Computer Networking (MS): Internship Concentration

Degree Requirements

This concentration will require an Internship of at least four months duration (maximum of seven months) and the student to take 3 credit hours of ECE 650 and obtain a Satisfactory grade. An internship of at least four calendar months duration would require that it span at least one semester and possibly part of summer. The credits for ECE 650 would be taken during the semester that includes the internship. The student would be considered as being enrolled full time during that semester.

A student would not enroll in this concentration in their first semester. They would switch to it in a later semester if they secure a suitable internship. Per normal CPT rules, International students studying on an F-1 visa would have to be present on a US campus for two full semesters (a full academic year), and present at NC State for one semester, before using CPT privileges to take an internship. If a student switches to this concentration but does not start the internship, they will switch back to the original plan.

This will be a concentration only for on-campus students. Students enrolled in our distance education – Engineering Online (EOL) - option will not be eligible.

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<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
<th>Counts towards</th>
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<tr>
<td>Core Courses</td>
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<td>Theory Courses</td>
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<td>Required Courses</td>
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<td>Concentration Requirement</td>
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<td>Additional Courses</td>
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<td>Thesis Option Courses</td>
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### Core Courses

Select at least three courses from the following:

- CSC/ECE 570 Computer Networks 3
- CSC/ECE 573 Internet Protocols 3
- CSC/ECE 574 Computer and Network Security 3
- CSC/ECE 575 Introduction to Wireless Networking 3
- CSC/ECE 577 Switched Network Management 3

### Theory Courses

Select a minimum of one course below:

- CSC 505 Design and Analysis Of Algorithms 3
- CSC 565 Graph Theory 3
- CSC 579 Introduction to Computer Performance Modeling 3
- CSC/ECE 576 Design and Performance Evaluation of Network Systems and Services 3
- ECE 766 Signal Processing for Communications & Networking 3
- CSC/ECE 777 Telecommunications Network Design 3

ECE 650 requires that a written report be submitted and accepted by an ECE faculty examiner as meeting the standards required by the course. The written report should cover both technical and non-technical aspects of what the student did and learned during the internship. The report should not disclose company proprietary information.
Faculty
Jacob James Adams
Winser E. Alexander
Aydin Aysu
B. Jayant Baliga
Amay Jairaj Bandodkar
Mesut E. Baran
Dror Zeev Baron
Michela Becchi
Salah M. A. Bedair
Subhashish Bhattacharya
George F. Bland
Gregory Edward Bottomley
Laura J. Bottomley
Alper Yusuf Bozkurt
Gregory T. Byrd
Aranya Chakrabortty
Rada Yuryevna Chirkova
Mo-Yuen Chow
David H. Covington
Huaiyu Dai
Michael Daniele
William Rhett Davis
Alexander G. Dean
James Paul Dieffenderfer
Alexandra Duel-Hallen
Michael James Escuti
Do Young Eun
Robert Joseph Evans
Brian Allan Floyd
Paul D. Franzon
John J. Grainger
Edward Grant
Qing Gu
Rachana Ashok Gupta
Ismail Guvenc
Khaled Abdel Hamid Harfoush
John R. Hauser
Robert Wendell Heath
Douglas C. Hopkins
Brian L. Hughes
Steven Wade Hunter
Iqbal Husain
Andrew J. Rindos III
Steven D. Jackson
Yaoyao Jia
Frederick Anthony Kish Jr
Robert Dwight Oden Jr.
Tildon H. Glisson Jr.
Ki Wook Kim
Robert Michael Kolbas
Hamid Krim
Michael W. Kudenov
Bongmook Lee
Shih-Chun Lin
Michael A. Littlejohn
Yuchen Liu
Xiaorui Liu
Edgar Lobaton
Ning Lu
David Lee Lubkeman
Srdjan Miodrag Lukic
Leda Lunardi
Thomas Kenan Miller III
David Franklin McAllister
Veena Misra
Aritra Mitra
Rainer Frank Mueller
John F. Muth
H. Troy Nagle Jr.
Arne Nilsson
Omer Oralkan
John-Paul Ore  
Carlton M. Osburn  
Mehmet Cevdet Ozturk  
Hatice Orun Ozturk  
Zeljko Pantic  
Tania Milkova Paskova  
Spyridon Pavlidis  
Harilaos George Perros  
Wilbur Carroll Peterson  
Nuria Gonzalez Prelcic  
Sarah Ann Rajala  
Bradley Galloway Reaves  
Douglas Stephen Reeves  
David Ricketts  
Eric Rotenberg  
Muhammad Shahzad  
Nitin Sharma  
Mihail Lorin Sichitiu  
Wesley E. Snyder  
Daniel D. Stancil  
Michael B. Steer  
Wenyuan Tang  
J K Townsend  
James Tuck  
Daryoosh Vashaee  
Abraham Vazquez-Guardado  
Elena Nicolescu Veety  
John Victor Veliadis  
Suresh Venkatesh  
Ioannis Viniotis  
Wenyue Wang  
Leonard Wilson White  
Jonathan Wierer  
Cranos M. Williams  
Chau-Wai Wong  
Tianfu Wu  
Lirong Xiang  
Chengying Xu  
Donna G. Yu  
Wensong Yu  
Huiyang Zhou  
Yong Zhu