CS123 Course Syllabus

Course Title
CS123 Introduction to Information Systems

Course Instructor
CS Division Faculty

Course Description
Information systems are an integral part of all business activities and careers. This course is designed to introduce students to contemporary information systems and demonstrate how these systems are used throughout global organizations. The focus of this course will be on the key components of information systems—people, software, hardware, data, and communication technologies—and how these components can be integrated and managed to create competitive advantage. Through the knowledge of how IS provides a competitive advantage students will gain an understanding of how information is used in organizations and how IT enables improvement in quality, speed, and agility. This course also provides an introduction to systems and development concepts, technology acquisition, and various types of application software that have become prevalent or are emerging in modern organizations and society.

Course Learning Outcomes
After completing this course:
• Students can explain how and why information systems are used today, and how information systems are enabling new forms of commerce between individuals, organizations, and governments.
• Students can identify the technology, people, and organizational components of information systems.
• Students can discuss globalization and the role information systems has played in this evolution.
• Students can compare how businesses are using information systems for competitive advantage versus competitive necessity.
• Students can determine value of information systems investments formulate a business case for a new information system, including estimation of both costs and benefits.
• Students can identify the major components of an information systems infrastructure.
• Students can analyze risks and create a plan to mitigate and recover from system failures.
• Students can describe the current and emerging technologies that enable new forms of communication, collaboration, and partnering.
• Students can classify various types of information systems by how they provide the information needed to gain business intelligence to support the decision making for the different levels and functions of the organization.
• Students can discuss how enterprise systems that foster stronger relationships with customers and suppliers and how these systems are widely used to enforce organizational structures and processes.
• Students can explain and contrast how organizations develop and acquire information systems and technologies.
• Students can plan how to secure information systems resources, focusing on both human and technological safeguards.

Course Schedule Outline
• Week 1: Introductions; about information systems
• Week 2: Information system components
• Week 3: Data management
• Week 4: Networks, telecommunications
• Week 5: Business information systems
• Week 6: Support systems
• Week 7: Specialized information systems
• Week 8: Development and acquisition of information systems
• Week 9: Societal impact of information systems

Course Textbook

Course Policies
Contact your instructor for course policies regarding attendance, grading, academic integrity, technology use, and special accommodations.