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| carey | **Applied IS Enterprise Architecture**  2 Credits  BU.330.790.XX  [**NOTE:** Each section must have a separate syllabus.]  [Day &Time / ex: Monday, 6pm-9pm]  [Start & End Dates / ex: 8/20/18–10/15/18]  [Semester / ex: Fall 2018]  [Location / ex: Washington, DC] |

**Instructor**

[Full Name]

**Contact Information**

[Email Address]

[Phone Number, ###- ###-#### (Optional)]

**Office Hours**

[Specify the day and time of the 2 hours that will be dedicated to office hours each week. For evening classes, faculty may wish to hold their office hours by phone or email. While faculty are permitted to state “and by appointment,” office hours should not be held *exclusively* by appointment.]

**Required Texts & Learning Materials**

Minoli, D. (2008). *Enterprise architecture A to Z: Frameworks, business process modeling, SOA and infrastructure technology.* Boca Raton, FL: CRC Press.

Additional articles and materials may be posted on Blackboard for review and discussion.

**Course Description**

This course provides students with an integration over prior learning and an application of IS principles and practices in a challenging setting of a significant case or real organization. Within this project-based context, students investigate contemporary information systems and technology architectures that constitute operational and productivity platforms for modern enterprises.

**Prerequisite(s)**

BU.330.705

**Course Overview:**

In today’s netcentric environment, computer networks and computer systems are necessary for practically anything and everything we do. Information technology infrastructures are at the core of all business. In today’s technological corporation, properly planned, initiated, operated, and managed infrastructures are critical for success. This course will provide the foundational content necessary to understand the major concepts behind these enterprise architectures. *The emphasis in this course will be on thinking and problem solving rather than on repeating known facts.*

# Learning Objectives

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

1. Prepare assessments of IS architecture for their potential effects on organizations.
2. Understand IS architecture tools and foundations.
3. Analyze and interpret IS diagrams as depictions of organizational infrastructure and functionality.
4. Develop an approach for an organization to benefit from IS enterprises.
5. Work effectively in a team environment to apply IS enterprise architecture models and frameworks to organizations and industries.

To view the complete list of Carey Business School’s general learning goals and objectives, visit the [Carey website](http://carey.jhu.edu/faculty-research/teaching-learning-at-carey/learning-assessment/).

**Attendance**

Students are expected to attend all scheduled class sessions. Each class will include opportunities for teams to work together. Failure to attend class will result in an inability to achieve the objectives of the course. Excessive absence will result in loss of points for team participation. Full attendance and active participation are required for you to succeed in this course.

# Assignments

| **Assignment** | **Weight** |
| --- | --- |
| Class Attendance, Questions, and Discussions | 10% (1.25% per class meeting) |
| Midterm Exam | 10% |
| Final Exam | 30% |
| Real World Corporate Project (Capstone level) | 50% |
| Total | 100% |

*Midterm Exam*

The midterm will cover all topics covered up until the date of the exam (lectures, textbook, class discussions, materials posted). The midterm exam is scheduled on **Meeting 4.**

*Final Exam*

The final exam will cover all topics discussed after the midterm (lectures, textbook, class discussions, materials posted). The final exam is scheduled on the **Final Meeting.**

*Team Project*

Students will demonstrate their mastery of methodologies and techniques learned by developing and completing an entire project stage by stage. Shortly after the start of the course, students will be divided into teams and will develop a project proposal, which will be submitted to the instructor for approval.

Once a team’s project has been approved, students will submit specifics every week. Each deliverable will mirror a requirement seen in a real-world project environment.

Work on the team project will begin the first day of class. A project notebook with copies of all original and corrected deliverables is due on the **Final Meeting**.

**Grading**

The grade of A is reserved for those who demonstrate extraordinarily excellent performance as determined by the instructor. The grade of A- is awarded only for excellent performance. The grades of B+, B, and B- are awarded for good performance. The grades of C+, C, and C- are awarded for adequate but substandard performance. The grades of D+, D, and D- are not awarded at the graduate level (undergraduate only). The grade of F indicates the student’s failure to satisfactorily complete the course work.

Please note that for **Core** and **Foundation** courses, a maximum of 25% of students may be awarded an A or A-; the grade point average of the class should not exceed 3.3. For **Elective** courses, a maximum of 35% of students may be awarded an A or A-; the grade point average of the class should not exceed 3.4. (For classes with 15 students or fewer, the class GPA cap is waived.)

