

UGRD_SOA_2510_ACCT424_TANG HONG WEE



Singapore Management University

COURSE INFORMATION

Course Code & Title	Academic Year / Term	Effective Start Date
ACCT424 - Auditing Information Systems	AY2025-26 August Term	30/06/2025

Offering Unit / Department / School	Course Career
SOA	Undergraduate

Course Units

Grading Basis

GRD - Graded

CU:

1

Course Description

This course examines IT systems and environment used to support the business processes common across various industries. The course helps to recognize how IT affects flows of business transactions, identify relevant technology elements, and assess risks arising from IT elements. Topics in the course will include the understanding, identifying and testing relevant to GITC (General IT Controls) and evaluate deficiencies in GITCs and assess the impact of GITC deficiencies on the audit.

Moreover this course will also touch upon ways in which IT audit report documentation is done and audit observations are assessed, handled and addressed. Lastly the course will also give an overview of regulatory guidelines in place for technology risk management, outsourcing risk and business continuity management stipulated by Monetary Authority of Singapore (MAS).

The course will use class activities, case study, real world examples and group discussions to increase the practicality of the knowledge content. Course is a perfect blend for individuals who are willing to learn about the IT elements considered in audit and compliance assessments.

Standard Learning Outcomes (for SOA only)

LO1.1: Our students can recognize, develop, measure, record, validate and communicate financial and other related information., LO1.2: Our students can analyze, synthesize and evaluate financial and other related information for decision making in a management context., LO1.3: Our students understand and can apply concepts relating to business processes, audit and assurance., LO2.2: Our students can communicate effectively in a business context., LO2.3: Our students understand the principles of leadership and team building in a business context., LO3.1: Our students understand and can apply the ethical principles relevant to accounting professionals.

Course Learning Outcomes

By the end of this course, students should be able to:

SMU Graduate Learning Outcomes

Critical thinking & problem solving, Collaboration and leadership, Communication

Discipline Specific Competencies

Governance, Internal Controls, Professional and Business Ethics, Auditor Independence, Accounting and Tax Systems

Course Area(s)

AREA - Accounting Data and Analytics Electives, AREA - Accounting Electives, AREA - Accounting Options, AREA - Advanced Business Technology Major, AREA - Analytics Major, AREA - Business Options, AREA - Business-Oriented Electives, AREA - Econ Major Rel/Econ Options, AREA - Financial Forensics Electives, AREA - Grad Req - Dig Tech/Data Ana (Intake 2024 onwards), AREA - IS Related Courses, AREA - Social Sciences/PLE Major-related, ENRL - SS Enrolment: 1 ISEP; 1 SUSEP, RQCP - ACCT203/ACCT221/IS304/IS210, TRCK - Accounting Major: Data Analytics Track, TRCK - Analytics Major: Accounting Track

Simple Requirements

ACCT221/IS304/IS210 - Pre-req

Type

Prerequisite

Complete ANY of the following Courses:

- ACCT221 - Accounting Information Systems
- IS210 - Business Process Analysis & Solutioning
- IS304 - Process Modelling and Solutions Blueprinting (Inactive)

CLASS SECTION INFORMATION

Instructor(s)

00022547, 00023295, 00023296, 01069193, 01236448

Instruction Mode

In Person

Assessment Components (New)

Category	Description	Weightage
Projects/Assignments	Assignment # 1-3	25

Category	Description	Weightage
Projects/Assignments	Assignment # 4	15

Category	Weightage
Class Participation	20

Category	Description	Weightage
Projects/Assignments	Graded Simulated Case Studies	20

Category	Description	Weightage
Projects/Assignments	Peer Evaluation	5

Category	Description	Weightage
Progress Assessments	Quiz (2 Quizzes)	10

Category	Description	Weightage
Projects/Assignments	Student Reflection	5

Instructional Methods and Expectations

Category	Score	Remarks
Class Participation	20%	a) Attendance b) Contributions in terms of making insightful comments during classroom discussions/lectures, active engagement in group activities. Refer to Annex 1.

Assignment # 1-3	25%	<p>Assignment case study will be given during Week #2 Lecture</p> <p>Assignment #1: Audit Engagement Phase 1: Planning and Scoping (5%) <u>Deliverables:</u> Process flow diagram and Risk and Control Mapping</p> <p>Assignment #2: Audit Engagement Phase 2: Design and Implementation (10%) <u>Deliverable:</u> Working papers for Test of Design</p> <p>Assignment #3: Audit Engagement Phase 3: Operating Effectiveness (10%) <u>Deliverable:</u> Working papers for Test of Operating Effectiveness</p> <p>Grading criteria: completeness, accuracy, clarity of documentation, depth of analysis and how it relates to concepts taught during the lectures and each appropriate phases of an engagement.</p>
Assignment # 4	15%	<p>Assignment #4: Audit Engagement Phase 4: Concluding and Reporting (15%)</p> <p>a) Deliverable: Final Report, Presentation Slides</p> <p>b) Grading criteria for report: Clarity of report including quality of recommendations and arguments</p> <p>c) Grading criteria for presentation: body language and professional manner, oral communication skills including persuasiveness, quality & clarity of responses to questions. Quality of slides is also included.</p>
Peer Evaluation	5%	<p>Group members will assess their own team throughout all groupwork including their contribution, qualitative inputs, and useful feedback etc.</p>

