CSE 1110: Introduction to Computing Technology

Course Description

A course of general interest giving experience with personal computer software, e.g., word processors and spreadsheets; provides fundamental computer literacy; neither teaches nor requires programming.

Prior Course Number: CSE 100
Transcript Abbreviation: Intr Comptg Techn
Grading Plan: Letter Grade
Course Deliveries: Classroom, Greater or equal to 50% at a distance
Course Levels: Undergrad
Student Ranks: Freshman, Sophomore
Course Offerings: Autumn, Spring, Summer
Flex Scheduled Course: Never
Course Frequency: Every Year
Course Length: 14 Week
Credits: 2.0
Repeatable: No
Time Distribution: 2.0 hr Lec
Expected out-of-class hours per week: 4.0
Graded Component: Lecture
Credit by Examination: No
Admission Condition: No
Off Campus: Never
Campus Locations: Columbus, Lima, Mansfield, Newark
Prerequisites and Co-requisites:
Exclusions: Not open to students with credit for 1111 (101), 1113, or 100.
Cross-Listings:

Course Rationale: Existing course.

The course is required for this unit's degrees, majors, and/or minors: No
The course is a GEC: No
The course is an elective (for this or other units) or is a service course for other units: Yes

Subject/CIP Code: 14.0901
Subsidy Level: General Studies Course

Course Goals

Be competent with understanding the role of computers in our society
Be competent with using four of the most popular kinds of software on the market: spreadsheets, database managers, presentation graphics, and word-processing
Be familiar with using computer hardware by understanding how instructions are executed, information is input/output, binary no. system, storage devices, telecommunications
Be familiar with using the computer as a tool for problem solving in many areas: business, manufacturing, medicine, art, education, the military, government, etc
Be familiar with how computers have evolved, the history of the computer industry, and the dramatic speed at which computer technology has evolved and continues to do so
Be familiar with security issues, computer crime, the implications of natural disasters on computers, inadvertent tampering, and what can be done about each
Be exposed to social and ethical issues, including new social and ethical questions that need to be addressed because of computer technology

Be exposed to language issues, syntax and semantics, difficulties in using spoken languages for computers, what programming languages are, and what steps are involved in creating computer software

Course Topics

Topic	Lec	Rec	Lab	Cli	IS	Sem	FE	Wor
Computers in society; word processing	4.0							
Application software	2.0							
The components of the system unit; spreadsheet application	4.0							
Operating systems and utility programs	2.0							
Computing input devices	2.0							
Computing output devices	2.0							
Storage technology; database software	4.0							
Database management; communications and networks	3.0							
Computers and society, security, privacy, and ethics; presentation software	4.0							

Representative Assignments

MS Word tutorial and project
MS Excel tutorial and project
MS Access tutorial and project
MS PowerPoint tutorial and project

Grades

Aspect	Percent
Homework/Quizzes	20%
Labs	30%
Midterm Exam	25%
Final Exam	25%

Representative Textbooks and Other Course Materials

Title	Author
Discovering Computers 2008	Shelly, Cashman, Vermaat
Office 2007: Brief Concepts and Techniques, Brief Edition	Shelly, Cashman, Vermaat

ABET-EAC Criterion 3 Outcomes

Course Contribution		College Outcome
**	a	An ability to apply knowledge of mathematics, science, and engineering.
	b	An ability to design and conduct experiments, as well as to analyze and interpret data.
	c	An ability to design a system, component, or process to meet desired needs.
	d	An ability to function on multi-disciplinary teams.
	e	An ability to identify, formulate, and solve engineering problems.
**	f	An understanding of professional and ethical responsibility.

Course Contribution		College Outcome
	g	An ability to communicate effectively.
***	h	The broad education necessary to understand the impact of engineering solutions in a global and societal context.
*	i	A recognition of the need for, and an ability to engage in life-long learning.
	j	A knowledge of contemporary issues.
***	k	An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.

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