

**STATE UNIVERSITY OF NEW YORK %
COLLEGE OF TECHNOLOGY %
CANTON, NEW YORK %**



MASTER SYLLABUS

CITA/MINS 425– ENTERPRISE RESOURCE PLANNING

**Created by: Charles Fenner
Updated by: Eric Cheng**

**Canino School of Engineering Technology %
Department of Decision & Graphic Media Systems %
Fall/2018 %**

A. % **TITLE:** Enterprise Resource Planning

B. % **COURSE NUMBER:** CITA/MINS 425

C. % **CREDIT HOURS:** (Hours of Lecture, Laboratory, Recitation, Tutorial, Activity)

Credit Hours: 3 !

Lecture Hours: 3 per week %

Lab Hours: per week %

Other: per week

Course Length: 15 Weeks

D. **WRITING INTENSIVE COURSE:** No

E. **GER CATEGORY:** No

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

G. **COURSE 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.

H. % **PRE-REQUISITES/CO-REQUISITES:**

a. Pre-requisite(s): CITA/MINS 300 Management Information Systems

b. Co-requisite(s): None

I. % **STUDENT LEARNING OUTCOMES:**

<u>Course Student Learning Outcome [SLO]</u>	<u>PSLO</u>	<u>GER</u>	<u>ISLO</u>
a. Define different functions of a business	2. Identify issues and collaborate on solutions concerning IT in an effective and professional manner		2 [CA]
b. Identify factors that lead to the development of Enterprise Resource Planning (ERP) systems.	3. Demonstrate a solid understanding of the methodologies and foundations of IT		2 [CA]
c. Summarize the pros and cons of implementing an ERP system	3. Demonstrate a solid understanding of the methodologies and foundations of IT		2 [CA]
d. Explain why non-integrated Sales and Marketing information systems lead to company-wide inefficiency,	3. Demonstrate a solid understanding of the methodologies and foundations of IT		2 [CA]

higher costs, lost profits, and customer dissatisfaction			
e. Analyze how a structured process for production and materials management planning enhances efficiency and decision making	3. Demonstrate a solid understanding of the methodologies and foundations of IT		2 [CA] 5
f. Evaluate how production planning data in an ERP system can be shared with suppliers to increase supply-chain efficiency.	3. Demonstrate a solid understanding of the methodologies and foundations of IT		2 [CA] 5
g. Discuss the key issues in managing an ERP implementation project	2. Identify issues and collaborate on solutions concerning IT in an effective and professional manner 3. Demonstrate a solid understanding of the methodologies and foundations of IT		2 [CA]
h. Explain why ERP is essential to the success of a company engaged in e-commerce	3. Demonstrate a solid understanding of the methodologies and foundations of IT		2 [CA]

KEY	<u>Institutional Student Learning Outcomes [ISLO 1 – 5]</u>
ISLO #	ISLO & Subsets
1	Communication Skills Oral [O], Written [W]
2	Critical Thinking <i>Critical Analysis [CA], Inquiry & Analysis [IA], Problem Solving [PS]</i>
3	Foundational Skills <i>Information Management [IM], Quantitative Lit./Reasoning [QTR]</i>
4	Social Responsibility <i>Ethical Reasoning [ER], Global Learning [GL], Intercultural Knowledge [IK], Teamwork [T]</i>
5	Industry, Professional, Discipline Specific Knowledge and Skills

J. **APPLIED LEARNING COMPONENT:** Yes _____ No _____

K. **TEXTS:**

Monk, E and Wagner, B. (2012). Concepts in Enterprise Resource Planning, 4th Ed. Cengage publishing.

- L. **REFERENCES:** None
- M. **EQUIPMENT:** Technology Enhanced Classroom
- N. **GRADING METHOD:** Standard A-F grading
- O. **SUGGESTED MEASUREMENT CRITERIA/METHODS:**

Essays, quizzes, exams.

P. **DETAILED COURSE OUTLINE:**

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

- Q. **LABORATORY OUTLINE:** Not applicable