

AAS Computer Information Technology
Concentrations: Systems Management & Administration
(Formerly AAS Computer Technology – CPT)

CITC 1301

Introduction to Programming and Logic (*formerly CIS 1030 Programming and Logic Design*)

Credit hours: 3 Contact Hours: 4 Lecture

Course Description:

This course is an introduction to the logic necessary for application programming. Topics include logic analysis, techniques of structured design, process flow, and object oriented concepts. A programming language will be used to teach data types, variables, control structures, methods/functions and arrays.

Prerequisite(s): Level 2 placement in Reading and Math

Semester Availability: F/S

CITC 1302

Introduction to Networking (*formerly CNT 1005 – Intro to Computer Networks*)

Credit hours: 3 Contact Hours: 3 Lecture

Course Description:

A broad-based course that provides an overview of computer networking. Topics will include network models, protocols and services, media and topologies, devices and tools, network management, and network security. This course may align with the outcomes of industry certification.

Prerequisite(s): None

Semester Availability: F/S

CITC 1303

Database Concepts (*formerly CIS 2230 Database Concepts*)

Credit Hours: 3 Contact Hours: 4 Lecture

Course Description:

An introduction to the concepts and syntax of relational database management systems. Topics include relational theory, data modeling, database design concepts with normalization. Creation of tables, queries and other database objects using the tools provided in a relational DBMS.

Prerequisite(s): N/A

Semester Availability: S

CITC 1320

A+ Hardware and Software (*formerly CPT 1510 A+ IT Essentials*)

Credit hours: 3 Contact Hours: 2 Class, 2 Lab Hours

Course Description:

Computer Hardware and Software covers installation, maintenance, repair, troubleshooting, and connectivity of computers and networks. Topics include the internal components of a computer, installing an operating system, troubleshooting using system tools and diagnostic software, connecting to a network, implementing security best practices on a workstation, and peripheral setup and troubleshooting. This course integrates virtual learning tools to supplement classroom learning and to provide an interactive “hands-on” experience. Upon successfully completing this course, the student will be academically prepared for the current CompTIA A+ certification exams in hardware and software.

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Prerequisite(s): Level 2 Placement in Reading
Semester Availability: S

CITC 1330
Microsoft Desktop Operating System (*formerly CNT 1170 Microsoft Professional OS*)
Credit hours: 3 Contact Hours: 2 Lecture, 2 Lab

Course Description:
Microsoft Desktop Operating Systems is designed to provide students with the knowledge and skills necessary to install, manage and troubleshoot computers running current Microsoft desktop operating systems. Upon successfully completing this course, the student will be academically prepared for a current core Microsoft desktop operating system exam.

Prerequisite(s): None
Semester Availability: Fall, Spring

CITC 1332
UNIX/Linux (*formerly CPT 2425 UNIX/Linux*)
Credit hours: 4 Contact Hours: 4 Lecture

Course Description:
This course provides a thorough overview of the UNIX and LINUX operating systems. Emphasis is placed on the user interface, terminology and command structure within the multi-task/multiuser environment. Electronic mail and communications standards are covered along with standard UNIX/LINUX utilities needed to support the automated office.

Prerequisite(s): None
Semester Availability: Fall, Spring, Summer

CITC 1334
Project Management I (*formerly CIS 1060 Project Management*)
Credit Hours: 3 Contact Hours: 4 Lecture

Course Description:
This course focuses on a general approach to project management. The content deals with planning, scheduling, organizing and controlling projects. Primary class emphasis is on the project management process and tools. This introductory course includes the major topics of organization strategy and project selection, project definition, project time estimation, project plan development, resource scheduling and leadership. Microsoft Project will be used in applying project management techniques. Teams/case study will reinforce theory and application.

Prerequisite(s): Level 2 placement in English, Reading, and Math
Semester Availability: F/S

CITC 2320
Windows Server Administration (*formerly CNT 2350 Install/Config Windows Server*)
Credit hours: 3 Contact Hours: 2 Lecture, 2 Lab

Course Description:

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Using the Microsoft Windows Server network operating systems, students will learn to install, configure, administer, maintain, and troubleshoot networked computer system servers.

