## 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>
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</thead>
<tbody>
<tr>
<td>Core Courses</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select four courses - two from each category - within &quot;Core Courses&quot; listed below</td>
<td></td>
<td>12</td>
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<tr>
<td>Required Courses</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>CSC 700-level Courses (two or more)</td>
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<tr>
<td>Elective / Research Courses</td>
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<td>&quot;Elective / Research Courses&quot; are approved in conjunction with the academic committee</td>
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<tr>
<td>Total Hours</td>
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### Core Courses

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

### Faculty

**Full Professors**

- Tiffany M. Barnes
- Donald L. Bitzer
- Rada Yuryevna Chirkova
- Jon Doyle
- Rudra Dutta
- Edward F. Gehringer
- Xiaohui Gu
- Christopher Graham Healey
- James C. Lester II
- Timothy James Menzies
- Rainer Frank Mueller
- Harilaos George Perros
- Michael A. Rappa
- Douglas S. Reeves
- Gregg Evan Rothermel
- Georgios N. Rouskas
- Nagiza Faridovna Samatova
- Carla Diane Savage
- Xipeng Shen
- Munindar P. Singh
- Matthias F. M. Stallmann
Mladen Alan Vouk
Laurie A. Williams

**Associate Professors**

- Dennis R. Bahler
- Min Chi
- William H. Enck
- Vincent W. Freeh
- Khaled Abdel Hamid Harfoush
- Steffen Heber
- Arnav Harish Jhala
- Edgar Lobaton
- Noboru Matsuda
- K. Anyanwu Ogan
- David L. Roberts
- Donald R. Sheehy
- Ranga Raju Vatsavai
- Benjamin Allen Watson

**Assistant Professors**

- Anupam Das
- Guoliang Jin
- Alexandros Kapravelos
- Xu Liu
- Collin Francis Lynch
- Christopher Robin Martens
- John-Paul William Ore
- Christopher Joseph Parnin
- Thomason William Price
- Bradley Galloway Reaves
- Alessandra Scafuro
- Muhammad Shahzad
- Kathryn Thomasset Stolee
- Ruozhou Yu

**Practice/Research/Teaching Professors**

- Ignacio Xavier Dominguez
- Jason Tyler King
- Tzvetelina Battestilli
- Jamie Allison Jennings
- Jessica Young Schmidt
- Bita Akram
- Suzanne M. Balk
- Tzvetelina Battestilli
- Ignacio Xavier Dominguez
- Patrick A. Dreher
- Sarah Smith Heckman
- Jamie Allison Jennings
- Shuyin Jiao
- Shuyin Jiao
- Jason Tyler King
- Jessica Young Schmidt
- David Brian Sturgill

**Lecturer**

- Ketchiozo Thierry Wandji

**Emeritus Faculty**

- Wu-show Chou
- Edward Willmore Davis Jr.
- Robert Joseph Fornaro
- Thomas Lynn Honeycutt
- David Franklin McAllister
- Woodrow Robbins
- William James Stewart
- Alan Lee Tharp
- David J. Thuente

**Adjunct professors**

- Robert Loftin