



Information Systems Department

Course Syllabus

IS410 Enterprise Architecture

Catalog Description: This course explores the design, selection, implementation and management of enterprise IT solutions. The focus is on applications and infrastructure and their fit with the business. Students learn frameworks and strategies for infrastructure management, system administration, data/information architecture, content management, distributed computing, middleware, legacy system integration, system consolidation, software selection, total cost of ownership calculation, IT investment analysis, and emerging technologies. These topics are addressed both within and beyond the organization, with attention paid to managing risk and security within audit and compliance standards.

Credit Hours: 3 Credit hours: 3 Lectures per week 0 Labs. per week 0 Recitation per week

Prerequisites: IS 332

Course Learning Outcomes:

1. Describe a variety of frameworks for enterprise architecture analysis and decision making
2. Define the core concepts of data/information architecture and evaluate existing data/information architecture designs
3. Describe the benefits and risks of service oriented architecture
4. Describe the integration of enterprise systems with interorganizational partners such as suppliers, government, etc.
5. Evaluate the total cost of ownership and return on investment for architecture alternatives
6. Use techniques for assessing and managing risk across the portfolio of the enterprise
7. Evaluate and plan for the integration of emerging technologies
8. Plan for business continuity
9. Work effectively in groups and exercise leadership when appropriate
10. Communicate effectively in oral and written form

Major Topics:

- Introduction to Enterprise Architecture
- Different Frameworks and Perspectives
- Fundamentals Topics related to Planning
- Building and Maintaining Enterprise Architecture
- Enterprise Modeling, Data Modeling
- IT Modeling and Architecture
- Enterprise Architecture Documentation Process



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- Management of Risk and Security Issues.
 - Project Discussions

Text Books:

- An Introduction To Enterprise Architecture: Third Edition Paperback – August 13, 2012, by Scott A. Bernard, ISBN-10: 1477258000, ISBN-13: 978-1477258002



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Grading:

- The grading scale for this course is:
 - 95 - 100 A+ Passing
 - 90 - 94 A Passing
 - 85 - 89 B+ Passing
 - 80 - 84 B Passing
 - 75 - 79 C+ Passing
 - 70 - 74 C Passing
 - 65 - 69 D+ Passing
 - 60 - 64 D Passing
 - 0 - 59 F Failing
- Final grades will be determined based on the following components:
 - . 60% Semester Work
 - . 40% Final Exam
- Students may not do any additional work for extra credit nor resubmit any graded activity to raise a final grade.
- Late submissions will not be accepted for any graded activity for any reason.
- Students have one week to request the re-grading of any semester work.

Attendance Policy:

Students should attend 80% of the overall course hours taught in the semester as per the University regulations.

If a student fails to achieve this portion, he/she shall not be allowed to appear in the final exam and shall be awarded "DN" grade and repeat the course.

Cheating and Plagiarism Policy:

The instructor will use several manual and automated means to detect cheating and/or plagiarism in any work submitted by students for this course.

When a student is suspected of cheating or plagiarism, the instructor raises the issue to the disciplinary committee.



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Communications: Registered students will be given access to a section of the Learning Management System (LMS) for this course. LMS will be used as the primary mechanism to disseminate course information, including announcements, lecture slides, assignments, and grades.

Communication with the instructor on issues relating to the individual student should be conducted using CIS email, via telephone, or in person.