

Business Analytics and Information Technology
Course Number: 33:136:465
Course Title: Enterprise Architecture

COURSE DESCRIPTION

Enterprise Architecture (EA) refers to a coherent whole of principles, methods, and models that are used in the design and realization of an enterprise's information security, organizational structure, business processes, and infrastructure. EA is an instrument used by businesses to achieve alignment between business and IT within an organization. This alignment has been the major challenge as organizations go through transformation that keep them competitive and agile. Employing successful Enterprise Architecture ensures that changes to business process are correctly supported by information systems, security, and their underlying IT infrastructure. The objective of this course is to introduce to students the emerging area of business information architecture and security. The course provides them with an understanding of the state-of-the-art architecture and security technologies for securing and optimal use of business infrastructure.

COURSE MATERIALS

- Textbook: CISA Certified Information Systems Auditor Al... (Hardcover) by Peter Gregory ISBN-13: 978-0071769105 (optional)
- Lecture notes will be available on Canvas (Check Canvas (canvas.rutgers.edu) and your official Rutgers email account regularly)

LEARNING GOALS AND OBJECTIVES

- This course is designed to help students develop skills and knowledge in the following area(s):
- Learn the tools, techniques, and methods of optimal use and protection of Information Assets, Architecture and Processes
- Learn the tools, techniques, and methods for optimal use of Information Systems Operations, Maintenance, and Support
- Learn the tools, techniques, and methods of securing Information Systems Acquisition, Development, and Implementation
- Learn the tools, techniques, and methods of Governance and Management of IT within the Enterprise Architecture
- Learn the tools, techniques, and methods of Auditing Information Systems within the realm of Information Infrastructure.

- Students develop these skills and knowledge through the following course activities and assignments:

- Lectures: Class lectures generally include an introduction to the specific enterprise architecture concepts being covered, and follow a slide presentation of the material to transfer the knowledge to the students. Lectures make use of practical examples from business and industry, and interactive exercises to help ensure thorough comprehension of the material.
- Homework Assignments. Homework is assigned to reinforce concepts in the course and for students to practice newly acquired skills. Homework is turned in, graded, and then reviewed in class to ensure knowledge transfer.
- Quizzes and Exam. The course includes two exams to formally assess students' knowledge and comprehension.

PREREQUISITES

There is no formal prerequisite for this course. However, student must preserve the confidence and nearest attitude to understand the whole content in class.

ACADEMIC INTEGRITY

I do NOT tolerate cheating. Students are responsible for understanding the RU Academic Integrity Policy (<http://academicintegrity.rutgers.edu/>).

I will strongly enforce this Policy and pursue *all* violations. On all examinations and assignments, students must sign the RU Honor Pledge, which states, "On my honor, I have neither received nor given any unauthorized assistance on this examination or assignment." I will screen all written assignments through *SafeAssign* or *Turnitin*, plagiarism detection services that compare the work against a large database of past work. Don't let cheating destroy your hard-earned opportunity to learn. See business.rutgers.edu/ai for more details.

ATTENDANCE AND PREPARATION POLICY

- Expect me to attend all class sessions. I expect the same of you. If I am to be absent, my department chair or I will send you notice via email and Canvas as far in advance as possible. If you are to be absent, report your absence in advance at <https://sims.rutgers.edu/ssra/>. If your absence is due to religious observance, a Rutgers-approved activity, illness, or family emergency/death and you seek makeup work, also send me an email with full details and supporting documentation within 3 days of your first absence.
- For weather emergencies, consult the campus home page. If the campus is open, class will be held.
- Expect me to arrive on time for each class session. I expect the same of you
- Expect me to remain for the entirety of each class session. I expect the same of you.

- Expect me to prepare properly for each class session. I expect the same of you. Complete all background reading and assignments. You cannot learn if you are not prepared. The minimum expectation is that for each 80 minutes class session, you have prepared by studying for at least twice as many hours.
 - Expect me to participate fully in each class session. I expect the same of you. Stay focused and involved. You cannot learn if you are not paying attention.
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CLASSROOM CONDUCT

Students are permitted to use computers during class for note-taking and other class-related work only. Students are **not** allowed to check emails, access Web sites not related to the course or work on something that is beyond the scope of this course during the class time. Those using computers during class for work not related to that class must leave the classroom for the remainder of the class period.

EXAM DATES AND POLICIES

There are two exams in this course (*tentative):

[Exam I]

[Exam II]

During exams, the following rules apply:

- If you have a disability that influences testing procedures, provide me an official letter from the Office of Disability Services at the start of the semester.
 - No cell phones or other electronics are allowed in the testing room.
 - You must show a valid Rutgers photo ID to enter the room and to turn in the exam.
 - Alternate seating; do not sit next to another student or in your usual seat.
 - Use the bathroom prior to the exam start; bathroom breaks, if essential, will be escorted. - Alternate seating; do not sit next to another student or in your usual seat.
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GRADING POLICY

Course grades are determined as follows:

Deliverables	Weights
Midterm	30%
Final	30%

Homework	25%
Quizzes	10%
Attendance	5%

The proposed letter grade assignment is as follows:

