

INFORMATION TECHNOLOGY (IT)

IT 11000 INTRODUCTION TO OFFICE PRODUCTIVITY APPS 3 Credit Hours

(Equivalent to CIS 24053) Covers the basic concepts and use of computer systems, including hardware, personal productivity software, Internet usage and file management.

Prerequisite: None.

Schedule Type: Lecture

Contact Hours: 3 lecture

Grade Mode: Standard Letter

Attributes: TAG Business

IT 11002 VISUAL BASIC PROGRAMMING 3 Credit Hours

Visual Basic.NET language introducing concepts of object-oriented, event-driven program design and implementation. .

Prerequisite: IT None.

Schedule Type: Lecture

Contact Hours: 3 lecture

Grade Mode: Standard Letter

IT 11004 SURVEY OF INFORMATION TECHNOLOGY 3 Credit Hours

Overview introduction to information technologies, career paths and professional certifications available.

Prerequisite: None.

Schedule Type: Lecture

Contact Hours: 3 lecture

Grade Mode: Standard Letter

IT 11005 INTRODUCTION TO OPERATING SYSTEMS AND NETWORKING TECHNOLOGY 3 Credit Hours

Survey of desktop and network operating systems essentials, including file and disk management, system tools utilization, resource sharing and introductory network concepts.

Prerequisite: None.

Schedule Type: Lecture

Contact Hours: 3 lecture

Grade Mode: Standard Letter

IT 11006 INTRODUCTION TO WEB SITE TECHNOLOGY 3 Credit Hours

Focuses on website technologies, including HTML. Students learn the history of the Internet and effective search techniques.

Prerequisite: None.

Schedule Type: Lecture

Contact Hours: 3 lecture

Grade Mode: Standard Letter

IT 11009 COMPUTER ASSEMBLY AND CONFIGURATION 4 Credit Hours

Covers disk operating system functions and features; hardware/software installation procedures; file and directories management; system configuration/optimization; backup procedures.

Prerequisite: CS 33211 or EMAT 26010 or IT 11005 or ENGR 10001.

Schedule Type: Lecture

Contact Hours: 4 lecture

Grade Mode: Standard Letter

IT 12000 INTERMEDIATE OFFICE PRODUCTIVITY APPS 3 Credit Hours

Covers intermediate concepts and integration of computer applications. Emphasis on software suites, specifically word processing, electronic spreadsheets, database and presentation applications.

Prerequisite: None.

Schedule Type: Lecture

Contact Hours: 3 lecture

Grade Mode: Standard Letter

IT 13000 APPLIED SECURITY ESSENTIALS 3 Credit Hours

Course covering a basic introduction to securing connected devices.

Topics include computer security, Internet security, and mobile security.

Prerequisite: None.

Schedule Type: Lecture

Contact Hours: 3 lecture

Grade Mode: Standard Letter

IT 20001 C++ PROGRAMMING 3 Credit Hours

Course using C++ introducing concepts of software development, object-oriented event-driven programming, testing and debugging, simple and complex data types language syntax and semantics.

Prerequisite: None.

Schedule Type: Lecture

Contact Hours: 3 lecture

Grade Mode: Standard Letter

IT 20011 JAVA PROGRAMMING 3 Credit Hours

Course using Java introducing concepts of software development, object-oriented event-driven programming, testing and debugging, simple and complex data types, language syntax and semantics.

Prerequisite: None.

Schedule Type: Lecture

Contact Hours: 3 lecture

Grade Mode: Standard Letter

IT 20021 C# PROGRAMMING 3 Credit Hours

Introductory concepts of C#: development environment, variables, decisions, looping, arrays, strings, methods, exception and event handling.

Prerequisite: None.

Schedule Type: Lecture

Contact Hours: 3 lecture

Grade Mode: Standard Letter

IT 21002 NETWORK SETUP AND CONFIGURATION 4 Credit Hours

Introduces networking in local area network (LAN) and wide area network (WAN) environments. Topics include network protocol, configuration, operation, setup, installation, administration, management and security.

