



Business Information Systems

Course Summary:

In this course, the student is introduced to various information and communications technologies. The student will examine and explain how information systems are used to solve problems and make better business decisions.

Course Outline

- 1. Introduction to Business Information Systems (L)**
 - Relate data and information to the real world
 - Explain key parts of information systems
 - Explain the distinct pieces of an information system
 - Illustrate which types of decisions are made at different levels of an organization
- 2. The Business Process (L)**
 - Describe business process examples
 - Demonstrate how business processes are related to information systems
 - Analyze process models
 - Examine business process components in a real-world context
 - Summarize business process transformations
- 3. Organizational Strategy and Information Systems (L)**
 - Describe how organizational strategy determines the creation of information systems
 - Differentiate between the different categories in Porter's five forces model
 - Show how a company can apply Porter's generic strategies model
 - Show how a company can apply Porter's value chain model
- 4. Using IS for Competitive Advantage (L)**
 - Explain how a competitive advantage can be accomplished through the use of information systems
- 5. Database Concepts (L)**
 - Explain the purposes and benefits of databases and database management systems in business
 - Categorize different fields into the most appropriate data type
 - Analyze the distinction between a database and a database management system
 - Demonstrate the responsibilities of a database administrator in a real-world context
- 6. Data Collection (L)**
 - Explain the importance of collecting data for future decision-making
- 7. Information Systems Development (L)**
 - Outline considerations that must be made when a company undergoes systems development
 - Interpret real-world situations as specific aspects of the systems development life cycle
 - Determine which phase of the systems development life cycle a task belongs in
- 8. Alternative Systems Development Life Cycle (L)**

- Demonstrate how prototyping works in a real-world context
- Illustrate advantages and disadvantages of using object-oriented development
- Demonstrate the ideal situation for using rapid application development in a real-world context
- Explain the purpose of agile methods
- Demonstrate the ideal situation for using extreme programming in a real-world context

9. Enterprise Resource Planning (L)

- Explain the purpose of functional systems within an organization
- Identify types of functional systems
- Describe the advantages and disadvantages of a functional system
- Explain the purposes of cross-functional and cross-organizational systems
- Compare the advantages and disadvantages of various cross-functional and cross-organizational systems

10. Supply Chain Logistics (L)

- Demonstrate various aspects of supply chain management
- Describe the process by which supply chain management increases profitability
- Apply the four drivers of supply chain management to a real-world context

11. Computer Networks (L)

- Choose a method of computer communication most appropriate to a given context
- Apply computer communication and networking terms to a real-world context
- Distinguish between the various advantages and disadvantages present in different network topologies

12. Cloud Computing and Web 2.0 (L)

- Choose between the various implementations of cloud computing for different situations
- Identify the advantages of an organization adopting cloud computing
- Examine Web 2.0 and its general uses
- Determine the most appropriate use of Web 2.0 tools for organizations

13. Information Systems and E-Commerce (L)

- Choose between different e-commerce models to represent a situation
- Demonstrate how the Internet has affected commerce
- Determine the appropriate technological concept to apply to a given e-commerce situation

14. Information Systems Management and Ethics (L)

- Explain the importance of information systems management
- Analyze the role of the information technology department in information systems management
- Explain the importance of ethics in information systems
- Analyze various organizational approaches to managing ethics

15. Information Systems Threat and Security (L)

- Distinguish between and among unintentional and intentional threats to information systems
- Relate the ways in which an organization can secure its information system to the components of an information system

16. Data Backup and Disaster Recovery Plans (L)

- Explain the importance of backing up data
- Explain the purpose of a disaster recovery plan

17. Business Information Systems Course Review (L)

- Review lesson objectives
- Review key terms
- Review interactive presentations

- Utilize study guides
- Explore careers and academic requirements

18. Business Information Systems Final Portfolio (L)