

# Visual Guide to the CIS Minor

## Introductory Core

All minors take a course about the history and social impact of technology and two introductory implementation courses.

CIS 100: IT & Society

## Take Two of These

CIS 112: Database Concepts

CIS 220: Object-Oriented Programming

CIS 275: Web Design

CIS 280: Scripting Languages

Note that there is no need to complete your introductory core courses before taking electives. In fact, many minors take courses like CIS 271 or CIS 241 as their first course before proceeding with the core.

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

## Electives

Students take a mix of constrained and free electives. At least one of these must be at the 300-level or higher.

### Design and Interaction

CIS 245: Information Visualization  
 CIS 265: Digital Video  
 CIS 271: Digital and Social Media  
 CIS 275: Web Design  
 CIS 301: Human Computer Interaction  
 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 341: Numerical Computation

CIS Elective

**Catalog Text:** Six courses, including CIS 100, two of CIS 112, 220, 275, or 280, one additional course designated Design and Interaction, and one additional course designated Analysis and Modeling. At least one of these six courses must be at the 300-level or higher.

**Advising:** While minors do not have official academic advisors within the department, they are encouraged to consult with one of the CIS faculty in planning their coursework.

## Key

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