# Tentative Course Calendar

Instructors reserve the right to alter course content and/or adjust the pace to accommodate class progress. Students are responsible for keeping up with all adjustments to the course calendar.

| **Week** | **Topic** | **Reading** | **Team Project/Deliverables** |
| --- | --- | --- | --- |
| 1 | Introductions  Syllabus Review  Introduction: Requirements Development and Analysis Enterprise Architecture and Technology Trends | Handout  Chapter 1 | Review Team Project Guidelines  Form Project Teams  Teams Discuss Potential Project Ideas |
| 2 | Practicum 1 (Topic)  Enterprise Architecture Goals, Roles, and Mechanisms  The open group Architectural Framework | Handouts  Capability Maturity Model Integration (CMMI)  Chapters 2, 3 | Team Project Ideas with Instructor and Get Final Approval |
| 3 | Practicum 2 (Requirements development)  Zachman Architectural Framework Official Enterprise Architecture Standards | Handouts  Chapters 4, 5 | Projects Topics and Definition Presentation |
| 4 | Midterm Exam (Chapters 1–5)  Enterprise Architecture Tools  Zachman Architecture (continued) | Handouts  Business Process Modeling (BPM)  Chapter 6 |  |
| 5 | Practicum 3 (Zachman mapping & CMMI)  Business Process Modeling  Architecture Fulfillment via Service-Oriented Architecture Modeling | Handouts  Chapters 7, 8 | Project Review Presentation |
| 6 | Zachman Architecture (continued)  The Infrastructure Enterprise Grid Performance Analysis | Handouts  Chapters 9, 10 |  |
| 7 | Practicum 4 (Presentation)  Networking in Service Orientated Architecture (SOA) Environments  IS Enterprise Performance: Capacity Analysis Server/Storage a Grid Computing for Commercial Enterprise Environments | Handouts  Chapters 11, 12 | Final Project Presentations |
| 8 | Final Exam (Chapters 6–12)  Project Notebook | None |  |

**Carey Business School Policies and General Information**

**Blackboard Site**

A Blackboard course site is set up for this course. Each student is expected to check the site throughout the semester as Blackboard will be the primary venue for outside classroom communications between the instructors and the students. Students can access the course site at <https://blackboard.jhu.edu>. Support for Blackboard is available at 1-866-669-6138.

**Disability Support Services**

All students with disabilities who require accommodations for this course should contact Disability Support Services at their earliest convenience to discuss their specific needs. If you have a documented disability, you must be registered with Disability Support Services ([carey.disability@jhu.edu](mailto:carey.disability@jhu.edu) or 410-234-9243) to receive accommodations. For more information, please visit the [Disability Support Services webpage](http://carey.jhu.edu/life-at-carey/student-resources/disability-services).

**Academic Ethics Policy**

Carey expects graduates to be innovative business leaders and exemplary global citizens. The Carey community believes that honesty, integrity, and community responsibility are qualities inherent in an exemplary citizen. The objective of the Academic Ethics Policy (AEP) is to create an environment of trust and respect among all members of the Carey academic community and hold Carey students accountable to the highest standards of academic integrity and excellence.

It is the responsibility of every Carey student, faculty member, and staff member to familiarize themselves with the AEP and its procedures. Failure to become acquainted with this information will not excuse any student, faculty, or staff from the responsibility to abide by the AEP. Please contact the [Student Services office](mailto:carey.student@jhu.edu) if you have any questions. For the full policy, please visit the [Academic Ethics Policy webpage](http://carey.jhu.edu/ethics-policy).

**Student Conduct Code**

The fundamental purpose of the Johns Hopkins University’s regulation of student conduct is to promote and to protect the health, safety, welfare, property, and rights of all members of the University community as well as to promote the orderly operation of the University and to safeguard its property and facilities. As members of the University community, students accept certain responsibilities which support the educational mission and create an environment in which all students are afforded the same opportunity to succeed academically. Please contact the [Student Services office](mailto:carey.student@jhu.edu) if you have any questions. For the full policy, please visit the [Student Conduct Code webpage](https://studentaffairs.jhu.edu/policies/student-code/).

**Student Success Center**

The Student Success Center offers free online and in-person one-on-one and group coaching in writing, presenting, and quantitative courses. For more information on these services and others, or to book an appointment, please visit the [Student Success Center website](http://carey.jhu.edu/life-at-carey/student-development/academic-support/student-success-center/).

**Other Important Policies and Services**

Students are encouraged to consult the [Student Handbook and Academic Catalog](http://carey.jhu.edu/life-at-carey/student-resources/student-handbook-and-academic-catalog/) and [Student Services and Resources](http://carey.jhu.edu/life-at-carey/student-resources/) for information regarding other policies and services.

**Copyright Statement**

Unless explicitly allowed by the instructor, course materials, class discussions, and examinations are created for and expected to be used by class participants only. The recording and rebroadcasting of such material, by any means, is forbidden. Violations are subject to sanctions under the [Academic Ethics Policy](http://carey.jhu.edu/ethics-policy).