CITA/MINS 300
Management Information Systems

Prepared by: Charles Fenner
Revised by Eric Cheng

A. **TITLE:** Management Information Systems

B. **COURSE NUMBER:** CITA/MINS 300
C. **CREDIT HOURS:** 3 credit hours

D. **WRITING INTENSIVE COURSE (OPTIONAL):** N/A

E. **COURSE LENGTH:** 15 weeks

F. **SEMESTER(S) OFFERED:** Fall/Spring

G. **HOURS OF LECTURE, LABORATORY, RECITATION, TUTORIAL, ACTIVITY:**
   3-hour lectures per week

H. **CATALOGUE DESCRIPTION:**
   Students learn the concepts underlying the design, implementation, control, evaluation, and strategic use of modern, computer-based information systems for business data processing, office automation, information reporting, decision-making, and electronic commerce. The major emphasis of the course will be on the managerial and strategic aspects of information technology.

I. **PRE-REQUISITES/CO-COURSES:**
   Introduction to Business and 45 semester hours completed or permission of the instructor.

J. **GOALS (STUDENT LEARNING OUTCOMES):**

   By the end of this course, the student will be able to:

<table>
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<tr>
<th>Course Objective</th>
<th>Institutional SLO</th>
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<tr>
<td>a. Illustrate how information systems can give businesses a competitive advantage</td>
<td>2. Crit. Thinking</td>
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<tr>
<td>b. Analyze how information technology supports management supply chains</td>
<td>2. Crit. Thinking</td>
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<td>c. Categorize computers into major categories and identify their strengths and weaknesses</td>
<td>2. Crit. Thinking</td>
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<td>d. Describe the ways in which computers are and will be used in business and management.</td>
<td>2. Crit. Thinking</td>
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<tr>
<td>e. Identify and suggest appropriate responses to managerial and organizational issues stemming from development, implementation, and use of computer-based information systems.</td>
<td>1. Communications 2. Crit. Thinking 3. Prof. Competence</td>
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<tr>
<td>f. Evaluate the major social and ethical issues on the development and use of information technology.</td>
<td>2. Crit. Thinking</td>
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K. **TEXTS:**

L. REFERENCES:


M. EQUIPMENT: Technology Enhanced Classroom

N. GRADING METHOD: Standard A-F grading

O. MEASUREMENT CRITERIA/METHODS:

Essays, quizzes, tests.

P. DETAILED TOPICAL OUTLINE: See attached sheet

Q. LABORATORY OUTLINE: N/A
DETAILED TOPIC OUTLINE

MINS 300 Management Information Systems

TOPICS

I. The Information Age

A. Overview of Business Information Systems
   1. Purpose
   2. Data v. Information
   3. Types of Information Systems
   4. Uses of Information Systems
   5. Careers In Information Systems
B. Information Systems Strategy
   1. Competitive Advantage
   2. Creating and Maintaining Management Information Systems
C. Business Functions and Information Systems
   1. Finance
   2. Supply Chain Management
   3. Customer Relationship Management

II. Information Technology

A. Hardware
   1. Classification
   2. Input Devices
   3. Output Devices
   4. Storage Media
B. Software
   1. Programming Languages and Developing Tools
   2. Application Software
   3. System Software
   4. Open Source Software
C. Databases and Data Warehouses
   1. Database Models
   2. Relational Operations

III. Web Enabled Commerce
A. Web Enabled Enterprise
   1. Web Businesses
   2. Web Technologies
   3. Web Sites
B. Global Information Systems
1. International Commerce
2. Challenges

IV. Decision Support Systems and Intelligence
A. Decision Support Systems
   1. Decision Processes
   2. Structured and Unstructured Problems
   3. Expert Systems
   4. Geographic Information Systems
B. Business Intelligence
   1. Data Mining
   2. Knowledge Management

V. Planning, Acquisition and Controls
A. Planning
   1. Planning Information Systems
   2. Systems Development Cycle
   3. Systems Integration
B. System Acquisition
   1. Options
   2. Outsourcing
   3. Licensing
C. System Risk and System Security
   1. Risks to Information Systems
   2. Risks to Online Operations
   3. Security Measures
   4. Recovery Measures