كلية الهندسة والحوسبة المتقدمة
College of Engineering and Advanced Computing

Alfaisal University

BS in Cybersecurity | Study Plan Summary | Effective: Fall 2025

4 Year Curriculum: 130 Credit Hours Total

Freshman Year - Fall Semester		
Course Code	Course-Title	CRHs
SE 100	Programming for Engineers	3
SE 100 L	Programming for Engineers Lab	1
MAT 101	Calculus I	3
PHU 103	Physics I	3
PHU 103 L	Physics I Lab	1
ENG 101	University Writing	3
	Social Sciences Elective I	3
COE 100	Student Orientation & Academic Success	1
	Total	**18**

Freshman Year - Spring Semester		
Course Code	Course-Title	CRHs
SE 120	Object-Oriented Programming I	3
SE 120 L	Object-Oriented Programming I Lab	1
SE 151	Discrete Mathematics	3
MAT 112	Calculus II	3
PHU 124	Physics II	3
PHU 124 L	Physics II Lab	1
ENG 222	Technical Writing	3
	Total	**17**

Sophomore Year - Fall Semester		
Course Code	Course-Title	CRHs
SE 201	Introduction to Software Engineering	3
SE 215	Data Structures	3
SE 215 L	Data Structures Lab	1
SE 239	Network Programming	3
CSE 230	Programming in C	3
CSE 230 L	Programming in C Lab	1
MAT 212	Linear Algebra	3
	Total	**17**

Sophomore Year - Spring Semester		
Course Code	Course-Title	CRHs
SE 252	Database Management Systems	3
SE 252 L	Database Management Systems Lab	1
AI 250	Introduction to Artificial Intelligence	3
CSE 250	Introduction to Cybersecurity	3
STA 212	Probability and Statistics	3
EE 210	Digital Logic Design	3
EE 210 L	Digital Logic Design Lab	1
	Total	**17**

Junior Year - Fall Semester		
Course Code	Course-Title	CRHs
DSE 200	Introduction to Data Science	3
CSE 310	Linux System Administration	3
SE 314	Operating Systems	3
MAT 224	Numerical Methods	3
MAT 211	Calculus III	3
	Total	**15**

Junior Year - Spring Semester		
Course Code	Course-Title	CRHs
CSE 350	Cryptography and Data Privacy	3
CSE 360	Digital Forensics	3
CSE 370	Database Security	3
CSE 380	Operating System Security	3
MAT 213	Differential Equations	3
	Total	**15**

Junior Year – Summer Semester		
Course Code	Course-Title	CRHs
CSE 390	Internship	0
	Total	**0**

Senior Year - Fall Semester		
Course Code	Course-Title	CRHs
XX 4 _ _	Technical Elective I	3
XX 4 _ _	Technical Elective II	3
CSE 442	Network Security	3
SE 495	Capstone Project I	3
	Social Sciences Elective II	3
	Total	**15**

Senior Year - Spring Semester		
Course Code	Course-Title	CRHs
XX 4 _ _	Technical Elective III	3
XX 4 _ _	Technical Elective IV	3
SE 481	Ethics and Professional Development	1
CSE 496	Capstone Project II	3
CSE 454	Ethical Hacking and System Defense	3
	Social Sciences Elective III	3
	Total	**16**