

# 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>		<b>Units</b>
CS 106A/B or CS 106X	Programming Methodology/Programming Abstractions Programming Methodology and Abstractions (Accelerated)	5, 5 5
<i>Core:</i>		
CS 103A/B or CS 103X	Discrete Mathematics for Computer Science/Discrete Structures Discrete Structures (Accelerated)	3, 3 4
CS107	Programming Paradigms	5
CS108	Object-Oriented Systems Design	4
	<i>Core total (including introductory programming)</i>	18–25

**Computer Science Minor, continued***Electives:*

2 courses from two different areas taken from the list below	6–8
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<i>Program total</i>	24-33
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*Elective areas:*

## Systems:

CS 140	Operating Systems	4
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CS 143	Compilers	4
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CS 145	Introduction to Databases	4
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CS 148	Introduction to Computer Graphics	3
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## Theory:

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

CS 121 or	Introduction to Artificial Intelligence	3
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CS 221	Artificial Intelligence: Principles and Techniques	4
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## 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. All courses must be taken for a letter grade.

3. 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.