North Central State College
MASTER SYLLABUS
2019-2020

A. <u>Academic Division</u>: Business, Industry, and Technology

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

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

D. <u>Course Coordinator</u>: Mohamed Ghonimy
       <u>Assistant Dean</u>: Toni Johnson, PhD

    <u>Instructor Information</u>:
- Name: Click here to enter text.
- Office Location: Click here to enter text.
- Office Hours: Click here to enter text.
- Phone Number: Click here to enter text.
- E-Mail Address   Click here to enter text.

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

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

G. <u>Syllabus Effective Date</u>: Fall, 2019

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

    Fundamentals of Information Systems Security
- Authors: Kim, David, and Michael G. Solomon
- Copyright Year: 2018
- Edition: 3rd
- ISBN: 978-1284116458

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	

College-Wide Learning Outcome	Assessments - - How it is met & When it is met
Quantitative Literacy	

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.   Topical Timeline (Subject to Change):

Week 1, Section 1: Information System Security
Week 2, Section 2: The Internet of Things Is Changing How We Live
Week 3, Section 3: Malicious Attacks, Threats, and Vulnerabilities
Week 4, Section 4: The Drivers of the Information Security
Week 5, Section 5: Access Controls
Week 6, Section 6: Security Operations and Administrations
Week 7, Section 7: Auditing, Testing, and Monitoring
Week 8, Section 8: Risk, Response, and Recovery
Week 9, Section 9: Cryptography
Week 10, Section 10: Networks and Telecommunications
Week 11, Section 11: Malicious code and Activity
Week 12, Section 12: Information Security Standards
Week 13, Section 13: Information Systems Security Education and Training
Week 14, section 14: Information Security Professional Certifications
Week 15, Section 15: U.S. Compliance Laws
Week 16, Section 16: Course Review and Final Examination

N.   <u>Course Assignments</u>:

1. Labs
2. Practice Questions
3. Exams
4. Midterm Exam
5. Final Exam

O.   <u>Recommended Grading Scale</u>:

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

P.   <u>Grading and Testing Guidelines</u>:

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

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

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

Click here to enter text.

T.   <u>College Procedures/Policies</u>:

Important information regarding College Procedures and Policies can be found on the [syllabus supplement](#) located at https://sharept.ncstatecollege.edu/committees/1/curriculum/SiteAssets/SitePages/Home/SYLLABUS%20SUPPLEMENT.pdf

The information can also be found Choose an item.