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

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

**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.

**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 275: Web Design
- CIS 320: 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.

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

**Capstone Experience**
- CIS 400: Service-Learning Project Management

**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 375, or CIS 380. Some offerings of CIS 297 or CIS 397 may also be designated as counting towards the Web and Mobile Technologies emphasis.

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

**Key**
- : Required Course
- : Select One Course
- : Any CIS Course