



Syllabus



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CITM-502: Information Systems Security

Course Description

Digital interconnectivity has reshaped communications through the use of the Internet. With the ability to connect hundreds of millions of users simultaneously comes an ongoing requirement to secure user data. This course covers the body of knowledge related to information systems security, including the broader topics related to cybersecurity. Course themes will include security frameworks, policies, threat management, and mitigation strategies. Biblical and ethical principles will be integrated into information security management processes.

Credit Hours: 3

Prerequisite Courses: None

Prerequisite Skills and Knowledge: None

Course Outcomes

Upon successful completion of this course, students should be able to:

1. Describe and classify the types of threats to an organization's infrastructure and data.
2. Select appropriate security frameworks to design a comprehensive security posture.

3. Implement strategies to mitigate threats and contain any attacks that may infect the computing environment.
 4. Design a comprehensive training and awareness plan to educate the user community on security policies and procedures.
 5. Integrate biblical and ethical principles into information security management processes.
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Course Topics

- Examine security threats and vulnerabilities inherent in information systems.
 - Evaluate and assess the variety of information system security mitigation strategies in use and formulate best practices in securing those systems.
 - Develop a user security awareness program.
 - Develop plans for responding to a security incident and providing data recovery and business continuity following an incident.
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Course Resources

Conklin, W.A., White, G., Cothren, C., & Davis, R.L. (2018). *Principles of Computer Security: CompTIA Security and Beyond* (5th ed.). McGraw-Hill.

Please note: If you receive your course materials from Tree of Life, you will receive an email from Tree of Life giving you details on how to access the textbook in an eText format.

IWU Diversity Statement

IWU, in covenant with God's reconciling work and in accordance with the Biblical principles of our historic Wesleyan tradition, commits to build a community that reflects Kingdom diversity.

We will foster an intentional environment for living, teaching, and learning, which exhibits honor, respect, and dignity. Acknowledging visible or invisible differences, our community authentically values each member's earthly and eternal worth. We refute ignorance and isolation and embrace deliberate and courageous engagement that exhibits Christ's commandment

generate and courageous engagement that exhibits sincere commitment to love all humankind. (2016)

Grading Scale

Grade	Quality Points Per Credit	Percentage	Score
A	4.0	95%–100%	950–1000
A-	3.7	92%–94.9%	920–949
B+	3.3	89%–91.9%	890–919
B	3.0	85%–88.9%	850–889
B-	2.7	82%–84.9%	820–849
C+	2.3	79%–81.9%	790–819
C	2.0	75%–78.9%	750–789
C-	1.7	72%–74.9%	720–749
D+	1.3	69%–71.9%	690–719
D	1.0	65%–68.9%	650–689
F	0.0	0%–64.9%	0–649

Note: In graduate level courses, a grade of C or below will require the

NOTE: In graduate level courses, a grade of C- or below will require the course to be repeated.

Grading Policies

Your grading policy for your course is dependent on your school and program. Your grading policies can be found in the [IWU Catalog](#).

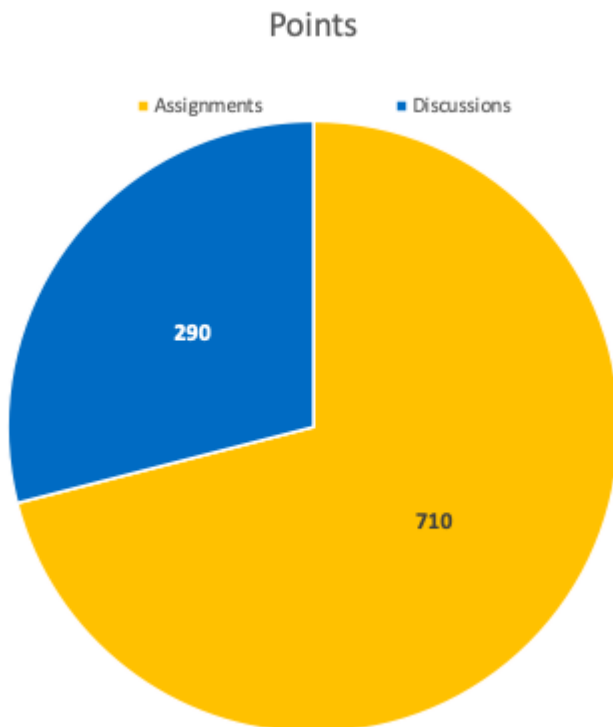
Letter Grade Equivalencies

Grade	Quality Points Per Credit
A	Clearly stands out as excellent performance. Has unusually sharp insights into material and initiates thoughtful questions. Sees many sides of an issue. Articulates well and writes logically and clearly. Integrates ideas previously learned from this and other disciplines. Anticipates next steps in progression of ideas. Example "A" work should be of such nature that it could be put on reserve for all cohort members to review and emulate. The "A" cohort member is, in fact, an example for others to follow.
B	Demonstrates a solid comprehension of the subject matter and always accomplishes all course requirements. Serves as an active participant and listener. Communicates orally and in writing at an acceptable level for the degree program. Work shows intuition and creativity. Example "B" work indicates good quality of performance and is given in recognition for solid work; a "B" should be considered a good grade and awarded to those who submit assignments of quality less than the exemplary work described above.
C	Quality and quantity of work in and out of class is average. Has marginal comprehension, communication skills, or initiative. Requirements of the assignments are addressed at least minimally.
	Quality and quantity of work is below average. Has minimal

