**Course Information**

**Title:** Enterprise Architecture  
**Course #:** 2181-D_22IS8040001  
**Credit Hours:** 2  
**Term:** Spring 2018

**Instructor Information**

**Name:** Brett Starr  
**Title:** Vice President of All Things Data  
**Office Information:** LCB, Room 106  
**Email:** brett.starr@uc.edu  
**Office Hours:** Tuesdays 4:30 to 6:00 PM  
**Communication Policy:** Students are encouraged to contact me anytime via email or phone. A response will be given within 36-48 hours except on weekends.

**Pace Statement**

This course aligns with PACE, the Lindner College of Business platform for developing the total business professional.

**P – Professionalism**

- Enhance oral & written communication, express ideas clearly, logically and persuasively.  
- Develop and practice teamwork skills through group projects and exercises.  
- Practice professional habits of punctuality, preparation, respect and participation.

**A – Academics**

- Develop foundational knowledge of core business functions and their interactions within firms.  
- Begin applying functional and cross-functional knowledge to critically analyze business problems; for example applying techniques for business plan development.

**C – Character**

- Learn and apply leadership techniques for project management (plan, brief, execute, debrief).  
- Build an understanding and initial skills of managing diversity, including understanding cultural differences, and challenges and opportunities of global business.  
- Understand importance of ethics and social responsibility in business and personal settings.
E – Engagement

• Build understanding of importance and practices of networking through interactions with business professionals and guest speakers.

• Develop awareness and appreciation of involvement in social organizations, community service, and professional group opportunities.

Course Materials
Research items and articles referenced.

Course Description

Theme of Class

“Intelligence is the ability to adapt to change.” Stephen Hawking

Enterprise Architecture

Enterprise Architecture represents the structure and operation of an organization to effectively and efficiently achieve its current and future business objectives. Enterprise Architects (EA), or now more commonly called Digital Architects (DA), are the technologists that design, evangelize and implement the solutions that comprise enterprise architecture. An DA is one of the most important roles in the IT organization, and it requires both breadth and depth across numerous technical skills and domain knowledge. Organizations are currently transitioning from a siloed, IT-managed EA to a business-managed DA role. First and foremost, a DA is a problem solver with in-depth business domain expertise and very good interpersonal communication skills. This course is designed to expose the student to the elements of Enterprise Architecture and to the roles and necessary skills required by the Digital Architect. It is a combination of theory and the practical, but the emphasis and focus will be on the practical. The problems we will address are real-world problems, currently faced by contemporary organizations. This course has been taught to numerous corporations across the world, to help build and evolve their DAs to become more successful. This course will prepare students for what it takes to be successful in one of the more important roles in the IT community.

What will you be required to do?

• Solve problems associated with key Enterprise Architecture patterns (Digital Transformation, Security, Mobility, Big Data, Cloud Services)
• Give presentations to begin to master effective evangelism and persuasion. The student should be prepared to deliver classroom presentations with very little preparation.

• Write Ups – due by Monday before each class assigned by 8 AM.
  - Individual Assignment Each Week (2, 3, 5, 6)
  - Research and Recommendation on Specific Topic
  - Topics will be presented each week
  - 1 to 2 Page Write Up
  - Diagram of Reference Architecture (target not current)
  - Cite research
  - What business capability will this recommendation allow
  - Four total write up assignments worth 10% of class grade per assignment

• Week 4 Individual Presentations
  - Individual Presentation Week 4 (related to topic from previous weeks)
  - Present your write up on proposed solution
  - Keep to 5 minutes (approximately)
  - Presenting to other “architects” on concept or initiative to consider
  - Topic will be in domain you have selected (domains will be created in class)
  - Convey key points, solicit feedback, and demonstrate you “own” the topic
  - Include a pro / con to alternative solution
  - Powerpoint and reference architecture
  - Worth 20% of class grade

• Group presentation (group of 2 to 3)
  - Self-form group
  - Team Proposal Final Week – Audience of Business and IT Stakeholders
  - Presenting Target State Solution for End to End Domain
  - Document solution for others to follow plan on approach, rationale, timeline
  - Include resource plan to implement and support solution
  - Artifacts –
    - Problem Statement
    - Technology Stack
    - Standard Adherence
    - Reference Architecture
    - Powerpoint
    - FAQ
    - Resource Plan
      - Skills required
      - Timeline with phases to achieve
    - Grade of the Group is worth 20% of class grade
    - Feedback of peers is worth 15% of class grade
      - Feedback emailed to professor, no news is assumed all participated evenly
Instructional Methods (Including Description about Bb)
The following course utilizes the Blackboard (Bb) Learning Management System to provide student-centered online learning that will enhance the teaching and learning process. Through a variety of instructional methods (e.g. discussion boards, video lectures, readings, online assessments, etc.) the learner will become immersed and engaged in the learning process. If you are not familiar with these tools, please visit IT@UC’s Knowledge Base for Blackboard.

Course Communication
University policy requires that the email set up in Blackboard is the primary means of communication. It is advisable that you use your UC email for this purpose and that you check it often. If you choose to change your email in Blackboard to a non-UC email it is your responsibility to ensure you check it frequently.

Student Services
Below is a short list of services available for students enrolled at the University of Cincinnati.

