Visual Guide to the CIS Major

Catalog Text: A minimum of 11 CIS courses, including CIS 100, 112, 220, 271, either CIS 301 or CIS 310, and CIS 400 (the capstone experience). In addition, students must take at least one additional course with each of the following designations: Coding and Production, Design and Interaction, and Analysis and Modeling. At least four of the eleven total courses must be at the 300-level or higher.

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

- CIS 100: IT & Society
- CIS 112: Database Concepts
- CIS 220: Object-Oriented Programming
- CIS 271: Digital Media

Electives
Students take a mix of constrained and free electives. A minimum of three of these must be 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 275: Web Design
  - CIS 297: Javascript (this topic only)
  - CIS 320: Data Structures
  - CIS 351: Advanced Databases
  - CIS 361: Digital Imaging
  - CIS 365: Digital Film
  - CIS 375: Advanced Web Development
  - CIS 380: Mobile Applications
- Analysis and Modeling
  - CIS 207: Networking
  - CIS 208: Eye Tracking Methods
  - CIS 241: Data Mining
  - CIS 245: Information Visualization
  - CIS 310: Systems Analysis
  - CIS 320: Data Structures
  - CIS 335: Information Security
- Design and Interaction
  - CIS 245: Information Visualization
  - CIS 271: Digital Media
  - CIS 275: Web Design
  - CIS 301: Human Computer Interaction
  - CIS 361: Digital Imaging
  - CIS 365: Digital Film
  - CIS 375: Advanced Web Development
  - CIS 380: Mobile Applications

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

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

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