D	comprehension, communication skills, or initiative. Requirements of the assignments are addressed at below acceptable levels.
F	Quality and quantity of work is unacceptable and does not qualify the student to progress to a more advanced level of work.

Note: In graduate level courses, a grade of C- or below will require the course to be repeated.

Grade Summary



Workshop Outlines

Workshop One Outline

Title	Due Dates	Time	Points
1.1 Assignment:	Due by the end of the	1 hour	10

Devotional	workshop.		
1.2 Discussion: Textbook Reading	Due by the end of the workshop.	7.5 hours	5
1.3 Discussion: Introduce Yourself	Due by the end of the workshop.	2 hours	10
1.4 Discussion: Understanding the Cybersecurity Landscape	Initial post due by Day 4; response(s) due by the end of the workshop.	3.5 hours	50
Totals		14 hours*	75

*These times are only estimates. Actual completion times will vary.

Workshop Two Outline

Title	Due Dates	Time	Points
2.1 Assignment: Devotional	Due by the end of the workshop.	1 hour	10
2.2 Discussion: Textbook Reading	Due by the end of the workshop.	12 hours	5
2.3 Discussion: Cryptographic Functions	Initial post due by Day 4; response(s) due by the end of the workshop.	3.5 hours	50
2.4 Assignment: Threat Analysis (Phase 1 of Final Project)	Due by the end of the workshop.	6 hours	100
Totals		22.5 hours*	165

*These times are only estimates. Actual completion times will vary.

Workshop Three Outline

Title	Due Dates	Time	Points
3.1 Assignment: Devotional	Due by the end of the workshop.	1 hour	10
3.2 Discussion: Textbook Reading	Due by the end of the workshop.	18 hours	5
3.3 Discussion: Protecting System Infrastructure	Initial post due by Day 4; response(s) due by the end of the workshop.	3.5 hours	50
Totals		22.5 hours*	65

*These times are only estimates. Actual completion times will vary.

Workshop Four Outline

Title	Due Dates	Time	Points
4.1 Assignment: Devotional	Due by the end of the workshop.	1 hour	10
4.2 Discussion: Textbook Reading	Due by the end of the workshop.	14 hours	5
4.3 Discussion: Security Threats and Vulnerabilities	Initial post due by Day 4; response(s) due by the end of the workshop.	3.5 hours	50
4.4 Assignment: Mitigation Strategy (Phase 2 of Final Project)	Due by the end of the workshop.	6 hours	100
Totals		24.5 hours*	165

*These times are only estimates. Actual completion times will vary.

Workshop Five Outline

Title	Due Dates	Time	Points
5.1 Assignment: Devotional	Due by the end of the workshop.	1 hour	10
5.2 Discussion: Textbook Reading	Due by the end of the workshop.	9.5 hours	5
5.3 Assignment: Business Continuity Plan (Phase 3 of Final Project)	Due by the end of the workshop.	6 hours	100
Totals		16.5 hours*	115

*These times are only estimates. Actual completion times will vary.

Workshop Six Outline

Title	Due Dates	Time	Points
6.1 Assignment: Devotional	Due by the end of the workshop.	1 hour	10
6.2 Discussion: Textbook Reading	Due by the end of the workshop.	8.5 hours	5
6.3 Discussion: Responses to Security Breaches	Initial post due by Day 4; response(s) due by the end of the workshop.	3.5 hours	50
6.4 Assignment: Final Paper (Phase 4 of Final Project)	Due by the end of the workshop.	20 hours	350

End of Course Survey	Due by the end of the workshop.	30 minutes	10 Extra Credit
Totals		33.5 hours*	415

*These times are only estimates. Actual completion times will vary.

Outline Totals

Total Time	Total Points
133.5 hours*	1000

* These timings are based on estimations of average times to complete each activity. Actual activity completion times will vary.

Alternative Assignment Policy

Students with a documented disability may request accommodations for an alternative assignment(s) for course activities (Examples: video assignments, etc.). It is the student’s responsibility to submit the form received from the Disability Services Office indicating his/her specific

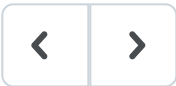
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Activity Details

Completion Summary

Task: View this topic