Prerequisite(s): CITC 1330
Semester Availability: Fall, Spring

CITC 2332
User Support/Help Desk (*formerly CPT 1010 User Support/Help Desk*)
Credit hours: 3 Contact Hours: 3 Lecture

Course Description:
An introduction to the role of computer technology in support of business processes and procedures. Concepts include computer user support, customer service skills, troubleshooting skills, common support problems, help desk operation and management, common help desk tools and procedures, and basic hardware and software installation and maintenance.

Prerequisite(s): Level 2 placement in English and Reading
Semester Availability: Fall, Spring

CITC 2336
Systems Troubleshooting (*formerly CPT 2430 Systems Troubleshooting*)
Credit hours: 4 Contact Hours: 4 Lecture

Course Description:
This course elevates computer system skills in areas of error detection, issue identification, technical research, solution development, and problem resolution. The student will develop an authentic perspective as an industry professional; interviews, simulations, checklists, community contacts, on-site visits and other interactions often occur to supplement class labs and group discussions.

Prerequisite(s): CITC 1320
Semester Availability: Fall, Spring

CITC 2349
Data Storage (*formerly CPT 1430 Data Storage*)
Credit hours: 3 Contact Hours: 2 Lecture, 2 Lab

Course Description:
An examination of storage-attached network devices through enterprise-level SAN systems. Topics include virtualization concepts, and fiber optics and twisted-pair cabling used to connect devices to a network.

Prerequisite(s): Level 2 placement in Reading
Semester Availability: Fall

CITC 2352
Digital Forensics (*formerly CPT 2530 Computer Forensics*)
Credit hours: 3 Contact Hours: 2 Lecture, 2 Lab

Course Description:

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This course is designed to give students a basic understanding of computer forensics and investigations. This course will introduce students to computing investigations by preparing them to acquire, examine and summarize digital evidence.

Prerequisite(s): Level 2 placement in English and Reading
Semester Availability: Spring

CITC 2353

Tactical Perimeter Defense (*formerly CPT 2480 Tactical Perimeter Defense*)

Credit hours: 3 Contact Hours: 3 Lecture

Course Description:

An examination of how software and hardware can be used to provide a perimeter of defense in protecting resources, and how security is addressed in both wireless and wired networks.

Topics include the use of tools such as wireless access points, proxy servers, VPN's, auditing, intrusion detection systems and firewalls. Prepares students to take Tactical Perimeter Defense exam for the Security Certified Network Specialist (SCNS) certification.

Prerequisite(s): CITC 1332

Semester Availability: Fall

CITC 2367 (*New Course Offering*)

Cloud Essentials Certification

Credit hours: 3 Contact Hours: 3 Lecture

Course Description:

This course is an introduction into the cloud computing model of servers, networks, applications and other elements related to data centers and how this data is made available to IT and end users via the internet. Students will be prepared to take the CompTIA Cloud Essentials (CLO-001) specialty certification exam

Prerequisite(s):

Semester Availability:

CITC 2371

Mobile Networks & Communication (*formerly CPT 1530 Mobile Computing*)

Credit hours: 3 Contact Hours: 2 Lecture, 2 Lab

Course Description:

This course introduces students to mobile networks and wireless communications, including wireless technology and architecture, types of wireless networks, design approaches to wireless networks, and applications used in wireless infrastructures. The course will cover the technical background of data communications, wireless communication technology, wireless networking, and wireless LANs.

Prerequisite(s): CITC 1320

Semester Availability: Spring

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CITC 2376 (*New Course Offering*)

Mobile Application Development

Credit hours: 3 Contact Hours: 3 Lecture

Course Description:

A study of mobile computing devices with emphasis on development of mobile applications. Topics include mobile computing hardware and technologies, mobile development environment, application components, user interface design principles and APIs.

Prerequisite(s):

Semester Availability:

CITC 2290

Capstone (*formerly CPT 2540 CPT Capstone*)

Credit hours: 2 Contact Hours: 2 Lecture

Course Description:

Course is taken during the final semester. A comprehensive review of concepts taught in the program. A case study of project will be used in the application and reinforcement of principles. An exit exam will be administered as a means of assessing program outcomes.

Prerequisite(s): Instructor Permit Only

Semester Availability: Spring