

B.S. COMPUTER SCIENCE

80 credits

CS Core (all courses required):		Math/Science Elective (choose 1)*:	
CSCI 2101 Programming & Problem Solving I	(4)	MATH 2217 Calculus III	(5)
CSCI 2102 Programming & Problem Solving II	(4)	MATH 3323 Linear Algebra	(4)
CSCI 3103 Data Structures & Algorithms I	(4)	BIOL 1400/1405 Biodiversity & Evolution (w/ lab)	(5)
CIST 3230 Computer Networking Principles	(4)	CHEM 2120/2125 Chemistry II (w/ lab)	(5)
CSCI 3250 Computer Organization	(4)	PHYS 2230/2235 Physics II (w/ lab)	(6)
CSCI 4104 Data Structures & Algorithms II	(4)	CS Electives (choose 4):	
CSCI 4485 Software & Security Engineering	(4)	CIST 3222 Database Systems	(4)
CSCI 4600 Senior Seminar	(2)	CIST 3381 Information Assurance & Security	(4)
Math Core (all courses required):		CSCI 4105 Knowledge Discovery & Data Mining	(4)
MATH 2215 Calculus I	(5)	CSCI 4135 Web Application Engineering	(4)
MATH 2216 Calculus II	(5)	CSCI 4251 Operating Systems	(4)
MATH 2225 Discrete Mathematics I	(4)	CSCI 4463 Artificial Intelligence	(4)
CSCI 2226 Foundations of Computer Sci	(4)	CSCI 4464 Computer Vision	(4)
CSCI 3327 Probability & Applied Statistics	(4)	CSCI 4465 Machine Learning	(4)
Science Core (choose 1):		CSCI 4469 Computer Architecture	(4)
BIOL 1200/1205 Cells and Molecules (w/ lab)	(5)	CSCI 4481 Cryptography and Data Security	(4)
CHEM 2110/2115 Chemistry I (w/ lab)	(5)	CSCI 4510 Topics in Computer Science	(4)
PHYS 2220/225 Physics I (w/ lab)	(6)	CSCI 4800 Independent Study***	(0-4)
		Cognates** (0-3+ credits as needed):	
		CSCI 4800 Independent Study / CSCI 4900 Internship	(0-4)
		Other cognates**	as needed

*Students may also use a 2nd course from the Science Core here

**Any Stockton CSCI may be used as a cognate. (CSCI 1100 may not be taken by any CSCI major who has credit for a CSCI course at the 2000 level or above.) Any other course used for a cognate requires preceptor approval.

***To use CSCI 4800 as a CS elective, student must submit a proposal to the CSCI faculty mapping topic to CS learning goals.

++MATH 1100 and any CIST courses other than those listed above, if taken, count only as At Some Distance.

GENERAL STUDIES REQUIREMENTS:		48 credits	
G COURSES: (32 total credits) No more than 12 credits in any "G" category may be applied towards the BS degree.			
GEN General Interdisciplinary		GNM General Natural Science & Math	
GIS-General Integration & Synthesis (Jr. yr.)		GNM General Natural Science & Math	
GAH General Arts & Humanities		GSS General Social Science	
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AT SOME DISTANCE Electives: (16 total credits) Courses unrelated to your major			

GENERAL STUDIES OUTCOME REQUIREMENTS: These course attributes should be completed within the 128 credits needed to graduate.			

GENERAL STUDIES WRITING REQUIREMENT: (4 courses)			
Two W1 courses may be in transfer. W2 courses must be taken at Stockton.			
			W1/W2 at 3000 Level

GENERAL STUDIES QUANTITATIVE REASONING REQUIREMENT: (3 courses)			
Two Q1 courses may be in transfer. Q2 courses must be taken at Stockton.			

