INFORMATION TECHNOLOGY - NETWORKING SOFTWARE (ITNT)

ITNT-2300 Networking Fundamentals
3 Credits
Survey course into the fundamental topics and concepts of networks and network technologies. Topics include introductory content on networking standards, models and protocols, networking hardware, transmission methods and media, LANs, WANs, Wireless, VOIP, security, and network management issues. Serves as a preparation basis for the CompTIA Network+ exam.
Lecture: 2 hours. Laboratory: 2 hours
Prerequisite(s): EET-1241 Digital Fundamentals, or concurrent enrollment; or IT-1025 Information Technology Concepts for Programmers, or concurrent enrollment; or departmental approval.
OAN Approved: CTAN Approved: Career Technical Assurance Guide CTIT002.

ITNT-2310 TCP/IP
3 Credits
Provides knowledge and skills required to setup, configure, use, and support Transmission Control Protocol/Internet Protocol (TCP/IP). Emphasis on Microsoft Windows operating system.
Lecture: 2 hours. Laboratory: 2 hours
Prerequisite(s): ITNT-2300 Networking Fundamentals or concurrent enrollment, or departmental approval: equivalent knowledge or skills.

ITNT-2320 Network Administration I
3 Credits
Introduction to knowledge and skills necessary to perform installation, configuration, and day-to-day administration tasks in a Microsoft Windows-based network. Includes how to install the server operating system, manage local and remote access, manage file and printer services, implement group policies, and manage server storage. How to install and configure Active Directory (AD), Domain Name System (DNS) server, Dynamic Host Configuration Protocol (DHCP), and networking services are also covered.
Lecture: 2 hours. Laboratory: 2 hours
Prerequisite(s): ITNT-2300 Networking Fundamentals or concurrent enrollment, or departmental approval: equivalent knowledge or skills.

ITNT-2370 Network Security Fundamentals
3 Credits
A survey examination of network security fundamentals involved in creating and managing secure computer network environments. Both hardware and software topics are considered, including authentication methods, remote access, network security architectures and devices, cryptography, forensics, and disaster recovery plans. Serves as preparation basis for CompTIA Security+ exam.
Lecture: 2 hours. Laboratory: 2 hours

ITNT-2380 Linux Administration
3 Credits
Linux is used as a platform for many server applications including the dominant Web server. Cost and licensing advantages have made it a network operating system that is in widespread use. The essentials of installing, configuring, maintaining, administering, and troubleshooting the Linux Operating System will be covered.
Lecture: 2 hours. Laboratory: 2 hours
Prerequisite(s): ITNT-2300 Network Fundamentals or concurrent enrollment; or departmental approval: equivalent skills.

ITNT-2420 Network Administration II
3 Credits
Focus on designing, implementing, and supporting Windows Server network operating system in multiple-domain enterprise environment. Implementing directory services, analysis and optimization, and troubleshooting discussed.
Lecture: 2 hours. Laboratory: 2 hours
Prerequisite(s): ITNT-2320 Network Administration I, or departmental approval: equivalent knowledge or skills.

ITNT-2814 Special Topics: AWS Cloud Foundations
3 Credits
This course will provide students with a foundational knowledge in AWS Cloud Foundations. It's intended for students who seek an overall understanding of cloud computing concepts, independent of specific technical roles. It provides a detailed overview of cloud concepts, AWS core services, security, architecture, pricing, and support. This course also covers all objectives necessary to pass the AWS Cloud Practitioner certification.
Lecture: 2 hours. Laboratory: 2 hours
Prerequisite(s): ITNT-2300 Networking Fundamentals or concurrent enrollment, or departmental approval: equivalent knowledge or skills.

ITNT-2815 Cloud Computing Fundamentals
3 Credits
A vendor neutral course that introduces the student to cloud computing terms, definitions, techniques, benefits and risks, service providers, and system integration. This course serves as a preparatory tool for the CompTIA Cloud Essentials + certification exam.
Lecture: 2 hours. Laboratory: 2 hours
Prerequisite(s): ITNT-2300 Networking Fundamentals or concurrent enrollment, or departmental approval: equivalent knowledge or skills.

ITNT-2816 Special Topics: Cloud and Azure Fundamentals
3 Credits
From Principles of Cloud Fundamentals, you learned the role of Cloud Fundamentals in the digital organization of the modern era. How can you apply this knowledge and build a Cloud and Azure Fundamentals? In this course, you will contextualize and apply the principles through the services offered by Amazon Web Services (AWS) and Azure and learn how to architect a firm using AWS and Azure.
Lecture: 2 hours. Laboratory: 2 hours
Prerequisite(s): ITNT-2814 AWS Cloud Foundations, or concurrent enrollment, or departmental approval: equivalent knowledge or skills.
ITNT-2819 Special Topics: Azure Certifications AZ-900/AI900
3 Credits
This course is designed to help students prepare for the Azure Certifications AZ-900/AI900. Even if you don't plan to take the exam, hands-on labs will help you gain a solid understanding of Azure’s AZ/AI services. Including, general cloud concepts, and Microsoft Azure, starting with Azure architecture and services. Finally, cover Azure management and governance.

Lecture: 2 hours. Laboratory: 2 hours
Prerequisite(s): ITNT-2300 Network Fundamentals, ITNT-2320 Network Administration I, and ITNT-2816 Cloud and Azure Fundamentals, or departmental approval: equivalent knowledge or skills.

ITNT-2820 Advanced Independent Study/Research in Networking Software
1-3 Credits
Directed individual advanced study. Study/research title and specific content arranged between instructor and student (see Credit Schedule of classes for current offerings). May be repeated for a maximum of six credits of different topics.

Lecture: 1-3 hours
Prerequisite(s): Departmental approval, and instructor approval, and ENG-0995 Applied College Literacies, or appropriate score on English Placement Test or appropriate score on English Placement Test. Note: ENG-0990 Language Fundamentals II taken prior to Fall 2021 will also meet prerequisite requirements.

ITNT-2990 Networking Capstone
3 Credits
Capstone course for Networking Hardware and Software degree programs. Focus is on career preparation, importance of soft skills, ethical considerations, and industry-recognized information technology certifications.

Lecture: 3 hours
Prerequisite(s): To be taken within the last 15 credits of the IT (Networking Software) or the EET (Networking Hardware) degree programs, or departmental approval.