

**FRANKLIN UNIVERSITY PROFICIENCY EXAM (FUPE)
STUDY GUIDE**

Course Title: CYSC 300: Principles of Information Security

Recommended Textbook(s): <https://www.franklin.edu/current-students/academic-resources/textbooks>

Number & Type of Questions: 73 – True/false, multiple choice, short answer, and essay problems

Permitted Materials: No materials permitted

Time Limit: 120 minutes (2 hours)

Minimum Passing Score: 75%

Outline of the Topics Covered:

Exam Information

This is a thorough exam, comparable to a final exam for the course. You will be expected to know a broad overview of security principles and practices as well as terminology, acronyms, examples, etc. Topics include intrusion detection and prevention, authentication, cryptography, physical security, security implementation, personnel, maintenance, policy and planning, and the CIA triad.

Sample Questions and Outcomes

1. Describe how availability, integrity, and confidentiality requirements affect a typical IT infrastructure.
2. Identify common sources of security breaches and their associated countermeasures.
3. Identify, manage, and mitigate risk as part of a security plan.
4. Describe, develop, and maintain appropriate access controls.
5. Create, maintain, and promote suitable security policies.
6. Apply auditing and monitoring techniques to assess security compliance.
7. Employ a business continuity plan to reduce risk.
8. Describe the key components of cryptographic systems.
9. Explore network security risks and layered defense mechanisms.
10. Identify key U.S. security standards and compliance laws.

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