Professor: Joel Lanz   email: TBD
Tel: 516-933-3662   Course Website: Blackboard
Office Hours: By Appointment

COURSE DESCRIPTION AND LEARNING GOALS

Information technologies impact every aspect of accounting, including financial reporting, managerial accounting, auditing and tax. The nature of the work done by Certified Public Accountants (CPA) continues to evolve as these technologies advance. The storage of business assets and financial information has led to recent professional pronouncements requiring that accounting professionals understand the technology controls used to process and record this information. As information increasingly becomes digitalized, significant opportunities exist for accounting professionals and their firms to leverage technology tools to become more efficient in performing traditional services and open opportunities for new client services. The AICPA has recently introduced a variety of new assurance services enabling professionals to provide assurance in technology-related environments including Trust Services, Privacy Framework and Risk Advisory. The AICPA has also introduced a specialty credential – Certified Information Technology Professional (CITP) and an Information Technology section.

The CITP is a CPA recognized for his or her unique ability to provide business insight by leveraging knowledge of information relationships and supporting technologies. The CITP credential is predicated on the fact that in today's complex business environment, technology plays an ever increasing role in how organizations meet their business obligations, and that no single professional has a more comprehensive understanding of those obligations than a CPA. An increasingly competitive global marketplace has organizations clamoring for better information assurance or additional business insight. While IT professionals have the technical expertise necessary to ensure that IT hardware is secure or technology solutions are properly deployed, they lack the CPA's perspective and ability to understand the complicated business implications and risks associated with technology.

Many CPA's who practice as Information Technology Risk Management professionals also belong to ISACA. Previously known as the Information Systems Audit and Control Association, ISACA now goes by its acronym only, to reflect the broad range of IT governance professionals it serves. ISACA membership and its certification programs are globally accepted and recognized. ISACA developed and maintains the internationally recognized COBIT®, Val IT™ and Risk IT frameworks, helping IT professionals and enterprise leaders fulfill their IT governance responsibilities while delivering value to the business. ISACA certifications include the Certified Information Systems Auditor (CISA), Certified Information Security Manager (CISM), Certified in the Governance of Enterprise IT (CGEIT) and Certified in Risk and Information Systems Control (CRISC) certification.

The purpose of this course is to help prepare you for a successful career in public practice, industry, or government by understanding how to audit, use and participate in the design of accounting information systems. The course will also help students learn how to assess and consider the impact of IT governance, risk and compliance on accounting functions, focusing on how IT affects business process and controls and the impact on financial reporting.

The course is composed of the following topics and their approximate percentage of course time:

- IT Auditing core concepts and role of IT Audit in CPA firm service offerings (30%)
- Core business process features and related controls (25%)
- Application of computer software package knowledge (10%)
- Application of recognized professional guidance and practice tools (25%)
- Course administration and examinations and student presentations (10%)

The course will enable students to understand issues and developments in IT Auditing so that as practitioners, they can properly determine how to assess accounting system controls to effectively address the adequacy of controls in audited systems. Recent regulatory and financial reporting developments will also be discussed, and their impact on the firm's IT Audit and Assurance practice. The ability and need for IT Auditing and Assurance services to enhance value to firm offerings and client stakeholders will also be examined.

TEXTS:

Required:

1. "Information Technology Auditing- 3rd Edition," James A. Hall, Cengage, ISBN-13: 9781439079119
2. "Gleim's Professor Led CPA Auditing & Attestation Online Course – ACCT-GB.6215 NYU Summer Semester," 2012.
   You must obtain access to the Gleim CPA Auditing & Attestation Online Course version that allows me to track your progress by using the website reference below. **The link below is key!** It tells Gleim what class you're in so I can monitor your progress. Please ensure that you register for the correct class section.

