

INFORMATION TECHNOLOGY-ONLINE (ITX)

ITX 201: Learning and Technology**Credits:** 3**College:** School of Business**Schedule Type:** By Appointment - 2 students, On-Line**ITX 211: Intro to Information Systems**

This course introduces the student to the field of information systems (IS). Students will learn a holistic approach to both the hardware and software design of information systems and how they are utilized in the business world. Both a business and technical focus will be covered with concrete examples of current technologies and related managerial issues. Coverage is given to the latest information technologies, emerging trends and ethical practices using real-world examples, and company case studies showing information systems in action.

Credits: 3**College:** School of Business**Schedule Type:** By Appointment - 3 students, On-Line**ITX 221: Hardware & Operating Systems**

This course provides an introduction to computer hardware and operating systems. The course will cover a broad array of topics, familiarizing the student primarily with the personal computing environment, but also with that of enterprise technologies. Topics include desktop and laptop computer hardware; tablet and smart phones; peripherals such as printers and scanners; wearables; networking; and Windows, Linux, MacOS, iOS, and Android operating systems. Prerequisite: IT 211 Note: This course may provide you with the knowledge for the CompTIA A+ certification exam. While the course may provide you with the knowledge necessary to sit for the examination, the University cannot guarantee your eligibility either to take the exam or to become certified.

Credits: 3**College:** School of Business**Prerequisites:** IT 211 or ITX 211 or MISX 211 [Min Grade: D]**Schedule Type:** By Appointment - 1 student, On-Line**ITX 241: Software Development**

Entry level course in which students practice software development using elementary selection, looping, method, string, array, and object constructs implemented in a modern programming language.

Credits: 3**College:** School of Business**Prerequisites:** IT 211 or MISX 211 or ITX 211 [Min Grade: D]**Schedule Type:** By Appointment - 2 students, On-Line**ITX 315: Information Technology I****Credits:** 3**College:** School of Business**Schedule Type:** On-Line**ITX 317: Information Technology II****Credits:** 3**College:** School of Business**Schedule Type:** By Appointment - 2 students, On-Line**ITX 320: Database Management****Credits:** 3**College:** School of Business**Prerequisites:** MISX 211 or ITX 211 or IT 211 [Min Grade: D]**Schedule Type:** By Appointment - 2 students, On-Line**ITX 321: Systems Analysis & Design**

The final project brings all course topics together in a group project designed to address a real-world network scenario. The course relies on weekly discussions and scenario-based exercises requiring synthesis of knowledge the student has learned to that point in the course, analysis of the scenario, and design of an optimal solution.

Credits: 3**College:** School of Business**Prerequisites:** MISX 211 or ITX 211 or IT 211 [Min Grade: D]**Schedule Type:** By Appointment - 1 student, By Appointment - 2 students, On-Line**ITX 322: Network Management**

In this course, students learn basic concepts of network management. Topics include network devices and protocols, transport mediums, switching and routing, virtualization, security, troubleshooting, needs analysis, and a set of selected topics that changes based on current and future trends in the networking space. The course starts with the OSI model as a framework describing the layers of a network, and how these layers work in concert to enable the services a modern network must provide. The final project brings all course topics together in a group project designed to address a real-world network scenario. The course relies on weekly discussions and scenario-based exercises requiring synthesis of knowledge the student has learned to that point in the course, analysis of the scenario, and design of an optimal solution. Note: This course may provide you with the knowledge for the CompTIA Network+ certification exam. While the course may provide you with the knowledge necessary to sit for the examination, the University cannot guarantee your eligibility either to take the exam or to become certified.

Credits: 3**College:** School of Business**Prerequisites:** IT 211 or MISX 211 or ITX 211 [Min Grade: D]**Schedule Type:** By Appointment - 1 student, On-Line**ITX 323: Cloud Management**

This course introduces the concepts of cloud computing, and reviews how these technologies fit into the modern IT landscape. Specific topics include cloud architecture models: public, private, and hybrid, and the benefits and drawbacks of each. Software as a Service (SaaS), Infrastructure as a Service (IaaS), Platform as a Service (PaaS), and Desktop as a Service (DaaS) will be reviewed. Cloud security will be discussed, as will emerging cloud technologies currently nascent to the industry. Students will perform critical analysis and design of cloud services meeting client needs, as described by the instructor. Note: This course may provide you with knowledge for the CompTIA Cloud Essentials+ certification exam. While the course may provide you with the knowledge necessary to sit for the examination, the University cannot guarantee your eligibility either to take the exam or to become certified.

Credits: 3**College:** School of Business**Prerequisites:** (IT 211 or ITX 211) and (IT 221 or ITX 221) [Min Grade: D]**Schedule Type:** By Appointment - 1 student, By Appointment - 2 students, On-Line

ITX 324: Cybersecurity Management

This course provides an introduction to key concepts of cybersecurity including vulnerability assessment, virus and malware attacks, system and network intrusion and detection, system and network defense, firewalls, and VPNs. The course explores the evolving and dynamic nature of cybersecurity threats, and the changing ways in which these threats are mitigated. The final project will require student teams to prepare a response plan to a multi-vector cyber-attack, as well as detail the quantitative and qualitative costs and effects of the attack, as well as a set of corrective action plans (CAPs) that identify remediation treatments to attempt to prevent such attacks in the future. Note:

This course may provide you with the knowledge for the CompTIA Security certification exam. While the course may provide you with the knowledge necessary to sit for the examination, the University cannot guarantee your eligibility either to take the exam or to become certified.

Credits: 3

College: School of Business

Prerequisites: MISX 211 or ITX 211 or IT 211 [Min Grade: D]

Schedule Type: On-Line

ITX 325: IT Process & Service Mgmt

This course focuses on the essential process techniques for successfully designing, developing, deploying, and managing IT services. Students will become familiar with operations management processes, and the ITIL framework. Students will learn techniques for process and service design. The methods and tools learned from the course will be presented and used in the class projects.

Credits: 3

College: School of Business

Prerequisites: (IT 211 or MISX 211 or ITX 211) and (IT 221 or ITX 221) [Min Grade: D]

Schedule Type: By Appointment - 1 student, By Appointment - 2 students, On-Line

ITX 410: Needs Assessment

Credits: 3

College: School of Business

Schedule Type: By Appointment - 2 students, On-Line

ITX 498: Information Tech Capstone

The information technology capstone builds on the concepts of all information technology courses you have taken as a part of your degree plan. The capstone project integrates problem-solving techniques and the development of viable solutions to meet an identified technology need in a business or institutional environment. You will prepare a proposal that includes a project description, deliverables, completion dates, and associated learning.

Credits: 3

College: School of Business

Prerequisites: ITX 324 and (MISX 211 or ITX 211 or IT 211) [Min Grade: D]

Schedule Type: By Appointment - 1 student, On-Line

ITX 499: Project Management

Credits: 3

College: School of Business

Schedule Type: By Appointment - 2 students, On-Line