Courses

IT 100 Computer Programming Foundations
3 Credits. 2 Lecture Hours. 3 Lab Hours.
A course on fundamental concepts related to computer programming. Topics include: problem solving and developmental tools, design techniques such as flow charting and pseudo coding, and testing techniques used in programming. Prerequisites: IT 101 and IT 111

IT 101 Programming 1
3 Credits. 2 Lecture Hours. 3 Lab Hours.
An introduction to concepts of object-oriented software development. Topics include: application design methods, stages of software development, structures of programming, and modular programming concepts using procedures and functions. Prerequisites: IT 100, IT 102, and IT 103.

IT 102 Programming 2
3 Credits. 2 Lecture Hours. 3 Lab Hours.
A continuation of IT 101. Topics include: object-oriented design and implementation, developing class modules, and accessing and writing to external data storage and databases-embedded SQL and stored procedures. Prerequisites: IT 101 and IT 111

IT 103 .NET Programming 1
3 Credits. 2 Lecture Hours. 3 Lab Hours.
A continuation of IT 102. Topics include: creating, debugging, and maintaining web-based database applications using the .NET framework. Prerequisites: IT 102 and IT 111

IT 104 Information Technology Concepts
3 Credits. 2 Lecture Hours. 3 Lab Hours.
A course on information technology fundamentals. Topics include: the internet, software, hardware, input/output (I/O) and storage, operating systems, communications and networks, database management, security, system development, programming, enterprise computing, and numbering systems. The course is delivered through online instruction only. Prerequisites: IT 100.

IT 110 HTML with CSS and JavaScript
3 Credits. 2 Lecture Hours. 3 Lab Hours.
A course on internet programming using HTML, CSS, and JavaScript. Topics include: HTML commands, cascading style sheets, JavaScript commands, web applications (apps), and dynamic web pages. Prerequisites: None

IT 111 Database Design & SQL 1
3 Credits. 2 Lecture Hours. 3 Lab Hours.
A course on fundamentals of relational database design and implementation using Microsoft SQL Server. Topics include: SQL Enterprise Manager, fundamentals of database design and normalization, data import and export, Structured Query Language (SQL), indexes and keys, views, and stored procedures. Prerequisites: IT 100 and IT 103.

IT 112 Database Design and SQL 2
3 Credits. 2 Lecture Hours. 3 Lab Hours.
A continuation of IT 111. Topics include: advanced stored procedures using transact SQL, user defined functions, triggers, user defined data types, full text searching, replication, database maintenance plans, and designing data models from abstract requirements. Prerequisites: IT 111 (minimum grade C)

IT 115 Operating Systems Administration 1
3 Credits. 2 Lecture Hours. 3 Lab Hours.
A course on the Windows operating system used on PCs. Topics include Windows administration and management, utilities, managing disks, disaster recovery, troubleshooting, user management, productivity tools, and performance issues. This course prepares students for a Microsoft Certification exam. Prerequisites: IT 108 or IT 114.

IT 116 Operating Systems Administration 2
3 Credits. 2 Lecture Hours. 3 Lab Hours.
A continuation of IT 115. Topics include: managing software problems; managing virtualization; and client configuration, development, deployment, and security. This course prepares students for a Microsoft Certification exam. Prerequisites: IT 115 (minimum grade C).

IT 117 Web Application Development 1
3 Credits. 2 Lecture Hours. 3 Lab Hours.
A course on fundamentals of web-based application development. Topics include: current front-end and back end technologies used to develop business-related applications, and understanding infrastructure to support application development. Prerequisites: IT 100 and IT 111

IT 118 Web Application Development 2
3 Credits. 2 Lecture Hours. 3 Lab Hours.
A continuation of IT-117. Topics include: using current front-end and back-end technologies to develop business-related applications. Prerequisites: IT 117

IT 140 PHP and MySQL
4 Credits. 3 Lecture Hours. 3 Lab Hours.
A course in PHP web programming with a MySQL database. Topics include: PHP language, syntax, variables, and forms; MySQL database design; connecting to a MySQL database using PHP; inserting, editing, and deleting MySQL data using PHP; and building dynamic web pages using PHP and MySQL. Prerequisites: IT 101 and IT 110

IT 150 Logistics and Distribution Technology
3 Credits. 2 Lecture Hours. 2 Lab Hours.
A course on technologies and software used in supply chain management for freight, air, and maritime logistics operations. Topics include: barcodes, RFID, Wi-Fi tags, logistics and inventory software, high frequency tracking, and passive/active tracking. Prerequisites: SCM 105

IT 161 Java Programming 1
3 Credits. 2 Lecture Hours. 3 Lab Hours.
A course on fundamentals of the Java programming language. Topics include: data types, variables, basic command line input/output, decisions, loops, procedures, string manipulation, arrays, object-oriented development, event programming, and database programming. Prerequisites: IT 101
IT 162 Java Programming 2  
3 Credits. 2 Lecture Hours. 3 Lab Hours.  
A continuation of IT 161. Topics include: Java Server Pages (JSP) and complex database applications using Java and JSP.  
Prerequisites: IT 161

IT 212 Business Intelligence, Data Warehousing, and Reporting  
3 Credits. 2 Lecture Hours. 3 Lab Hours.  
A course on concepts, technologies, and techniques used to effectively consolidate, arrange, and analyze large amounts of data. Topics include: decision support systems, data mining, and how to derive business value from large amounts of data.  
Prerequisites: IT 112

IT 215 Scripting  
3 Credits. 2 Lecture Hours. 2 Lab Hours.  
A course on task automation and configuration management using Microsoft PowerShell programming language. Topics include: modifying existing PowerShell scripts, and creating new scripts to automate common tasks.  
Prerequisites: NETB 155

IT 218 Web Application Development 3  
3 Credits. 2 Lecture Hours. 3 Lab Hours.  
A continuation of IT 118. Topics include: using current front-end and back-end technologies to develop complex business-related applications.  
Prerequisites: IT 118

IT 220 Emerging Topics in Computer Software Development  
3 Credits. 2 Lecture Hours. 3 Lab Hours.  
A course on current topics related to Computer Software Development such as data reporting, XML, and other new concerns.  
Prerequisites: IT 101, IT 110, IT 111

IT 262 Java Programming 3  
3 Credits. 2 Lecture Hours. 3 Lab Hours.  
A continuation of IT 162. Topics include: completing complex projects using Java and associated technologies.  
Prerequisites: IT 162