COMPUTER INFORMATION SYSTEMS - WEB TECHNOLOGIES AND SYSTEMS CONCENTRATION (MS)

Department: Computer Science and Information Systems

The Web technologies and systems concentration provides students with essential background, understanding, knowledge, and skills in the practice of design and development of Web technologies and integrated Web-based systems and applications.

Preferred Prior Coursework

Successful candidates will normally have completed the following coursework prior to applying:

1. one semester of calculus
2. one semester of statistics, and
3. two semesters of computer programming

In addition to meeting all the general requirements of Graduate Education and of the department as stated above, candidates for the master's degree in computer information systems must satisfy the following requirements:

1. At least 21 of the 30 semester hours required must be earned in courses labeled as CIS. At most, three hours may be earned in approved courses other than those labeled CS or CIS.
2. To satisfy the core (breadth) requirements, a student must either take the following courses or show the evidence of having completed equivalent courses elsewhere:
   a. CIS 530 Information Technology Infrastructure
   b. CIS 571 Database Management Systems
   c. CIS 575 Computer Information Systems Analysis. Design and Integration
   d. CIS 591 CIS and IT Project Management.
3. To satisfy the depth requirements, the student must take three courses from one of the concentrations offered by the department. No course taken to satisfy the core requirements (see items 2) may be counted as one of the three courses in this requirement. Students are admitted into the Master of Science in Computer Information Systems program and declare a concentration after beginning their coursework.

Concentration Requirements

The concentration is comprised of 9 semester hours of study including 3 semester hours of required courses and 6 semester hours of elective courses as outlined below.

Code	Title	Hours
Required Course		
CS 531	Web Development Technologies	3.0
Electives		
Select two of the following:		6.0
CIS 545	Integrative Programming and Technology	
CS 520	Advanced Computer Architecture	
CS 532	Advanced Java Computing	
CS 593	Agile Software Development	
CS 625	Operating Systems Design	
CS 635	Data Communications and Networks	
Total Hours		**9**