# Computer Networking (MS)

## Degree Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Core Courses</strong></td>
<td></td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>Select at least three courses from &quot;Core Courses&quot; listed below</td>
<td></td>
</tr>
<tr>
<td><strong>Theory Courses</strong></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select at least one course from &quot;Theory Courses&quot; listed below</td>
<td></td>
</tr>
<tr>
<td><strong>Required Courses</strong></td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>CSC 600</td>
<td>Computer Science Graduate Orientation</td>
<td></td>
</tr>
<tr>
<td>or ECE 600</td>
<td>ECE Graduate Orientation</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select at least one 700-level course</td>
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<tr>
<td><strong>Additional Courses</strong></td>
<td></td>
<td>15</td>
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<tr>
<td></td>
<td>&quot;Additional Courses&quot; are approved in conjunction with the academic committee</td>
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<tr>
<td><strong>Thesis Option Courses</strong></td>
<td></td>
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</tr>
<tr>
<td>CSC 630</td>
<td>Master's Independent Study (Non-Thesis Option)</td>
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</tr>
<tr>
<td>or ECE 634</td>
<td>Individual Studies In Electrical Engineering</td>
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<tr>
<td>CSC 695</td>
<td>Master's Thesis Research (Thesis Option)</td>
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<tr>
<td>or ECE 695</td>
<td>Master's Thesis Research</td>
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<tr>
<td></td>
<td>Total Hours</td>
<td>31</td>
</tr>
</tbody>
</table>

## Core Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
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<tbody>
<tr>
<td>CSC/ECE 570</td>
<td>Computer Networks</td>
<td>3</td>
</tr>
<tr>
<td>CSC/ECE 573</td>
<td>Internet Protocols</td>
<td>3</td>
</tr>
<tr>
<td>CSC/ECE 574</td>
<td>Computer and Network Security</td>
<td>3</td>
</tr>
<tr>
<td>CSC/ECE 575</td>
<td>Introduction to Wireless Networking</td>
<td>3</td>
</tr>
<tr>
<td>CSC/ECE 577</td>
<td>Switched Network Management</td>
<td>3</td>
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</table>

## Theory Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSC 505</td>
<td>Design and Analysis Of Algorithms</td>
<td>3</td>
</tr>
<tr>
<td>CSC 565</td>
<td>Graph Theory</td>
<td>3</td>
</tr>
<tr>
<td>CSC 579</td>
<td>Introduction to Computer Performance Modeling</td>
<td>3</td>
</tr>
<tr>
<td>or ECE 579</td>
<td>Introduction to Computer Performance Modeling</td>
<td></td>
</tr>
<tr>
<td>CSC/ECE 776</td>
<td>Design and Performance Evaluation of Network Systems and Services</td>
<td>3</td>
</tr>
<tr>
<td>ECE 766</td>
<td>Signal Processing for Communications &amp; Networking</td>
<td>3</td>
</tr>
<tr>
<td>CSC/ECE 777</td>
<td>Telecommunications Network Design</td>
<td>3</td>
</tr>
</tbody>
</table>

## Faculty

### Full Professors

B. Jayant Baliga  
Mesut E. Baran  
Salah M. A. Bedair  
Subhashish Bhattacharya  
Alper Yusuf Bozkurt  
Gregory T. Byrd  
Rada Yuryevna Chirkova  
Mo-Yuen Chow  
Huaiyu Dai  
William Rhett Davis  
Alexandra Duel-Hallen  
Michael James Escuti  
Do Young Eun  
Brian Allan Floyd  
Paul D. Franzon  
John J. Grainger  
Edward Grant  
Brian L Hughes  
Iqbal Husain  
Ki Wook Kim  
Frederick Anthony Kish Jr.  
Robert Michael Kolbas  
Hamid Krim  
Ning Lu  
Srdjan Miodrag Lukic  
Leda Lunardi  
Thomas Kenan Miller III  
Veena Misra  
Rainer Frank Mueller  
John F. Muth  
H. Troy Nagle Jr.  
Arne Nilsson  
Omer Oralkan  
Mehmet Cevdet Ozturk  
Harilaos George Perros  
Douglas Stephen Reeves  
Eric Rotenberg  
Mihail Lorin Sichitiu
Daniel D. Stancil
Michael B. Steer
J K Townsend
James Tuck
Daryoosh Vashaee
John Victor Veliadis
Ioannis Viniotis
Wenye Wang
Huiyang Zhou

Associate Professors
Jacob James Adams
Samuel T. Alexander
Dror Zeev Baron
Michela Becchi
Aranya Chakrabortty
Alexander G. Dean
Ismail Guvenc
Khaled Abdel Hamid Harfoush
Michael W. Kudenov
Edgar Lobaton
Zeljko Pantic
David Ricketts
Cranos M. Williams
Chengying Xu

Assistant Professors
Aydin Aysu
Michael Daniele
Yaoyao Jia
Shih-Chun Lin
Spyridon Pavlidis
Bradley Galloway Reaves
Muhammad Shahzad
Wen yuan Tang
Chau-Wai Wong

Tianfu Wu

Practice/Research/Teaching Professors
Gregory Edward Bottomley
Laura J. Bottomley
James Paul Dieffenderfer
Robert Joseph Evans
Douglas C. Hopkins
Steven Wade Hunter
Steven D. Jackson
Bongmook Lee
David Lee Lubkeman
Robert Dwight Oden Jr.
Hatice Orun Ozturk
Veety Elena Nicolescu Veety
Tania Milkova Paskova
Andrew J. Rindos III
Elena Nicolescu Veety
Leonard Wilson White
Donna G. Yu
Wensong Yu

Emeritus Faculty
Winser E. Alexander
George F. Bland
David H. Covington
Tildon H. Glisson Jr.
John R. Hauser
Michael A. Littlejohn
David Franklin McAllister
Carlton M. Osburn
Wilbur Carroll Peterson
Sarah Ann Rajala
Wesley E. Snyder