Computer Science (PhD)

Doctor of Philosophy in Computer Science (PhD)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
<th>Counts towards</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Core Courses</strong></td>
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<tr>
<td></td>
<td>Select four courses - two from each category within “Core Courses” listed below</td>
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<td><strong>Required Courses</strong></td>
<td>12</td>
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<tr>
<td>CSC 600</td>
<td>Computer Science Graduate Orientation</td>
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<tr>
<td>CSC 890</td>
<td>Doctoral Preliminary Exam</td>
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<tr>
<td></td>
<td><strong>Elective / Research Courses</strong></td>
<td>47</td>
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<td>“Elective / Research Courses” are approved in conjunction with the academic committee</td>
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<td></td>
<td><strong>Total Hours</strong></td>
<td>72</td>
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</table>

Core Courses

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<tr>
<th>Code</th>
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<td></td>
<td><strong>Select four courses with two from each category</strong></td>
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</table>
| Theory Category
| CSC 503 | Computational Applied Logic             | 3     |                |
| CSC 505 | Design and Analysis Of Algorithms       | 3     |                |
| CSC 512 | Compiler Construction                   | 3     |                |
| CSC 514 | Foundations of Cryptography             |       |                |
| CSC 565 | Graph Theory                            | 3     |                |
| CSC 579 | Introduction to Computer Performance Modeling | 3     |                |
| CSC 580 | Numerical Analysis I                    | 3     |                |
| CSC 707 | Automata, Languages and Computability Theory | 3     |                |
| Systems Category
| CSC 501 | Operating Systems Principles            | 3     |                |

Faculty

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Research Professor
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Assistant Research Professor
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Director
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Steven Hunter
Chris Martens
Wookhee Min
Peng Ning
Christopher Parnin
Injong Rhee
Robert St. Amant
Xiaogang (Cliff) Wang
Tao Xie