Pre/corequisite: IT 11009.

Schedule Type: Lecture

Contact Hours: 4 lecture

Grade Mode: Standard Letter

IT 21005 VISUAL BASIC DATABASE PROGRAMMING 4 Credit Hours

Advanced course in the visual basic language focusing on database systems development.

Prerequisite: CS 13001 or EMAT 15310 or IT 11002 or CIS 24065.

Schedule Type: Lecture

Contact Hours: 4 lecture

Grade Mode: Standard Letter

IT 21007 CYBER ETHICS IN INFORMATION TECHNOLOGY 3 Credit Hours

Covers the ethics, issues and policies regarding the Internet. Course includes discussion/research on intellectual property/freedom, hacking, pornography, privacy.

Prerequisite: None.

Schedule Type: Lecture

Contact Hours: 3 lecture

Grade Mode: Standard Letter

IT 21008 COMPUTER METHODS IN SCIENCE AND ENGINEERING 3 Credit Hours

Use of computers in problems related to science and engineering. Course includes introduction to elements of a high-level scientific language.

Prerequisite: None.

Schedule Type: Lecture

Contact Hours: 3 lecture

Grade Mode: Standard Letter

IT 21009 SEMINAR IN INFORMATION TECHNOLOGY 3 Credit Hours

Capstone course encompassing critical reading, writing and discussion applying the current theories of computer technologies to on-the-job experiences. Students develop a portfolio to confirm their level of knowledge.

Prerequisite: IT 11005 and IT 11006 and IT 11009 and IT 21002 and IT 21010.

Schedule Type: Seminar

Contact Hours: 3 other

Grade Mode: Standard Letter

IT 21010 WORKGROUP PRODUCTIVITY SOFTWARE 3 Credit Hours

Research project-oriented course emphasizing workgroup methodologies for group project management, problem definition, data retrieval and analysis, conclusions and recommendations.

Prerequisite: IT 12000; or OTEC 16639 and OTEC 26611.

Schedule Type: Lecture

Contact Hours: 3 lecture

Grade Mode: Standard Letter

IT 21011 TECHNIQUES OF MULTIMEDIA WEB DESIGN 3 Credit Hours

Focuses on developing and managing effective web sites using multimedia elements, including sound and video.

Prerequisite: IT 11006 or EMAT 13210.

Schedule Type: Lecture

Contact Hours: 3 lecture

Grade Mode: Standard Letter

IT 21036 WEB SCRIPTING I 3 Credit Hours

Course focuses on client-side scripting needed to create interactive and dynamic websites. The use of scripting in context with various technologies is explored.

Prerequisite: CS 13001 and CS 27101; or EMAT 15310; or IT 11002 and IT 11006; or CIS 24065; or ENGR 26301.

Schedule Type: Lecture

Contact Hours: 3 lecture

Grade Mode: Standard Letter

IT 21092 COMPUTER PRACTICUM (ELR) 1-3 Credit Hours

(Repeatable for credit) Supervised work experience in information technology environment; 45 hours supervised work experience per credit hour.

Prerequisite: Sophomore standing.

Schedule Type: Practical Experience

Contact Hours: 3-9 other

Grade Mode: Standard Letter

Attributes: Experiential Learning Requirement

IT 21095 SPECIAL TOPICS IN INFORMATION TECHNOLOGY 1-4 Credit Hours

(Repeatable for credit) Topics announced when scheduled.

Prerequisite: Special approval.

Schedule Type: Lecture

Contact Hours: 1-4 lecture

Grade Mode: Standard Letter

IT 21096 INDIVIDUAL INVESTIGATION IN INFORMATION TECHNOLOGY 1-4 Credit Hours

(Repeatable for credit) Individual study in computer field.

Prerequisite: Special approval.

