

Information Technology (IT)

IT 100 IT Fundamentals

5 credits | ELEC

Quarter(s): S, F, W, Sp

Develops the knowledge to identify and explain basic computer components, set up a basic workstation, conduct basic software installation, establish basic network connectivity, identify compatibility issues and identify/prevent basic security risks. This course will also focus on the areas of safety and preventative maintenance of computers and is intended for students who are considering a career in IT and later considering the pursuit of a Comptia A+ or similar certification.

Prerequisite: BUS 100

IT 102 Introduction to Web Design

5 credits | REEL

Quarter(s): W

Offers concepts, fundamentals, and techniques of web page design. Topics include web page usability, design principles and development, site planning, and implementation. HTML scripting language and Cascading Style Sheets are used to create structural and presentational web pages. Students will use concepts presented in the course for development of personal and commercial web pages.

Prerequisite: IT 100 or co-enrollment, or instructor permission

IT 104 Intermediate Web Page Design

5 credits | REEL

Quarter(s): S

Continuation of Web Page Design using client and server side scripted/programming languages and dynamic page coding to extend design capabilities and Web Site effectiveness. Methods introduced include browser control, security related issues, and Web Page structural/presentational control using these languages.

Prerequisite: IT 102 (was CS 102), or equivalent, or instructor permission.

IT 111 Intro to Windows

4 credits | REEL

Quarter(s): S, F

Offers an introduction to the study of the Microsoft Windows operating system. Presents fundamental concepts of a Microsoft Windows client operating system such as file management and customizing a graphical user interface (GUI).

Prerequisite: None

IT 140 Configuring Windows Operating System

4 credits | REEL

Quarter(s): F

Presents installing, deploying, configuring, monitoring, and maintaining systems that run Microsoft Windows OS. Installation, system images, application, networking, resource allocation, mobile computing, monitoring, maintenance, backup, and recovery topics are included. Continues to prepare students for Microsoft's Certification: Configuring Windows Operating System.

Prerequisite: IT 100 IT Fundamentals (5 credits)

IT 141 PC Technician I**4 credits | REEL****Quarter(s): F, W**

Provides an overview of the roles of the PC technician including: protection and safety of users, acting in a professional manner, communication, and documentations are examined. Technical topics include installation, maintenance, and troubleshooting of system components, peripheral devices, storage, printers, mobile devices, and networking. Prepares students for TestOut's PC Pro and CompTIA's A+ certification exams.

Prerequisite: IT 100 (was CS 100) with a C or better, or instructor permission.

IT 142 PC Technician II**4 credits | REEL****Quarter(s): Sp**

Continues an overview of the roles of the PC technician including: protection and safety of users, acting in a professional manner, communication, and documentations are examined. Technical topics include installation, maintenance, and troubleshooting of system components, peripheral devices, storage, printers, and networking. Continues preparation of students for TestOut's PC Pro and CompTIA's A+ certification exams.

Prerequisites: IT 141 (was CS 141) with a grade of C or better, or instructor permission.

IT 211 Introduction to Networking**5 credits | REEL****Quarter(s): F**

Introduces the fundamental building blocks that form a modern network, such as protocols, media, topologies, and hardware. It then provides in depth coverage of the most important concepts in contemporary networking, such as TCP/IP, Ethernet, wireless transmission, virtual networks, security, and troubleshooting. This course is focused on preparing students for the COMPTIA Network + Certification. Prerequisite: IT 140 with a grade of C or better or instructor permission.

IT 212 Installing and Configuring Windows Server**5 credits | REEL****Quarter(s): W**

Provides in-depth knowledge of Windows Server, including installation, local and remote management, file and storage services, Active Directory, group policies, TCP/IP, networking services, and Hyper-V virtualization has been acquired. This course prepares students for Microsoft server certification exam objectives and focuses on the skills needed to install and configure Windows Server. Prerequisite: IT 211 (was CS 211) with a grade of C or better or instructor permission.

**IT 213 Local Area Networks:
Configuring Windows Server Network
Infrastructure**

5 credits | REEL

Quarter(s): Sp

Prepares students for the Microsoft Technology Specialist exam: Windows Server Network Infrastructure Configuring. Focuses on the details of configuring the infrastructure of a network.

Prerequisites: IT 212 (was CS 212) with a grade of C or better or instructor permission.

**IT 220 Intro to Cloud Computing
3 credits | REEL**

Quarter(s): Sp

Provides an overview of cloud computing from a non-technical perspective. Includes the value of cloud computing, cloud types, adoption of the cloud, impact and changes on IT services, and risks of implementation. Prepares students for the CompTIA Cloud Essentials certification Cloud+. Includes both theoretical study of cloud computing and hands on labs.

Prerequisites: IT 140 (was IT 143) or IT 211 (was CS 211) with a grade of C or better, or instructor permission.

**IT 230 Database Development
5 credits | REEL**

Quarter(s): F

Offers further study and use of computerized database management systems. Provides intermediate theory and practice in a disciplined approach to problem solving using a database management system in a business environment.

Prerequisite: BTEC 135, Advanced Data Analysis with a grade of C or better, or instructor permission.

IT 235 Introduction to Big Data

5 credits | REEL

Provides an introduction to concepts used in data mining and data-analytics, including exploration and application of data modeling tools.

Prerequisites: IT 230 (was CS 230) with a grade of C or better, or instructor permission.

**IT 249 Linux Operating Systems
5 credits | REEL**

Quarter(s): W

Prepares students for application of Linux+ certification knowledge and skills. Course is focused on meeting Comptia Linux+ certification objectives in both knowledge and hands on lab practice. It is recommended that most students will need some experience with Linux in the work place prior to attempting the Linux+ exam.

Prerequisites: IT 140 (was IT 143) and IT 211 (was CS 211) each with a grade of C or better, or instructor permission.

IT 260 Info Tech Security

5 credits | REEL

Quarter(s): Sp

Prepares students for application of Security+ certification knowledge and skills. Course is focused on meeting Comptia Security+ certification objectives in both knowledge and hands on lab practice. It is recommended that most students will need some experience with Linux in the work place prior to attempting the Security+ exam.

Prerequisites: IT 211 (was CS 211) with a grade of C or better, or instructor permission.

IT 288 Cooperative Work Experience
1-15 credits

Provides work-based learning experience in a specific program of study. Individualized student outcomes are developed, focusing on behaviors that contribute to workplace success. Prerequisites: Instructor or Cooperative Education Coordinator permission
Concurrent requirements: COLL 289 or BUS 294 must be taken prior to or concurrent with this course.

IT 299 Independent Study
1-10 credits

Offers individualized learning opportunities for knowledge or skill development. Content and expectations are established between the student and instructor, and documented in an Independent Study contract. Prerequisite: By Instructor Permission only.