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></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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</table>

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<th>Hours</th>
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</thead>
<tbody>
<tr>
<td></td>
<td><strong>Required Courses</strong></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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<td><strong>Elective / Research Courses</strong></td>
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<td>“Elective / Research Courses” are approved in conjunction with the academic committee</td>
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Total Hours 72

Core Courses

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<thead>
<tr>
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<tr>
<td></td>
<td><strong>Select four courses with two from each category</strong></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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<td>CSC 505</td>
<td>Design and Analysis Of Algorithms</td>
<td>3</td>
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<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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<td>CSC 579</td>
<td>Introduction to Computer Performance Modeling</td>
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<td>CSC 580</td>
<td>Numerical Analysis I</td>
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<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

**Department Head**

Gregory E. Rothermel, *Professor*

**Distinguished University Research Professor**

Donald L. Bitzer

**Distinguished Professors**

Tiffany M. Barnes

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**Distinguished University Professor**

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Rudra Dutta, Associate Department Head
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Edward F. Gehringer
Xiaohui (Helen) Gu
Christopher G. Healey, Goodnight Distinguished Professor Analytics, Institute for Advanced Analytics
Steffen Heber
Timothy J. Menzies
R. Frank Mueller
Xipeng Shen
Matthias F. M. Stallmann
R. Raju Vatsavai

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Xu Liu
Collin F. Lynch
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Sharma Vallin Thankachan
Benjamin A. Watson
Wujie Wen

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Jung -Eun Kim
Chin Ho Lee
Jiajia Li
Jianqing Liu
Xiaorui Liu
Yuchen Liu
John-Paul Ore
Thomason W. Price
Dongkuan (DK) Xu
Dominik Wermke
Bowen Xu
Chenhan Xu
Man Ki Yoon
Ruozhou Yu

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Jamie A Jennings
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Chandrika Satyavolu
Jessica Y. Schmidt
David B. Sturgill

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Abida Haque
Cai Batisda de Melo
Alexander Card
Ignacio X. Dominguez
Adam Gaweda
Shuyin Jiao
Sterling M. McLeod

Lecturers
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Margaret Heil, Director of Senior Design Center
ToniAnn Marini, Assistant Director of Undergraduate Advising

Research Professor
Franc Brglez

Assistant Research Professor
Bita Akram

Director
Leslie Rand-Pickett, Graduate Career Services

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Wu-show Chou
Jon Doyle
Edward W. Davis, Jr.
Robert J. Fornaro
Thomas L. Honeycutt
David F. McAllister
Harry Perros
Douglas S. Reeves
Woodrow Robbins
Carla D. Savage
William J. Stewart

Adjunct Faculty
Ram Chillarege
Aldo Dagnino
Steven Hunter
Chris Martens
Wookhee Min
Peng Ning
Christopher Parnin
Injong Rhee
Robert St. Amant
Xiaogang (Cliff) Wang
Tao Xie