Computer Science Minor Requirements
(2016-2017 catalog)

Minimum units required: 18 total, 6 upper-division (at least 3 units must be completed at the UA)
Minimum minor GPA: 2.00

Coursework Requirements:
1. Complete both:
   - CSC 110: Intro to Computer Programming I (CSC 127A - Fall 2016 and prior)
   - CSC 120: Intro to Computer Programming II (CSC 127B - Fall 2016 and prior)

2. Choose two upper-division courses:
equivalent UA South courses, or cross-listed courses (see back of document)

3. Choose remaining units from:
   CSC 210, 245 (or MATH 243 or 323), 250, 252, and upper-division courses

Notes:
- ISTA 130 or ECE 175 may fulfill the CSC 110 requirement. Students who take ECE 175 should learn some basic python before attempting CSC 120.
- Courses numbered *90-*99 cannot be used toward the minor.
- Priority enrollment is given to majors for CSC 210, 245, 252, 335, 345, 352, 372, & 400-level.
- Double Dipping Policy: Up to two courses from another subject area (ECE 175, ISTA 130, MATH 243, MATH 323, cross-listed courses) may be used toward the CS minor. We permit unlimited double use of CSC courses with another major or minor.

To add the Computer Science Minor, please complete the online information session at cs.arizona.edu/undergrad/minors

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**Cross-Listed Courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECE 474A</td>
<td>Computer-Aided Logic Design</td>
</tr>
<tr>
<td>LING 438</td>
<td>Computational Linguistics</td>
</tr>
<tr>
<td>LING 439</td>
<td>Statistical Natural Language Processing</td>
</tr>
<tr>
<td>MATH 402</td>
<td>Mathematical Logic</td>
</tr>
<tr>
<td>MATH 443</td>
<td>Theory of Graphs and Networks</td>
</tr>
<tr>
<td>MATH 475A</td>
<td>Mathematical Principles of Numerical Analysis</td>
</tr>
<tr>
<td>MATH 475B</td>
<td>Mathematical Principles of Numerical Analysis</td>
</tr>
<tr>
<td>PHIL 401A</td>
<td>Symbolic Logic</td>
</tr>
<tr>
<td>PHIL 401B</td>
<td>Symbolic Logic</td>
</tr>
<tr>
<td>PHIL 455</td>
<td>Philosophy and Artificial Intelligence</td>
</tr>
</tbody>
</table>