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.

Code	Title	Hours
Core Courses		**9**
	Select at least three courses from "Core Courses" listed below	
Theory Courses		**3**
	Select at least one courses from "Theory Courses" listed below	
Required Courses		**4**
CSC 600	Computer Science Graduate Orientation	
or ECE 600	ECE Graduate Orientation	
	Select at least one 700-level course	
Concentration Requirement		**3**
ECE 650	Internship *	
Additional Courses		**12**
	"Additional Courses" are approved in conjunction with the academic committee	
Thesis Option Courses		
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	
Total Hours		**31**

* 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.

Core Courses

Code	Title	Hours
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

Code	Title	Hours
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
or ECE 579	Introduction to Computer Performance Modeling	
ECE 766	Signal Processing for Communications & Networking	3
CSC/ECE 777	Routed Network Design	3

Faculty

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Douglas C. Hopkins

Steven Wade Hunter

Steven D. Jackson

Bongmook Lee

David Lee Lubkeman

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