INTERNET TECHNOLOGIES (IT) CONCENTRATION FOR COMPUTER SCIENCE MAJORS

The internet technologies (iT) concentration supplements the Computer Science (CS) curriculum by focusing on the concepts and technologies needed to implement modern web applications. The concentration is designed to supplement the CS core curriculum by introducing the programming aspects as well as the theoretical concepts needed to build the infrastructure for web systems such as search engines, social networking sites, etc. The iT concentration provides extensive hands-on, project-based experience for students.

Requirements

Code	Title	Credits
Required Courses		
CSCI 2850	PROGRAMMING ON THE INTERNET	3
CSCI 3830	ADVANCED JAVA PROGRAMMING	3
CSCI 3850	FOUNDATIONS OF WEB SEARCH TECHNOLOGIES	3
Elective Courses [1]		
Select 9 hours from the following:		9
CSCI/CYBR 3450	NATURAL LANGUAGE PROCESSING	
CSCI/MATH 4150	GRAPH THEORY & APPLICATIONS	
CSCI 4250	HUMAN COMPUTER INTERACTION	
CYBR 4460	NETWORK-BASED VULNERABILITY DISCOVERY	
CSCI 4900	INTERNET SYSTEMS DEVELOPMENT	
CSCI 4470	PATTERN RECOGNITION	
CSCI 4850	DATABASE MANAGEMENT SYSTEMS	
CSCI 4890	DATA WAREHOUSING AND DATA MINING	
Total Credits		**18**

[1] The list of electives is not exhaustive. Students can take other relevant courses as electives under the approval of the computer science undergraduate program committee.