Schedule Type: Individual Investigation

Contact Hours: 7-28 other

Grade Mode: Standard Letter

IT 21100 LOCAL AREA NETWORK TROUBLESHOOTING 3 Credit Hours

Covers local area network troubleshooting techniques. Topics include identifying the scope of the problem, systematic troubleshooting approaches, problem resolution and ongoing maintenance.

Prerequisite: CS 33211 or EMAT 26010 or IT 21002 or; ENGR 23010 and ENGR 26301.

Schedule Type: Lecture

Contact Hours: 3 lecture

Grade Mode: Standard Letter

IT 21110 INTRODUCTION TO ROUTING AND SWITCHING 3 Credit Hours

Introduces internet-working concepts. Topics include networking standards, cabling, Transmission Control Protocol/Internet Protocol (TCP/IP), router configuration, local area network (LAN) and wide area network (WAN) segments and other related topics.

Prerequisite: CS 33211 or EMAT 26010 or IT 21002; or ENGR 23010 and ENGR 26301.

Schedule Type: Lecture

Contact Hours: 3 lecture

Grade Mode: Standard Letter

IT 21200 ETHICAL HACKING 3 Credit Hours

Tools and techniques ethical hackers and security testers use to discover vulnerabilities and solutions to protect computer networks.

Prerequisite: CS 33211 or EMAT 26010 or IT 21002; or ENGR 23010 and ENGR 26301.

Schedule Type: Lecture

Contact Hours: 3 lecture

Grade Mode: Standard Letter

IT 21300 INTRODUCTION TO SECURITY INCIDENT MANAGEMENT 3 Credit Hours

Course covering an introduction to defending against cyber attackers.

Prerequisite: Sophomore standing.

Schedule Type: Lecture

Contact Hours: 3 lecture

Grade Mode: Standard Letter

IT 22000 SURVEY OF INFORMATION TECHNOLOGY CYBERSECURITY 3 Credit Hours

Course introduces students to cybersecurity in information technology. Topics include authentication, encryption, enterprise computing, the role of users in security, data management and end-to-end security in networking.

Prerequisite: CS 33211 or EMAT 26010 or IT 21002; or ENGR 23010 and ENGR 26301.

Schedule Type: Lecture

Contact Hours: 3 lecture

Grade Mode: Standard Letter

IT 23000 INTRODUCTION TO OPERATING SYSTEM SECURITY 3 Credit Hours

Course introducing operating system security configurations, considerations, and best practices.

Prerequisite: CS 33211 or EMAT 26010 or IT 21002; or ENGR 23010 and ENGR 26301.

Schedule Type: Lecture

Contact Hours: 3 lecture

Grade Mode: Standard Letter

IT 24000 DEVELOPING AND IMPLEMENTING SECURITY POLICIES 3 Credit Hours

This course covers governance, legal considerations, and regulations related to information security policy development and implementation.

Prerequisite: CS 33211 or EMAT 26010 or IT 21002; or ENGR 23010 and ENGR 26301.

Schedule Type: Lecture

Contact Hours: 3 lecture

Grade Mode: Standard Letter

IT 31002 HEALTH INFORMATION TECHNOLOGY SUPPORT 3 Credit Hours

Course covers skills and knowledge required to implement and support healthcare IT (HIT) systems including regulatory and compliance issues; organizational behavior, IT and medical business operations; best practices and security.

Prerequisite: Junior standing.

Schedule Type: Lecture

Contact Hours: 3 lecture

Grade Mode: Standard Letter

IT 32002 LINUX NETWORKING 4 Credit Hours

Course covering network administration topics with the Linux operating system. Topics include distributions, storage solutions, network services and current security practices.

Prerequisite: CS 33211 or EMAT 26010 or IT 21002; or ENGR 23010 and ENGR 26301.

Schedule Type: Lecture

Contact Hours: 4 lecture

Grade Mode: Standard Letter

IT 36095 SPECIAL TOPICS IN INFORMATION TECHNOLOGY 1-3 Credit Hours

(Repeatable for credit) Special topics from all areas of information technology.

Prerequisite: None.

