COURSE INFORMATION FORM

DISCIPLINE: Computer Science and Information Systems
COURSE TITLE: Information Technology Fundamentals

CR.HR: 3  LECT HR: 3  LAB HR: 0  CLIN/INTERN HR: 0  CLOCK HR: 0

CATALOG DESCRIPTION: Introduces Information Technology vocabulary and fundamentals related to computer hardware, software, networking, security, and basic IT literacy. This course helps prepare students for the CompTIA IT Fundamentals certification exam.

PREREQUISITES

EXPECTED STUDENT OUTCOMES IN THE COURSE (ESO)

Upon completion of this course, the student will be able to:
1. Identify and describe basic computer hardware components
2. Identify and describe basic computer software and functionality
3. Identify and describe basic computer networking principles
4. Describe and apply basic information security principles
5. Describe and apply basic IT fundamentals

GENERAL EDUCATION OUTCOMES (ESO)

Specify which general education outcomes, if any, are substantially addressed by the course. Numbers in parentheses identify the Expected Student Outcomes linked to the specific General Education Outcome.

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<th>Outcomes</th>
<th>ESO</th>
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PROGRAM-LEVEL OUTCOMES

Revised 4/6/15
CAREER AND TECHNICAL EDUCATION PROGRAM OUTCOMES

Specify which Career and Technical program outcomes, if any, are substantially addressed by the course by completing the “Career and Technical Education template” to show the relationship between course and program outcomes to assessment measures.

1. Create and defend solutions to real life business challenges.
2. Demonstrate professional oral and written communication skills.
3. Recognize the need for continued professional development.

CLASS-LEVEL ASSESSMENT MEASURES

Student accomplishment of expected student outcomes may be assessed using the following measures. (Identify which measures are used to assess which outcomes.)

1. Examinations/quizzes Outcomes 1-5
2. Exercises/projects Outcomes 1-5
3. Written/oral reports Outcomes 1-5

CATALOG NO. CSIS 110

COURSE OUTLINE FORM

DISCIPLINE Computer Science & Information Systems

COURSE TITLE: Information Technology Fundamentals

Individual instructors may order this outline as fits the needs of their individual courses. In addition, they may place more emphasis on some areas than on others. What is assured is that this particular list is covered in the course. Other topics may be added to a course as the instructor sees fit, and as time and interest allow. An *asterisk can be used to mark an item as optional.

I. Software
   A. Compare and contrast common Operating Systems and their functions and features

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B. Identify common programs, applications and their purpose
C. Software management best practices
D. Identify common programs, applications and their purpose
E. Explain the basic software features and functions of wireless devices

II. Hardware
   A. Identify basic wired and wireless peripherals and their purpose
   B. Compare and contrast common computer connector types
   C. Identify the purpose of internal computer components

III. Security
   A. Define basic security threats
   B. Apply security best practices
   C. Use web browsing best practices

IV. Networking
   A. SOHO networking concepts
   B. Compare and contrast wired and wireless data connections
   C. Compare and contrast different methods of sharing and storage

V. Basic IT Literacy
   A. Basic workstation setup
   B. Basic methods of navigating Windows operating system
   C. Basic support concepts
   D. Backups, environmental, and safety concepts