THOMPSON RIVERS UNIVERSITY

Course Outline

Department of Management
School of Business and Economics

MIST 2610-3
Management Information Systems (3,0,2)

Calendar Description

Students acquire the basic knowledge and skills needed to effectively utilize information systems and technology in support of organizational strategy. Topics include an introduction to information systems; information systems strategy; ethics, privacy and policy; data security; data and knowledge management; networks and communications technologies; wireless and mobile computing; wireless and mobile computing; e-business and e-commerce; Web 1.0, 2.0, 3.0 and social networks; systems development and managing information systems projects; and personal productivity software including word processing, spread sheet, and presentation software.

Educational Objectives/Outcomes

Upon completing this course, students will be able to:

1. Explain essential information system building blocks, including hardware, software, databases, and data communication.
2. Describe specific ways information systems provide competitive advantage to entrepreneurs, professionals and managers including; supporting business processes, enabling e-commerce, Web 2.0, and providing business intelligence.
3. Critique managerial issues surrounding information systems, including how to develop systems correctly and efficiently, how to manage technology and system resources, and how to protect and secure information systems and data.
4. Discuss emerging information systems and technology innovations and their impact on organizations and individuals.
5. Summarize various frameworks to model the strategic role and social impacts of information systems on an organization and individuals.
6. Apply contemporary information and communication software tools in business settings, including the impact of mobile technologies, presentation and spreadsheet tools.

Prerequisites

ENGL 1100

Note: Students cannot receive credit for more than one of BBUS 1370, BBUS 2370, COMP 1000, COMP 1350, COMP 1700, or COMP 1910.

Co-requisites

None

Texts/Materials

Chapters from various books in the Safari electronic library of ebooks

Student Evaluation

Quizzes	20-30%
Lab assignment: Microsoft PowerPoint	3-5%
Lab assignment: Microsoft Word	3-5%
Lab assignments: Microsoft Excel (5)	15-25%
Lab and lecture final exam	40%
Students must pass the final exam to pass the course.	

Course Topics

1. Introduction to Information Systems
   - How they add value to organizations
   - Difference between data
   - Information and knowledge and the components of an information system
   - Role that each component plays in adding value

2. Information Systems Strategy
   - Difference between management information systems (MIS) and information technology (IT)
   - Relationships between people
   - Information technology and information
   - Importance of information systems and technology to the Canadian and global economy

3. Ethics, Privacy and Policy
   - Importance and difference between various e-policies such as ethical computer use and acceptable use
   - E-mail and Internet use
   - Laws surrounding software piracy, freedom of information, protection of privacy (PIPEDA) and the various types of fair use
   - intellectual property

4. Data Security
   - Identification and protection from spyware, adware, viruses, phishing
   - How public key encryption and firewalls provide security

5. Data and Knowledge Management
   - How bytes, fields, records, tables, primary keys, foreign keys and meta-data work together in a relational database
   - Comparison of cloud versus traditional computing
   - How “Big Data” can be used to achieve competitive advantage

6. Networks and Communication Technologies
   - Peer-to-peer (P2P), client-server and virtual private networks
   - Ethernet, TCP/IP, VOIP, Wireless 802.11 and Bluetooth communication protocols

7. Wireless and Mobile Computing
   - Differentiating mobile technologies such as RFID, GPS, GSM, CDMA, 3G, WiFi and WiMax
   - Process of creating an Android or IOS mobile application

8. E-business and E-commerce
   - Google adwords, customer relationship management
   - Various categories of electronic commerce such as B2C, B2B, G2B
   - How electronic payments and mobile commerce work

9. Web 1.0, 2.0, 3.0 and Social Networks
   - Identification of the various technologies used to access the internet such as HTTP, HTML, XML
   - How social networking is one of the "double-edged swords" of technology

10. Systems Development and Managing Information Systems Projects
    - Change management, system development lifecycle and other software development methodologies

11. Computers at Work, School and Home Today and Tomorrow
    - Exploring the digital divide
    - Unhealthy issues surrounding our increased dependence on technology
    - Identification of future trends in computer-assisted disability management, education and pervasive computing

12. Personal Productivity Software
    - Word processing
    - Presentation
    - Spread sheets

Methods for Prior Learning Assessment and Recognition

As per TRU policy

Attendance Requirements – Include if different from TRU Policy

As per TRU policy

Special Course Activities – Optional

Use of Technology – Optional