COMPUTER TECHNOLOGY (COMT)

COMT 11000 INTRODUCTION TO OFFICE PRODUCTIVITY APPS 3 Credit Hours
( Equivalent to MIS 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

COMT 11002 VISUAL BASIC PROGRAMMING 3 Credit Hours
Visual Basic.NET language introducing concepts of object-oriented, event-driven program design and implementation.
Prerequisite: COMT 11004.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMT 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

COMT 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

COMT 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: COMT 11004.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMT 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: COMT 11005 or CS 33211 or DSCI 26010 or TECH 10001.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

COMT 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

COMT 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

COMT 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

COMT 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: COMT 11009.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

COMT 21005 VISUAL BASIC DATABASE PROGRAMMING 4 Credit Hours
Advanced course in the visual basic language focusing on database systems development.
Prerequisite: COMT 11002 or CS 13001 or DSCI 15310 or MIS 24065.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

COMT 21007 INTERNET ETHICS AND POLICIES 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
COMT 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

COMT 21009 SEMINAR IN COMPUTER 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: COMT 11002 and COMT 11005 and COMT 11006 and COMT 11009 and COMT 21002 and COMT 21010.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

COMT 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: COMT 12000; or OTEC 16639 and OTEC 26611.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMT 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: COMT 11006.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMT 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: COMT 11002 and COMT 11006; or CS 13001 and CS 27101; or MIS 24065; or TECH 26301.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMT 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: Practicum or Internship
Contact Hours: 3-9 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

COMT 21095 SPECIAL TOPICS IN COMPUTER 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

COMT 21096 INDIVIDUAL INVESTIGATION IN COMPUTER 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

COMT 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: COMT 21002 or CS 33211 or DSCI 26010; or TECH 23010 and TECH 26301.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMT 21110 INTRODUCTION TO ROUTING AND SWITCHING 3 Credit Hours
Introduces internetworking concepts. Topics include networking standards, cabling, Transmission Control Protocol (TCP), Internet Protocol (IP), router configuration, location area network (LAN) and wide area network (WAN) segments and other related topics.
Prerequisite: COMT 21002 or CS 33211 or DSCI 26010; or TECH 23010 and TECH 26301.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMT 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
### COMT 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:** COMT 21002 or CS 33211 or DSCI 26010; or TECH 23010 and TECH 26301.  
**Schedule Type:** Lecture  
**Contact Hours:** 4 lecture  
**Grade Mode:** Standard Letter

### COMT 36095  SPECIAL TOPICS IN COMPUTER TECHNOLOGY  2-3 Credit Hours
(Repeatable for credit) Various special courses will be announced in the schedule of classes.  
**Prerequisite:** None.  
**Schedule Type:** Lecture  
**Contact Hours:** 2-3 lecture  
**Grade Mode:** Standard Letter

### COMT 36301  ADVANCED C++ PROGRAMMING  4 Credit Hours
Course using C++ classes and data abstraction, stream I/O, inheritance, standard template library, Microsoft Foundation Classes, system programming concepts using Unified Modeling Language.  
**Prerequisite:** COMT 20021.  
**Schedule Type:** Lecture  
**Contact Hours:** 4 lecture  
**Grade Mode:** Standard Letter

### COMT 36302  ADVANCED C SHARP PROGRAMMING  3 Credit Hours
Advanced concepts of C Sharp including classes and objects, inheritance, polymorphism, arrays, exception handling, files and streams and Extensible Application Markup Language (XAML). Preparereqsite: COMT 20021.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

### COMT 36303  DIGITAL IMAGE MANIPULATION  3 Credit Hours
Course covers various concepts involved in the creation and manipulation of digital images.  
**Prerequisite:** COMT 11006.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

### COMT 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

### COMT 36309  PROGRAMMING MOBILE APPLICATIONS  3 Credit Hours
Introduces the unique program design considerations required by mobile device platforms such as PDAs and Smartphones. Practical programming examples will utilize Visual Basic and the .NET Compact Framework.  
**Prerequisite:** COMT 11002 or COMT 20001 or COMT 20021 or CS 13001 or DSCI 15310 or MIS 24065.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

### COMT 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:** COMT 21011.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

### COMT 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:** COMT 20011.  
**Schedule Type:** Lecture  
**Contact Hours:** 4 lecture  
**Grade Mode:** Standard Letter

### COMT 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

### COMT 36315  CERTIFICATION PREPARATION IN COMPUTER TECHNOLOGY  3 Credit Hours
(Repeatable for a maximum of 6 credit hours) Certification preparation course to help students prepare for professional certification attempts in computer technology. Certification is not guaranteed, and certification fees may apply.  
**Prerequisite:** Special approval.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

