

Computing & Informatics

INFM 109 Informatics Fundamentals

3 Credits

Introduces the student to terminology, concepts, theory, and fundamental skills used to implement information system. Topics include the trends in computing, operating systems, security, and cloud implementations. A brief introduction to word processing and spreadsheets is included as part of a skill set that students will use throughout their careers in informatics.

ITSP 135 Hardware/Software Support

4 Credits

Prerequisites: INFM 109 Co-requisites: INFM 109

Delivers the necessary competencies with hands-on experience in the lab for an entry-level Information Technology professional...students will have the knowledge required to assemble components based on customer requirements, install, configure and maintain devices/software for end users, understand the basics of networking and security, properly and safely diagnose, resolve and document common hardware and software issues while applying troubleshooting skills. Students will also learn appropriate customer support, understand the basics of virtualization, desktop imaging, and deployment.

Industry Certification: Comptia A+ 1 & 2 (optional)

SDEV 120 Computing Logic

3 Credits

Prerequisites: Same as INFM 109

Introduces the student to algorithms, logic development and flowcharting as tools used to document computer logic. Students will study math concepts and the importance to computer development. Included areas of study are base numbering systems, truth tables, logic and relational operators. Other concepts covered are order of precedence, decision trees, security, different types of language approaches, and scripting. Students will practice skills such as listening, team building, work ethic, communications, documentation, and adaptability. Concepts will be demonstrated using basic scripting and simple programming code.

CSIA 105 Introduction to Cyber Security/Information Assurance

3 Credits

Prerequisite: Same as INFM 109; ITSP 135 Hardware/Software Support

The students will explore the field of Cyber Security/Information Assurance, focusing on the technical and managerial aspects of the discipline. Students will be introduced to the basic terminology, concepts, and best practices of computer/network security and the roles and responsibilities of management/security personnel. The students will learn the technologies used and techniques involved in creating a secure computer networking environment including authentication and the types of attacks against an organization.

Industry Certification: Comptia Security+ (optional)

Building Construction Technology

BCTI 100 Introduction to Construction Technology

3 Credits

Prerequisites: None.

This course covers the NCCER Core Curriculum and is a prerequisite to most other construction courses. Its modules cover topics such as basic safety, communication skills, and introduction to construction drawings; all basic skills needed to continue education in the construction program.

Industry Certification: NCCER Core Curriculum

Hamilton County Technical Education Partnership

BCTI 101 Introduction to Carpentry, Part I

3 Credits

Prerequisites: BCTI 100.

This course covers the first half of NCCER Carpentry Level I. Its modules cover topics such as building materials, fasteners, adhesives, hand and power tools, introduction to construction drawings, specifications, and floor systems.

BCTI 102 Introduction to Carpentry, Part 2

3 Credits

Prerequisites/Corequisites: BCTI 101.

This course covers the second half of NCCER Carpentry Level I. Its modules cover topics such as wall systems, ceiling joist and roof framing, basic stair layout, and introduction to building envelope systems. The NCCER Carpentry Level I certificate and wallet card will also be awarded upon successful completion of this course.

Industry Certification: NCCER Carpentry Level 1

BCTI 103 Carpentry Framing and Finishing, Part I

3 Credits

Prerequisites: BCTI 100.

This course covers the first half of NCCER Carpentry Framing and Finishing Level 2. Its modules cover topics such as commercial drawings, roofing applications, thermal and moisture protection, exterior finishing, and cold-formed steel framing. The NCCER Carpentry Framing and Finishing Level 2 certificate and wallet card will not be awarded until the student successfully completes both this course and BCTI 104.

Visual Communications

VISC 102 Fundamentals of Imaging

3 Credits

Introduces students to a full range of image input technology and manipulation including conventional photography, digital imaging, and computer scanners. Students will learn to communicate concepts and ideas through various imaging devices. Explores composition and fosters creativity.

VISC 105 Video and Sound

3 Credits

Prerequisites: Same as VISC 102.

An introduction to the field of video technology. Students will learn the basics of planning, shooting, editing and post-producing video and sound. Projects include exercises in technical and creative skills application, equipment usage and production techniques.

VISC 115 Introduction to Computer Graphics

3 Credits

Prerequisites: Same as VISC 102

This course introduces students to fundamental computer graphics in visual communications. The initial focus of the course is on basic computer terminology and use, mastering fundamental skills, and developing efficient working styles. These skills are further developed through work with vector-based and page layout software used in the professional visual communications industry.

VISC 116 Electronic Illustration

3 Credits

Prerequisites: VISC 115.

Provides intermediate instruction in illustration techniques using computer software designed for creating illustrations, technical, drawing, logos, packaging, maps, charts, and graphs. Emphasis is on preparing effective, creative illustrations for various media applications in an efficient, productive manner. Produces samples for student portfolios.