




# Visual Guide to the CIS Major: Digital Media Emphasis

**Catalog Text:** Students complete the requirements of the CIS major, with at least three of their five electives drawn from CIS 265, CIS 275, CIS 361, or CIS 375. Some offerings of CIS 297 or CIS 397 may also be designated as counting towards the Digital Media 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

## Electives

In addition to taking at least three Digital Media 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.*

## 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.