**COMPUTER SCIENCE, PHD**

Requirements for Students Matriculating in or before Academic Year 2023-2024. Learn more about Graduate College Academic Regulation 7.0 ([http://catalog.okstate.edu/graduate-college/#70](http://catalog.okstate.edu/graduate-college/#70)).

Total Hours: 60

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Core Requirements</strong> 1, 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CS 5113</td>
<td>Computer Organization and Architecture</td>
<td>3</td>
</tr>
<tr>
<td>CS 5313</td>
<td>Formal Language Theory</td>
<td>3</td>
</tr>
<tr>
<td>CS 5323</td>
<td>Design and Implementation of Operating Systems II</td>
<td>3</td>
</tr>
<tr>
<td>CS 5413</td>
<td>Data Structures and Algorithm Analysis II</td>
<td>3</td>
</tr>
<tr>
<td>CS 5513</td>
<td>Numerical Computation</td>
<td>3</td>
</tr>
<tr>
<td><strong>Hours Subtotal</strong></td>
<td>15</td>
<td></td>
</tr>
</tbody>
</table>

**Research Specialization**

Select 12 hours from one area of CS at the 6000 level, excluding CS 6000.

**Hours Subtotal**

12

**Secondary Area of Study**

Select 6 hours in one area of CS at the 6000 level, outside the area of specialization and excluding CS 6000.

**Hours Subtotal**

6

**Electives 3, 4**

Select 6 hours of elective CS courses at the 5000-level or above.

**Hours Subtotal**

6

**Other Requirements**

Twenty-one hours from:

- CS 6000 Doctoral Dissertation

**Hours Subtotal**

21

**Total Hours**

60

---

1 For Ph.D. students who have not earned a master’s degree, at most one grade of “C” in a core course is acceptable providing it is offset by a grade of “A” in another core course.

2 A student who has completed a master’s degree at another university may petition to have one or more of the OSU core courses waived in favor of equivalent graduate-level course(s) taken elsewhere. The question or whether or not a course at another university is equivalent to an OSU core course is entirely up to the judgment of the department.

3 These elective hours cannot include any courses claimed Core Requirements, Research Specialization or Secondary Area of Study, nor may they include any courses used on the plan of study for a master’s degree, nor may they include any hours of CS 5000 or of CS 6000.

4 Students who have not completed a master’s degree must satisfy the above elective requirements in this item plus the elective requirements for the master’s degree (under the thesis option) in this department.