

Spring 2025 CIS 300/CIS 562 Enterprise Architecture

Instructor

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Class Recording Post

Monday & Wednesday

Online Asynchronous

Academic Intellectual integrity is the most fundamental value of an academic community. Students and faculty alike are expected to uphold the highest standards of honesty and integrity in their scholarship. No departure from the highest standards of intellectual integrity, whether by cheating, plagiarism, fabrication, falsification, or aiding and abetting dishonesty by another person, can be tolerated in a community of scholars. **Such transgressions may result in action ranging from reduced grade or failure of a course, to expulsion from the University or revocation of degree.**

Instructor's Perspective:

This course provides an overview of enterprise systems and supply chain business processes, and introduces students to how enterprise systems are used to manage supply chains and make effective business decisions. The course is organized in 3 modules:

- Module 1: Overview of Enterprise Systems and Supply Chain Business Processes
- Module 2: Managing the Implementation of Enterprise Systems
- Module 3: Enterprise-Architecture Methodologies

Module 1: Overview of Enterprise Systems and Supply Chain Business Processes

The course begins with an overview of business processes across the supply chain, then shows how integrated processes create value, and demonstrates how these processes look in enterprise systems. The sales order-to-cash process and purchase-to-payment process will be covered. An introduction to Customer Relationship Management (CRM) systems will be provided.

Module 2: Managing the Implementation of Enterprise Systems

Implementation of an enterprise system or just upgrading one module of an existing information system, many students will be involved with implementing an enterprise system at some point in

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their career. Poorly planned and executed system implementations have shutdown companies for days. On the other hand, significant competitive advantage can be gained when systems enable business processes that differentiate a company. Best practices in ERP project methodology and pitfalls to avoid will be covered through several case studies and lecture.

Module 3: Enterprise-Architecture Methodologies

Twenty years ago, a new field was born that soon came to be known as enterprise architecture. Teams of students will compete in comparison between the different Enterprise-Architecture Methodologies:

- The Zachman Framework
- The Open Group Architecture Framework (TOGAF)
- Federal Enterprise Architecture (FEA)
- Gartner
- Others

Course Objective & Learning Outcomes:

The UM faculty believes that by the time you finish this course, the course should be able:

- To build an understanding of the fundamental business processes used to run companies with a focus on supply chain processes, (e.g., purchase-to-pay, order-to-cash).
- To provide an overview of enterprise systems including their business purpose, typical modules, historical evolution, and challenges experienced in industry.
- To provide exposure to a live ERP system, achieving an intermediate level of comfort ERP enterprise software.
- To learn how to manage the supply chain of a company using an ERP system.
- To learn how to effectively analyze information from an ERP system to make business decisions.
- To gain an understanding and appreciation of the importance that leading people and managing change plays in the success of ERP implementations.
- To prepare students for career opportunities in industry.
- To differentiate between the current Enterprise Architectures and compare between them.

Course Components

- Enterprise Systems (ES) and Enterprise Resource Planning Systems (ERP)
- Material Planning Solutions
- Modules and components of enterprise systems
- Enterprise systems from a process perspective
- Choice and implementation of enterprise systems
- Business development support by enterprise systems
- Logistics and enterprise systems
- Enterprise systems and electronic commerce
- Supply chain management (SCM) and customer relations management (CRM)

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Textbook: Although no textbook is “required” for this class, students may find the following useful:

Enterprise Systems for Management, 2/E Luvai Motiwalla Jeffrey Thompson ISBN-10: 0132145766 o ISBN-13: 9780132145763 ©2012 o Prentice Hall

Evaluation:

The grading will be based on homework, one exams and final projects.

- Homework 25%
- Discussion and participant 20%
- Mid-term 25%
- Final Project 30%

Grading: A tentative grading scale is as follows:

Grade	Score	Grade	Score	Grade	Score	Grade	Score
A+	97 and up	B+	87-89	C+	77-79	D+	65-68
A	94-96	B	83-86	C	72-76	D	60-64
A-	90-93	B-	80-82	C-	69-71	F(Failed)	0-59

Workload: The course will appear deceptively simple but history shows that it is possible to get a variety of grades. The course also moves at a fast pace and the workload is generally high!

Attendance: The class is online, but the instructor will track the students if they watch the class. Please make your arrangements to watch all of the classes when the instructor uploads them.

Academic Misconduct: Copying others work, plagiarizing external references without giving due credit, and cheating in exams are strictly forbidden. Please take pride in your own work, and feel free to ask me if you need help or assistance to maximize your learning.

Cheating: Don’t cheat. We know that there are ways to cheat on this course. If we suspect you of cheating then we reserve the right to give you a 0.

Late Assignment: No late assignment will be accepted without contacting the instructor prior to the due date.

Important Dates:

- Midterm : May 21, 2025

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“Any student who feels s/he may need an accommodation based on the impact of a disability should contact me privately to discuss your specific needs and provide written documentation from Counseling, Accessibility, and Psychological Services (CAPS). If you are not yet registered as a student with a disability, please contact the CAPS Office”

COUNSELING, ACCESSIBILITY, AND PSYCHOLOGICAL SERVICES (CAPS)

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The Instructor reserves the right to modify any aspect of this syllabus or content. Any changes will be communicated to the students in advance.

Updated May 01, 2025

Course Schedule (Note: Subject to Change)

<i>Class</i>	<i>Date(s)</i>	<i>Topics/Readings</i>	<i>Learning Outcome</i>
1	May 5	Course Overview & Syllabus Canvas	
2	May 7	Introduction to Enterprise Systems for Management	1
3	May 12	Information Systems in the Enterprise	2
4	May 14	System Integration	3
5	May 19	Enterprise System Architecture	4
6	May 21	Midterm Exam	
7	May 26	Memorial Day (Holiday)	
8	May 28	Development Life Cycle	5
9	June 2	Implementation Strategies	6
10	Jun 4	Software and Vendor Selection	6
11	June 9	Program and Project Management	7
12	June 11	Global, Ethics, and Security Management	8
13	June 16	Final Project Presentation	
14	June 18	Final Project Presentation	