Course Requirements by Emphasis

**Data Science**
- IS 302 - Introduction to Data Science(F,S)
- IS 308 - Information Technologies(F,S)
- IS 410 - Analytics and Information Problems(S)
- IS 412 - Data Mining and Predictive Analytics(F)
- CS 316 - Advanced Software Design(F,S)
- CS/IS 361 - Information Assurance and Security(F)
- CS 451 - Database Systems and Big Data Processing(S)
- 2 Elective Courses*

**Game Studies**
- IS 308 - Information Technologies(F,S)
- IS 341 - Survey of Gaming and Interactive Media(F)
- IS 342 - Game Design(S)
- CS 316 - Advanced Software Design (F,S)
- CS 464 - Artificial Intelligence(F)
- CS 474 - Game Engines(S)
- 3 Elective Courses*

**Information Technology**
- IS 302 - Introduction to Data Science (F,S)
- IS 308 - Information Technologies (F,S)
- IS 410 - Analytics and Information Problems (S)
- IS 430 - Information, Media and Society (F,S)
- CS 316 - Advanced Software Design(F,S)
- CS 358 - Data Communication and Computer Networks(S)
- CS/IS 361 - Information Assurance and Security(F)
- 2 Elective Courses*

*Elective Courses: For all emphases, students must choose 2 to 3 elective courses (3 credits), typically this is an internship/capstone, but any upper level course is sufficient. The course must be in COMM, COMP SCI or INFO SCI.

F: Fall; S: Spring

Information Science Graduate Careers

- Business Analyst
- Community Manager
- Composer Audio Engineer
- Data Analyst
- Data Scientist
- Digital Media Manager
- Editor
- Engine Programmer
- Game Animator
- Game Artist - 2D
- Game Artist - 3D
- Game Journalist
- Game Programmer
- Game Writer
- Head of Analysis
- Health Analytics Engineer
- IT Professional
- Marketing Analytics Engineer
- Producer
- Programmer
- QA Tester
- Risk and Analytics Engineer
- Software Engineer
- Sound Designer
- Sound Engineer
- System Analyst
- User-driven Researcher
- Web Analytics Engineer
- Data Detective

“Inspiring minds to solve complex information problems.”
Complete Major Declaration Form at: https://www.uwgb.edu/information-sciences/declaring-a-major-or-minor/

- Gain acceptance from Chair/Advisor
- Review acceptance letter

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<tr>
<th>Prerequisite Core Courses</th>
<th>Upper-Level Courses</th>
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- **COMM 133: Fundamentals of Public Address** (Fall, Spring and Summer) or
- **COMM 237: Small Group Communication** (Fall and Spring)
- **COMM 290: Communication Problems and Research Methods** (Fall and Spring)
- **COMP SCI 201: Introduction to Computing and Internet Technology** (Fall, Spring and Summer)
- **COMP SCI 221: Database Design and Management** (Fall)
- **COMP SCI 231: Introduction to IT Operations** (Fall)
- **COMP SCI 256: Intro to Software Design** (Fall and Spring)
- **MATH 260: Introductory Statistics** (Fall and Spring)

... in your area of emphasis:
- **Game Studies**
  Advisor: Dr. Bryan Carr
- **Information Technology**
  Advisor: Dr. Phil Clampitt
- **Data Science**
  Advisor: Dr. Katie Turkiewicz
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