

Bachelor of Science in Computer Science

Sample 4-year Plan of Study

(130 or 131 credits)

This SAMPLE 4-year plan is for instructional example purposes only. Courses may be arranged to meet individual needs; however, prerequisites and program admission requirements must be satisfied in all cases. CS students must consult with their major advisor *each semester* in order to complete the registration process.

**IF YOU DO NOT HAVE A COMPUTER SCIENCE ADVISOR,
PLEASE CONTACT THE DEPT. CHAIR TO HAVE ONE ASSIGNED.**

FIRST YEAR

Fall – 16 credits

CS 181	Computer Science and Programming I	2 cr.
CS 181L	Computer Science and Programming I Lab	1 cr.
MATH 170	Calculus I	4 cr.
Goal 6, 7 or 8	Humanities	3 cr.
	Science Elective	3 cr.
ENGL 102	Critical Reading and Writing	3 cr.

Spring – 16 credits

CS 182	Computer Science and Programming II	2 cr.
CS 182L	Computer Science and Programming II Lab	1 cr.
MATH 175	Calculus II	4 cr.
Goal 6, 7 or 8	Humanities	3 cr.
	Science Elective	3 cr.
COMM 101	Principles of Speech	3 cr.

SECOND YEAR

Fall – 15 credits

CS 282	Advanced Computer Programming	3 cr.
MATH 275	Calculus III	4 cr.
Goal 9 – 12	Social Science	3 cr.
PHYS 211	Engineering Physics I	4 cr.
PHYS 213	Engineering Physics I Lab	1 cr.
or CHEM 111	General Chemistry I (sub. for PHYS)	5 cr.

Spring – 15 or 16 credits

CS 263	Advanced Object Oriented Programming	3 cr.
CS 187	Discrete Structures	3 cr.
MATH 230	Introduction to Linear Algebra	2 cr.
Goal 9 – 12	Social Science	3 cr.
PHYS 212	Engineering Physics II	4 cr.
PHYS 214	Engineering Physics II Lab	1 cr.
or CHEM 112	General Chemistry II (sub. for PHYS)	4 cr.

THIRD YEAR

Fall – 17 credits

CS 385	Data Structures and Algorithm Analysis I	3 cr.
EE 274	Introduction to Digital Systems	3 cr.
	CS Elective	3 cr.
MATH 360	Differential Equations	3 cr.
CS 321	Fundamentals of Software Engineering	3 cr.
ENGR 360	Engineering Economics	2 cr.

Spring – 15 credits

CS 386	Data Structures and Algorithm Analysis II	3 cr.
	CS Elective	3 cr.
ENGL 307	Technical Writing	3 cr.
MATH 352	General Statistics	3 cr.
MGT 462	Issues in Business and Society	3 cr.

FOURTH YEAR

Fall - 18 credits

CS 496A	Project Design I	3 cr.
CS 460	Comparative Programming Languages	3 cr.
CS 475	Computer Architecture and Organization	3 cr.
	CS Elective	3 cr.
Goal 9 – 12	Social Science	3 cr.
	Free Elective	3 cr.

Spring – 18 credits

CS 496B	Project Design II	3 cr.
CS 477	Operating Systems	3 cr.
	CS Elective	3 cr.
CS 451	Database Theory and Implementation	3 cr.
	Free Elective	3 cr.
	Free Elective	3 cr.

Electives should be chosen in consultation with your advisor.