



Course Specification (Bachelor)

Course Title: Enterprise Cybersecurity

Course Code: IT462

Program: Information Technology

Department: Information Technology

College: College of Computer and Information Sciences

Institution: Majmaah University

Version: 2

Last Revision Date: 30 September 2022







Table of Contents

A. General information about the course:	3
B. Course Learning Outcomes (CLOs), Teaching Strategies and Assessment Methods	4
C. Course Content	5
D. Students Assessment Activities	6
E. Learning Resources and Facilities	6
F. Assessment of Course Quality	7
G. Specification Approval	7





A. General information about the course:

1. Course Identification

1. Credit hours: 3 (3,0,1)

2. Course type

Α.	□University	□College	□Depar	tment	🛛 Track	□Others
В.	□Required			🛛 Electi	ive	
3. Le	evel/year at wh	ich this course is	s offerec	l: ()		

4. Course general Description:

Enterprise Cybersecurity course presents a comprehensive framework for managing all aspects of an enterprise cybersecurity program. It enables an enterprise to architect, design, implement, and operate a coherent cybersecurity program that is seamlessly coordinated with policy, programmatic, IT life cycle, and assessment. Topics include Cybersecurity Challenge, Enterprise Cybersecurity Architecture, Implementing Enterprise Cybersecurity, Operating Enterprise Cybersecurity, Enterprise Cybersecurity and the Cloud, Enterprise Cybersecurity for Mobile, building an Effective Defense, responding to Incidents, Managing a Cybersecurity Crisis.

5. Pre-requirements for this course (if any):

70 Cr.

6. Pre-requirements for this course (if any):

IT343

7. Course Main Objective(s):

Analyze and resolve security issues in networks and computer systems to secure an IT infrastructure. Design, develop, test and evaluate secure software. Develop policies and procedures to manage enterprise security risks.

2. Teaching mode (mark all that apply)





No	Mode of Instruction	Contact Hours	Percentage
1	Traditional classroom	60	100%
2	E-learning		
	Hybrid		
3	Traditional classroom		
	 E-learning 		
4	Distance learning		

3. Contact Hours (based on the academic semester)

No	Activity	Contact Hours
1.	Lectures	45
2.	Laboratory/Studio	
3.	Field	
4.	Tutorial	15
5.	Others (specify)	
Total		60

B. Course Learning Outcomes (CLOs), Teaching Strategies and Assessment Methods

Code	Course Learning Outcomes	Code of CLOs aligned with program	Teaching Strategies	Assessment Methods
1.0	Knowledge and under	standing		
1.1				
1.2				
•••				
2.0	Skills			
2.1	CLO4. Analyze a cybersecurity program's policy, people, budget, technology, and assessment.	\$3	Classroom Teaching	Assignments
2.2				





Code	Course Learning Outcomes	Code of CLOs aligned with program	Teaching Strategies	Assessment Methods
3.0	Values, autonomy, and	d responsibility		
3.1	CLO 1- Discover how enterprise cybersecurity is evolving	V2	Classroom Teaching	Tests, Mid Exam, Final Exam
3.2	CLO 2. Know and apply the methodology of targeted attacks	V2	Classroom Teaching	Tests, Mid Exam, Final Exam
3.3	CLO 3 Understand why cybersecurity capabilities are the foundation of effective cyber defenses.	V2	Classroom Teaching	Tests, Mid Exam, Final Exam
3.4	CLO4. Analyze a cybersecurity program's policy, people, budget, technology, and assessment.	V1	Classroom Teaching	Case Study
3.5	CLO 5. Understand the operational processes and supporting information systems of a successful enterprise cybersecurity	V2	Classroom Teaching	Tests, Mid Exam, Final Exam

C. Course Content

No	List of Topics	Contact Hours
1.	Cybersecurity Challenges	4
2.	Enterprise Cybersecurity Architecture	8
3.	Implementing Enterprise Cybersecurity	6
4.	Operating Enterprise Cybersecurity	8
5.	Enterprise Cybersecurity and the Cloud	8





6.	Enterprise Cybersecurity for Mobile	6
7.	Building an Effective Defense	4
8.	Responding to Incidents	6
9.	Managing a Cybersecurity Crisis	6
10.	Revision	4
	Total	60

D. Students Assessment Activities

No	Assessment Activities *	Assessment timing (in week no)	Percentage of Total Assessment Score
1.	Tests	3,12	20%
2.	Assignments and Case study	5,11	20%
3.	Mid Exam	8	20%
4.	Final Exam	16	40%

*Assessment Activities (i.e., Written test, oral test, oral presentation, group project, essay, etc.).

E. Learning Resources and Facilities

1. References and Learning Resources

Essential References	Scott Donaldson , Stanley Siegel , Chris K. Williams, Abdul Aslam , Enterprise Cybersecurity: How to Build a Successful Cyberdefense Program Against Advanced Threats, Apress, 1st ed. Edition, 2018, ISBN-13: 978-1430260820
Supportive References	 Aaron Woody, Enterprise Security: A Data-Centric Approach to Securing the Enterprise, 2013, ISBN-13: 978-1849685962 Brian J Allen, Rachelle Loyear , Enterprise Security Risk Management: Concepts and Applications, 2017, Rothstein Associates, Incorporated, ISBN-13: 978-1944480448
Electronic Materials	
Other Learning Materials	

2. Required Facilities and equipment

Items	Resources
facilities (Classrooms, laboratories, exhibition rooms, simulation rooms, etc.)	Classroom





Items	Resources
Technology equipment (projector, smart board, software)	PC or Laptop with Windows/Linux, Smart Board, Projector
Other equipment (depending on the nature of the specialty)	

F. Assessment of Course Quality

Assessment Areas/Issues	Assessor	Assessment Methods
Effectiveness of teaching	Student	Indirect
Effectiveness of Students assessment	Instructor	Direct
Quality of learning resources	Instructor	Direct
The extent to which CLOs have been achieved	Student	Indirect

Other

Assessors (Students, Faculty, Program Leaders, Peer Reviewer, Others (specify) Assessment Methods (Direct, Indirect)

G. Specification Approval

COUNCIL /COMMITTEE	
REFERENCE NO.	
DATE	

