

ACTG 55: INFORMATION SYSTEMS & CONTROLS (ISC)

Foothill College Course Outline of Record

Heading	Value
Effective Term:	Summer 2025
Units:	5
Hours:	5 lecture per week (60 total per quarter)
Prerequisite:	ACTG 1A or 1AH.
Degree & Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Student Learning Outcomes

- Explain Information Systems & Controls terminology, concepts, principles, and frameworks.
- Perform related calculations and demonstrate the ability to use methods and /or procedures related to information systems & controls and their integrity

Description

This course focuses on information systems, information technology governance and risk assessment, processing integrity and tests of controls, availability, confidentiality and privacy, SOC engagements, use and management of data, and information security and protection of information assets.

Course Objectives

The student will be able to:

1. Explain information technology (IT) governance and strategy, and demonstrate overall awareness of IT standards
2. Explain basics of assurance-related research and techniques
3. Explain IT systems, controls, and resources; identify risks to information systems and the organizational risk appetite
4. Demonstrate awareness of IT risks and their related business impact
5. Identify IT control frameworks
6. Identify IT control activities (ITGC)
7. Identify and evaluate appropriate application controls
8. Explain IT change management risks and processes
9. Recognize the basics of cybersecurity and risk management
10. Analyze and evaluate the flow of transactions in a system interface diagram to identify risks
11. Determine logical access controls and prepare results of appropriate tests of security
12. Perform tests and report on the results of change management controls
13. Design appropriate tests of the application controls related to business processes

14. Identify additional procedures needed to obtain sufficient appropriate evidence due to data analytic procedures
15. Recognize the basics of SOC engagements and SOC reports
16. Identify scope considerations for the SOC engagement and complementary controls
17. Perform SOC engagement procedures
18. Explain SOC reports, considerations, exceptions, and distribution
19. Recognize the basics of a data governance program
20. Identify basics of data extraction, preparation, and manipulation
21. Identify and define information security and privacy frameworks and their associated risks
22. Recognize the basics of business resiliency
23. Recognize the basics of business continuity

Course Content

1. IT governance and risk assessment
 - a. IT governance, strategy, and standards
 - b. Assurance-related research
 - c. Business processes and the design of IT internal controls
 - d. IT risk identification and assessment
 - e. IT control frameworks
 - f. IT general controls (ITGC)
 - g. Application controls
 - h. IT change management
 - i. Cybersecurity risk management
 - j. System interfaces/flow of data
2. Performing procedures, tests of internal controls
 - a. Logical access controls
 - b. IT change management
 - c. Tests of internal controls related to business processes
 - d. Sufficient appropriate evidence: specific matters that require special consideration
3. SOC engagements
 - a. Basic concepts
 - b. SOC engagement: planning
 - c. SOC engagement: performing procedures
 - d. SOC engagement: reporting
4. Use and management of data
 - a. Data governance
 - b. Data preparation/manipulation
5. Information security and protection of information assets
 - a. Information security and privacy frameworks, and standards
 - b. Business resiliency
 - c. Business continuity

Lab Content

Not applicable.

Special Facilities and/or Equipment

1. Access to spreadsheet, word processing, and presentation software.
2. When taught as an online distance learning section, students and faculty need reliable and ongoing internet (Java-enabled) and email access.

Method(s) of Evaluation

Methods of Evaluation may include but are not limited to the following:

Quizzes

Exams

Class participation

Homework

Assignments requiring the use of general ledger software, spreadsheet, word processor, and presentation applications, such as QuickBooks, MS Excel, MS Word, and MS PowerPoint, respectively

Team projects

Research assignments

Case study analysis

Oral and/or written presentations

Method(s) of Instruction

Methods of Instruction may include but are not limited to the following:

Lecture

Electronic discussions

Group work

Case studies

Representative Text(s) and Other Materials

Gleim, Irvin N., Garrett W. Gleim, and William A. Hillison. Gleim CPA Information Systems & Controls (ISC). 2024.

Romney, Marshall B., Paul J. Steinbart, Scott L. Summers, and David A. Wood. Accounting Information Systems, 16th ed.. 2023.

Arens, Alvin A., Randal J. Elder, Mark S. Beasley, and Chris E. Hogan. Auditing and Assurance Services, 18th ed.. 2023.

Types and/or Examples of Required Reading, Writing, and Outside of Class Assignments

1. Students will be expected to read approximately 40 pages per week, in addition to completing associated assignments for an estimated total of 10 hours out-of-class commitment per week
2. Applying basic Excel commands to prepare financial statements, bank reconciliation, budgets, and accounting reports
3. Reading of corporate annual reports
4. Writing assignment responding to questions related to the corporate annual reports of publicly-held corporations
5. Written research paper and/or project
6. Reading of internet articles and writing on accounting topics or accounting-related current events and/or careers
7. Reading Wall Street Journal, Business Week, and Fortune

Discipline(s)

Accounting