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: 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, security concepts, resource sharing and introductory network concepts. Students will learn about a variety of operating systems including mobile devices. Students will learn fundamentals of networking including network devices, cabling, numbering systems and network models.
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; security; access control. The course will cover networking, mobile devices, servers and user management.
Prerequisite: CS 33211 or IT 11005.
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   3 Credit Hours
Introduces networking in local area network (LAN), wide area network (WAN), and Cloud environments. Topics include network hardware, numbering systems, protocols, configuration, operation, setup, installation, administration, management and security. Students will also learn and practice troubleshooting strategies.
Pre/corequisite: IT 11009.
Schedule Type: Lecture
Contact Hours: 3 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: CIS 24065 or CS 13001 or EMAT 25310 or IT 11002.
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 and privacy.
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 thinking, reflection, writing and discussion applying current theories of IT to on-the-job experiences and roles, with an emphasis on preparation for a career in IT. 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 or CIS 24065 or EMAT 25310 or (IT 11002 and IT 11006).
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

IT 21092   PRACTICUM FOR INFORMATION TECHNOLOGY (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 IT 21002 or; ENGR 23010.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

IT 21110   NETWORK ROUTING AND SWITCHING   3 Credit Hours
Course covering internetworking concepts. Topics include networking standards, network designs, cabling, Transmission Control Protocol/Internet Protocol (TCP/IP), routing protocols, switch and router configuration, local area network (LAN) and wide area network (WAN) segments, virtual local area network#(VLAN) and other related topics.
Prerequisite: CS 33211 or IT 21002; or ENGR 23010.
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 IT 21002; or ENGR 23010.
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: IT 21002.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

IT 22000   SURVEY OF IT 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 IT 21002; or ENGR 23010.
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 ENGR 23010 or IT 21002.
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 IT 21002; or ENGR 23010.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

IT 26315   CERTIFICATION PREP IN INFORMATION TECHNOLOGY   3 Credit Hours
Certification preparation course helps students prepare for professional certification attempts in Information Technology. Certification is not guaranteed. Certification fees may apply.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

IT 30000   PYTHON PROGRAMMING IN INFORMATION TECHNOLOGY   3 Credit Hours
Python language introducing object-oriented programming concepts utilized in various roles in the IT field. Topics include: implementation, variables, file and exception handling, control/data structures, functions, collections and modules.
Prerequisite: None.
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 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 EDITING   3 Credit Hours
Course covers various concepts involved in the creation and manipulation of digital images.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

IT 36308   ERGONOMICS AND USABILITY IN INFORMATION TECHNOLOGY   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: CIS 24065 or CS 13001 or EMAT 25310 or IT 11002 or IT 20001 or IT 20011 or IT 20021.
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.
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 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 IT 21002; or ENGR 23010.
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 IT 21002; or ENGR 23010.
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   NETWORK SECURITY FUNDAMENTALS   3 Credit Hours
Examines the primary issues involved in securing resources in networked environment, including threat assessment, countermeasures, best practices, security protocols, cryptography and management-related issues.
Prerequisite: CS 33211 or IT 21002; or ENGR 23010.
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 36339   CLOUD AND VIRTUALIZATION TECHNOLOGIES IN INFORMATION TECHNOLOGY   3 Credit Hours
Covers the basics of the common cloud computing and major virtualization technologies and their place in the modern enterprise. Topics include foundational understanding of virtualization implementations and tools; and how to plan, install, manage, configure, monitor and secure public, private, hybrid, cloud and service models for platform, software, infrastructure and other technologies.
Prerequisite: Junior or senior standing.
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 25310 or IT 21002; or ENGR 23010.
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 Credit) 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 36396   CERTIFICATION PREPARATION IN INFORMATION TECHNOLOGY   3 Credit Hours
(Repeatable for Credit) 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: Individual Investigation
Contact Hours: 3 other
Grade Mode: Standard Letter

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 IT 21002; or ENGR 23010.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

IT 41002   CLOUD TECHNOLOGY   3 Credit Hours
Course introduces the concepts and fundamentals of cloud computing and gives an understanding of the many services that are available to cloud technology, as well as the benefits and risks when compared to on-site methods. Cloud technology in networking, incident response/disaster recovery, data storage, virtualization, management, monitoring, security, and automation are also discussed.
Prerequisite: CS 33211 or IT 21002; or ENGR 23010.
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 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: CIS 24065 or CS 13001 or EMAT 25310 or IT 11002.
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: CIS 24065 or CS 13001 or EMAT 25310 or IT 11002 or IT 20021.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

IT 46311   TECHNOLOGY OF NETWORKING   3 Credit Hours
Advanced topics of enterprise LAN/WAN/Cloud management, including DNS, DHCP, IP addressing, routing basics, subnet masking, firewalls, storage redundancy techniques, network update and security, cloud services and general tuning, optimizing, troubleshooting, recovery.
Prerequisite: CS 33211 or IT 21002; or ENGR 23010.
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 in a variety of environments including desktop and network solutions.
Prerequisite: IT 21002 and IT 36339; or ENGR 26305 and ENGR 27100.
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 IT 21002; or ENGR 23010.
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: CIS 24065 or CS 13001 or EMAT 25310 or IT 21005.
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 IT 21002; or ENGR 23010.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

IT 46331   NETWORK SECURITY AND FIREWALLS   3 Credit Hours
Course examines the primary issues involved in defining and configuring network defense perimeter, including security analysis, monitoring networks, 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