Digital Information Systems, Minor

The minor in digital information systems is designed for students who want to learn about information systems and their role in business, without preparing to be computer programmers. Many businesses, whether commerce- or service-oriented, are now driven by the information their IT systems capture about customers, their habits, and relevant aspects of the business. Students completing the digital information systems minor learn about the "why" of digital information systems, the technological underpinnings of these systems, and constraints on their design and use.

The minor is ideally suited for students in programs such as business administration, economics, civil engineering or urban studies, where digital information systems are essential to the primary task at hand.

The minor includes course work covering the opportunities and limitations of digital information systems, their design and advanced topics such as information retrieval and visualization. Students completing the minor will gain practical experience designing digital information systems and their interfaces in a variety of different domains.

The minor offers flexibility in the courses that students choose to take, and does not require prior programming experience. While it is possible to enroll in more technical classes, it is also possible to complete the minor without taking courses in programming.

A. Select one of the following:	
I&C SCI 10	How Computers Work
I&C SCI 20	Invitation to Computing
I&C SCI 31	Introduction to Programming
B. Select two of the following:	
I&C SCI 3	Computing Technologies and Their Social Impact
I&C SCI 4	Designing Computing Technology for People
I&C SCI 5	Global Disruption and Information Technology
I&C SCI 11	The Internet and Public Policy
I&C SCI 32	Programming with Software Libraries
I&C SCI H32	Python Programming and Libraries (Accelerated)
IN4MATX 43	Introduction to Software Engineering
I&C SCI 61	Game Design Fundamentals
C. Select four of the following:	
IN4MATX 131	Human Computer Interaction
IN4MATX 132	Project in Human-Computer Interaction Requirements and Evaluation
IN4MATX 143	Information Visualization
IN4MATX 148	Project in Ubiquitous Computing
IN4MATX 151	Project Management
IN4MATX 161	Social Analysis of Computing
IN4MATX 162W	Organizational Information Systems
IN4MATX 163	Project in the Social and Organizational Impacts of Computing
IN4MATX 171	Introduction to Health Informatics
IN4MATX 172	Project in Health Informatics

NOTE: Bren School of ICS majors may not minor in Digital Information Systems. Courses used to complete the minor in Digital Information Systems may not also count toward the requirements for the Information and Computer Science minor or the Informatics minor.

- Game Design and Interactive Media, B.S.
- Health Informatics, Minor
- Informatics, B.S.
- Informatics, M.S.
- Informatics, Minor
- Informatics, Ph.D.
- Master of Human Computer Interaction and Design
- Master of Software Engineering

- Software Engineering, M.S.
- Software Engineering, Ph.D.