Information Sciences Major

Area of Emphasis

Students must complete requirements in one of the following areas of emphasis:

- Data Science
- Game Studies
- Information Technology

Data Science

Code	Title	Credits
Supporting Courses		**24**
COMP SCI 201	Introduction to Computing & Internet Technologies	
COMP SCI 221	Database Design & Management	
COMP SCI 231	Introduction to IT Operations	
COMP SCI 256	Introduction to Software Design	
COMM 133	Fundamentals of Public Address	
or COMM 237	Small Group Communication	
COMM 290	Communication Problems and Research Methods	
MATH 260	Introductory Statistics	
Upper-level Courses		**27**
INFO SCI 302	Introduction to Data Science	
INFO SCI 308	Information Technologies	
INFO SCI 361	Introduction To Information Assurance & Security	
INFO SCI 410	Analytics and Information Problems	
INFO SCI 412	Data Mining and Predictive Analytics	
COMP SCI 372	Software Engineering	
COMP SCI 451	Database Systems and Big Data Processing	
2 Elective Courses - Six additional credits at the upper level in COMM, COMP SCI, or INFO SCI		
Total Credits		**51**

Game Studies

Code	Title	Credits
Supporting Courses		**24**
COMP SCI 201	Introduction to Computing & Internet Technologies	
COMP SCI 221	Database Design & Management	
COMP SCI 231	Introduction to IT Operations	
COMP SCI 256	Introduction to Software Design	
COMM 133	Fundamentals of Public Address	
or COMM 237	Small Group Communication	
COMM 290	Communication Problems and Research Methods	
MATH 260	Introductory Statistics	
Upper-Level Courses		**28**
COMM/INFO SCI 308	Information Technologies	
INFO SCI 341	Survey of Gaming and Interactive Media	
INFO SCI 342	Game Design	
COMP SCI 316	Advanced Software Design	
COMP SCI 464	Artificial Intelligence	
COMP SCI 474	Game Engines	

3 Elective Courses - 9 additional credits at the upper level in COMM, COMP SCI or INFO SCI	
Total Credits	**52**

Information Technology

Code	Title	Credits
Supporting Courses		**24**
COMP SCI 201	Introduction to Computing & Internet Technologies	
COMP SCI 221	Database Design & Management	
COMP SCI 231	Introduction to IT Operations	
COMP SCI 256	Introduction to Software Design	
COMM 133	Fundamentals of Public Address	
or COMM 237	Small Group Communication	
COMM 290	Communication Problems and Research Methods	
MATH 260	Introductory Statistics	
Upper Level Courses		**28**
INFO SCI 302	Introduction to Data Science	
INFO SCI/COMM 308	Information Technologies	
INFO SCI 361	Introduction To Information Assurance & Security	
INFO SCI 410	Analytics and Information Problems	
INFO SCI/COMM 430	Information, Media and Society	
COMP SCI 316	Advanced Software Design	
COMP SCI 358	Data Communication and Computer Networks	
2 Elective Courses (choose 6 credits):		
Six credits should be from upper-level courses in COMM, COMP SCI, or INFO SCI		
Total Credits		**52**