# Visual Guide to CIS Affiliated Concentrations

## Computational Science

CIS 112: Database Conc.
CIS 208: Eye Tracking Methods
CIS 220: Object-Oriented Prog.
CIS 241: Data Mining
CIS 245: Info. Visualization
CIS 320: Data Structures
CIS 341: Numerical Computation
PHY 234: Math Methods in Physics

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**Catalog Text:** The concentration consists of four required courses selected from the following list: CIS112, CIS 208, CIS 220, CIS 241, CIS 245, CIS 320, CIS 341, and PHY 234. Courses may be taken in any order, though some have prerequisites.

## Professional Writing

ENG 201: Introduction to Professional Writing

**Group One**
COM 101: Introduction to Rhetoric and Communication
ENG 202: Topics in Prof. Writing
ENG 203: Editing & Print Design
ENG 301: Adv Professional Writing
CIS 271: Digital and Social Media
CIS 275: Web Design
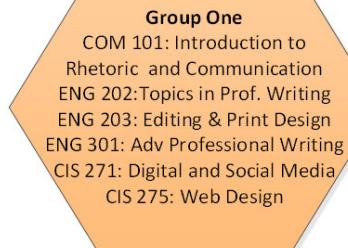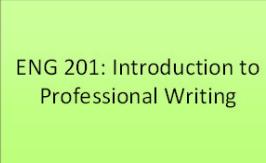
Courses must be selected from at least two departments. A pre-approved internship/editorship may be completed in place of a fourth class.

**Group One**
COM 101, ENG 202, ENG 203, ENG 301, CIS 271, CIS 275
**Group Two**
BIO 415, CIS 245, COM 271, COM 311, COM 351, ENG 200, FRN 371, GER 371, SPN 371

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BIO 415, CIS 245, COM 271, COM 311, COM 351, ENG 200, FRN 371, GER 371, SPN 371
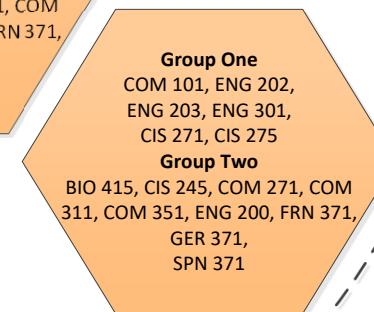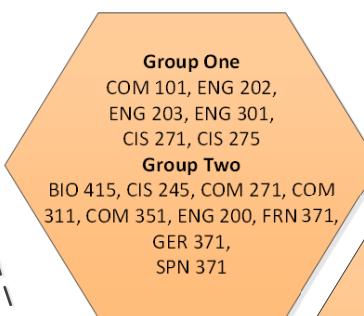
**Catalog Text:** The concentration consists of four required courses. All students must take the foundational course, ENG 201: Introduction to Professional Writing. One additional course must be selected from Group 1; two more courses must be selected from Group 1 or Group 2. Students must select courses from at least two departments. Courses may be taken in any order, though some have pre-requisites.

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The Computational Science concentration is available to students in any major except Computing and Information Studies. Students may not complete both the CIS minor and the Computational Science concentration.

The Professional Writing concentration is available to all students regardless of major.

**Key**

: Required Course

: Select One Course

: Any CIS Course