Visual Guide to the CIS Major: Web and Mobile Technologies Emphasis

Introductory Core
All students take these, and upper level offerings draw on these as prerequisites.

CIS 100/115: IT & Society

CIS 112: Database Concepts

CIS 220: Object-Oriented Programming

CIS 271: Digital and Social Media

Specific offerings of the topics courses CIS 297 and CIS 397 may also count towards various CIS distribution requirements.

Electives
In addition to taking at least three Web and Mobile Technologies electives, students must complete at least one course in each category shown and at least two at the 300-level or higher.

CIS Elective
Any CIS course at any level may be used here.

User Needs
CIS 301: Human Computer Interaction
CIS 310: Systems Analysis

Coding and Production
CIS 265: Digital Video
CIS 275: Web Design
CIS 280: Scripting Languages
CIS 320: Data Structures
CIS 343: Adv. Data Analysis: Simulations
CIS 345: Adv. Data Analysis: Networks
CIS 361: Digital Imaging
CIS 375: Advanced Web and Mobile Development

Analysis and Modeling
CIS 230: Artificial Intelligence
CIS 241: Data Mining
CIS 245: Information Visualization
CIS 310: Systems Analysis
CIS 320: Data Structures
CIS 335: Information Security
CIS 343: Adv. Data Analysis: Simulations
CIS 345: Adv. Data Analysis: Networks

Design and Interaction
CIS 245: Information Visualization
CIS 265: Digital Video
CIS 275: Web Design
CIS 301: Human Computer Interaction
CIS 361: Digital Imaging
CIS 375: Advanced Web and Mobile Development

CIS Elective
Any CIS course at any level may be used here.

Catalog Text: Students complete the requirements of the CIS major, with one of their electives being CIS 275 and at least two of their remaining electives drawn from CIS 245, CIS 280, or CIS 375. Some offerings of CIS 297 or CIS 397 may also be designated as counting towards the Web and Mobile Technologies emphasis.

Capstone Experience
Students should plan on taking this course in the spring of their senior year.

CIS 400: Service-Learning Project Management

Key

: Required Course

: Select One Course

: Any CIS Course