301 CS 321 CS 311 CS 441 CS 441 CS 421 CS 421 CS 421 CS Breadth	Architecture Numerical Algorithms and Linear Algebra Fifth Semester (FALL) Ethnic Studies Statistics for Science and Engineering Data Structures Computer Architecture Sixth Semester (SPRING) Programming Language Concepts Computer Networks Analysis of Algorithms Seventh Semester (FALL) Software Engineering Operating Systems Automata and Complexity	with grade C- or better. CS 101 and MATH 130. Total: Completion of GE Areas 1A, 1B, 1C and GE-2 with grade C- (CR) or better. CS 201 and CS 221, both with grade C- or better. Total: CS 201 and CS 221, both with grade C- or better. Total: CS 201 and CS 221. CS 301 CS/MATH 211 and CS 301 Total: CS 301 with grade C- or better. CS 301 with grade C- or better. CS 201 and MATH 225, both with grade C- or better. CS 211 and MATH 225, both with grade C- or better. CS 211 and MATH 225, both with grade C- or better. CS 201 and CS 221. CS 201 and CS 221. CS 301 with grade C- or better. CS 201 and MATH 225, both with grade C- or better. CS 201 and CS 201. Completion of GE Areas 1A, 1B, 1C and GE-2 with grade C- (CR) or better.	1
D Major JD-Area 5/Overlay rea 6 JD Major	STAT 316 CS 301 CS 321 CS 311 CS 441 CS 441 CS 421 CS 421 CS 411 CS Breadth CS Breadth CS Elective	Architecture Numerical Algorithms and Linear Algebra Fifth Semester (FALL) Ethnic Studies Statistics for Science and Engineering Data Structures Computer Architecture Sixth Semester (SPRING) Programming Language Concepts Computer Networks Analysis of Algorithms Seventh Semester (FALL) Software Engineering Operating Systems Automata and Complexity	with grade C- or better. CS 101 and MATH 130. Total: Completion of GE Areas 1A, 1B, 1C and GE-2 with grade C- (CR) or better. CS 201 and CS 221, both with grade C- or better. Total: CS 201 and CS 221, both with grade C- or better. Total: CS 201 and CS 221. CS 301 CS/MATH 211 and CS 301 Total: CS 301 with grade C- or better. CS 301 with grade C- or better. CS 201 and MATH 225, both with grade C- or better. CS 211 and MATH 225, both with grade C- or better. CS 211 and MATH 225, both with grade C- or better. CS 201 and CS 221. CS 201 and CS 221. CS 301 with grade C- or better. CS 201 and MATH 225, both with grade C- or better. CS 201 and CS 201. Completion of GE Areas 1A, 1B, 1C and GE-2 with grade C- (CR) or better.	1
LD Major 38 JUD-Area 5/Overlay Area 6 JD Major	STAT 316 CS 301 CS 321 CS 311 CS 441 CS 441 CS 421 CS 421 CS 421 CS Breadth	Architecture Numerical Algorithms and Linear Algebra Fifth Semester (FALL) Ethnic Studies Statistics for Science and Engineering Data Structures Computer Architecture Sixth Semester (SPRING) Programming Language Concepts Computer Networks Analysis of Algorithms Seventh Semester (FALL) Software Engineering Operating Systems Automata and Complexity	with grade C- or better. CS 101 and MATH 130. Total: Completion of GE Areas 1A, 1B, 1C and GE-2 with grade C- (CR) or better. CS 201 and CS 221, both with grade C- or better. Total: CS 201 and CS 221, both with grade C- or better. Total: CS 201 and CS 221. CS 301 CS/MATH 211 and CS 301 Total: CS 301 with grade C- or better. CS 301 with grade C- or better. CS 201 and MATH 225, both with grade C- or better. CS 211 and MATH 225, both with grade C- or better. CS 211 and MATH 225, both with grade C- or better. CS 201 and CS 221. CS 201 and CS 221. CS 301 with grade C- or better. CS 201 and MATH 225, both with grade C- or better. CS 201 and CS 201. Completion of GE Areas 1A, 1B, 1C and GE-2 with grade C- (CR) or better.	1

Note: No changes to, or from, the credit/no credit pattern are permitted after the Grade Type Change period. There are no exceptions to this rule. Courses in a student's major department, regardless of course prefix, may not be taken "CR/NC," unless that is the only grading pattern in the course.

CSUEB General Breadth and Graduation Requir Area 1 (9 units): English Communica	
☐ 1A - Lower Division English Composition	ition
☐ 1B - Lower Division Critical Thinking and Composi	ition
☐ 1C - Lower Division Critical Trilliking and Composi	ILIOII
Area 2 (3 units) : Mathematical Concepts and Qua	ntitative Reasoning
☐ Area 2 - Mathematical Concepts and Quantitative	e Reasoning
Area 3 (6 units): Arts & Humanities - Minimum disciplines as designated by course prefix (e.g., a	of two different
☐ 3A - Arts and Humanities (Arts)	
3B - Arts and Humanities (Humanities)	
Area 4 (6 units): Social and Behavioral Sciences - different disciplines as designated by course prefix POSC)	
☐ Area 4 - Lower Division Social and Behavioral Scie	ences
☐ Area 4 - Lower Division Social and Behavioral Scie	ences
Area 5 (7 units): Physical and Biological	Sciences
Area 5 (7 units): Physical and Biological 5A - Lower Division Physical and Biological Science	
☐ 5B - Lower Division Physical and Biological Science	
☐ 5C - Lower Division Physical and Biological Science	
May be embedded in 5A or 5B course, as long as 7 u division Subject Area 5.	
Area 6 (3 units): Ethnic Studies	
Area 6 - Ethnic Studies	
Second Composition : Second Composition (Required as part of 1B	
for 2025-26 or later catalog) Second Composition	
University Writing Requirement (3-4	units)
□ UWR	
U.S. Code (American Institutions Requirement) - Tv covering three U.S. Code Requirements of US-1 (U. S. Constitution), and US-3 (California State & Loc	S. History), US-2 (U.
□ Code 1	
□ Code 2	
Upper Division GE Requirements (9 units): Shoul completion of 1A, 1B, 1C, and Area 2 with	
UD- Area 3 - Upper Division Arts or Humanities	
UD- Area 4 - Upper Division Social and Behaviora	
☐ UD- Area 5 - Upper Division Science or Mathema Concepts/Quantitative Reasoning	tical
Overlay Requirements (9 units): Courses may be division, and GE or major	upper or lower
☐ Diversity (Div)	
□ Social Justice (SJ)	
☐ Sustainability (S)	
Computer Science Breadth Coursewo	ork
Students must complete two (2) courses of the following	
CS 351 - Website Development Units: 3	
CS 431 - Database Architecture Units: 3	
CS 453 - Mobile Programming Units: 3 CS 455 - Computer Graphics Units: 3	
CS 461 - Artificial Intelligence Units: 3	
CS 471 - Security and Information Assurance Units: 3	
Elective Courses Students must take two (2) courses with the CS prefix nu	mbered 300 or ahove
for a minimum of 6 units. Courses must not be the same used. Note: 1-3 units of CS 498 Cooperative Education at	as those already nd/or 1-3 units of CS
490 Independent Study may be used to fulfill the Elective	es category.

*Students are required to take a minimum of 40 semester units as upper division (includes 9 units upper division GE)