

# Computer Networking (MS)

## Degree Requirements

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

## Core Courses

Code	Title	Hours
<b>Select at least three courses from the following:</b>		
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

Code	Title	Hours
<b>Select a minimum of one course below:</b>		
CSC 505	Design and Analysis Of Algorithms	3
CSC 565	Graph Theory	3
CSC/ECE 579	Introduction to Computer Performance Modeling	3
ECE 766	Signal Processing for Communications & Networking	3
CSC/ECE 777	Routed Network Design	3

## Accelerated Bachelor's/Master's Degree Requirements

The Accelerated Bachelors/Master's (ABM) degree program allows exceptional undergraduate students at NC State an opportunity to complete the requirements for both the Bachelor's and Master's degrees at an accelerated pace. These undergraduate students may double count up to 12 credits and obtain a non-thesis Master's degree in the same field within 12 months of completing the Bachelor's degree, or obtain a thesis-

based Master's degree in the same field within 18 months of completing the Bachelor's degree.

This degree program also provides an opportunity for the Directors of Graduate Programs (DGPs) at NC State to recruit rising juniors in their major to their graduate programs. However, permission to pursue an ABM degree program does not guarantee admission to the Graduate School. Admission is contingent on meeting eligibility requirements at the time of entering the graduate program.

## Faculty

Harald Ade  
 B. Jayant Baliga  
 Mesut E. Baran  
 Salah M. A. Bedair  
 Subhashish Bhattacharya  
 Alper Yusuf Bozkurt  
 Gregory T. Byrd  
 Stanley Cheung  
 Rada Yuryevna Chirkova  
 Mo-Yuen Chow  
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 Huaiyu Dai  
 William Rhett Davis  
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 Michael James Escuti  
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 Brian Allan Floyd  
 Paul D. Franzon  
 John Gajda  
 John J. Grainger  
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Michela Becchi

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Alexander G. Dean

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Khaled Abdel Hamid Harfoush

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Michael A. Littlejohn

David Franklin McAllister

Carlton M. Osburn

Wilbur Carroll Peterson

Sarah Ann Rajala

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