



MET CS 783 EL Section B1 (Tuesdays) – Spring 2017

Course Syllabus – Enterprise Architecture

Instructor: Marcia M. Nizzari (email: nizzari@bu.edu)

Textbooks:

- **Enterprise Architecture as Strategy** by Jeanne W. Ross, Peter Weill, and David C. Robertson, Harvard Business Press 2006. ISBN: 978-1-59139-839-4. (This textbook can be purchased from Barnes and Noble at Boston University. Text is abbreviated as “EAAS” below.)
- **Software Architecture Patterns** by Mark Richards, O’Reilly Media Inc., 2015. (This book is a free PDF download from the O’Reilly website: <http://www.oreilly.com/programming/free/files/software-architecture-patterns.pdf>)

Note that this is a “flipped classroom” course. Significant class time will be devoted to in-class workshops conducted in small groups. Lectures may be assigned as homework reading if there is not sufficient time to cover all lectures in class.

Class Meetings	Topics	Reading Assignments	Assignments
Jan 24 (e-Live students on campus)	<u>Introduction to Enterprise Architecture, to CS783 course objectives</u> Discuss Term Project & Assignments	EAAS: Preface, pp. vii – xi EAAS: Chapter 1 EAAS: Chapter 2 <i>Blackboard – read Module 1 content</i>	<i>Review Module 0 in Blackboard course; review syllabus; create your personal schedule for the course</i> <i>Think about what you want to do for the Term Project</i>
Jan 31	<u>Intro to EA, continued:</u> The three themes of our course and textbook; the Core Diagram and business operating models Review of system architecture, time permitting	EAAS: Chapter 3	
Feb 7	<u>EA Methodology:</u> Methods and EA frameworks, enterprise agile <u>IT Governance</u> – security & compliance	EAAS: Chapter 4 <i>Blackboard – read Module 2 content</i>	All due by 6am Tuesday morning: Assignment 1 due Quiz #1 Term Project Deliverable #1 due



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Feb 14	<u>Migrating Legacy Systems: A Key EA Challenge</u> <u>Communicating Technical Information to the Non-technical</u>	EAAS: Chapter 5	
Feb 21	<u>NO CLASS – Monday schedule substituted</u>		<i>(Work on Term Projects and Assignment 2)</i>
Feb 28 (e-Live students on campus)	<u>IT Engagement Model</u> On-campus workshop (most of class period) – required attendance	EAAS: Chapter 6 Read introduction and chapters 1&2 in Richards textbook <i>Blackboard: read Module 3 content</i>	All due by 6am Tuesday morning: Assignment #2 Quiz #2 Term Project Deliverable #2
Mar 7	<u>NO CLASS – SPRING BREAK</u>		
Mar 21	<u>EA Implementation Technologies: SOA and RESTful in the enterprise</u> <u>Architecture Maturity Models</u> <u>Virtualization and Cloud Basics</u>	EAAS: Chapter 7	
Mar 28 (e-Live students on campus)	On-campus workshop (entire class period) – required attendance		All due by 6am Tuesday morning: Assignment #3 due Quiz #3 Term Project Deliverable #3 due
Apr 4	<u>System Integration & Linking Technologies</u> <u>Big Data Analytics</u> <u>ERP Systems</u>	EAAS: Chapter 8 Read Richards chapters 3 & 4 <i>Blackboard: read Module 4 content</i>	
Apr 11	<u>New topics in EA: BYOD, Integrating Social Media; Blockchain, Microservices, IoT, Containers</u>	EAAS: Chapter 9	All due by 6am Tuesday morning:



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Class Meetings	Topics	Reading Assignments	Assignments
			Assignment #4 Quiz #4 Term Project Deliverable #4 due
Apr 18	<u>IT Governance, Part 2: Vendor Management, Outsourcing, and SLAs</u> <u>Strategic deployment choices</u> – cloud, hybrid cloud, hosted, or on prem?	<i>Blackboard: read Module 5 content</i> EAAS: Review Chapter 7	
Apr 25	<u>Deploying Your EA: Scaling, Monitoring, and Fault Tolerance</u> Term Project Presentations – entire class	<i>Blackboard: read Module 6 content</i>	Due by 6am Tuesday morning: Quiz #5 Term Project Report and Presentation
May 2 (e-Live students on campus)	Term Project Presentations In-class questions for Final Exam review The Final Lecture: Disaster Recovery and “So You Want to Be a CIO?”		Due by 6am Tuesday morning: Quiz #6 Term Project late acceptance – automatic 15 point reduction
TBD – probably May 9	FINAL EXAM		Good luck!

Office hours: Before class ~5:30pm on class night, or email instructor with questions. Instructor is happy to stay after class or use break times to answer questions or consult on Term Project. Scheduled phone calls also ok.

Spring Term Schedule: It is imperative that students stay current with work that is due. The Term Project can take significant effort, depending on the student and the choice of project. We have two Tuesdays off from class meetings, Feb 21st (Monday classes are substituted) and March 7th (spring break). Students who succeed in this course plan out their work from the beginning; part of your Term Project deliverables will be a schedule that you create to identify what parts of the project will be delivered when.

Term Project length: Even with a relatively small class, reviewing and grading final term projects takes significant time – at least 3 hours per project. **Therefore, there is a page limit of 25 pages, with font size 10 the smallest font accepted.** Instructor will stop grading after 25 pages. The page limit does not include the slides for your in-class presentation.



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In-class Term Project presentation: It is fun and interesting to see what other students have done for their projects; the workshops and in-class presentations are often the highlights of the course. You will have up to 45 minutes to present your project and answer questions from the class. *PLEASE PLEASE PLEASE time your presentation and rehearse it!* It is very painful when we have to cut someone off because they are running over – a few minutes is ok, more than that is not.

Plagiarism policy: University plagiarism rules are strictly enforced. With the exception of collaborative workshop sessions, all assignments, quizzes, and exams are assumed to be the original work of the student whose name is on the assignment. The instructor uses *TurnItIn* to assess whether information has been copied directly from sources without proper citation. **Discovery of plagiarism will result in a zero for the assignment.**

Citations: In accord with the above rule on plagiarism, any directly quoted or paraphrased material must have proper citation. Any assignment must have a standard bibliography. MET College requires APA citation style (please see <http://www.apastyle.org/> if you are unfamiliar with it). **Failure to include a bibliography will result in a 25% point loss on the assignment.**

Quizzes: There are six quizzes that are online in Blackboard. Quizzes are due by 6am on Tuesdays, as indicated in the syllabus above. Quiz results cannot be released until all students have taken the quiz.

Exams: The final exam is TBD as to date, mostly likely it will be May 9, 2017, but the test format will be similar to the online quizzes.

Assignments: Assignments will be submitted in Blackboard. I will do my best to ensure timely feedback. All quizzes and assignments are due by 6am on Tuesday mornings – if you require an extension in hardship cases, please get in touch with the instructor BEFORE the due date for the assignment.

Grading: Your grade is determined as follows:

- Assignments and Term Project Deliverables – 15%
- Workshops, discussions in class – 10%
- Online quizzes – 15%
- EA Term Project Report – 25%
- EA Term Project Presentation – 10%
- Final Exam – 25%