North Central State College

MASTER SYLLABUS	**2025-2026**

A. <u>Academic Division</u>: Engineering Technology, Business & Criminal Justice Division

B. <u>Discipline</u>: Information Technology - Cybersecurity

C. <u>Course Number and Title</u>: ITEC1420 - Introduction to Information Security

D. <u>Assistant Dean</u>: Brooke Miller, M.B.A.

E. <u>Credit Hours</u>: 3
   Lecture: 2 hours
   Laboratory: 2 hours

F. <u>Prerequisites</u>: None

G. <u>Last Course/Curriculum Revision Date</u>: Fall 2025   Origin date: 11/27/2017

H. <u>Textbook(s) Title</u>:

   FUNDAMENTALS OF INFORMATION SYSTEMS SECURITY PRINT BUNDLE WITH VIRTUAL LAB ACCESS 3.0
   - Authors: David Kim and Michael G. Solomon
   - Copyright Year: 2023
   - Edition: 4th
   - ISBN: 9781284251333

I. <u>Workbook(s) and/or Lab Manual</u>: An external USB 3.0 hard drive, 500 gigabytes or larger is required.

J. <u>Course Description</u>: This course provides an overview of security challenges and strategies of countermeasure in the information systems environment. Topics include definition of terms, concepts, elements, and goals incorporating industry standards and practices with a focus on confidentiality, availability and integrity aspects of information systems.

K. <u>College-Wide Learning Outcomes</u>:

College-Wide Learning Outcome	**Assessments - - How it is met & When it is met**
Communication – Written	
Communication – Speech	
Intercultural Knowledge and Competence	
Critical Thinking	
Information Literacy	
Quantitative Literacy	

North Central State College
SYLLABUS ADDENDUM

Academic Division:	Engineering Technology, Business & Criminal Justice Division	**Discipline:**	Cybersecurity
Course Coordinator:	Dr. Mohamed Ghonimy		
Course Number:	ITEC-1420-920	**Course Title:**	Introduction to Information Security
Semester / Session:	Fall 2025 / Session A	**Start / End Date:**	08/11/2025 thru 10/03/2025

Instructor Information

Name:	Dr. Mohamed Ghonimy	**Credentials:**	PhD
Phone Number:	4197554528	**E-Mail Address:**	mghonimy@ncstatecollege.edu
Office Location:	ATC-136	**Office Hours:**	M 1-4 pm, W 4:7 PM

I. Topical Timeline / Course Calendar (Subject to Change):

Weeks	Topics	Assignment	Due Date
1	1. Information Systems Security 2. Emerging Technologies Are Changing How We Live	Assignment 1, Quiz 1	Sunday 8-17- 2025
2	3. Risks, Threats, And Vulnerabilities 4. Business Drivers of Information Security	Assignment 2, Quiz 2, Lab 2	Sunday 8-24- 2025
3	5. Networks and Telecommunications 6. Access Controls	Assignment 3, Quiz 3	Sunday 8-31- 2025
4	7. Cryptography 8. Malicious Software and Attack Vectors	Assignment 4, Quiz 4, Lab 3	Sunday 9-7- 2025
5	9. Security Operations and Administration 10. Auditing, Testing, and Monitoring	Assignment 5, Quiz 5, Lab 4	Sunday 9-14- 2025
6	11. Contingency Planning 12. Digital Forensics	Assignment 6, Quiz 6	Sunday 9-21- 2025
7	13. Information Security Standards 14. Information Security Certifications 15. Compliance Laws	Assignment 7, Quiz 7, Lab 10	Sunday 9-28- 2025
8	16. Final Exam		Thursday 10-2-2025

II. Grading and Testing Guidelines:

Final Grade Calculation

Course Number:	ITEC-2420-920	Course Title:	Introduction to Information Security
Semester / Session:	Fall 2025 / Session A	Start / End Date:	8/11/2055 – 10/3/2025

Activity	Qty	Points	Percentage
Assignments	7	100	30
Quizzes	7	100	30
Labs	4	100	25
Final Exam	1	100	15
Total			100

III. <u>Examination Policy</u>:

1. The reasons for which a student will be excused from taking an examination _____
   a. Hospitalization (with documented verification)
   b. Death in the immediate family (with documented verification)
   c. Personal illness or illness in immediate family - (doctor's excuse required).
2. A student who misses an examination for any reason is responsible for fulfilling all course requirements during this time
   a. Studying all the material that was covered during this time
   b. Contact the instructor to discuss rescheduling options if the provided documents were accepted.

