E-COMMERCE TECHNOLOGY (ECT)

ECT 250 | INTERNET, COMMERCE, AND SOCIETY | 4 quarter hours (Undergraduate)
An introduction of Internet technology, its application for commerce, and its social impact. This course surveys Internet technology, collaboration and commerce activities, digital media distribution, online communities, and social networking in the Internet environment.

ECT 310 | INTERNET APPLICATION DEVELOPMENT | 4 quarter hours (Undergraduate)
Development of Internet-based applications using client and server-side scripting. Students will design and build an Internet application that accesses a database.

ECT 330 | ADVANCED INTERNET APPLICATION DEVELOPMENT | 4 quarter hours (Undergraduate)
This is a programming course focusing on advanced Internet technologies such as tiered design of Internet applications, transactions, creating components, and Web services.

ECT 335 | INTERNET SYSTEMS: COLLABORATION, COMMERCE, AND MEDIA | 4 quarter hours (Undergraduate)
This course examines the application of Internet technology to support collaboration, commerce, and digital media distribution activities. It will focus on the latest technologies, new development models and their social impact. Students will explore different models and develop applications to support collaborative commerce.

ECT 360 | INTRODUCTION TO XML | 4 quarter hours (Undergraduate)
An introduction to Extensible Markup Language (XML) and XML transformations. XML syntax, processing and validation. Namespaces. Transformations using XSLT and XPath. XML applications such as XHTML, RDF, SVG, XSL.

ECT 410 | DEVELOPMENT OF WEB-BASED BUSINESS APPLICATIONS | 4 quarter hours (Graduate)
Development of web-based business solutions using client-side and server-side technologies. Major topics include analysis and design of web projects for a business, web application design patterns, server-side programming, and access to databases. PREREQUISITE(S): CSC 401 or IT 411.

ECT 424 | ENTERPRISE INFRASTRUCTURE | 4 quarter hours (Graduate)
Introduction to modern infrastructure and the evolving technology environment. Major topics include: computer networks, Internet infrastructure, Web 2.0, Enterprise 2.0, social media and networking, software as a service, content management systems, cloud computing, and portal.

ECT 424 and SE 430 are prerequisites for this class.
ECT 565 | MOBILE ENTERPRISE | 4 quarter hours
(Graduate)
Mobile enterprise information systems are becoming increasingly complex and consist of existing systems with enabling middleware to achieve end-to-end enterprise mobile solutions. Mobile infrastructure performs content adaptation, data synchronization, bridging corporate and mobile messaging systems and support mobile information portals. The course will discuss web services oriented component architecture and system integration with Adaptive Application Architecture (AAA) with Wireless application gateway (WAG) and Multi-channel Access Gateways (MAG) supporting mobile and wireless access for heterogeneous devices. Such concepts as content distribution, connectivity and security, scalability and load balancing, device management will be discussed. Additional topics include Location-aware applications supporting mobile knowledge workers, business process for value contribution, and investment decisions on mobile technologies. Students will become familiar with mobile enterprise tool suites, mobile messaging delivery platforms, wireless Web portals. Students will be implementing mobile enterprise solution components. PREREQUISITE(S): ECT 455.
ECT 455 is a prerequisite for this class.

ECT 582 | SECURE ELECTRONIC COMMERCE | 4 quarter hours
(Graduate)
This course studies security requirements, threat modeling, and appropriate safeguards for e-commerce systems. Major topics include web application security, web service security, and web server security. PREREQUISITE(S): ECT 424 or CSC 435 or TDC 463.
ECT 424 OR CSC 435 OR NET 463 is a prerequisite for this class.

ECT 583 | ADVANCED SCRIPTING TECHNOLOGIES | 4 quarter hours
(Graduate)
This course focuses on applying advanced scripting technologies in the design and development of large Web applications. Major topics include tiered application design, transacted Web applications, components, and Web services.

ECT 401 or IS 411 or IT 411 is a prerequisite for this class.

ECT 586 | CUSTOMER RELATIONSHIP MANAGEMENT TECHNOLOGIES | 4 quarter hours
(Graduate)
An in-depth study of customer relationship management (CRM) technologies and applications. The special focus will be on the application of CRM technologies for managing the customer lifecycle across Internet and offline channels. Topics include customer identification, data integration, personalization technologies, web and email interaction techniques; sales force automation applications; call centers, field service and logistics applications; customer self-service and customer knowledge management technologies. Students will review and compare specific eCRM technologies and develop an Internet customer interaction system to support an eCRM strategy in group project.

ECT 587 | MOBILE COMMERCE TECHNOLOGY | 4 quarter hours
(Graduate)
This course examines leading wireless and mobile technologies for consumer and enterprise mobile commerce. This course discusses how mobile technologies have changed the business community with an emphasis on major mobile platforms. Major topics include analysis and design of business applications in a mobile environment, and wireless user interface design. Students will develop mobile applications using a prominent mobile technology.

ECT 589 | E-BUSINESS STRATEGIES | 4 quarter hours
(Graduate)
Designed for ECT majors and IS majors in ECT concentration, this course focuses on the deployment of Internet and enterprise technologies to support organization's e-business initiatives and collaborative commerce. Conducted in the format of seminar, case analysis, and dialogue with industry practitioners, this course requires students to actively participate in the study of models and approaches for e-business technology implementation and transformation. Topics include: the impact of Internet on industry structure and organizational transformation, enterprise application architecture, planning and implementation of technology and process to support an increasingly collaborative and integrated environment for e-commerce. Students have to complete an organization case study of e-business technology implementation to fulfill the requirement of this capstone course. This course should be taken at the conclusion of the ECT program.

ECT 596 | TOPICS IN E-COMMERCE TECHNOLOGY | 4 quarter hours
(Graduate)
Independent study form required. PREREQUISITE(S): Consent of instructor.

ECT 690 | RESEARCH SEMINAR | 1-4 quarter hours
(Graduate)
Readings and discussion on current research topics. Students may register for this course no more than twice. PREREQUISITE(S): Consent of the instructor. (variable credit)

ECT 696 | MASTER'S PROJECT | 4 quarter hours
(Graduate)
Four credit hours. Students may register for this course only after their advisor has approved a written proposal for their project. Independent study form required. (PREREQUISITE(S):Consent of advisor).

ECT 698 | MASTER'S THESIS | 2 quarter hours
(Graduate)
(2 credit hours) Students may register for this course only after their advisor has approved a written proposal for their thesis. Students must continue to register for this course every quarter after their first registration in it until they complete their project or thesis to the satisfaction of their advisor. They earn two hours of credit for each such registration but only four hours of credit will apply for degree credit. Independent study form required. PREREQUISITE(S): Consent of advisor. (2 quarter hours)