Course Specifications

Course Title:	**Applied Social Engineering**
Course Code:	**CSEC 415**
Program:	**Information and Computer Sciences**
Department:	**Computer Science and Information**
College:	**College of Science in AzZulfi**
Institution:	**Al Majmaah University**

Table of Contents

A. Course Identification

1. Credit hours:3
2. Course type **a.** University ☐ College ☐ Department ☐ Others ☐ **b.** Required ☐ Elective ■
3. Level/year at which this course is offered:
4. Pre-requisites for this course (if any)**:** Cyber Security Principles
5. Co-requisites for this course (if any)**:** **None**

6. Mode of Instruction (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1	**Traditional classroom**	48	80%
2	**Blended**	6	10%
3	**E-learning**	0	0%
4	**Correspondence**	0	0%
5	**Other**	6	10%

7. Actual Learning Hours (based on academic semester)

No	Activity	Learning Hours
Contact Hours		
1	**Lecture**	30
2	**Laboratory/Studio**	15
3	**Tutorial**	15
4	**Others** (specify)	-
	Total	60
Other Learning Hours*		
1	**Study**	30
2	**Assignments**	30
3	**Library**	15
4	**Projects/Research Essays/Theses**	15
5	**Others** (specify)	10
	Total	100

***** The length of time that a learner takes to complete learning activities that lead to achievement of course learning outcomes, such as study time, homework assignments, projects, preparing presentations, library times

B. Course Objectives and Learning Outcomes

1. Course Description

A hands-on course in which students investigate social engineering attacks and develop technical, policy, and risk management responses. Topics social engineering mechanics, principles of persuasion, preparation, traditional social engineering attacks and defenses, Ambient Tactical Deception (ATD), policy response, risk management, ethics and societal impact of social engineering

2. Course Main Objective

Understand how to plan and execute an effective social engineering assessment

2 Learn how to configure and use the open-source tools available for the social engineer

3 Identify parts of an assessment that will most benefit time-critical engagements

4 Learn how to design target scenarios, create plausible attack situations, and support various attack vectors with technology

5 Create an assessment report, then improve defense measures in response to test results

3. Course Learning Outcomes

CLOs		Aligned PLOs
1	**Knowledge:**	
1.1	Describe the role of cyber Security with Identifying different kinds of threats to systems.	K3-CSEC
1.2	Understand the basic categories of threats in cybersecurity	
1.3		
1.4		
2	**Skills :**	
2.1	Explain the objectives of social engineering	S3-CSEC
2.2	understood the major types of social engineering attacks and Outline of cyber security concepts	
2.3		
2...		
3	**Competence:**	
3.1	Function effectively on teams to accomplish a common goal	C3-CSEC
3.2		
3.3		
3...		

C. Course Content

No	List of Topics	Contact Hours
1	Review Principles of Cyber Security	8
2	concept of social engineering attacks	8
3	some Topics of social engineering mechanics, principles of persuasion, preparation,	8
4	Introduce to the traditional social engineering attacks and defenses	8
5	Ambient Tactical Deception (ATD)	8
6	policy response	4
8	to management risks of social engineering attacks	8
9	ethics and societal impact of social engineering	8

Total	60

D. Teaching and Assessment

1. Alignment of Course Learning Outcomes with Teaching Strategies and Assessment Methods

Code	Course Learning Outcomes	Teaching Strategies	Assessment Methods
1.0	**Knowledge**		
1.1	Describe the role of cyber Security with Identifying different kinds of threats to systems.	Lectures Lab demonstrations Case studies Individual presentations	Written Exam Homework assignments Class & Lab Activities Quizzes
1.2	Understand the basic categories of threats in cybersecurity		
…			
2.0	**Skills**		
2.1	Explain the objectives of social engineering	Lectures Lab demonstrations Case studies Individual presentations Brainstorming	Written Exam assignments Lab Activities Quizzes
2.2	understood the major types of social engineering attacks and Outline of cyber security concepts		
…			
3.0	**Competence**		
3.1	Function effectively on teams to accomplish a common goal	Small group discussion Whole group discussion Brainstorming Presentation	Written Exam Homework assignments Lab assignments Class Activities Quizzes
3.2			
…			

2. Assessment Tasks for Students

#	Assessment task*	Week Due	Percentage of Total Assessment Score
1	First written mid-term exam	6	20%
2	Second written mid-term exam	12	20%
3	Class activities, group discussions, Presentation	Every 2 weeks	5%
4	Homework + Assignments	After Every chapter	5%
5	Electronic exam	14	5%
6	Lab activities	15	5%
7	Final written exam	16	40%
8			

***Assessment task** (i.e., written test, oral test, oral presentation, group project, essay, etc.)

E. Student Academic Counseling and Support

Arrangements for availability of faculty and teaching staff for individual student consultations and academic advice :

. Arrangements for availability of faculty and teaching staff for individual student consultations and academic advice. (include amount of time teaching staff are expected to be available each week)

- 6-office hours per week in the lecturer schedule.
- The contact with students by e-mail, mobile, office telephone, website and BlackBoard.

F. Learning Resources and Facilities

1.Learning Resources

Required Textbooks	Watson, Gavin, Andrew Mason, and Richard Ackroyd. Social engineering penetration testing: executing social engineering pen tests, assessments and defense. Syngress, 2014.
Essential References Materials	
Electronic Materials	
Other Learning Materials	

2. Facilities Required

Item	Resources
Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.)	Classrooms with required digital aids and to support traditional method of teaching using blackboard. Classrooms with proper lighting and air conditioning system integrated with the sound System /audio system. Classroom with smart board interface, display screen and a computer to aid the sessions
Technology Resources (AV, data show, Smart Board, software, etc.)	Smart Board with supporting software / computers with updated versions of software as required to understand the subject concepts.
Other Resources (Specify, e.g. if specific laboratory equipment is required, list requirements or attach a list)	**N/A**

G. Course Quality Evaluation

Evaluation Areas/Issues	Evaluators	Evaluation Methods
Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.)	Classrooms with required digital aids and to support traditional method of teaching using blackboard. Classrooms with proper lighting and air conditioning system integrated with the sound System /audio system. Classroom with smart board interface, display screen and a computer to aid the sessions	**Accommodation** (Classrooms, laboratories, demonstration rooms/labs, etc.)
Technology Resources (AV, data show, Smart Board, software, etc.)	Smart Board with supporting software / computers with updated versions of software as required to understand the subject concepts.	**Technology Resources** (AV, data show, Smart Board, software, etc.)
Other Resources (Specify, e.g. if specific laboratory equipment is required, list requirements or attach a list)	**N/A**	**Other Resources** (Specify, e.g. if specific laboratory equipment is required, list requirements or attach a list)
Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.)	Classrooms with required digital aids and to support traditional method of teaching using blackboard. Classrooms with proper lighting and air conditioning system integrated with the sound System /audio system. Classroom with smart board interface, display screen and a computer to aid the sessions	**Accommodation** (Classrooms, laboratories, demonstration rooms/labs, etc.)

Evaluation areas (e.g., Effectiveness of teaching and assessment, Extent of achievement of course learning outcomes, Quality of learning resources, etc.)
Evaluators (Students, Faculty, Program Leaders, Peer Reviewer, Others (specify)
Assessment Methods (Direct, Indirect)

H. Specification Approval Data

Council / Committee	
Reference No.	
Date	