

Business Information Systems

TCSU IS 120

A. Description

Examination of information systems in business. Focus on information systems, database management systems, networking, e-commerce, ethics and security, computer systems hardware and software components. Application of these concepts and methods through hands-on projects developing computer-based solutions to business problems.

B. Recommended Preparation

Elementary knowledge of elementary computer operations, word processing, spreadsheets, e-mail, and Web browsing.

C. Prerequisites

None

D. Minimum Unit Requirement

3 semester units

E. Course Topics

(representing at least 80% of course coverage)

1. Information systems concepts
2. Communication and network concepts, systems, and applications
3. Internet usage; e-business systems
4. System hardware components and relationships
5. System and Application software programs and concepts
6. Information systems security, crime, and ethics
7. Organization and management of data (sorting, filtering) via spreadsheets and database tools
8. Practical exercises in spreadsheet development
9. Practical exercises in developing solutions using database software
10. Practical exercises in web page design and publishing

F. Student Learning Outcomes

Upon successful completion of the course, students will be able to:

1. Explain the concept of a network; identify hardware and software needed to create a network; compare and contrast wired vs. wireless networks; describe network security issues;
2. Describe the Internet and Internet services; describe the evolution of e-business and understand how to do business on the Internet; identify web development tools and authoring systems; create a simple web page using HTML; explain organizational implications of the pervasiveness of the Internet;

3. Understand the importance of the technology infrastructure in an organization; identify major hardware components of a computer system; explain how to evaluate hardware components and what to look for in acquiring computer hardware; understand the interdependence of hardware and software; compare open vs. proprietary platforms;
4. Describe distinctions between system software and application software; explain common functions of system software; identify types of application software; understand how to evaluate software when planning a system; compare open vs. proprietary software;
5. Describe ethical concerns associated with information systems including privacy, access, and accuracy; identify types of computer crime;
6. Use a spreadsheet software package to solve common business problems; demonstrate effective spreadsheet design through correct usage of formulas and functions including absolute vs. relative cell addressing; use financial, logical, date and statistical functions; use lists and data management functions; create appropriate charts and printed reports; work with multiple worksheets; and
7. Use a database software package to solve common business problems; design and build a database (define fields and properties, enter records); design and build simple forms, queries and reports.