THE OHIO STATE UNIVERSITY
COLLEGE OF ENGINEERING

Introduction to Computing Technology

CSE 1110

Credit Hours:
3.00

Course Levels:
Undergraduate (1000-5000 level)

Course Components:
Lecture
Lab

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.

Course Goals / Objectives:
- 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:
- Computers in society; word processing
- Application software
- The components of the system unit; spreadsheet application
- Operating systems and utility programs
- Computing input devices
- Computing output devices
- Storage technology; database software
- Database management; communications and networks
- Computers and society, security, privacy, and ethics; presentation software

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Designation:
Elective