Schedule Type: Lecture

Contact Hours: 1-3 lecture

Grade Mode: Standard Letter

IT 36301 ADVANCED C++ PROGRAMMING 4 Credit Hours

Course using C++ classes and data abstraction, stream IO, inheritance, standard template library, Microsoft Foundation Classes, system programming concepts using Unified Modeling Language.

Prerequisite: IT 20001.

Schedule Type: Lecture

Contact Hours: 4 lecture

Grade Mode: Standard Letter

IT 36302 ADVANCED C# PROGRAMMING 3 Credit Hours

Advanced concepts of C# including classes and objects, inheritance, polymorphism, arrays, exception handling, files and streams and Extensible Application Markup Language (XAML).

Prerequisite: IT 20021.

Schedule Type: Lecture

Contact Hours: 3 lecture

Grade Mode: Standard Letter

IT 36303 DIGITAL IMAGE MANIPULATION 3 Credit Hours

Course covers various concepts involved in the creation and manipulation of digital images.

Prerequisite: IT 11006 or EMAT 13210.

Schedule Type: Lecture

Contact Hours: 3 lecture

Grade Mode: Standard Letter

IT 36308 ERGONOMICS IN COMPUTER SYSTEMS 3 Credit Hours

Introduction to ergonomics, usability design and assessment methods for the development of computer hardware, software and systems.

Prerequisite: Junior standing.

Schedule Type: Lecture

Contact Hours: 3 lecture

Grade Mode: Standard Letter

IT 36309 PROGRAMMING MOBILE APPLICATIONS 3 Credit Hours

Introduces the unique program design considerations required by mobile devices. The course focuses on creating programs that can be deployed on different devices.

Prerequisite: CS 13001 or EMAT 15310 or IT 11002 or IT 20001 or IT 20011 or IT 20021 or CIS 24065.

Schedule Type: Lecture

Contact Hours: 3 lecture

Grade Mode: Standard Letter

IT 36310 MULTIMEDIA DEVELOPMENT TOOLS 3 Credit Hours

Course focuses on advanced technologies for Web development, including DHTML, plug-ins, etc. Students learn to create more interactive and dynamic websites.

Prerequisite: IT 21011 or EMAT 13210.

Schedule Type: Lecture

Contact Hours: 3 lecture

Grade Mode: Standard Letter

IT 36311 ADVANCED JAVA PROGRAMMING 4 Credit Hours

Course using Java abstract data types and objects, object-oriented, event-driven design, file organization and access, and systems programming concepts.

Prerequisite: IT 20011.

Schedule Type: Lecture

Contact Hours: 4 lecture

Grade Mode: Standard Letter

IT 36314 SEMINAR IN EMERGING COMPUTER AND INFORMATION TECHNOLOGIES 3 Credit Hours

Survey of new and emerging technologies in computer and information technology.

Prerequisite: Junior standing.

Schedule Type: Lecture

Contact Hours: 3 lecture

Grade Mode: Standard Letter

IT 36315 CERTIFICATION PREPARATION IN INFORMATION TECHNOLOGY 3 Credit Hours

(Repeatable for a maximum of 6 credit hours) Certification preparation course to help students prepare for professional certification attempts in information technology. Certification is not guaranteed and certification fees may apply.

Prerequisite: Special approval.

Schedule Type: Lecture

Contact Hours: 3 lecture

Grade Mode: Standard Letter

IT 36318 SURVEY OF INFORMATION SECURITY, INTERNET FRAUD AND COMPUTER FORENSICS (WIC) 3 Credit Hours

Course provides a non-technical introduction to contemporary issues in information security, Internet fraud and computer forensics.

Prerequisite: ENG 21011 or HONR 10297; and junior standing.

Schedule Type: Lecture

Contact Hours: 3 lecture

Grade Mode: Standard Letter

Attributes: Writing Intensive Course

IT 36320 COMPUTER FORENSICS 3 Credit Hours

Hands-on skills in incident response, forensic preparation and data recovery and analysis.

