



**COWLEY COLLEGE
& Area Vocational Technical School**

COURSE PROCEDURE FOR

**ENTERPRISE SECURITY MANAGEMENT
CIS1907 3 Credit Hours**

Student Level:

This course is open to students on the college level in either the freshman or sophomore year.

Catalog Description:

CIS1907 - ENTERPRISE SECURITY MANAGEMENT (3 hrs)

An introduction to the project management techniques, topics, and policies involved in implementing security within an organization.

Prerequisites:

None

Controlling Purpose:

This course is designed to meet the needs of students in explaining the various issues in assessing risk, implementing security policies, and the management of computer security within an organization.

Learner Outcomes:

Upon completion of the course, the student will gain an understanding of issues in risk management, various professional security models, employment considerations, development of policies, and actual implementation with an organization.

Units Outcomes and Criterion Based Evaluation Key for Core Content:

The following defines the minimum core content not including the final examination period. Instructors may add other content as time allows.

Evaluation Key:

- A = All major and minor goals have been achieved and the achievement level is considerably above the minimum required for doing more advanced work in the same field.
- B = All major goals have been achieved, but the student has failed to achieve some of the less important goals. However, the student has progressed to the point where the goals of work at the next level can be easily achieved.
- C = All major goals have been achieved, but many of the minor goals have not been achieved. In this grade range, the minimum level of proficiency represents a person who has achieved the major goals to the minimum amount of preparation necessary for taking more advanced work in the same field, but without any major handicap of inadequacy in his background.

- D = A few of the major goals have been achieved, but the student's achievement is so limited that he is not well prepared to work at a more advanced level in the same field.
- F = Failing, will be computed in GPA and hours attempted.
- N = No instruction or training in this area.

UNIT 1: INTRODUCTION TO THE MANAGEMENT OF INFORMATION SECURITY						
Outcomes: Understand the concept of security and management of information security						
A	B	C	D	F	N	Specific Competencies
						Demonstrate the ability to:
						Explain what is security including the NSTISSC Security model
						Explain what is management
						List and explain the principles of information security management

UNIT 2: PLANNING FOR SECURITY						
Outcomes: Understand the planning process						
A	B	C	D	F	N	Specific Competencies
						Demonstrate the ability to:
						Explain the role of planning
						Explain the precursors to planning
						Explain strategic planning
						Explain planning for information security implementation

UNIT 3: PLANNING FOR CONTINGENCIES

Outcomes: Understand planning for contingencies

A	B	C	D	F	N	Specific Competencies
						Demonstrate the ability to:
						Explain what is contingency planning
						List and explain the components of contingency planning
						Explain business resumption planning
						Explain testing contingency plans

UNIT 4: INFORMATION SECURITY POLICY

Outcomes: Understand the various topics in risk management including identification, assessment and control

A	B	C	D	F	N	Specific Competencies
						Demonstrate the ability to:
						Explain the need for policies
						Explain the enterprise information security policy
						Explain issue-specific security policy
						Explain system-specific security policy
						List and explain guidelines for effective policy

UNIT 5: DEVELOPING THE SECURITY PROGRAM

Outcomes: Understand how to develop the security program

A	B	C	D	F	N	Specific Competencies
						Demonstrate the ability to:
						Explain how to organize security
						Explain how to place information security within an organization
						List the components of the security program
						List and explain the information security roles and titles
						Explain how to implement security education, training, and awareness programs.

UNIT 6: SECURITY TECHNOLOGY: SECURITY MANAGEMENT MODELS AND PRACTICES

Outcomes: Understand how to implement security using software and hardware

A	B	C	D	F	N	Specific Competencies
						Demonstrate the ability to:
						List and explain the security management models
						Explain security management practices
						Explain metrics in information security management
						Discuss emerging trends in certification and accreditation

UNIT 7: RISK MANAGEMENT: IDENTIFYING AND ASSESSING RISK

Outcomes: Understand the different components in identifying and assessing risk to the organization

A	B	C	D	F	N	Specific Competencies
						Demonstrate the ability to:
						Explain risk management
						Explain risk identification
						Explain risk assessment
						Explain documenting the results of risk assessment

UNIT 8: RISK MANAGEMENT: CONTROLLING RISK

Outcomes: Understand the techniques for controlling risk

A	B	C	D	F	N	Specific Competencies
						Demonstrate the ability to:
						List and describe risk control strategies
						Explain management of risk
						Explain feasibility studies and cost-benefit analysis
						List and explain risk control practices
						Describe the OCTAVE Method
						Describe the Microsoft Risk Management Approach

UNIT 9: PROTECTION MECHANISMS

Outcomes: Understand the different components to protect your organization

A	B	C	D	F	N	Specific Competencies
						Demonstrate the ability to:
						List and describe access controls
						Explain how firewalls work
						Explain how intrusion detection systems work
						Explain remote access protection
						Explain wireless networking protection
						Explain scanning and analysis tools
						Explain cryptography

UNIT 10: PERSONNEL AND SECURITY

Outcomes: Understand the employment considerations in the security professionals position

A	B	C	D	F	N	Specific Competencies
						Demonstrate the ability to:
						Explain staffing requirements for the security function
						List and explain the various information security professional credentials
						Describe employment policies and practices

UNIT 11: LAW AND ETHICS

Outcomes: Understand the legal aspect of security management

A	B	C	D	F	N	Specific Competencies
						Demonstrate the ability to:
						Describe law and ethics in information security
						List and explain the legal issues
						Describe the ethical concepts in information security
						List and explain the professional organizations and their codes of ethics
						Describe organization liability and the need for counsel

UNIT 12: INFORMATION SECURITY PROJECT MANAGEMENT

Outcomes: Understand the steps in managing security implementation

A	B	C	D	F	N	Specific Competencies
						Demonstrate the ability to:
						Explain project management
						Apply project management to security
						Describe project management tools

Projects Required:

None

Textbook:

Contact Bookstore for current textbook.

Materials/Equipment Required:

Attendance Policy:

Students should adhere to the attendance policy outlined by the instructor in the course syllabus.

Grading Policy:

The grading policy will be outlined by the instructor in the course syllabus.

Maximum class size:

Based on classroom occupancy

Course Timeframe:

The U.S. Department of Education, Higher Learning Commission and the Kansas Board of Regents define credit hour and have specific regulations that the college must follow when developing, teaching and assessing the educational aspects of the college. A credit hour is an amount of work represented in intended learning outcomes and verified by evidence of student achievement that is an institutionally-established equivalency that reasonably approximates not less than one hour of classroom or direct faculty instruction and a minimum of two hours of out-of-class student work for approximately fifteen weeks for one semester hour of credit or an equivalent amount of work over a different amount of time. The number of semester hours of credit allowed for each distance education or blended hybrid courses shall be assigned by the college based on the amount of time needed to achieve the same course outcomes in a purely face-to-face format.

Refer to the following policies:

[402.00 Academic Code of Conduct](#)

[263.00 Student Appeal of Course Grades](#)

[403.00 Student Code of Conduct](#)

Disability Services Program:

Cowley College, in recognition of state and federal laws, will accommodate a student with a documented disability. If a student has a disability, which may impact work in this class which requires accommodations, contact the Disability Services Coordinator.