This was CS50.
Ethics
What questions do you have?
After CS50
## CS Classes: Penultimate Digit Rule

<table>
<thead>
<tr>
<th>Penultimate Digit</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>Theory</td>
</tr>
<tr>
<td>3</td>
<td>Economics and Computation</td>
</tr>
<tr>
<td>4</td>
<td>Hardware and Networks</td>
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<tr>
<td>5</td>
<td>Programming Languages</td>
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<tr>
<td>6</td>
<td>Systems</td>
</tr>
<tr>
<td>7</td>
<td>Graphics, Visualization, and User Interfaces</td>
</tr>
<tr>
<td>8</td>
<td>Artificial Intelligence</td>
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</tbody>
</table>
## Concentration Requirements

<table>
<thead>
<tr>
<th>Category</th>
<th>Requirement</th>
</tr>
</thead>
</table>
| Math                | • Math 1a, Math 1b as needed  
• Linear Algebra (Math 21b, etc.)  
• Multivariable Calculus or Statistics (Stat 110, Math 21a, etc.) |
| Software            | • 2 of: CS50, CS51, CS61                                                   |
| Theory              | • CS121  
• Another theory class (CS124, etc.)                                    |
| Technical Electives | • 4 other CS classes  
(breadth requirement: 2 classes with penultimate 3-8)                 |
# Honors Requirements

<table>
<thead>
<tr>
<th>Category</th>
<th>Requirement</th>
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</thead>
</table>
| Math              | • Math 1a, Math 1b as needed  
                      • Linear Algebra (Math 21b, etc.)  
                      • Multivariable Calculus or Statistics (Stat 110, Math 21a, etc.) |
| Software          | • 2 of: CS50, CS51, CS61                                                   |
| Theory            | • CS121  
                      • Another theory class (CS124, etc.)                                     |
| Technical Electives | • 6 other CS classes  
                      (breadth requirement: 3 classes with penultimate 3-8)                    |
| Thesis            | Recommended                                                                 |
Secondary Requirements

- Four classes: drawn from CS50, CS51, CS61, or any CS course numbered 100 or greater
<table>
<thead>
<tr>
<th>Year 1 Spring</th>
<th>Year 2 Fall</th>
<th>Year 2 Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS20</td>
<td>CS61</td>
<td>CS124</td>
</tr>
<tr>
<td>CS51</td>
<td>CS121</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Stat 110</td>
<td></td>
</tr>
</tbody>
</table>
Computational Thinking

Algorithms

Python

Memory

Arrays

Data Structures

SQL

Web Programming

Flask
Computational Thinking

Theoretical Computer Science
e.g. CS20, CS121
Computational Thinking

Arrays

Memory

Data Structures

Python

SQL

Web Programming
Arrays

Systems
  e.g. CS61, CS161, CS153
Computational Thinking

Arrays

Python

Memory

SQL

Data Structures

Web Programming
Algorithms
  e.g. CS124

AI, ML
  e.g. CS181, CS182

Data Structures
Data Science
e.g. CS109a, CS109b

Programming
e.g. CS51, CS152

Python

SQLite
Web Programming

Visualization
e.g. CS171
What questions do you have?
This was CS50.