Prerequisite: CS 33211 or EMAT 26010 or IT 21002; or ENGR 23010 and ENGR 26301.

Schedule Type: Lecture

Contact Hours: 3 lecture

Grade Mode: Standard Letter

IT 36321 NETWORK FORENSICS 3 Credit Hours

Emphasizing hands-on skills in live incident response, the proper use of network forensic tools, network monitoring, live data capture, evidence analysis, data integrity and other related topics.

Prerequisite: CS 33211 or EMAT 26010 or IT 21002; or ENGR 23010 and ENGR 26301.

Schedule Type: Lecture

Contact Hours: 3 lecture

Grade Mode: Standard Letter

IT 36322 SOCIAL MEDIA AND MOBILE DEVICE FORENSICS 3 Credit Hours

Course covers data collection and analysis techniques for social media and mobile devices.

Prerequisite: Junior standing.

Schedule Type: Lecture

Contact Hours: 3 lecture

Grade Mode: Standard Letter

IT 36330 LOCAL AREA NETWORK SECURITY FUNDAMENTALS 3 Credit Hours

Examines the primary issues involved in securing resources in a local area network (LAN), including threat assessment, countermeasures, best practices, security protocols, cryptography and management-related issues.

Prerequisite: CS 33211 or EMAT 26010 or IT 21002; or ENGR 23010 and ENGR 26301.

Schedule Type: Lecture

Contact Hours: 3 lecture

Grade Mode: Standard Letter

IT 36331 ADVANCED ROUTING AND SWITCHING 3 Credit Hours

Reinforcing Internetworking concepts. Topics include network standards, LAN switching, VLANs, network designs, routing protocols and configuration, LAN and WAN segments, and other related topics.

Prerequisite: IT 21110.

Schedule Type: Lecture

Contact Hours: 3 lecture

Grade Mode: Standard Letter

IT 36336 WEB SCRIPTING II 3 Credit Hours

Focuses on server-side scripting needed to create interactive and dynamic websites.

Prerequisite: IT 21036.

Schedule Type: Lecture

Contact Hours: 3 lecture

Grade Mode: Standard Letter

IT 36340 HELP DESK SUPPORT 3 Credit Hours

Examination of help desks that exist, importance within organizations, the roles and skills required, and methods and technologies commonly employed.

Prerequisite: IT 11009 or ENGR 23010.

Schedule Type: Lecture

Contact Hours: 3 lecture

Grade Mode: Standard Letter

IT 36350 PROGRAMMING OFFICE PRODUCTIVITY APPLICATIONS 3 Credit Hours

Introduces the use of Visual Basic for Applications (VBA) as a tool to create customized programs that automate repetitive and/or complex tasks performed using office suite applications.

Prerequisite: IT 11002 and IT 21010.

Schedule Type: Lecture

Contact Hours: 3 lecture

Grade Mode: Standard Letter

IT 36355 COMMAND LINE UTILITIES 3 Credit Hours

Course prepares students to perform effectively in Windows, Linux and various server command line environments. Topics include command syntax, batch files, script files and internal and external commands.

Prerequisite: CS 33211 or EMAT 15310 or EMAT 26010 or IT 21002; or ENGR 23010 and ENGR 26301.

Schedule Type: Lecture

Contact Hours: 3 lecture

Grade Mode: Standard Letter

IT 36392 INTERNSHIP FOR INFORMATION TECHNOLOGY STUDENTS (ELR) 1-3 Credit Hours

(Repeatable for a maximum of 6 credit hours) An arranged work experience for students in the information technology field. Students complete 45 hours of internship per credit.

Prerequisite: Junior standing.

Schedule Type: Practical Experience

Contact Hours: 3-9 other

Grade Mode: Standard Letter

Attributes: Experiential Learning Requirement

IT 40000 CYBERSECURITY 3 Credit Hours

Builds on a background in networking and focuses on cybersecurity best practices, standard models and regulatory requirements.

Prerequisite: CS 33211 or EMAT 26010 or IT 21002; or ENGR 23010 and ENGR 26301.