Graded Simulated Case Studies	20%	2 graded simulation case studies will take place over 2 separate weeks. Grading criteria for: completeness, accuracy, clarity and depth of analysis and how it relates to concepts taught during the lectures, body language and professional manner, oral communication skills including persuasiveness, quality & clarity of responses to questions.
Quiz (2 Quizzes)	10%	Quiz # 1 – Week 4 (5%) Quiz # 2 - Week 11 (5%)
Student Reflection	5%	

Assignments (40%) and Peer evaluation (5%)

Students are to work in the group formed (not more than 6-7 per group depending on the overall class size). The same group will need to work together for all case study assignments. Details of case study assignments will be given during week 2, groups will be formed then and formalized via email communication to the students.

Group members are entitled to have rounds of interactions with lecturers from Deloitte to discuss about the assignment and seek guidance on its deliverables and any key learnings. Assessment criteria for all four assignments are included in the section on “Assessment Details”. All submissions are via e-Learn portal.

For the last assignment, each group will be given 15 minutes* to outline their solution, recommendations, approach, followed by 10 minutes for Q&A. The panel will probe and question the team during the presentation so as to assess the ability to reason critically in areas taught during the course.

*timing varies based on the total number of groups.

Graded simulated case studies (20%)

There will be 2 simulations based on case studies (simulating real life scenario) during 2 separate weeks of the term. Students will be given a handout on the case studies and be given a certain amount of time (i.e. half an hour) to prepare the case studies. After which, they will present to the facilitator and be assessed based section indicated on “Assessment Details”. Each activity is 10% towards the final grades.

Quizzes (10%)

Quizzes: There will be 2 (10% each) quizzes and each quiz will be conducted as per the dates stated in the “Assessment Details”. Each quiz will compose of about 20 True/False, multiple-choice questions and/or multi-select type of questions. Quiz questions will focus on the concepts covered in the previous lectures and application of these concepts. No questions verbatim from past year papers or published test banks will be used for the graded continuous assessments and examinations in the course.

Weekly Lesson Plan

WEEK	TOPIC	INSTRUCTIONAL METHOD/ STRATEGY
1	Lecture <ul style="list-style-type: none">• Introduction to course and expectations• Basic overview of Audit vs Information System Audit• Overview of an audit engagement and lifecycle• Introduction to Process, Risk & Controls• Business Process Flow Diagram (high-level)	Every session will have an activity or breakout group that last between 15 minutes to 30 minutes. Ice-breaker session. Recommended Reading– <ul style="list-style-type: none">• IT Audit Career roadmap• COSO Framework in brief
2	Lecture <ul style="list-style-type: none">• Basic IT Environment and IT Organization• IT Process Flow Diagram• IT Risk• Control objectives, control activities, assertions• Understanding Types of Controls & Testing• Risk and Controls Mapping Introduction to Case Study Assignment	Every session will have an activity or breakout group that last between 15 minutes to 30 minutes. Use of wooclap or kahoot for classroom response. Recommended Reading – <ul style="list-style-type: none">• COBIT framework in brief• General Auditing Standards by PCAOB

WEEK	TOPIC	INSTRUCTIONAL METHOD/ STRATEGY
3	Lecture <ul style="list-style-type: none"> • Testing Controls (Design Effectiveness) • Testing Controls (Operating Effectiveness) • Introduction to General IT Controls <ul style="list-style-type: none"> - Data Center and Network Operations (DCNO) - Access Security Controls - Change Management 	Every session will have an activity or breakout group that last between 15 minutes to 30 minutes. Use of wooclap or kahoot for classroom response.
4	Lecture <ul style="list-style-type: none"> • Understanding & Testing Access Security Controls • User Access Management • Privilege Access Management • Testing Logical Access Review / Segregation of Duties Quiz # 1	Every session will have an activity or breakout group that last between 15 minutes to 30 minutes. Use of wooclap or kahoot for classroom response.
5	Lecture <ul style="list-style-type: none"> • Understanding & Testing Change Management Controls • Understanding & Testing Data Center Network Operations Controls • Data Center Controls & Environmental Security End of week 5: Submit Assignment #1	Every session will have an activity or breakout group that last between 15 minutes to 30 minutes. Use of wooclap or kahoot for classroom response. Assignment #1 Planning and Scoping
6	Lecture <ul style="list-style-type: none"> • Practicing professional skepticism • Documenting work papers and best practices • Reflection on the Assignment 1 	Every session will have an activity or breakout group that last between 15 minutes to 30 minutes. Use of wooclap or kahoot for classroom response.