### COMT 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

### COMT 36320  COMPUTER FORENSICS  3 Credit Hours
Hands-on skills in incident response, forensic preparation and data recovery and analysis.  
**Prerequisite:** COMT 21002; or CS 33211; or DSCI 26010; or TECH 23010 and TECH 26301.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
<th>Description</th>
<th>Prerequisite</th>
<th>Schedule Type</th>
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<tr>
<td>COMT 36321</td>
<td>NETWORK FORENSICS</td>
<td>3</td>
<td>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.</td>
<td>Prerequisite: COMT 21002; or CS 33211; or DSCI 26010; or TECH 23010 and TECH 26301.</td>
<td>Lecture</td>
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<td>COMT 36322</td>
<td>SOCIAL MEDIA AND MOBILE DEVICE FORENSICS</td>
<td>3</td>
<td>Course covers data collection and analysis techniques for social media and mobile devices.</td>
<td>Prerequisite: Junior standing.</td>
<td>Lecture</td>
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<td>COMT 36330</td>
<td>LOCAL AREA NETWORK SECURITY FUNDAMENTALS</td>
<td>3</td>
<td>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.</td>
<td>Prerequisite: COMT 21002; or CS 33211; or DSCI 26010; or TECH 23010 and TECH 26301.</td>
<td>Lecture</td>
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<td>COMT 36331</td>
<td>ADVANCED ROUTING AND SWITCHING</td>
<td>3</td>
<td>Reinforcing Internetworking concepts. Topics include network standards, LAN switching, VLANs, network designs, routing protocols and configuration, LAN and WAN segments, and other related topics.</td>
<td>Prerequisite: COMT 21110.</td>
<td>Lecture</td>
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<td>COMT 36336</td>
<td>WEB SCRIPTING II</td>
<td>3</td>
<td>Focuses on server-side scripting needed to create interactive and dynamic websites.</td>
<td>Prerequisite: COMT 21036.</td>
<td>Lecture</td>
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<td>COMT 36340</td>
<td>HELP DESK SUPPORT</td>
<td>3</td>
<td>Examination of help desks that exist, importance within organizations, the roles and skills required, and methods and technologies commonly employed.</td>
<td>Prerequisite: COMT 11009 or TECH 23010.</td>
<td>Lecture</td>
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<td>COMT 36350</td>
<td>PROGRAMMING OFFICE PRODUCTIVITY APPLICATIONS</td>
<td>3</td>
<td>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.</td>
<td>Prerequisite: COMT 11002 and COMT 21010.</td>
<td>Lecture</td>
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<td>COMT 36355</td>
<td>COMMAND LINE UTILITIES</td>
<td>3</td>
<td>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.</td>
<td>Prerequisite: COMT 21002; or CS 33211; or DSCI 26010; or TECH 23010 and TECH 26301.</td>
<td>Lecture</td>
<td>3</td>
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<td>COMT 36392</td>
<td>INTERNSHIP FOR COMPUTER TECHNOLOGY STUDENTS</td>
<td>1-3</td>
<td>(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.</td>
<td>Prerequisite: Junior standing.</td>
<td>Practicum or Internship</td>
<td>3-9</td>
<td>Standard Letter</td>
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<td>COMT 40000</td>
<td>CYBERSECURITY</td>
<td>3</td>
<td>Builds on a background in networking and focuses on cybersecurity best practices, standard models and regulatory requirements.</td>
<td>Prerequisite: COMT 21002; or DSCI 26010; or CS 33211; or TECH 23010 and TECH 26301.</td>
<td>Lecture</td>
<td>3</td>
<td>Standard Letter</td>
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<td>COMT 41002</td>
<td>CLOUD TECHNOLOGY</td>
<td>3</td>
<td>Concepts of cloud computing, including storage; services; technology; and management.</td>
<td>Prerequisite: COMT 21002; or DSCI 26010; or CS 33211; or TECH 23010 and TECH 26301.</td>
<td>Lecture</td>
<td>3</td>
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<td>COMT 41010</td>
<td>MOBILE APPLICATIONS FOR INFORMATION TECHNOLOGY</td>
<td>3</td>
<td>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.</td>
<td>Prerequisite: Junior standing.</td>
<td>Lecture</td>
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COMT 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

COMT 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: COMT 21002; or CS 33211; or DSCI 26010; or TECH 23010 and TECH 26301.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMT 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

COMT 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: COMT 11009 and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMT 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: COMT 36303.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMT 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: COMT 11002 or CS 13001 or DSCI 15310 or MIS 24065.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMT 46309  VISUAL BASIC WEB PROGRAMMING  3 Credit Hours
Using Visual Basic 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, AJAX, and WCF services.
Prerequisite: COMT 11002 or CS 13001 or DSCI 15310 or MIS 24065.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMT 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: COMT 21002; or CS 33211; or DSCI 26010; or TECH 23010 and TECH 26301.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMT 46311  TECHNOLOGY OF NETWORKING  3 Credit Hours
Advanced topics of enterprise network management, including DNS, WINS, IP addressing, routing basics, subnet masking, firewalls, storage redundancy techniques, and general tuning, optimizing, troubleshooting, recovery strategies.
Prerequisite: COMT 21002 or CS 33211 or DSCI 26010; or TECH 23010 and TECH 26301.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMT 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: COMT 21002 and COMT 21036.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMT 46313  VIRTUAL MACHINE CONFIGURATION AND ADMINISTRATION  3 Credit Hours
Focus on configuring and administering virtual machine software.
Prerequisite: COMT 21002; or CS 33211; or DSCI 26010; or TECH 23010 and TECH 26301.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMT 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: COMT 21002; or CS 33211; or DSCI 26010; or TECH 23010 and TECH 26301.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMT 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: COMT 21005 or CS 13001 or DSCI 15310 or MIS 24065.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
COMT 46320  CLOUD FORENSICS  3 Credit Hours
Concepts of cloud forensics, including legal consideration and software tools involved with discovery in the cloud.
Prerequisite: COMT 21002; or DSCI 26010; or CS 33211; or TECH 23010 and TECH 26301.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMT 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: COMT 21036.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMT 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: COMT 36330.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMT 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: COMT 21005 and COMT 21010.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter