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.
(1428) Krough, Lindsey
6 Week 1: May 29-July 6
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.
(2086) Horowitz, Lenore
4 Week 1: May 29-June 22
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.
(2078) Zhao, Xiaoyi
6 Week 1: May 29-July 6
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.
(1427) Dumas, Catherine
6 Week 1: May 29-July 6
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-
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.

I Inf 302
Human-Computer Interactive Design (3)
This course offered online through the Blackboard Learning System. This course examines human factors, Human-Computer Interaction aspects of application domains, human-centered evaluation, developing effective interfaces, accessibility, emerging technologies, and human-centered computing. Students learn several techniques for rapid prototyping and evaluating multiple interface alternatives and principles of visual design. Information visualization, user-interface software architecture, and formal methods in HCI will be explored. Prerequisite(s): I INF 301.

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.

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.
I Inf 407
Modern Issues in Databases (3)
This course offered online through the Blackboard Learning System. This is an advanced undergraduate course to introduce the students to emerging topics in database systems. This course is especially designed for junior/senior students with emphasis on advanced concepts and algorithms in database systems, topics that are state-of-the-art research, or recent seminal contributions in the broad field of database and information systems. Prerequisite(s): I INF 202 and I CSI 131. Shared resource with I Inf 507 (2325).
(2283) Klemm, Josh
6 Week 3: July 9-August 17
Online course in Blackboard

I Inf 496
Intermediate Special Topics in Informatics: E-commerce & E-business (3)
This course offered online through the Blackboard Learning System. This course is an introduction to e-commerce and e-business, addressing the strategic aspects of conducting business online and the supportive technologies that make e-business work. The course reviews the technical infrastructure, business impact and market considerations surrounding the analysis and implementation of e-business. Students are exposed to a variety of resources, including relevant industry publications, demonstrations of existing e-businesses, and guest lectures from industry professionals. During the course you will: (1) Explore innovative business models that take advantage of the latest technologies; (2) Analyze how successful e-commerce leverage technology and business strategy to gain a competitive advantage in the market; (3) Study marketing concepts such as value proposition of online advertising, campaign setup and management, measurement and optimization; (4) Develop a business proposal for an original e-business; and (5) Receive a Google AdWords certification, a professional accreditation by Google that recognizes individuals as experts in online advertising. Prerequisite(s): junior or senior standing.
(2290) Dvir, Nim
6 Week 3: July 9-August 17
Online course in Blackboard

Graduate Courses

I Inf 507
Modern Issues in Databases (3)
This course offered online through the Blackboard Learning System. This graduate course introduces the students to the emerging topics in database systems. This course is especially designed for students with emphasis on advanced concepts and algorithms in database systems, topics that are state-of-the-art research, or recent seminal contributions in the broad field of database and information systems. Specific topics will vary. Prerequisite: Some database experience. Shared resource with I Inf 407 (2283).
(2325) Klemm, Josh
6 Week 3: July 9-August 17
Online course in Blackboard