

Information Systems Technology B.A.S.

Networking Track

General Education Hours Required: 36.0

ITE AS Core Hours Required: 45.00

Prof Core Req Hours Required: 39.0

Common Core Hours Required: 24.0

CET4505	<p>Computer Operating Systems This course is a study of the fundamental concepts, structures and organizations of operating systems. It includes the study of processes, threads, multi-tasking, concurrency and deadlocks, memory management and file management along with virtualization.</p>
CIS4891	<p>Senior Capstone Project Students will develop a comprehensive Information Technology Project working in a team environment. The process of this project will expose them to the challenges of real world team based technology development including analysis, design, development, testing, and implementation.</p>
CNT3502	<p>Computer Networks and Distributed Processing Students will study architectures, protocols, and layers in distributed communication networks, and develop client-server applications. Topics include the OSI and TCP/IP models, transmission fundamentals, flow and error control, switching and routing, local and wide-area networks, wireless networks, and client-server models</p>
CTS4408	<p>Database Administration This course introduces students to the methods and tools utilized in the administration of industry standard database management systems. Students will be exposed to topics such as client-server architecture, planning and installation, server configuration, user management and performance optimization. Students will gain knowledge of practical database administration tasks such as backup and restoration, security configuration, and replication management.</p>
CIS3303	<p>Object Oriented Analysis and Design The Unified Modeling Language (UML) is a world-class visual language for analysis and design of object-oriented systems. This</p>

	course examines the various graphical tools and their applications in the context of extended case studies.
ISM4323	<p>Information Security Policy Administration</p> <p>Information Security Policy Administration examines the managerial aspects of information security policy and risk mitigation. Policy development includes security management planning, risk management, disaster recovery, data security, virus management, and personnel issues. Risk mitigation includes the ability to analyze risk, evaluate costs, and determine appropriate action.</p>
ISM4480	<p>Principles of Electronic Commerce</p> <p>This course is designed to familiarize students with management approaches to effectively define and implement e-commerce systems. The course addresses the digital economy, e-commerce strategy, marketing, e-commerce models, and management and regulatory issues.</p>
MAN3025	<p>Principles of Management and Supervision</p> <p>This course focuses on the foundations of management, including terminology, basic concepts, and different theories of management. The course also encompasses reflective readings and analyses for students to identify their particular strengths and weaknesses as managers and addresses real-world situations, asking for their responses to the same. Behavioral, decision-making, and communication styles are examined. The course includes extensive writing, wherein students demonstrate management principles in the design of their own academic and career plans. Professional writing standards are enforced; students deficient in writing ability are encouraged to take a writing course before enrolling in this course.</p>
Networking Track Hours required: 15.0	
ISM3220	<p>Network Management for Information Professionals</p> <p>This course provides the student with an understanding of the management of various networking technologies as they relate to managing the business environment. Students will learn the design and management issues involved in data communications, communication protocols, reporting, and human interactions with networks.</p>

CNT4515	<p>Wireless Networks and Portable Devices</p> <p>This course will examine the area of wireless networking and mobile computing, looking at the unique network protocol challenges and opportunities presented by wireless communications and host or router mobility. The course will give a brief overview of fundamental concepts in mobile wireless systems and mobile computing, it will then cover system and standards issues including wireless LANs, mobile IP, ad-hoc networks, sensor networks, as well as issues associated with small handheld portable devices and new applications that can exploit mobility and location information.</p>
COP3337	<p>Intermediate Programming (C++)</p> <p>This is an intermediate level course in object-oriented programming. Topics include primitive types, control structures, string arrays, objects and classes, data abstraction, inheritance, polymorphism, and an introduction to data structures.</p>
CEN4083	<p>Advanced Concepts in Virtualization</p> <p>This course provides a comprehensive overview of the cloud infrastructure and services, as well as their underlying management mechanisms, including data center virtualization and networking, cloud security and reliability, big data analytics, scientific and commercial applications.</p>
CNT4524	<p>Mobile Security</p> <p>Mobile devices today have outnumbered computers worldwide. Since mobile devices, such as smart phones and tablets, provide convenient anytime, anywhere access to the Internet and the ability to make phone calls, run apps centered around our lives, they have become enticing targets for cyber criminals. This course is designed to address this growing threat to mobile devices, networks and services delivered over the mobile infrastructure.</p>