

Computer Science requirements and Sample Schedule

For students who entered UNH prior to Fall 2008

FRESHMAN

	Course Title	Fall	Spring
CS 415	Introduction to Computer Science I	4	-
MATH 425	Calculus I (Gen Ed 2)	4	-
	Science/Technology* (Gen Ed 3)	4	-
	Gen Ed	4	-
CS 416	Introduction to Computer Science II	-	4
MATH 426	Calculus II	-	4
ENG 401	ENGL 401, First-Year Writing (Gen Ed 1)	-	4
	Science/Technology* (Gen Ed 3)	-	4
	Total	16	16

*These two additional technology or science courses are required, in addition to a two semester lab science sequence. One will satisfy a general education requirement. Students can choose these two courses from the following list:

Biological Science

BIOL 411	Principles of Biology I
BIOL 412	Principles of Biology II
BIOL 413	Principles of Biology I (UNH Manchester Course)
BIOL 414	Principles of Biology II (UNH Manchester Course)
BMS 412	Biology of Animals
ECE 444	Bionics
MICR 501	Public Health Microbiology
PBIO 412	Introduction to Botany

Physic Science

CHEM 403	General Chemistry I
CHEM 404	General Chemistry II
CHEM 405	General Chemistry
ESCI 401	Principles of Geology
ESCI 402	Earth History
ESCI 409	Environmental Geology
ESCI 501	Introduction to Oceanography
NR 433	Wildlife Ecology
NR 504	Freshwater Resources
PHYS 407	General Physics I
PHYS 408	General Physics II

Technology

PHIL 447	Computer Power and Human Reason
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SOPHOMORES

	Course Title	Fall	Spring
CS 515	Data Structures	4	-
MATH 531	Mathematical Proof	4	-
	Lab Science I*	4	-
	Gen Ed	4	-
CS 516	Intro to Software Design and Development	-	4
CS 659	Intro to the Theory of Computation	-	4
	Lab Science II*	-	4
	Gen Ed	-	4
	Total	16	16

*Students may choose from the following lab science sequences: Biology 411 & 412, Principles of Biology I & II; Chemistry 403 & 404, General Chemistry I & II; Earth Science 401 & 402, Dynamic Earth & Earth History, Earth Science 409 & 402, Environmental Geology & Earth History; Physics 407 & 408, General Physics I & II.

JUNIORS

	Course Title	Fall	Spring
CS 520	Assembly Language Prog and Machine Org	4	-
CS 671	Prog Language Concepts and Features	4	-
	Statistics Course*	4	-
PHIL 424	Science, Technology and Society (Gen Ed 8)	4	-
CS 620	Operating System Fundamentals	-	4
	Computer Science Theory Course**	-	4
ECE 543	Introduction to Digital Systems	-	4
	Gen Ed	-	4
CS 595	Computer Science Seminar	-	2
	Total	16	18

*Statistics requirement can be fulfilled by MATH 539, Introduction to Statistical Analysis, or MATH 644, Statistics for Engineers and Scientists.

**Theory course requirement may be fulfilled by CS 712, Compiler Design; CS 745, Formal Specifications and Verification of Software Systems; or CS 758, Algorithms. Students who took MATH 532 do not need to take this course.

SENIORS

	Course Title	Fall	Spring
CS 719	Object-Oriented Methodolgy	4	
CS	Writing Intensive Course	4	
ECE 562	Computer Organization	4	
	Liberal Arts Elective	4	
CS 700-Level	Elective		4
CS 700-Level	Elective		4
	Liberal Art Elective*		4
	Free Elective		2
	Total	16	14

*Liberal Arts electives can be any course within the College of Liberal Arts that does not have a math or science component.