Counseling Services, Clifton Campus
Students have access to counseling and mental health care through the University Health Services (UHS), which can provide both psychotherapy and psychiatric services. In addition, Counseling and Psychological Services (CAPS) can provide professional counseling upon request; students may receive five free counseling sessions through CAPS without insurance. Students are encouraged to seek assistance for anxiety, depression, trauma/assault, adjustment to college life, interpersonal/relational difficulty, sexuality, family conflict, grief and loss, disordered eating and body image, alcohol and substance abuse, anger management, identity development and issues related to diversity, concerns associated with sexual orientation and spirituality concerns, as well as any other issue of concerns. After hours, students may call UHS at 513-556-2564 or CAPS Cares at 513-556-0648. For urgent physician consultation after-hours students may call 513-584-7777.

Accessibility Resources Office
Students with disabilities who need academic accommodations or other specialized services while attending the University of Cincinnati will receive reasonable accommodations to meet their individual needs as well as advocacy assistance on disability-related issues. Students requiring special accommodation must register with the Disability Services Office. UC’s Accessibility Resources Office.

Peer Tutoring
The Learning Assistance Center offers tutoring for UC students at our office in 2510B French Hall West. Sessions are one-on-one with a subject-specific tutor to answer your questions. The Learning Assistance Center’s dedicated tutors participate in ongoing training to equip them with strategies to support extended classroom learning. Tutoring is free of charge. To contact their office please visit the Peer Tutoring page of the Learning Assistance Center’s webpage or call 513-556-3244.
Distance Learning students or those enrolled in online courses are encouraged to visit Learning Resources. This page provides valuable resources for academic success, ideal for students who cannot access our campus-based services. Make sure to check out our new installments of Math Minute for video tutorials in math courses. New videos are added regularly.

Title IX
Title IX is a federal civil rights law that prohibits discrimination on the basis of your actual or perceived sex, gender, gender identity, gender expression, or sexual orientation. Title IX also covers sexual violence, dating or domestic violence, and stalking. If you disclose a Title IX issue to me, I am required forward that information to the Title IX Office. They will follow up with you about how the University can take steps to address the impact on you and the community and make you aware of your rights and resources. Their priority is to make sure you are safe and successful here. You are not required to talk with the Title IX Office. If you would like to make a report of sex or gender-based discrimination, harassment or violence, or if you would like to know more about your rights and resources on campus, you can consult UC’s webpage for Title IX or contact the office at 556-3349.

Course and Grading Policies

Course Structure
Changes to the syllabus, due dates, course requirements or grading requirements will be made as far in advance as possible. Due dates will be clearly marked in Blackboard. All assignments will be submitted via Blackboard using a Word document, PDF document or an Excel document. When completing discussion board assignments please make sure to abide by the rules of netiquette which are posted under course documents.

Academic Integrity
As with all Lindner College of Business efforts, in this course you will be held to the highest ethical standards, critical to building character. Ensuring your integrity is vital and ultimately is your responsibility. To help ensure the alignments of incentives, the Lindner College of Business has implemented a “Two Strikes Policy” regarding Academic Integrity that supplements the UC Student Code of Conduct (see: UC’s Student Code of Conduct)

- All academic programs at the Lindner College of Business use this “Two Strikes Policy”; any student who has been found responsible for two cases of academic misconduct may be dismissed from the College.
- All cases of academic misconduct (e.g., copying other students assignments, failure to adequately cite or reference, cheating, plagiarism, falsification, etc.) will be formally reported by faculty; and
- Students will be afforded due process for allegations as outlined in the policy.

Missed and/or Late Examinations, Quizzes, and Graded Exercises
No remakes unless approved by professor.
LCB Weather Related Protocol

When inclement weather threatens the safety of the University of Cincinnati community, the Senior Vice President for Administration and Finance may invoke University Rule 3361: 10-55-01 and declare an emergency closing. The Lindner College of Business will observe the university emergency closing protocol for all on-campus classes. During a university emergency closing, all college offices will be closed. Students should clarify with their course instructors how the closure will affect assignments and deadlines, and whether class information from the missed session(s) will be posted on Blackboard, and/or if the class will meet virtually during the closure.

Please Note: In the event of inclement weather and the university is closed, the closure will not affect online courses. All course assignments and activities will remain as scheduled in the course syllabus.

Criteria for Letter Grade

Your course grades will be based on your performance on the following:

Point Allocation

<table>
<thead>
<tr>
<th>Assessment</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Class Participation</td>
<td>5</td>
</tr>
<tr>
<td>Write Up 1</td>
<td>10</td>
</tr>
<tr>
<td>Write Up 2</td>
<td>10</td>
</tr>
<tr>
<td>Write Up 3</td>
<td>10</td>
</tr>
<tr>
<td>Write Up 4</td>
<td>10</td>
</tr>
<tr>
<td>Individual Presentation</td>
<td>20</td>
</tr>
<tr>
<td>Group Proposal</td>
<td>20</td>
</tr>
<tr>
<td>Team Feedback on Group Proposal</td>
<td>15</td>
</tr>
</tbody>
</table>

Grading Scale

93% and above (179 points or above) = A
90% (171-178 points) = A-
87% (166-170 points) = B+
83% (154-165 points) = B
80% (152-153 points) = B-
77% (147-151 points) = C+
73% (141-146 points) = C
70% (133-140 points) = C-
60% (114-132 points) = F
Below 60% (113 points or below) = F

Course Plan

Week 1 – What is Enterprise Architecture and the role of the Enterprise Architect
Week 2 – Security Architectural Patterns and other concepts of robust solutions

Week 3 – Information Management Domain – Deep Dive

Week 4 – Individual presentations – Group Project Review – Working session on research

Week 5 – Infrastructure Patterns and Emerging Trends, Cloud

Week 6 – Architecture of Machine Learning, Mobile Deployment, Application Development

Week 7 – Group Proposals