WEEK	TOPIC	INSTRUCTIONAL METHOD/ STRATEGY
7	<p>Graded simulated case study #1 Interaction with Deloitte Audit and Assurance (IT, Data and Analytics) Partner End of week 7: Submit Assignment #2</p>	<p>Every session will have an activity or breakout group that last between 15 minutes to 30 minutes. Use of wooclap or kahoot for classroom response.</p> <p>Students working in breakout groups will be given case studies (simulating real life scenario) and they will need to present in class.</p> <p>#2 - Handling difficult conversations This will be graded.</p> <p>Assignment #2 Executing Engagement</p>
8	Term Break – Recess week	
9	<ul style="list-style-type: none"> • Graded simulated case study #2 • Reflection on the Assignment 2 <p>End of week 9: Submit Assignment #3</p>	<p>Students working in breakout groups will be given case studies (simulating real life scenario) and they will need to present in class.</p> <p>#1 – Identify Risk and Controls This will be graded.</p> <p>Assignment #3 Documenting Engagement</p>
10	Networking Session in Deloitte premises*	Details will be shared closer to the visit.
11	<ul style="list-style-type: none"> • Report Writing • Soft skills as an Auditor <p>Quiz # 2</p>	<p>Every session will have an activity or breakout group that last between 15 minutes to 30 minutes. Use of wooclap or kahoot for classroom response.</p>

WEEK	TOPIC	INSTRUCTIONAL METHOD/ STRATEGY
12	No lesson Preparation for presentation and student journal End of week 11: Submit Assignment #4	Assignment #4 Concluding Engagement
13	Assignment Presentation – Session # 1	Refer to the above “Assessment details” for expectations and judging criteria Judging panel to consist of senior management from Deloitte Risk Advisory Practice
14	Assignment Presentation – Session # 2	Refer to the above “Assessment details” for expectations and judging criteria Judging panel to consist of senior management from Deloitte Risk Advisory Practice.

Other Information

Attendance

Students are required to attend all class meetings. However, accidents, illness, services to the nation, and other misfortunes do occur and are generally not predictable and are outside one's control. As such, students will not be penalized for missing classes under such reasons, subject to clear communication to the instructor concerned. Students are required to submit documentary evidence to the instructor and the SMU Management Office.

Even with acceptable reasons, students are still required to achieve 75% attendance for the course. If a student expects to be absent for an extended period of time (3 class meetings or longer) for a valid reason, he/she must apply for Leave of Absence in advance.

UNIVERSITY POLICIES

Academic Integrity

All acts of academic dishonesty (including, but not limited to, plagiarism, cheating, fabrication, facilitation of acts of academic dishonesty by others, unauthorized possession of exam questions, or tampering with the academic work of other students) are serious offences.

All work (whether oral or written) submitted for purposes of assessment must be the student's own work. Penalties for violation of the policy range from zero marks for the component assessment to expulsion, depending on the nature of the offence.

When in doubt, students should consult the instructors of the course. Details on the SMU Code of Academic Integrity may be accessed at <https://smu.sharepoint.com/sites/oasis/SitePages/DOS-WKLSWC/UCSC.aspx>.

Responsible Use of AI

The University recognises the importance of equipping students with the skills to navigate an AI-driven world. While AI tools may support learning, they must be used judiciously and responsibly. Students must not present AI-generated output as their own work.

Each course may set specific guidelines on the use of AI in assessments. Students are required to follow these guidelines carefully and should seek clarification from the instructors if uncertain.

Misuse of AI constitutes a breach of academic integrity and will be subject to the same penalties as other acts of academic dishonesty.

Copyright Notice

Please note that all course materials are meant for personal use only, namely for the purposes of teaching, studying and research. You are strictly not permitted to make copies of or print additional copies or distribute such copies of the course materials or any parts thereof, for commercial gain or exchange.

For the full copyright notice, please visit <https://researchguides.smu.edu.sg/copyright>.

Accessibility

SMU strives to make learning experiences accessible for all. Students who anticipate or experience physical or academic barriers due to disability are encouraged to inform the course instructor as soon as possible. Students may also contact the university's disability services team if they have questions or concerns about academic provisions:

accessibility@smu.edu.sg. Please be aware that the accessible tables in our seminar room should remain available for students who require them.

Digital Readiness for Teaching and Learning (DRTL)

As part of emergency preparedness, instructors may conduct lessons online via the Zoom platform during the term, to prepare students for online learning. During an actual emergency, students will be notified to access the Zoom platform for their online lessons. The class schedule will mirror the current face-to-face class timetable unless otherwise stated.