Course Description

A comprehensive overview of the management of information systems and the combination of hardware, software, and people vital to the successful business operation. The strategic role of information systems is examined, as well as the characteristics of computer systems, software applications, programming languages, and relational databases.

Prerequisites

None

Course Textbook


Course Learning Objectives

Upon completion of this course, students should be able to:

1. Distinguish the key differences between data, information, and knowledge.
2. Distinguish the similarities and differences between the personal knowledge management tools.
3. Discuss capture and corroboration.
4. Examine the importance of organizing and securing information and knowledge.
5. Discuss the requirements for successful collaboration.
6. Compare and contrast explicit knowledge and tacit knowledge.
7. Analyze and explain circular vs. linear analysis.
9. Analyze the roles of timing and escalation in three-dimensional (3D) communication.
10. Assess the knowledge management analysis matrix.
11. Evaluate the approaches to developing organizational knowledge management strategies.

Credits

Upon completion of this course, the students will earn three (3) hours of college credit.

Course Topical Outline

Unit I: Introduction to Information Systems and Electronic Business Systems

Unit II: Information Technology: Computer Hardware and Computer Software

Unit III: Data Resource Management

Unit IV: Telecommunications, Networks, and the Internet
Unit V: E-Commerce

Unit VI: Decision Support and Artificial Intelligence

Unit VII: Implementing and Sustaining Systems, Managing Information Technology, and Planning, Analysis, and Design in Systems Development

Unit VIII: Management Challenges: Security, Ethics, Privacy, and Societal Effects

Course Structure

1. **Unit Learning Objectives**: Each unit contains learning objectives that specify the measurable skills and knowledge students should gain upon completion of the unit.
2. **Unit Power Point Presentation**: summarizes key issues in the assigned chapters and is supplemented with additional readings or Internet sources to provide broader subject matter application and professional relevance.
3. **Review Activities (non-graded)**: details are available in each course unit. Although these are non-graded assignments, practicing these activities will help you to master the topics covered, and therefore will help you to be better prepared for the Unit Assessment.
4. **Reading Assignments**: include approximately 1-4 textbook chapters in each course unit. PDF files of the assigned chapters are also linked within each reading assignment.
5. **Unit Assessments**: Students are required to take unit assessments at the completion of each unit.

Grading

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\begin{align*}
\text{Unit Assessments (8 @ 12.5\%)} & = 100\% \\
\text{Total} & = 100\%
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