Schedule Type: Lecture

Contact Hours: 3 lecture

Grade Mode: Standard Letter

IT 41002 CLOUD TECHNOLOGY 3 Credit Hours

Concepts of cloud computing, including storage; services; technology; and management.

Prerequisite: CS 33211 or EMAT 26010 or IT 21002; or ENGR 23010 and ENGR 26301.

Schedule Type: Lecture

Contact Hours: 3 lecture

Grade Mode: Standard Letter

IT 41010 MOBILE APPLICATIONS FOR INFORMATION TECHNOLOGY 3 Credit Hours

Course covers enterprise mobility technical concepts, strategies, and solutions across various domains and industries. Includes topics such as organizational issues, IT and business operations; and best practices and security.

Prerequisite: Junior standing.

Schedule Type: Lecture

Contact Hours: 3 lecture

Grade Mode: Standard Letter

IT 42000 SOCIAL MEDIA SECURITY 3 Credit Hours

Personal and corporate social media presence, security risks, intellectual property and ethical issues.

Prerequisite: Junior standing.

Schedule Type: Lecture

Contact Hours: 3 lecture

Grade Mode: Standard Letter

IT 42002 WIRELESS AND MOBILE DEVICE SECURITY 3 Credit Hours

Course covers wireless and mobile device security. Topics include risk assessments, threats, vulnerabilities and current security practices.

Prerequisite: CS 33211 or EMAT 26010 or IT 21002; or ENGR 23010 and ENGR 26301.

Schedule Type: Lecture

Contact Hours: 3 lecture

Grade Mode: Standard Letter

IT 43000 HEALTHCARE INFORMATION SYSTEMS 3 Credit Hours

Course focuses on the roles and responsibilities of the health information technology professional including the technology, legal and ethical responsibilities and complex systems and environment.

Prerequisite: Junior standing.

Schedule Type: Lecture

Contact Hours: 3 lecture

Grade Mode: Standard Letter

IT 46300 ADVANCED COMPUTER ASSEMBLY AND CONFIGURATION 3 Credit Hours

Focus is on advanced system components, streamlined operating system installation procedures, and current technology in local area network (LAN) connectivity.

Prerequisite: IT 11009; and junior standing.

Schedule Type: Lecture

Contact Hours: 3 lecture

Grade Mode: Standard Letter

IT 46303 DIGITAL VIDEO EDITING 3 Credit Hours

Utilizes digital imaging technologies to produce videos. Includes timelines; filming, importing/exporting video; audio; effects, transitions and captions.

Prerequisite: IT 36303.

Schedule Type: Lecture

Contact Hours: 3 lecture

Grade Mode: Standard Letter

IT 46308 ADVANCED VISUAL BASIC PROGRAMMING 3 Credit Hours

Advanced concepts of visual basic, including classes and objects, inheritance, polymorphism, arrays, exception handling, files and streams and dynamic-link library (DLL).

Prerequisite: CS 13001 or EMAT 15310 or IT 11002 or CIS 24065.

Schedule Type: Lecture

Contact Hours: 3 lecture

Grade Mode: Standard Letter

IT 46309 ASP.NET WEB PROGRAMMING 3 Credit Hours

Using Visual Studio and the ASP.NET platform to develop secure, data-aware web applications. Topics covered include HTML and CSS, testing and debugging, master pages, state management, security and authentication, SQL and object data sources.

Prerequisite: IT 11002 or IT 20021 or CS 13001 or EMAT 15310 or CIS 24065.

Schedule Type: Lecture

Contact Hours: 3 lecture

Grade Mode: Standard Letter

IT 46310 TECHNOLOGY OF OPERATING SYSTEMS 3 Credit Hours

Course covers installation, configuration, tuning and communication among state-of-the-art desktop operating systems, using available system tools, utilities and files.

Prerequisite: CS 33211 or EMAT 26010 or IT 21002; or ENGR 23010 and ENGR 26301.

