

INTE 1100 INSTALLATION AND TROUBLE SHOOTING PART I (1-2-3)

This course is designed to provide students with the basic knowledge and skills necessary for Personal Computer (PC) support and maintenance. It also prepares students for the CompTIA A+ Essentials part of the A+ certification process. Students are given basic training in the areas of PC installation, preventative maintenance, networking, security and troubleshooting. PC hardware and software covered in this course includes installation and proper configuration of motherboards, various drives, adapter cards, operating systems, various applications, and data communication software. The course provides a systematic approach towards PC diagnostics and troubleshooting through the use of common industry standard diagnostic software.

PREREQUISITES: None

INTE 1110 INSTALLATION AND TROUBLE SHOOTING PART II (1-2-3)

This course is designed to extend the knowledge and skills gained in INTE 1100 with more hands-on activities focused on advanced troubleshooting scenarios and on identifying proper tools that must be applied to resolve specific problems. Advanced topics and projects in PC hardware and software troubleshooting and maintenance are introduced. PC hardware topics include installation of motherboards, various devices, drives, and adapter cards. Software topics include installation of operating systems, various applications, and communication software and their proper configuration. The course also prepares students for industry-based certification such as the CompTIA A+ practical application part of the certification exam.

PREREQUISITES: INTE 1100

INTE 1200 OPERATING SYSTEMS (1-2-3)

This course is designed to teach students basic and advanced topics in personal computer operating systems. It is a hands-on study of personal computer operating systems which also prepares students for industry-based certification leading toward MCTS: Windows 7, Configuration (Exam 70-680); MCTS: Windows 7, Deployment (Exam 70-681). The course includes but is not limited to the following subject areas; Installation, Administration, Management and Troubleshooting aspects associated with managing Windows desktop operating systems from standalone to network environments. The course trains students the skills necessary to deploy, support, and maintain desktop and network operating systems.

PREREQUISITES: None

INTE 1210 INTRODUCTION TO PROGRAMMING (1-2-3)

This course introduces students to popular basic programming languages and their inherent logic structures. The students will develop understanding of the basic logic structures used in application development. An introductory programming language such as Visual Basic may be used for the application of these logic structures.

PREREQUISITES: None

INTE 2010 INTRODUCTION TO CLIENT/SERVER NETWORKING (1-2-3)

This course is designed to provide students with the knowledge and skills that are required to manage accounts and resources, maintain server resources, monitor server performance, and safeguard data in a Microsoft Windows Server™ 2008 environment. Furthermore, the course provides the skills and knowledge to prepare for Microsoft Certified Professional Exam 70-646.

PREREQUISITES: INTE 1200

INTE 2020 SERVER NETWORK INFRASTRUCTURE (1-2-3)

This course is designed to provide students with the knowledge and skills to implement, manage, and maintain a Windows Server network infrastructure. The course is intended for systems administrator and systems engineer candidates who are responsible for implementing, managing, and maintaining server networking technologies. These tasks include implementing routing; implementing, managing, and maintaining Dynamic Host Configuration Protocol (DHCP), Domain Name System (DNS), and Windows Internet Name Service (WINS); securing Internet Protocol (IP) traffic with Internet Protocol security (IPSec) and certificates; implementing a network access infrastructure by configuring the connections for remote access clients; and managing and monitoring network access. **PREREQUISITES:** INTE 1110

INTE 2030 ACTIVE DIRECTORY INFRASTRUCTURE (1-2-3)

This course is designed to provide students with the knowledge and skills to successfully plan, implement, and troubleshoot Server Active Directory, directory service infrastructure. The course focuses on a directory service environment, including forest and domain structure, Domain Name System (DNS), site topology and replication, organizational unit structure and delegation of administration, Group Policy, and user, group, and computer account strategies.

PREREQUISITES: INTE 1200

INTE 2070 ADMINISTERING AND MANAGING SQL SERVER (1-2-3)

The goal of this course is to provide system administrators, network administrators, and IT professionals with the ability to design and implement database solutions by using Microsoft SQL Server . This course provides the skills and knowledge to prepare for Microsoft Certified Professional Exam 70-229 or an equivalent certification exam.

PREREQUISITES: INTE 2010

INTE 2110 NETWORKING TECHNOLOGIES (1-2-3)

This course introduces students to computer networking and data communications. Hands-on approach will be used in teaching the fundamentals of networking technologies which includes basic planning, design, implementation, and administration of computer Local Area Networks (LAN) and Wide Area Networks (WAN). The course involves an in-depth study of the OSI model and its associated protocols and principles. It also includes network troubleshooting and security related issues. This course prepares students toward the Cisco CCENT certification exam, which is the first step toward Cisco CCNA certification.

PREREQUISITES: INTE 1100, INTE 1200

INTE 2120 INTRODUCTION TO BASIC ROUTERS (1-2-3)

This course describes the architecture, components, and operation of routers, and explains the principles of routing and routing protocols. Students analyze, configure, verify, and troubleshoot the primary routing protocols RIPv1, RIPv2, EIGRP, and OSPF. By the end of this course, students will be able to recognize and correct common routing issues and problems.

PREREQUISITES: INTE 2110

INTE 2130 INTERMEDIATE ROUTING & SWITCHING (1-2-3)

This course help students develop an in-depth understanding of how switches operate and are implemented in the LAN environment for small and large networks. Beginning with a foundational overview of Ethernet, this course provides detailed explanations of LAN switch operation, VLAN implementation, Rapid Spanning Tree Protocol (RSTP), VLAN Trunking Protocol (VTP), Inter-VLAN routing, and wireless network operations. Students analyze, configure, verify, and troubleshoot VLANs, RSTP, VTP, and wireless networks. Campus network design and Layer 3 switching concepts are introduced.

PREREQUISITES: INTE 2120

INTE 2840 MANAGING NETWORK SECURITY (1-2-3)

This course is intended to serve the needs of individuals interested in understanding the field of network security and how the field relates to other areas of information technology. Individuals will study, design, configure, and implement solutions that will reduce the risk of revenue lost and vulnerability.

PREREQUISITES: INTE 2120

INTE 2902 INTERN SHIP (0-3-3)

The internship will be the final course taken by students in their last semester. Students will be assigned projects at the school site or at an employer's site to gain practical hands-on workplace related skills.

PREREQUISITES: Department Head Approval

JOBS 2450 JOB SEEKING SKILLS (2-0-2)

This course is required of all Technical Diploma and Associate Degree students and should be taken during their last semester of enrollment prior to completion of diploma/degree requirements. This course assists students in making immediate and future decisions concerning job choices and educational growth by compiling résumés, evaluating job offers, and outlining information essential to finding, applying for, and terminating a job.

PREREQUISITES: Successful completion of 15 Hours in a major program.

ORNT 1000 STUDENT COLLEGE/CAREER SUCCESS SEMINAR (1-0-1)

This course is designed to introduce newly enrolled students to college life and career development through a variety of activities. It is recommended that this course be scheduled during the first semester of enrollment. An overview of college policies, procedures, and resources as well as study skills and time management strategies will introduce the student to the college experience. Also included is an introduction to electronic learning and the use of online resources. Career development including career research and personal/career assessments are also activities included in this course.

PREREQUISITES: None