

Computer Science B.S.CS.

[All students must meet the University Requirements.](#)

A minimum of 120 credits are required and must include the following:

Computer Science (50-51 credits)

Recommended:

CS 050	Seminar for New CS Majors	1
------------------------	---------------------------	---

Core:

CS 021	QR: Computer Programming I ¹	3
------------------------	---	---

CS 064	QR: Discrete Structures	3
------------------------	-------------------------	---

CS 110	QR: Intermediate Programming ¹	4
------------------------	---	---

CS 120	QR: Advanced Programming	3
------------------------	--------------------------	---

CS 121	QR: Computer Organization	3
------------------------	---------------------------	---

CS 124	QR: Data Struc & Algorithms	3
------------------------	-----------------------------	---

CS 125	QR: Computability & Complexity	3
------------------------	--------------------------------	---

CS 201	QR: Operating Systems	3
------------------------	-----------------------	---

CS 224	QR: Algorithm Design & Analysis	3
------------------------	---------------------------------	---

CS 292	Senior Seminar	1
------------------------	----------------	---

Twenty-one additional credits in CS, including three at the 0XX-level (or above), six at the 1XX-level (or above), and twelve credits at the 2XX-level (or above) (NOTE: the online catalogue incorrectly states this as three at the 1xx level and fifteen at the 2xx level)	21
--	----

Mathematics (14 credits)

MATH 021	QR: Calculus I ²	4
--------------------------	-----------------------------	---

MATH 022	QR: Calculus II ²	4
--------------------------	------------------------------	---

Choose two of the following courses:	6-7
--------------------------------------	-----

MATH 121	QR: Calculus III	
--------------------------	------------------	--

MATH 122	QR: Applied Linear Algebra	
--------------------------	----------------------------	--

or MATH 124	QR: Linear Algebra	
-----------------------------	--------------------	--

MATH 173	QR: Basic Combinatorial Theory	
--------------------------	--------------------------------	--

MATH 271	QR: Adv Engineering Mathematics	
--------------------------	---------------------------------	--

Probability & Statistics (6 credits)

STAT 143	QR: Statistics for Engineering	3
--------------------------	--------------------------------	---

STAT 151	QR: Applied Probability	3
--------------------------	-------------------------	---

or CS 128	QR: Probability Models & Infrnc	
---------------------------	---------------------------------	--

Natural Sciences (7 credits):

Two courses, one of which must be a lab adding up to four credits, chosen from:

Astronomy (ASTR) - All courses

Biology (BIOL) - All courses

BioCore (BCOR) - All courses

Chemistry (CHEM) - All courses

Geology (GEOL) - All courses

Physics (PHYS) - All courses

Plant Biology (P BIO) - All courses

GEOG 040	Weather, Climate & Landscapes
GEOG 140	Biogeography
GEOG 143	Climatology
GEOG 148	Global Environmental Change
MMG 065	Microbiology & Pathogenesis
PSYS 111	Learning, Cognition & Behavior
PSYS 115	Biopsychology
PSYS 211	Learning
PSYS 215	Physiological Psychology
PSYS 216	Psychopharmacology
PSYS 217	Animal Behavior
PSYS 218	Hormones and Behavior
PSYS 219	Self Topics Behavioral Neurosci

¹ C- or higher required in [CS 021](#) and [CS 110](#).

² [MATH 019](#) and [MATH 023](#) are acceptable substitutions for [MATH 021](#) and [MATH 022](#).