Schedule Type: Lecture

Contact Hours: 3 lecture

Grade Mode: Standard Letter

IT 46311 TECHNOLOGY OF NETWORKING 3 Credit Hours

Advanced topics of enterprise network management, including DNS, IP addressing, routing basics, subnet masking, firewalls, storage redundancy techniques, and general tuning, optimizing, troubleshooting, recovery strategies.

Prerequisite: CS 33211 or EMAT 26010 or IT 21002; or ENGR 23010 and ENGR 26301.

Schedule Type: Lecture

Contact Hours: 3 lecture

Grade Mode: Standard Letter

IT 46312 SCRIPTING FOR NETWORK ADMINISTRATORS 3 Credit Hours

Covers scripting technologies to configure and manage resources and services of local area network (LAN) servers and workstations.

Prerequisite: IT 21002 and IT 21036.

Schedule Type: Lecture

Contact Hours: 3 lecture

Grade Mode: Standard Letter

IT 46313 VIRTUAL MACHINE CONFIGURATION AND ADMINISTRATION 3 Credit Hours

Focus on configuring and administering virtual machine software.

Prerequisite: CS 33211 or EMAT 26010 or IT 21002; or ENGR 23010 and ENGR 26301.

Schedule Type: Lecture

Contact Hours: 3 lecture

Grade Mode: Standard Letter

IT 46314 ADVANCED SERVER CONFIGURATION 3 Credit Hours

Course focus is on the core service roles provided by application services, including configuration, maintenance and security.

Prerequisite: CS 33211 or EMAT 26010 or IT 21002; or ENGR 23010 and ENGR 26301.

Schedule Type: Lecture

Contact Hours: 3 lecture

Grade Mode: Standard Letter

IT 46315 SQL WITH ORACLE 3 Credit Hours

Focus is on Structured Query Language. (SQL) and relational databases using Oracle, a comprehensive and fully integrated stack of cloud applications and platform services.

Prerequisite: CS 13001 or EMAT 15310 or IT 21005 or CIS 24065.

Schedule Type: Lecture

Contact Hours: 3 lecture

Grade Mode: Standard Letter

IT 46320 CLOUD FORENSICS 3 Credit Hours

Concepts of cloud forensics, including legal consideration and software tools involved with discovery in the cloud.

Prerequisite: CS 33211 or EMAT 26010 or IT 21002; or ENGR 23010 and ENGR 26301.

Schedule Type: Lecture

Contact Hours: 3 lecture

Grade Mode: Standard Letter

IT 46321 WEB DATABASE INTEGRATION 3 Credit Hours

Course focus is on integrating data sources into websites. Current topics include advanced concepts in server-side processing principles, web forms, database programming objects and Structured Query Language (SQL).

Prerequisite: IT 21036.

Schedule Type: Lecture

Contact Hours: 3 lecture

Grade Mode: Standard Letter

IT 46331 LOCAL AREA NETWORK SECURITY AND FIREWALLS 3 Credit Hours

Course examines the primary issues involved in defining and configuring a local area network (LAN) defense perimeter, including LAN security analysis, implementing firewalls and intrusion detection systems.

Prerequisite: IT 36330.

Schedule Type: Lecture

Contact Hours: 3 lecture

Grade Mode: Standard Letter

IT 46340 DATA DESIGN AND IMPLEMENTATION 3 Credit Hours

Explores the role and design of databases in organizations, with emphasis on the technologies used in their implementation. Emphasis on Structured Query Language (SQL).

Prerequisite: IT 21005 and IT 21010.

Schedule Type: Lecture

Contact Hours: 3 lecture

Grade Mode: Standard Letter

IT 46350 DATABASE ADMINISTRATION AND REPORTING TOOLS 3 Credit Hours

Examines the role of database administrator, focusing on maintaining, validating and securing data along with use of report writing tools, techniques and best practices.

Prerequisite: IT 21005 and IT 21010.

Schedule Type: Lecture

Contact Hours: 3 lecture

Grade Mode: Standard Letter