

COMPUTER SCIENCE MINOR

The courses necessary to fulfill the requirements for the minor in Computer Science are shown in the table below (continuing on the next page). In addition, students must complete the standard mathematics sequence through MATH 51 as a prerequisite.

COURSES FULFILLING THE MINOR IN COMPUTER SCIENCE

<i>Introductory programming:</i>		Units
CS 106B or	Programming Abstractions	5
CS 106X	Programming Abstractions (Accelerated)	5
<i>Core:</i>		
CS 103 ²	Mathematical Foundations of Computing	5
CS107 ³	Computer Organization and Systems	5
CS109 ⁴	Introduction to Probability for Computer Scientists	5
	<i>Core total (including introductory programming)</i>	20

(continued on the next page)

Computer Science Minor, continued*Electives:*

2 courses from two different areas taken from the list below	6-9
<i>Program Total</i>	26-29

Elective areas:

Software:

CS 108	Object-Oriented Systems Design	4
CS 110	Principles of Computer Systems	5

Systems:

CS 140	Operating Systems	4
CS 143	Compilers	4
CS 144	Introduction to Computer Networking	4
CS 145	Introduction to Databases	4
CS 148	Introduction to Computer Graphics	3

Theory:

CS 154	Automata and Complexity Theory	4
CS 157	Logic and Automated Reasoning	4
CS 161	Design and Analysis of Algorithms	4

Artificial Intelligence:

CS 121 or CS 221	Introduction to Artificial Intelligence	3
	Artificial Intelligence: Principles and Techniques	4

Human-Computer Interaction:

CS 147	Introduction to HCI Design	3-4
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Notes:

1. AP units may be used to meet the introductory programming requirement.
2. Students who have taken either CS103X or CS103A,B are considered to have satisfied the CS103 requirement.
3. The name of CS107 has changed. The previous CS107 course titled Programming Paradigms also fulfills this requirement.
4. Students who complete STAT 116, MS&E 120, or CME 106 in Winter 2008-09 or earlier may count that course as satisfying the CS109 requirement. These same courses taken in Spring 2008-09 or later cannot be used to satisfy the CS 109 requirement.

*All courses must be taken for a letter grade.

*The minimum acceptable GPA is 2.0.

*Only CS106AB/X may be double-counted towards both major and minor requirements.

*A maximum of one transfer credit course may be counted towards the minor requirements.