F	0—29.999
D	30—49.999
C	50—64.999
C+	65—69.999
B	70—84.999
B+	85—89.999
A	90—100

COURSE SCHEDULE

(Tentative schedule, Subject to Change)

Week	Topic	Deliverables
Week 1	Introduction to elements of Enterprise Architecture	
Week 2	IT Governance and Management	
Week 3	IT Governance and Management	Quiz 1
Week 4	IT Governance and Management	
Week 5	IT Life Cycle Management	
Week 6	IT Life Cycle Management	Quiz 2
Week 7	Midterm	

Week 8	Customer Relationship within Enterprise Architecture	
NO CLASS		
Week 9	IT Service Delivery and Infrastructure	
Week 10	IT Service Delivery and Infrastructure	Quiz 3
Week 11	Information Asset Protection	
Week 12	Information Asset Protection	
Week 13	Information Asset Protection	Quiz 4
Week 14	The Audit Process	
Week 15	Final Exam	

SUPPORT SERVICES

If you need accommodation for a *disability*, obtain a Letter of Accommodation from the Office of Disability Services. The Office of Disability Services at Rutgers, The State University of New Jersey, provides student-centered and student-inclusive programming in compliance with the Americans with Disabilities Act of 1990, the Americans with Disabilities Act Amendments of 2008, Section 504 of the Rehabilitation Act of 1973, Section 508 of the Rehabilitation Act of 1998, and the New Jersey Law Against Discrimination. More information can be found at ods.rutgers.edu.

[Rutgers University-New Brunswick ODS phone (848)445-6800 or email dsoffice@echo.rutgers.edu]

[Rutgers University-Newark ODS phone (973)353-5375 or email ods@newark.rutgers.edu]

If you are *pregnant*, the Office of Title IX and ADA Compliance is available to assist with any concerns or potential accommodations related to pregnancy.

[Rutgers University-New Brunswick Title IX Coordinator phone (848)932-8200 or email jackie.moran@rutgers.edu]

[Rutgers University-Newark Office of Title IX and ADA Compliance phone (973)353-1906 or email TitleIX@newark.rutgers.edu]

If you seek **religious accommodations**, the Office of the Dean of Students is available to verify absences for religious observance, as needed.

[Rutgers University-New Brunswick Dean of Students phone (848)932-2300 or email deanofstudents@echo.rutgers.edu]

[Rutgers University-Newark Dean of Students phone (973)353-5063 or email DeanofStudents@newark.rutgers.edu]

If you have experienced any form of **gender or sex-based discrimination or harassment**, including sexual assault, sexual harassment, relationship violence, or stalking, the Office for Violence Prevention and Victim Assistance provides help and support. More information can be found at <http://vpva.rutgers.edu/>.

[Rutgers University-New Brunswick incident report link: <http://studentconduct.rutgers.edu/concern/>. You may contact the Office for Violence Prevention and Victim Assistance at (848)932-1181]

[Rutgers University-Newark incident report link: https://cm.maxient.com/reportingform.php?RutgersUniv&layout_id=7 . You may also contact the Office of Title IX and ADA Compliance at (973)353-1906 or email at TitleIX@newark.rutgers.edu. If you wish to speak with a staff member who is confidential and does **not** have a reporting responsibility, you may contact the Office for Violence Prevention and Victim Assistance at (973)353-1918 or email run.vpva@rutgers.edu]

If students who have experienced a temporary condition or injury that is adversely affecting their ability to fully participate, you should submit a request via <https://temporaryconditions.rutgers.edu> .

If you are a military **veteran** or are on active military duty, you can obtain support through the Office of Veteran and Military Programs and Services. <http://veterans.rutgers.edu/>

If you are in need of **mental health** services, please use our readily available services.

[Rutgers University-Newark Counseling Center: <http://counseling.newark.rutgers.edu/>]

[Rutgers Counseling and Psychological Services–New Brunswick: <http://rhscaps.rutgers.edu/>]

If you are in need of *physical health* services, please use our readily available services.

[Rutgers Health Services – Newark: <http://health.newark.rutgers.edu/>]

[Rutgers Health Services – New Brunswick: <http://health.rutgers.edu/>]

If you are in need of *legal* services, please use our readily available services: <http://rusls.rutgers.edu/>

Students experiencing difficulty in courses due to *English as a second language (ESL)* should contact the Program in American Language Studies for supports.

[Rutgers–Newark: PALS@newark.rutgers.edu]

[Rutgers–New Brunswick: eslpals@english.rutgers.edu]

If you are in need of additional *academic assistance*, please use our readily available services.

[Rutgers University-Newark Learning Center: <http://www.ncas.rutgers.edu/rlc>

[Rutgers University-Newark Writing Center: <http://www.ncas.rutgers.edu/writingcenter>]

[Rutgers University-New Brunswick Learning Center: <https://rlc.rutgers.edu/>]

[Optional items that many faculty include:

- Students must sign, date, and return a statement declaring that they understand the RU Academic Integrity Policy.

- Students must sign, date, and return a statement declaring that they understand this syllabus.]