3. No makeup opportunity will be given for absences of unscheduled quizzes.

IV. <u>Class Attendance and Homework Make-Up Policy</u>:

1. Class attendance is necessary to acquire the knowledge required to be successful in this course.
2. Assignments submitted late without prior communication and approval may receive a **penalty 10% per day**, or may not be accepted for credit. This will be handled on a case-by-case basis

3. Students are responsible for _____
   a. Study the course material every week as instructed in the syllabus.
   b. Submitting homework by the due dates.

V. <u>Classroom Expectations</u>:

1. All homework assignments, quizzes and labs are expected to be submitted by their due dates as indicated in Canvas.
2. communicate proactively with your instructor if you need assistance.
3. If you anticipate or experience an issue that prevents you from submitting an assignment on time, you **must contact me via email** at mghonimy@ncstatecollege.edu **as soon as possible**, preferably before the deadline.

L.   Course Outcomes and Assessment Methods:

Upon successful completion of this course, the student shall:

Outcomes	Assessments – How it is met & when it is met
Explain information systems security and its effect on people and businesses.	Weeks 1-2 tests, labs, midterm/final exam, final project
Describe how malicious attacks, threats, and vulnerabilities impact an IT infrastructure.	Weeks 1-4, 15 tests, labs, midterm/final exam, final project
Explain the role of access controls in an IT infrastructure.	Weeks 5-6 tests, labs, midterm/final exam, final project
Explain the role of IT operations, administration, and security policies.	Weeks 4,10,13 tests, labs, midterm/final exam, final project
Explain the importance of security audits, testing, and monitoring in an IT infrastructure.	Weeks 5-9 tests, labs, final exam, final project
Describe the principles of risk management, common response techniques, and issues related to recovery of IT systems.	Weeks 5-12 tests, labs, final exam, final project
Explain how businesses apply cryptography in maintaining information security.	Weeks 10-15 tests, labs, final exam, final project
Describe networking principles and security mechanisms.	Weeks 10-16 tests, labs, final exam, final project

M.   Recommended Grading Scale:

NUMERIC	GRADE	POINTS	DEFINITION
93–100	A	4.00	Superior
90–92	A-	3.67	Superior
87–89	B+	3.33	Above Average
83–86	B	3.00	Above Average
80–82	B-	2.67	Above Average
77–79	C+	2.33	Average
73–76	C	2.00	Average
70-72	C-	1.67	Below Average
67–69	D+	1.33	Below Average
63-66	D	1.00	Below Average
60-62	D-	0.67	Poor
00--59	F	0.00	Failure

N.   College Procedures/Policies:

North Central State College believes that every student is a valued and equal member of the community.* Every student brings different experiences to the College, and all are important in enriching academic life and developing greater understanding and appreciation of one another. Therefore, NC State College creates an inclusive culture in which students feel comfortable sharing their experiences. Discrimination and prejudice have no place on the campus, and the College takes any complaint in this regard seriously. Students encountering aspects of the instruction that result in barriers to their sense of being included and respected should contact the instructor, assistant dean, or dean without fear of reprisal.

*   *Inclusive of race, color, religion, gender, gender identity or expression, national origin (ancestry), military status (past, present or future), disability, age (40 years or older), status as a parent during pregnancy and immediately after the birth of a child, status as a parent of a young child, status as a foster parent, genetic information, or sexual orientation*

Important information regarding College Procedures and Policies can be found on the syllabus supplement located at
https://ncstatecollege.edu/documents/President/PoliciesProcedures/PolicyManual/Final%20PDFs/14-081b.pdf