OTTAWA ONLINE
MIS-30563 Enterprise Architecture

Course Description
Explores the design, selection, implementation and management of enterprise IT solutions, focusing on applications and infrastructure and their fit within business organizations. Covers 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. Prerequisite: ITS/MIS 13063 Foundations of Information Technology. This is a fully online, eight-week course. We will not meet face-to-face at any time.

Course Prerequisites
None

Course Objectives
Upon successful completion of this course, students will be able to:

• Define Enterprise Architecture and articulate the differences between Enterprise, Business, System and Data architectures
• Discuss the function of Enterprise Architecture and how it applies to business and information technologies
• Define Enterprise Architect and the role of the Enterprise Architect
• Identify specific specialized skills the Enterprise Architect requires and other roles that work with the Enterprise Architect
• Define an Enterprise Architecture Framework
• Name and differentiate between several different Enterprise Architecture Frameworks
• Identify and differentiate between several Enterprise Architecture reference model
• Understand the importance of process modeling
• Understand how and why the reference model is used during architecture efforts
• Identify locations and types of information for developing an Enterprise Architecture
• Identify several Enterprise Architecture data collection techniques
• Define the Business Architecture
• Define the Data Architecture
• Identify Infrastructure requirements or assets
• Identify Security requirements
• Discuss the benefits of engineering and Enterprise Architecture
• Define compliance and specific laws or statutes specific to their industry
• Outline IT Governance and its function within an organization
• Explain the concept of Business Transformation
• Identify evaluation criteria for determining the effectiveness of an Enterprise Architecture
• Articulate the value of Enterprise Architecture to an organization
• Complete an EA plan
• Complete a written report outlining the deliverables and tasks during the EA
• Present a completed Enterprise Architecture document for the fictitious Acme Novelty Inc.
• Articulate a basic overview of several advanced technical developments that are becoming more common in industry.
• Articulate what emerging technology is most likely to alter the corporate landscape for either the organization they currently work for, or for the fictitious Acme Novelty Inc.

**Required Text**

**Course Assignment Descriptions and Schedule At-A-Glance**
You will have several opportunities to demonstrate your knowledge and understanding of the principles taught in this course. The primary means of evaluating your work will be through practical application of the material. In the event that you have difficulty completing any of the assignments for this course, please contact your instructor immediately. Please refer to the **Weekly Materials** section of the cyberclassroom for complete details regarding the activities and assignments for this course. The following is merely a summary.

**Discussion contributions (160 points)**
(six postings per week @ 20 points per week)

**Initial Substantive Posts**: Submit an initial response to each of the prompts provided each week by your instructor. Your initial post should be substantive (approximately ½ of a page in length) and must be posted by midnight, Central Time by Wednesday of each week. In your substantive post you are encouraged to use references (you may use your textbook); show evidence of critical thinking as it applies to the concepts or prompt and/or use examples of the application of the concepts to work and life. Proper punctuation, grammar and correct spelling are expected. Please use the **spell-check** function.

**Required Replies**: You must reply to at least two different peers per prompt. Your replies should build on the concept discussed, offer a question to consider, or add a differing perspective, etc. Rather than responding with, "Good post," explain why the post is "good" (why it is important, useful, insightful, etc.). Or, if you disagree, respectfully share your alternative perspective. Just saying "I agree" or "Good idea" is not sufficient for the posts you would like graded.

**Posting Guidelines**: Overall, postings must be submitted on at least two separate days of the week. It is strongly recommended you visit the discussion forum throughout the week to read and respond to your peers’ postings. You are encouraged to post more than the required number of replies.

(Please review the **Policies** section of Blackboard for further details.)

<table>
<thead>
<tr>
<th><strong>Week 1</strong></th>
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<tbody>
<tr>
<td><strong>Readings</strong></td>
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| Discussion | • Initial post to each prompt due by midnight, CT on Wednesday  
  • At least two replies to peers for each prompt due by midnight, CT on Sunday |
| --- | --- |
| Assignment(s) | • **ACME Incorporated Case Study- Part One: Selecting the Architect**  
This week, your task is to prepare a 2-3-page report, in APA format, identifying your selection of the new Enterprise Architect (Please refer to the week 1 course materials for complete details on the case study.) You are to outline why you have selected the candidate and provide citations from the study materials from the course to support your decision.  
Due: Sunday at Midnight, CT  
Points Possible: 50 |
| **Week 2** | | |
| Readings | • No text reading this week | |
| Discussion | • Initial post to each prompt due by midnight, CT on Wednesday  
  • At least two replies to peers for each prompt due by midnight, CT on Sunday | |
| Assignment(s) | • **Acme Incorporated Case Study, Part Two: Selecting the Architecture Framework**  
This week you are to select an Enterprise Architecture Framework. Your task is to prepare a 2-3 page report, in APA format, identifying your selection of the framework and substantiate your decision. You are to outline why you have selected the framework and provide citations from the study materials and from outside sources to support your decision.  
Due: Sunday, midnight CT  
Points Possible: 50 | |
| **Week 3** | | |
| Readings | • Chapter 2: Define Your Operating Model,  
  • Chapter 3: Implement the Operating Model via Enterprise Architecture | |
| Discussion | • Initial post to each prompt due by midnight, CT on Wednesday  
  • At least two replies to peers for each prompt due by midnight, CT on Sunday | |
| Assignment(s) | • **Acme Incorporated Case Study, Part Three: Modeling the Enterprise**  
This week you are to identify several key business functions you would consider modeling for the Enterprise Architecture. Your task is to prepare a 2-3 page report, in APA format, identifying at least three key business functions and explaining why these would be worthy of modeling. You are to outline | |
why you have selected the functions and then discuss why these functions are key factors to over architecture effort. Provide citations from the study materials from the course to support your decisions. Workflow diagrams can be helpful in this exercise.

