

Information Tech Sys (ITS)

Courses

ITS 0100 Computer Essentials: 4 semester hours.

This course provides students with the knowledge of computer hardware and software and advanced concepts such as security, networking, and the responsibilities of an IT professional. Students who complete this course will be able to explain the internal components of a computer, describe how to assemble a computer system and install an operating system. Students working through hands-on activities will gain skills in computer assembly, configuration, and maintenance. F, S

ITS 0110 Cisco Certified Network Associate I: 4 semester hours.

Introduction to the OSI reference model, network addressing, sub-netting, TCP/IP network-layer protocols, LAN media and topology, and networking devices. F, S

ITS 0120 Introduction to Linux: 3 semester hours.

Introduction to LINUX operating system and graphical user interfaces. Includes an overview of the Red Hat Linux distribution. Lecture/laboratory. F, S

ITS 0135 Windows Desktop Operating Systems: 3 semester hours.

Students will be introduced to the latest Microsoft Desktop Operating System used in the Information Technology industry. F, S

ITS 0150 Networking I: 4 semester hours.

Introduction to theory and troubleshooting methods for network systems to include IP routing protocols, EIGRP, OSPF, OSI model, VLANs, switching technologies, and safety procedures. PREREQ: ITS 0110. F, S

ITS 0165 Cybersecurity: 3 semester hours.

An introduction to Cybersecurity that explores the importance of cybersecurity, data confidentiality, best practices for using the internet and social media safely, and potential opportunities in this growing field. PREREQ: ITS 0110

ITS 0180 Network Operating Systems: 3 semester hours.

Study of multi-user, multi-tasking networking operating systems. Characteristics of current industry operating systems software. Topics include installation procedures, security issues, back up procedures and remote access. Lecture/Laboratory. PREREQ: ITS 0120 and ITS 0135. F, S

ITS 0205 Information Technology Internship: 7 semester hours.

Students will work in the information technology industry performing various tasks related to IT roles, putting their classroom learning into practical situations. PREREQ: ITS 0110. Su

ITS 0215 Networking II: 3 semester hours.

Advanced study of theory and troubleshooting methods for network systems to include IP routing protocols, advanced EIGRP concepts, OSPF multi-area, OSI model, switching technologies such as EtherChannel and HSRP, and safety procedures. PREREQ: ITS 0150. F, S

ITS 0218 PowerShell Scripting: 3 semester hours.

Introductory PowerShell scripting class that focuses on using PowerShell scripts to automate common system administration tasks. PREREQ: ITS 0180. F, S

ITS 0220 Networking III: 3 semester hours.

Wide Area Network technologies such as Point-to-Point Protocol, frame relay, and other emerging technologies. Lecture/Laboratory. PREREQ: ITS 0215. F, S

ITS 0230 Wireless Technologies: 3 semester hours.

Design, planning, implementation, operation and troubleshooting of wireless networks. Comprehensive overview of technologies, security, and design best practices with emphasis on hands-on skills. Lecture/Laboratory. PREREQ: ITS 0150. F, S

ITS 0240 Securing the LAN: 4 semester hours.

Design and implement security solutions for LANs that will reduce the risk of revenue loss and vulnerability, via hands-on and instructor-led experience and e-learning. Lecture/Laboratory. PREREQ: ITS 0215. F, S

ITS 0290 Internship: 1-8 semester hours.

On-the-job experience in the information technology field. PREREQ: Pertinent course preparation and permission of program coordinator. F, S, Su

ITS 0296 Independent Study: 1-8 semester hours.

Addresses specific learning needs of individuals for the enhancement of knowledge and skills within the program area under the guidance of an instructor. May be repeated. Graded S/U, or may be letter-graded. PREREQ: Permission of the instructor. D

ITS 0298 Special Topics: 1-8 semester hours.

Addresses the specific needs of industry, enabling students to upgrade technical skills that are not included in the current program curriculum. May be repeated. Graded S/U, or may be letter-graded. PREREQ: Permission of instructor. D

ITS 0299 Experimental Course: 1-6 semester hours.

The content of this course is not described in the catalog. Title and number of credits are -announced in the Class Schedule. Experimental courses may be offered no more than three times with the same title and content. May be repeated.