ACADEMIC INTEGRITY:

Integrity is critical to the learning process and to all that we do here at NYU Stern. As members of our community, all students agree to abide by the NYU Stern Student Code of Conduct, which includes a commitment to:
- Exercise integrity in all aspects of one's academic work including, but not limited to, the preparation and completion of exams, papers and all other course requirements by not engaging in any method or means that provides an unfair advantage.
- Clearly acknowledge the work and efforts of others when submitting written work as one s own. Ideas, data, direct quotations (which should be designated with quotation marks), paraphrasing, creative expression, or any other incorporation of the work of others should be fully referenced.

- Refrain from behaving in ways that knowingly support, assist, or in any way attempt to enable another person to engage in any violation of the Code of Conduct. Our support also includes reporting any observed violations of this Code of Conduct or other School and University policies that are deemed to adversely affect the NYU Stern community.

The entire Stern Student Code of Conduct applies to all students enrolled in Stern courses and can be found here:

- Undergraduate College: http://www.stern.nyu.edu/uc/codeofconduct
- Graduate Programs: http://w4.stern.nyu.edu/studentactivities/involved.cfm?doc_id=102505

STUDENTS WITH DISABILITIES:

If you have a qualified disability and will require academic accommodation of any kind during this course, you must notify me at the beginning of the course and provide a letter from the Moses Center for Students with Disabilities (CSD, 998-4980, www.nyu.edu/csd) verifying your registration and outlining the accommodations they recommend. If you will need to take an exam at the CSD, you must submit a completed Exam Accommodations Form to them at least one week prior to the scheduled exam time to be guaranteed accommodation.

ASSESSMENT COMPONENTS:

EXAMS:

Exams are non-cumulative. However, subject material contained in the Final Exam assumes the mastery of material covered on the Midterm Exam. Both exams will be weighted evenly. The Midterm Exam will cover lecture units 1-3, and the Final Exam will cover lecture units 5-6. Exams are expected to be administered online using the University Blackboard system. (Note: These exams will not include Gleim specific materials covered in the lectures which will be subject to separate quizzes as described below).

IT AUDIT AND ASSURANCE PROFESSIONAL STANDARDS AND EXPECTATIONS QUIZZES:

Professional standards continually evolve and change. As part of their professional development, students will need to learn how to monitor developments and maintain their competencies. Using applicable IT Audit-related study units of the Gleim online CPA review tool for the Auditing and Attestation Section of the CPA review exam, students will expand their IT auditing and accounting information system knowledge previously obtained in introductory auditing and accounting courses. Students will review accounting information system-related subject matter tested on the CPA Exam and obtain experience in researching issues to address the simulation questions on the CPA exam. Four Study Unit quizzes will be administered on the Gleim CPA Review website and can be taken any time during the semester (all quizzes must be completed by the last day of class for this course.

CLASS PARTICIPATION:

Students will accumulate points by asking questions, successfully responding to questions posed during class, or raising "course-relevant" current events appearing in the professional literature. Points will be accumulated based on value provided to the class,

GRADING:

SEGMENT	% OF GRADE
Class Participation	10%
Exam #1 (Hall) – IT Governance and General Controls	30%
Exam #2 (Hall) – IT Application Controls	20%
IT Audit and Assurance Professional Standards Quizzes (Gleim) - 4	40%

Grading Scale:

The anticipated grading scale follows. Based on actual test performance, the instructor reserves the right to adjust term scores to reflect Stern policies and expectations.

93 - 100	A	87 - 89	B+	77 - 79	C+	67-69	D+
90 - 92	A-	83 - 86	B	73 - 76	C	63-66	D
		80 - 82	B-	70 - 72	C-	60-62	D-
						Below 60	F

RE-GRADING:

In line with Grading Guidelines for NYU Stern, the process of assigning of grades is intended to be one of unbiased evaluation. This means that students are encouraged to respect the integrity and authority of the professor's grading system and discouraged from pursuing arbitrary challenges to it.

