

COURSE OUTCOME MATRIX

COURSE SYLLABUS

PART 2 of 3

Course Number and Title	IT170 Fundamentals of Information Systems Security
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Credit Hours	3
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Course Description	This course is intended to introduce the concepts of systems security. The major areas of instruction include information security fundamentals; the seven domains of a typical IT infrastructure; risks, threats, and vulnerabilities found in a typical IT infrastructure; and the security countermeasures employed to reduce or eliminate risks, threats, and vulnerabilities. Students will learn the essentials of the different components of information security.
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Prerequisite(s) and/or Corequisite(s)	None
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Required Textbooks/References/Course Materials:

Ethical Hacker Pro		TestOut	TestOut	9781935080695
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General Education Outcomes	
1	Utilize written and verbal language to discuss and comprehend information, incorporating a variety of technologies, such as text, data, and images (written language, verbal language, and information technology).
2	Identify and interpret relevant information in order to formulate an opinion or conclusion (critical thinking).
3	Demonstrate and communicate computational methods and mathematical reasoning in a variety of formats (using words, tables, graphs, mathematical equations, etc., as appropriate) (quantitative literacy and fluency).
4	Communicate in appropriate ways with those who are culturally diverse (intercultural competence).

Program/Department Outcomes	
1	Discuss and evaluate potential technology related ethical dilemmas and apply decision-making techniques to resolve them.
2	Demonstrate proficiency in selecting, implementing, and operating information technology solutions to meet project requirements.
3	Apply essential IT support skills in order to install, configure, secure, and troubleshoot operating systems, programs, networks, and pc hardware.
4	Prepared to take and pass industry standard certification exams
5	Develop the ability to use oral and written communication effectively with clients and other industry professionals.
6	Engage in teams to develop and/or implement IT-based project solutions
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	Course Outcomes (CO)	Bloom's Domain for CO (C, A, P), Category, and Level	Program/Department Outcome(s)	Written Language	Verbal Language	Information Technology	Critical Thinking	Quantitative Literacy and Fluency	Intercultural Competence
1	Recall the OSI model layers	Cognitive Remembering (1)	1,2,4,5	2	1	2	2	0	0
2	Recall information security standards	Cognitive Remembering (1)	1,2,4,5	2	1	2	2	0	0
3	Recognize vendor-neutral and vendor-specific professional certifications	Cognitive Understanding (2)	1,2,4,5	2	1	2	2	0	0
4	Outline insecure coding practices	Cognitive Analyzing (4)	1,2,4,5	2	1	2	2	0	0
5	Generalize payment card industry standards	Cognitive Understanding (2)	1,2,4,5	2	1	2	2	0	0
6	Configure a firewall	Cognitive Creating (6)	1,2,3,4,5	2	0	2	2	1	0
7	Identify and locate education and training in the security field	Cognitive Applying (3)	1,2,4,5	2	1	2	2	0	0
8	Recall U.S. compliance laws	Cognitive Remembering (1)	1,2,4,5	2	1	2	2	0	0
9	Implement an information systems security policy	Cognitive Evaluating (5)	1,2,4,5	2	1	2	2	0	0
10	Create a domain-level security policy	Cognitive Creating (6)	1,2,4,5	2	1	2	2	0	0
11	Define and explain HIPAA	Cognitive Remembering (1)	1,2,4,5	2	1	2	2	0	0

Bloom's Domain Legend

C = Cognitive
A = Affective
P = Psychomotor

General Education Outcome Legend

2 = Included and Measurable
1 = Introduced and/or Minimally Addressed and Not Measurable
0 = Not included

Approved: May 2021
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