RUTGERS
Rutgers Business School
Newark and New Brunswick

Accounting **Course Number: 22:10:627** **Course Title: Information Risk Management**

COURSE INTRODUCTION

For reasons that are well known, there is a renewed focus on audit quality in the CPA profession. The PCAOB regulatory regime, the formation of the Center for Audit Quality (CAQ), initiatives at major firms, and other indicators attest to this. The profession is more focused on more effective audit methodologies than it has been for decades.

The development of new methodologies needs to be preceded by basic and applied research that establishes a sound theoretical foundation and demonstrates that they will work. The need for such research represents an opportunity for universities to work with audit firms, software vendors and others. The following are examples, in no particular order, of the types of areas that are likely to prove fruitful in the field of analytical auditing: Analytical procedures, Other data Analytics, Continuous Auditing Integration, Audit Risk/Assurance Model, Elicitation, quantification and expression of professional judgment, Audit optimization, Fraud detection processes, Systems analysis and internal control evaluation and Smart navigation of GAAP.

COURSE DESCRIPTION AND OBJECTIVES

The goal of this course is to introduce the advance concepts underlying auditing and information risk management. This course is designed to build on the basic principles of auditing / information risk management to help students gain an in depth understanding of the audit process / risk management and develop knowledge needed to understand how accounting information systems work in order to assess their reliability and the reliability of the information captured and disseminated as well as the threats and risks unique to computer information security. When you have successfully completed this course you will be able to:
  Explain what information risk management is and its applications in practice;
  Recognize the relationship between risk management and auditing;
  Describe the risk management process;
  Demonstrate how to use major risk management frameworks;
  Apply risk management tools;
  Identify how the future of audit / risk management will be;
  Understand the concept of continuous auditing and reporting and how can they be used in the real cases;
  Explain how an internal control system and an enterprise risk management system works;
  Recognize the risk of fraud and the motives and techniques used to perpetrate and prevent or detect fraud in an information systems environment.

COURSE MATERIALS

This course is an online course, so there is not specific class hour for this course. Classes will be organized by weeks. Course materials as well as discussion topics will be posted online each week on Monday. You can study the course materials and participate in the discussion at any time during the week. You can access the course materials under your individual student accounts at Canvas https://tlt.rutgers.edu/canvas.

NOTE: Most lectures will have a set of slides associated to it. I will post materials on Canvas. However, you must realize that based on how the course progresses I may change those slides somewhat. Furthermore, content evolves rapidly and I may add or subtract content out of the course based on class progress.

__Background Textbook References:__
We don't assign any specific textbook to this course. All the lectures will have a set of slides associated to it and some of them have corresponding videos. You will be able to see the slides and videos gradually on Monday of each week on Canvas.

Materials will be drawn from many sources including the Internet, professional articles, academic articles, and books. The WWW is the Universal Library. Part of the learning of this course should be to understand how to mine this resource and join it to more traditional sources. Make sure that you reference the materials you draw from the Internet or from other sources

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

Online chat room is the primary way for the students to communicate with instructor and each other. Class participation will be evaluated according to students' participation in each week's discussion. Students can participate in the discussion by answering instructor's questions, posting their own questions, and answering the other students' questions in the chat rooms in Canvas. Both the quality and quantity of the questions and answers will be assessed.

HOMEWORK ASSIGNMENTS

There will be two individual assignments throughout the semester. The assignments will require you to read some cases related to information risk management and then answer some questions. They should be uploaded to Canvas prior to the deadline.

CLASS PROJECT

The final project can be of the group's choice but ideally it would be related to this course. It would be something like "Information risk management implications of xxx (my project)". The groups of class project can be gathered voluntarily, and each group should include 1-4 people. As the course is very compact you should start now choosing your group and deciding on the topic. The group has wide latitude to choose but I have to approve the topic. Each group should e-mail me the topic. The class project should be prepared in the form of a project report as well as PowerPoint slides, and should be uploaded to Canvas before presentations.

EXAM DATES AND POLICIES

The final exam will be a remote exam and last for three hours: the exam will be sent to students via email, and students need to send back their exams in three hours. For exams you will be responsible for the material covered in the lecture slides and projects. All the students are expected to take the final exam at the same time. If a student has valid excuse which complies with University regulations for missing an examination, the student must inform me and obtain permission to miss the examination before the examination. Failure to obtain the necessary permission will result in a zero grade.

GRADING POLICY

A module evaluation will be performed based on:

Class participation	20%
Assignments	25%
Course Project	25%
Final exam	30%

COURSE SCHEDULE

	Topic
1	• Introduction – syllabus • Introduction of Information risk management
2	• Auditing and Risk Management
3	• Risk Management Framework --- COSO • **Assignment 1 due on ()**
4	• Risk Management Process
5	• Risk Management - Information Security Risk • **Class Project Topic due on ()**
6	• Risk Management – Confidentiality and Privacy Risk
7	• Risk Management – Processing Integrity and Availability Risk • **Assignment 2 due on ()**
8	• Thoughts on Future of the audit / risk management • Continuous Auditing &Reporting in public accounting
9	• Internal control system (ICS)– Siemens best practice • Enterprise Risk Management --- Best Practice in Siemens
10	• Key Risk Indicators (KRI's) (IBM Risk Mgmt.) • Fraud risks and controls the use of automation for investigation, detection & prevention

11	• Course Project Presentation
12	• Remote 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.]