Courses in Informatics

I Inf 100X (formerly I IST 100X)
Information in the 21st Century (3)
This course offered online through the Blackboard Learning System. Introduction to information and technology in the 21st Century. Different resources, including the Internet, libraries, news sources and other sources of information, hardware, and Web 2.0 technologies will be explored. The primary emphasis of the class is on discovering reliable information sources for any and all subjects so that a student's future research and other pursuits are supported by the methods developed in this course. Each student is called upon to fortify their own individual communication and reasoning skills and will demonstrate the use of those skills through course assignments, class presentations and group activities.
(1655) Cronemberger, Felippe
4 Week 2: June 20-July 15
Online course in Blackboard

I Inf 108
Programming for Problem Solving (3)
This course offered online through the Blackboard Learning System. Ever thought about a problem and said, "There should be an app for that"? This course provides an introduction to computer programming using modern programming languages as a way to solve problems. It focuses on programming concepts and fundamentals within the context of solving real world problems.
(2373) Dumas, Catherine
4 Week 1: May 23-June 17
Online course in Blackboard

I Inf 200
Research Methods for Informatics (3)
This course offered online through the Blackboard Learning System. In this course students will gain an understanding of key methods and techniques in research and will prepare to critically evaluate and engage in research. Topics covered will include: identifying and articulating research problems, posing research questions, research design, data collection strategies, quantitative and qualitative analyses, interpreting results of analyses, and concerns in human subject research. Prerequisite(s): I INF 100.
(2098) Zhao, Xiaoyi
4 Week 2: June 20-July 15
Online course in Blackboard

I Inf 201
Introduction to Web Technologies (3)
This course offered online through the Blackboard Learning System. A technique-oriented introduction to client-based Web design and development technologies, including HTML/XHTML, CSS, JavaScript, digital imaging, file formats, etc.; also the elements of UNIX and networks necessary to understand and implement basic information management and transfer. Prerequisite(s): I INF 100X; not open to students who are taking or have completed I IST 361.
(1654) Geng, Qianwen
4 Week 3: July 18-August 12
Online course in Blackboard

I Inf 202
Introduction to Data and Databases (3)
This course offered online through the Blackboard Learning System. This course introduces students to data and databases. It covers both long-standing relational (SQL) databases and newly emerging non-
relational (NoSQL) data stores. The nature of data, Big Data, intellectual property, system lifecycle, and development collaboration are also explored. Team-based activities alternate with hands-on exercises.

Prerequisite(s): I CSI 101, 105, 110 or 201 or B ITM 215; not open to students who are taking or have completed I CSI 410 or 411 or B ITM 331.

(2374) Jacob, Jenson
4 Week 1: May 23-June 17
*Online course in Blackboard*

I Inf 203
*Introduction to Networks and Systems* (3)
*This course offered online through the Blackboard Learning System.* This course provides an introduction to computer networking and computer systems. The course covers the fundamentals of networked computing systems with an emphasis placed on the basics of network protocols and how they operate at all layers of the networking models. The course also introduces students to personal computer internal system components, storage systems, peripheral devices, and operating systems from an introductory computer architecture perspective. Prerequisite(s): I CSI 105 or 201.

(2099) Leszczynski, Kirk
4 Week 3: July 18-August 12
*Online course in Blackboard*

I Inf 301 (formerly I IST 301X)
*Emerging Trends in Information and Technology* (3)
*This course offered online through the Blackboard Learning System.* This course is designed to address challenges of the 21st century from the information science framework. We will explore emerging technologies and discuss how they alter and create new information environments. Examples of these technologies include Big Data, 3D Printing, Social Media, Wearable Computing, etc. Attention will be paid to real world uses of these technologies, emphasizing how they are changing business, government, education, and a number of other industries. This course also focuses on career paths for digital citizens in the 21st century. Prerequisite(s): I INF 100X or I IST 100X.

(1847) Graves, Amanda
4 Week 1: May 23-June 17
*Online course in Blackboard*

I Inf 305
*Digital Project Management* (3)
*This course offered online through the Blackboard Learning System.* This course provides an introduction to current practices in project management with a focus on the management of digital projects. It is intended to provide a broad overview of the concepts, issues, tools and techniques related to the management of digital projects from concept to completion. Topics covered include project manager role/responsibilities, project team structure, project documentation, project phases/SDLC, project management methodologies, troubled projects, digital analytics and more. Prerequisite(s): I INF 201 and I INF 202.

(2190) Allena, Ramana
4 Week 2: June 20-July 15
*Online course in Blackboard*

I Inf 306
*Information Security and Assurance* (3)
*This course offered online through the Blackboard Learning System.* Technical aspects of cybersecurity in computer and network systems. The nature of attacks and defense in digital systems; models of vulnerabilities, threats and security; cryptography; forensics; security policies and procedures; software and network security. Prerequisite(s): I INF 202.

(1845) Domkoski, Daniel
4 Week 2: June 20-July 15
*Online course in Blackboard*
I Inf 308
Programming for Informatics (3)
This course offered online through the Blackboard Learning System. Computer programming in an Informatics environment. The fundamentals of programming, including introduction to algorithms, object-oriented design, and data structures. Additional topics include basic interface design, security, networking, use of data bases, and mobile and other non-traditional computing platforms. Prerequisite(s): I CSI 105 and I INF 100.
(2105) Kassab, Dima
4 Week 3: July 18-August 12
Online course in Blackboard

I Inf 467
Technology-Based Community Support (3)
Students work on-site with a non-profit to provide technology support. Possible projects could include website creation and development, computer lab support, or networking. At least 100 hours/semester are required. Students will also meet with a faculty supervisor throughout the semester and complete a final presentation of their work. May be repeated for credit up to a total of 6 credits with permission of department. Prerequisite(s): Informatics juniors and seniors only.
(2522) Goodall, Jennifer
6 Week 1: May 23-July 1
(2523) Goodall, Jennifer
12 Week 1: May 23-August 12

I Inf 468
Undergraduate Internship Informatics (3)
The internship has two components: (1) work experience in position related to students interests in computing and information. Interns are expected to spend 8 hours per week during the semester at their internship location; (2) academic seminar where students and faculty mentor meet together monthly to discuss their experiences and general career preparation topics. Assignments may include preparing a resume and cover letter, career development, assessing skills for and barriers to career development, and planning for graduate or professional school. Students are expected to research, identify and find their own possible internship opportunities. This activity will help students to identify their own career goals and manner in which they may best be achieved, and it will also help students to learn career preparation skills that will be useful after graduation. All internship opportunities must be reviewed and approved by appropriate faculty prior to course registration. May be repeated for up to 6 credits. Prerequisite(s): permission of instructor, junior or senior status and a minimum GPA of 2.50.
(2524) Goodall, Jennifer
6 Week 1: May 23-July 1
(2525) Goodall, Jennifer
12 Week 1: May 23-August 12