**Click on the assignments tab in the course menu to access the dropbox for this assignment.**

Review the scoring rubric below for grading criteria. Click on the image for a printable version.

Due: Sunday, midnight CT
Points Possible: 50

<table>
<thead>
<tr>
<th>Week 4</th>
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<tbody>
<tr>
<td><strong>Readings</strong></td>
<td>• No text readings this week.</td>
</tr>
</tbody>
</table>
| **Discussion** | • Initial post to each prompt due by midnight, CT on Wednesday  
• At least two replies to peers for each prompt due by midnight, CT on Sunday |
| **Assignment(s)** | • **Acme Incorporated Case Study, Part Four: Data Gathering**

This week you are to identify several key business areas where you would begin collecting information for the Enterprise Architecture. Your task is to prepare a 2-3 page report, in APA format, identifying what you consider the key business areas, their functions and explaining what you might expect to find. You are to outline why you have selected the functions and then discuss why these functions are key factors to over architecture effort. Provide citations from the study materials from the course to support your decisions. Workflow or modeling diagrams can be helpful in this exercise.

Due: Sunday at Midnight, CT
Points Possible: 50

<table>
<thead>
<tr>
<th>Week 5</th>
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<tbody>
<tr>
<td><strong>Readings</strong></td>
<td>• No readings this week</td>
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</tbody>
</table>
| **Discussion** | • Initial post to each prompt due by midnight, CT on Wednesday  
• At least two replies to peers for each prompt due by midnight, CT on Sunday |
| **Assignment(s)** | • **Acme Incorporated Case Study, Part Five: Engineering**

This week you are to identify several key business areas where you would consider making changes to the processes or systems for the enterprise. Your task is to prepare a 2-3 page report, in APA format, identifying what you consider the key areas you see potential for improvements and then outline their functions and explaining what changes you might implement. You are to outline why you have selected the functions and then discuss why the changes made to these functions will provide long-term value. Provide citations from the study materials from the course to support your decisions.
materials from the course to support your decisions. Workflow or modeling diagrams can be helpful in this exercise.

Due: Sunday at Midnight, CT
Points Possible: 50

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**Week 6**

**Readings**
- Chapter 5: Cash in on the Learning
- Chapter 8: Now - Exploit Your Foundation for Profitable Growth

**Discussion**
- Initial post to each prompt due by midnight, CT on Wednesday
- At least two replies to peers for each prompt due by midnight, CT on Sunday

**Assignment(s)**
- **Acme Incorporated Case Study, Part Six: How, Why and Measuring Success**

This week you are to identify how and why the process of Enterprise Architecture is likely to help Acme Novelty Inc. Your task is to prepare a 2-3 page report, in APA format, identifying what you consider the benefits the enterprise will recoup from the investment in developing the EA. You will then identify how you will measure success. You are to outline the potential benefits; the measures and why you think these functional or systematic changes are key factors to the architecture success. Provide citations from the study materials from the course to support your decisions.

Due: Sunday at Midnight, CT
Points Possible: 50

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**Week 7**

**Readings**
- No text readings this week.

**Discussion**
- Initial post to each prompt due by midnight, CT on Wednesday
- At least two replies to peers for each prompt due by midnight, CT on Sunday

**Assignment(s)**
- **Acme Incorporated Case Study, Part Seven: The Process**

This week you are to pull it all together and write a complete report of how you would develop the Enterprise Architecture for Acme Incorporated.

- You are to identify the framework you are going to use, identify potential reference models that may come into play (and why), outline all the key information you feel would be worthy of capturing during the project, and then write an engineering summary.
- You are then to add a final section outlining the benefits and risks of such changes to the overall enterprise and whether you see a net gain for the company.
- Include a summary section outlining why you have selected the functions and then discuss why these
functions are key factors to over architecture effort. Your final report should be 5-10 pages, in APA format including a title page, abstract and reference section. Provide 15-20 citations from the study materials to support your decisions. Workflow or modeling diagrams can be included in text or in an appendix section.

Due: Sunday at Midnight, CT
Points Possible: 200

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**Week 8**

**Readings**
- No text readings this week.

**Discussion**
- Initial post to each prompt due by midnight, CT on Wednesday
- At least two replies to peers for each prompt due by midnight, CT on **Saturday**

**Assignment(s)**
- No assignment this week- please note that you must post a summary of your final project to the discussion board.

