



MCKENDREE
UNIVERSITY

The mission of McKendree University is to provide a high quality educational experience to outstanding students.

~Responsible Citizenship ~Engagement ~Academic Excellence ~Lifelong Learning~

CBD 330 – Introduction to
Cyber Defense

Course Information

CBD 330 INTRODUCTION TO CYBER DEFENSE (3) In this course, students learn the basic concepts, terminology, and technologies that comprise the field of cyber defense. Students in this course are introduced to topics such as risk/threats in the cyber environment, threat assessment, cyber-defense terminology, cyber-defense planning, and general cyber-defense management. Prerequisite: CSI 130. As needed.

Course Learning Objectives

This course provides the foundation for understanding the key issues associated with protecting information assets, determining the levels of protection and response to security incidents, and designing a consistent, reasonable information security system, with appropriate intrusion detection and reporting features. The purpose of the course is to provide the student with an overview of the field of information security and assurance. Students will be exposed to the spectrum of security activities, methods, methodologies, and procedures. Coverage will include inspection and protection of information assets, detection of and reaction to threats to information assets, and examination of pre- and post-incident procedures, technical and managerial responses, and an overview of the information security planning and staffing functions.

Specific topic coverage includes:

- Introduction to Information Security
- The Need for Security
- Legal, Ethical, and Professional Issues in Information Security
- Planning for Security
- Risk Management
- Security Technology: Access Controls, Firewalls, and VPNs
- Security Technology: Intrusion Detection and Prevention Systems and Other Security Tools
- Cryptography
- Physical Security
- Implementing Information Security
- Security and Personnel
- Information Security Maintenance

General Class Policies

McKendree values an environment that fosters mutual respect, responsible citizenship, and supportive educational opportunities. As a student in this course you are expected to support and uphold these ideas. There will be no tolerance for obscene language, name calling, or other disrespectful activity.

Participation

Students must participate in the class activities. Participation involves responding to the discussion questions, reading discussion question responses of other students, asking questions, and turning in all assignments.

Academic Integrity

Any student detected of academic dishonesty will receive the appropriate sanctions, which can include a failing grade (“F”) for the course. In cases of serious violations, additional sanctions (such as academic probation or suspension) are possible.

Accommodations and ADA Policy

In accordance with the Americans with Disabilities Act (ADA), McKendree University provides services, auxiliary aids, and accommodations to meet the unique learning needs of students with disabilities.

Students with officially documented disabilities, medical needs, legal problems, or who are the victims of crimes may qualify for educational accommodations. A student requiring assistance should contact the McKendree Student Success and Advising Center (SSAC). The SSAC provides coordination and implementation of special accommodations for students with documented disabilities.

For further information regarding university or course policies, please consult with your instructor and/or refer to the catalog.

Assignments

[Insert assignment descriptions. Check with your division chair to determine if there are required shared assignments for the course. If the course is part of the General Education curriculum, then it must include an assignment linked to the student learning outcome. There also may be an associated rubric.]

Grading Information

Assessments	Percentage
Participate	10%
Quizzes	20%
Assignments	30%
Exams	40%
TOTAL	100 %

Grading Scale

93-100%	A	77-80%	C+
90-93%	A-	74-77%	C
87-89%	B+	70-73%	C-
84-87%	B	60-69%	D
80-83%	B-	0-59%	F

Course Schedule

THIS SYLLABUS IS SUBJECT TO CHANGE AT THE DISCRETION OF THE INSTRUCTOR

Module (Week)	Activities/Assignments	Due Date
1	<p>Read Chapter 1: Introduction to Information Systems Chapter 2: The Need for Security</p> <p>Participation Student Introduction Week 1 Discussion</p> <p>MindTap Assignments Chapter 1 Reviewing the Basics Quiz Chapter 2 Reviewing the Basics Quiz</p>	
2	<p>Read Chapter 4: Planning for Security</p> <p>Participation Week 2 Discussion</p> <p>MindTap Assignments Watch: Visualize: Contingency Planning video Chapter 4 Reviewing the Basics Quiz</p>	
3	<p>Read Chapter 10: Implementing Information Security Chapter 11: Security and Personnel</p> <p>Participation Week 3 Discussion</p> <p>MindTap Assignments Watch: Visualize: Personnel Security Chapter 10 Reviewing the Basics Quiz Chapter 11 Reviewing the Basics Quiz</p>	

4	<p>Read Chapter 5: Risk Management</p> <p>Participation Week 4 Discussion</p> <p>MindTap Assignments Watch: Visualize: Risk Assessment Watch: Visualize: Risk Control Chapter 5 Reviewing the Basics Quiz Mid-Term Exam</p>	
5	<p>Read Chapter 6: Security Technology: Access Controls, Firewalls, and VPNs Chapter 7: Intrusion Detection and Prevention Systems, and other Security Tools</p> <p>Participation Week 5 Discussion</p> <p>MindTap Assignments Watch: Visualize: Security Information and Event Management Chapter 6 Reviewing the Basics Quiz Chapter 7 Reviewing the Basics Quiz</p>	
6	<p>Read: Chapter 5: Cryptography</p> <p>Participation Week 6 Discussion</p> <p>MindTap Assignments Watch: Cryptography: The Science of Making and Breaking Codes (https://www.youtube.com/watch?v=-yFZGF8FHSg) Chapter 8 Reviewing the Basics Quiz</p>	
7	<p>Read Chapter 3: Legal, Ethical, and Professional Issues in Information Systems Chapter 9: Physical Security</p> <p>Participation Week 7 Discussion</p> <p>MindTap Assignments Watch: Visualize: Security Information and Event Management</p>	

	Chapter 3 Reviewing the Basics Quiz Chapter 9 Reviewing the Basics Quiz	
8	<p>Read Chapter 12: Information Security Maintenance</p> <p>Participation Week 8 Discussion</p> <p>MindTap Assignments Chapter 12 Reviewing the Basics Quiz</p> <p>Final Exam</p>	

If necessary, adjustments to the Grading Information and/or Course Schedule may occur.