CITA/MINS 425

Enterprise Resource Planning

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Revised by Eric Cheng

CANINO SCHOOL OF ENGINEERING TECHNOLOGY
DEPARTMENT OF COMPUTER INFORMATION SYSTEMS
May 2015

A. **TITLE:** Enterprise Resource Planning

B. **COURSE NUMBER:** CITA/MINS 425
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**: This course provides information systems tools to ensure a comprehensive resource planning system for all functions of businesses. The course will discuss the development and employment of enterprise resource planning for marketing, accounting, supply chain management, and human resources. Content will focus on practical applications of enterprise resource planning to ensure businesses get the greatest returns on information systems investment.

I. **PRE-REQUISITES/CO-COURSES**: MINS 300 — Management Information Systems 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>
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<tr>
<td>a. Define different functions of a business</td>
<td>2. Crit. Thinking</td>
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<td>b. Identify factors that lead to the development of Enterprise Resource Planning (ERP) systems.</td>
<td>2. Crit. Thinking</td>
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<td>c. Summarize the pros and cons of implementing an ERP system</td>
<td>2. Crit. Thinking</td>
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<td>d. Explain why non-integrated Sales and Marketing information systems lead to company-wide inefficiency, higher costs, lost profits, and customer dissatisfaction</td>
<td>2. Crit. Thinking</td>
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<td>e. Analyze how a structured process for production and materials management planning enhances efficiency and decision making</td>
<td>2. Crit. Thinking, 3. Prof. Competence</td>
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<td>f. Evaluate how production planning data in an ERP system can be shared with suppliers to increase supply-chain efficiency.</td>
<td>2. Crit. Thinking, 3. Prof. Competence</td>
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<td>g. Discuss the key issues in managing an ERP implementation project</td>
<td>2. Crit. Thinking</td>
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<tr>
<td>h. Explain why ERP is essential to the success of a company engaged in e-commerce</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, exams.

P. **DETAILED TOPICAL OUTLINE:** See attached sheet

Q. **LABORATORY OUTLINE:** N/A
DETAILED TOPIC OUTLINE

MINS 425 Enterprise Resource Planning

TOPICS

I. Data and Business

A. The Functions of Business
   1. Marketing and Sales
   2. Supply Chain Management
   3. Accounting and Finance
   4. Human Resources

B. Fundamentals of an Enterprise Resource Planning System
   1. Hardware
   2. Software
   3. Evolution of the ERP

II. ERP and the Functions of Business

A. ERP and Marketing and Sales
   1. Sales and Distribution
   2. Order Processing
   3. Customer Relationship Management
   4. Sales and Operations Planning

B. ERP and Supply Chain Management
   1. Production Planning
   2. Materials Requirements Planning
   3. Scheduling
   4. ERP and Suppliers

C. ERP and Accounting
   1. Credit Management
   2. Profitability and Financial Analysis
   3. Sarbanes-Oxley Effects
   4. Management Reporting

D. ERP and Human Resources
   1. Recruiting, Interviewing, and Hiring
   2. HR Functions and ERP
   3. Payroll and ERP

III. ERP and the Future

A. Processes
   1. Process Models
   2. Process Improvement

B. E-Commerce
1. Applications
2. Services