Information Technology and Data Science 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**
COMM 308	Information and Communication Technologies	
COMP SCI 361	Information Assurance and Security	
COMP SCI 372	Software Engineering	
COMP SCI 451	Database Systems and Big Data Processing	
INFO SCI 302	Introduction to Data Science	
INFO SCI 410	Analytics and Information Problems	
INFO SCI 412	Data Mining and Predictive Analytics	
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**
INFO SCI 302	Introduction to Data Science	
COMM 308	Information and Communication Technologies	
COMM 430	Information, Media and Society	
COMP SCI 316	Advanced Software Design	
INFO SCI 341	Survey of Gaming and Interactive Media	
INFO SCI 342	Game Design	
INFO SCI 443	Game Development	

2 Elective Courses - 6 additional credits at the upper level in COMM, COMP SCI or INFO SCI		
Total Credits		**52**

Information Technology

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