If a student feels that an inadvertent error has been made in the grading of an individual assignment or in assessing the overall course grade, request to have the grade be re-evaluated may be submitted. Students should submit such requests in writing to the professor within 7 days of receiving the grade, including a brief written statement of why he or she believes that an error in grading has been made

PROFESSIONAL RESPONSIBILITIES FOR THIS COURSE:

Course Policies:

Class attendance is mandatory and part of a student's grade. Absences must be declared prior to the start of class (e.g., no missed class without prior notification). A maximum of three declared absences will be allowed. Each subsequent absence or each undeclared (except for third-party documented emergencies) absence will result in a loss of one point per incident for your class participation grade. I reserve the right to lower your grade or fail an individual for unsatisfactory attendance.

Students are expected to arrive to class on time and stay to the end of the class period. Chronically arriving late or leaving class early will have an impact on a student's grade. Students may enter class late only if given permission by the instructor and must do so without disrupting the class

Participation is an essential part of learning in this course. Students are expected to participate in all facets of classroom learning.

Reading/Homework:

Students are expected to come to class prepared, having read text and/or assigned readings prior to class. Homework, case studies, and other assignments, are expected to be completed and handed in on time.

Classroom Notes:

Laptops, cell phones, Smartphones, and other electronic devices are a disturbance to both students and professors. All electronic devices must be turned off prior to the start of each class meeting.

STERN POLICIES:

- Unless specifically identified in the syllabus, default Stern policies apply to this course.
- The School expects that students will conduct themselves with respect and professionalism toward faculty, students, and others present in class and will follow the rules laid down by the instructor for classroom behavior. Students who fail to do so may be asked to leave the classroom.
- Students may not work together on graded assignment unless the instructor gives express permission.
- Course evaluations are important to us and to students who come after you. Please complete them thoughtful
- Your class may be recorded for educational purposes.

COURSE OUTLINE:

Date	Lecture Unit	Lecture Title	Discussion Topics	Hall Readings	Gleim Readings
May 22	#1a	Introduction and Class Orientation Auditing and Internal Control	• Overview of Auditing • The Audit Committee • Audit Risk • Internal Control Objectives/Models	1	
	#1b	Auditing IT Governance Controls	• IT Governance • IT Organization • Computer Center • Disaster Recovery • Outsourcing IT	2	
May 29	#2a	Auditing Operating Systems and Networks	• Operating System Security • Network Security • Auditing EDI • End User Applications	3	Internal Control Concepts and IT (SU 5)
	#2b	Auditing Database Systems	• Data Management Approaches • Key Elements • DBMS in Distributed Environment • Controlling DBMS • Auditing DBMS	4	
June 5	#3a	Systems Development and Program Change Activities	• Participants in SDLC • System Acquisition • Controlling SDLC • Auditing SDLC • Change Control	5	Internal Control Sales Receivable – Cash Receipts Cycle (SU 6)
	#3b	Computer Assisted Audit Tools and Techniques ACL Software	• Application Controls • Testing Applications • CAATs • ACL Software	7 8 (363-370)	
June 12	#4	EXAM #1– The exam is expected to be administered via Blackboard. Further details will be provided in class.			Internal Control – Purchases, Payroll and Other Cycles (SU 7)
June 19	#4a	Auditing the Revenue Cycle	• Revenue Cycle Activities • Audit Objectives • Controls and Testing • Substantive Testing	9	Responses to Assessed Risk (SU 8)
	#4b	Auditing the Expenditure Cycle	• Expenditure Cycles Activities • Audit Objectives • Controls and Testing • Substantive Testing	10	

June 26	#6a	Transaction Processing and Financial Reporting Systems Overview	• Accounting Records • Documentation Techniques • Computer-Based Systems • Data Coding Schemes • G/L System • Financial Reporting • XBRL • COSO	6	
	#6b	Enterprise Resource Planning Systems	• ERP System Config • Data Warehousing • ERP Implementation Risks • Auditing ERP	11	
	#6c	EXAM #2 The exam is expected to be administered via Blackboard. Further details will be provided in class.			All Gleim Quizzes due by today