

All Bachelor of Science programs require a minimum of 128 credits and a 2.00 cumulative average.

B.S. COMPUTER SCIENCE

Fall 2018 – Spring 2019

CS REQUIREMENTS: A grade of "C" or better is required in the CS Core and the Math Core

80 credits

CS Core (all courses required):

CSIS 2101 Programming & Problem Solving I	(4)
CSIS 2102 Programming & Problem Solving II	(4)
CSIS 3103 Data Structures & Algorithms I	(4)
CSIS 3230 Computer Networking Principles	(4)
CSIS 3250 Computer Organization	(4)
CSIS 4104 Data Structures & Algorithms II	(4)
CSIS 4485 Software & Security Engineering	(4)
CSIS 4600 Senior Seminar	(2)

Math Core (all courses required):

MATH 2215 Calculus I	(5)
MATH 2216 Calculus II	(5)
MATH 2225 Discrete Mathematics I	(4)
CSIS 2226 Foundations of Computer Sci	(4)
CSIS 3327 Probability & Applied Statistics	(4)

Science Core (choose 1):

BIOL 1200/1205 Cells and Molecules (w/ lab)	(5)
CHEM 2110/2115 Chemistry I (w/ lab)	(5)
PHYS 2220/225 Physics I (w/ lab)	(6)

Math/Science Elective (choose 1)*:

MATH 2217 Calculus III	(5)
MATH 3323 Linear Algebra	(4)
BIOL 1400/1405 Biodiversity & Evolution (w/ lab)	(5)
CHEM 2120/2125 Chemistry II (w/ lab)	(5)
PHYS 2230/2235 Physics II (w/ lab)	(6)

CS Electives (choose 4):

CSIS 3222 Database Systems	(4)
CSIS 3381 Information Assurance & Security	(4)
CSIS 4105 Knowledge Discovery & Data Mining	(4)
CSIS 4135 Web Application Engineering	(4)
CSIS 4251 Operating Systems	(4)
CSIS 4463 Artificial Intelligence	(4)
CSIS 4469 Computer Architecture	(4)
CSIS 4481 Cryptography and Data Security	(4)
CSIS 4510 Topics in Computer Science	(4)
CSIS 4800 Independent Study***	(0-4)

Cognates** (0-3+ credits as needed):

CSIS 4800 Independent Study	(0-4)
CSIS 4900 Internship	(0-4)
Other cognates**	as needed

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

**Any Stockton CSIS may be used as a cognate. (CSIS 1100 or CSIS 1180 or CSIS 2010 may not be taken by any CSIS major who has credit for a CSIS course at the 2000 level or above.) Any other course used for a cognate requires preceptor approval. Transfer students may use additional transfer courses in CSIS as cognates.

++CSIS 1206 and MATH 1100, 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	(4)	GNM General Natural Science & Math	(4)
GIS-General Integration & Synthesis (Jr. yr.)	(4)	GNM General Natural Science & Math	(4)
GAH General Arts & Humanities	(4)	GSS General Social Science	(4)
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AT SOME DISTANCE Electives: (16 total credits) Courses unrelated to your major

	(4)		(4)
	(4)		(4)

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

(A) Arts		(V) Values/Ethics	
(H) Historical Consciousness		(I) International/Multicultural	

GENERAL STUDIES WRITING REQUIREMENT: (4 courses)

Two W1 courses may be in transfer. W2 courses must be taken at Stockton.

W1		W1/W2		W1/W2		W1/W2 at 3000 Level	
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GENERAL STUDIES QUANTITATIVE REASONING REQUIREMENT: (3 courses)

Two Q1 courses may be in transfer. Q2 courses must be taken at Stockton.

Q1		Q2		Q1 or Q2	
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Prerequisites must be met, check course description on the web.

Rev. 6/20/2018

"The student is responsible for insuring that all graduation requirements are met" (Bulletin). Consult with your preceptor and/or the Center for Academic Advising on a regular basis.