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* All online weeks run from Monday to Sunday, except the last week, which ends on Saturday.
** All assignments are due at midnight Central Time. (All submissions to the Blackboard system are date/time stamped in Central Time).

**Assignments At-A-Glance**

<table>
<thead>
<tr>
<th>Assignment/Activity</th>
<th>Qty.</th>
<th>Points</th>
<th>Total Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weeks 1-8: Discussion*</td>
<td>-</td>
<td>20 per week</td>
<td>160</td>
</tr>
<tr>
<td>Week 1: Acme Incorporated Case Study Part 1</td>
<td>1</td>
<td>50</td>
<td>50</td>
</tr>
<tr>
<td>Week 2: Acme Incorporated Case Study Part 2</td>
<td>1</td>
<td>50</td>
<td>50</td>
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<tr>
<td>Week 3: Acme Incorporated Case Study Part 3</td>
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<tr>
<td>Week 4: Acme Incorporated Case Study Part 4</td>
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<td>Week 5: Acme Incorporated Case Study Part 5</td>
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<td>50</td>
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<tr>
<td>Week 6: Acme Incorporated Case Study Part 6</td>
<td>1</td>
<td>50</td>
<td>50</td>
</tr>
<tr>
<td>Week 7: Acme Incorporated Case Study Part 7-final</td>
<td>1</td>
<td>200</td>
<td>200</td>
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<td><strong>TOTAL POINTS</strong></td>
<td></td>
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<td><strong>660</strong></td>
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*Please refer to the Policies menu for more information about requirements for Discussions.

**Grading Scale**

<table>
<thead>
<tr>
<th>Grade</th>
<th>Percentage</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>90 to 100%</td>
<td>594-660</td>
</tr>
<tr>
<td>B</td>
<td>80 to 89%</td>
<td>527-593</td>
</tr>
<tr>
<td>C</td>
<td>70 to 79%</td>
<td>460-526</td>
</tr>
<tr>
<td>D</td>
<td>60 to 69%</td>
<td>393-459</td>
</tr>
<tr>
<td>F</td>
<td>&lt; 60%</td>
<td>&lt; 392</td>
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*To access your scores, click on Grades in the Student Tools area in Blackboard.*
**Important Policies**

All course-specific policies for this course are spelled out here in this syllabus. However, additional university policies are located in the Policies section of Blackboard. You are responsible for reading and understanding all of these policies. All of them are important. Failure to understand or abide by them could have negative consequences for your experience in this course.

**Editorial Format for Written Papers**

All written assignments are to follow the APA writing style guidelines for grammar, spelling, and punctuation. This online course includes information regarding the APA style under “Writing and Research Resources” in the **Resource Room** on the course menu in Blackboard.

**Ottawa Online Late Policy**

With instructor approval, assignments may be accepted for up to one week after the due date, but a minimum automatic deduction of 10% of the points will be assessed. The instructor also has the option of increasing this deduction percentage up to a maximum of 20%. Extenuating circumstances may be determined on rare occasions and an extension allowed without a deduction, but only at the sole discretion of the instructor.

Discussion board postings will not be accepted for credit when posted after the close of the discussion week. There are no exceptions to this rule; however, solely at the discretion of the instructor, the student may be allowed to submit an alternative assignment to make up for the points under extenuating circumstances. If granted, this should be an exception to the rule.

No assignments will be accepted after the last day of the course (end of term) unless arrangements have been made and “approved” by the instructor at least one week in advance.

**Saving Work**

It is recommended that you save all of your work from this course on your own computer or flash drive. The capstone course you take at the end of your program may require you to have access to this work for culminating assignments and/or reflections.

**Academic Integrity**

Plagiarism and cheating will not be tolerated at any level on any assignment. The reality of cyberspace has made academic dishonesty even more tempting for some, but be advised that technology can and will be used to help uncover those engaging in deception. If you ever have a question about the legitimacy of a source or a procedure you are considering using, ask your instructor. As the University Academic Council approved on May 29, 2003, “The penalty for plagiarism or any other form of academic dishonesty will be failure in the course in which the academic dishonesty occurred. Students who commit academic dishonesty can be dismissed from the university by the provost/director.”

Please refer to **Academic Honesty** in the **Policies** section of the online course menu for important information about Ottawa University’s policies regarding plagiarism and cheating, including examples and explanations of these issues.
Student Handbook
Please refer to your student handbook for all university regulations. The Resource Room on the course menu in Blackboard contains information about where to find the student handbook online for your campus.

Please see Policies in Blackboard for additional university policies.

Blackboard Technical Support
The Resource Room in Blackboard contains links to student tutorials for learning to use Blackboard as well as information about whom to contact for technical support. Ottawa University offers technical support from 8 a.m. to midnight Central Time for all students, staff, and faculty at no cost. See www.ottawa.edu/ouhelp for contact information.