Department of Computer Science & Engineering

Pre-requisite Structure
CS Cybersecurity Concentration 2021

Total Credit Hours =(120)
Total No. of Courses =(41)

QATAR UNIVERSITY

جامعة قطر

Year 1

Fall (16 hrs)
Spring (17 hrs)

Year 2

Fall (15 hrs)
Spring (16 hrs)

Year 3

Fall (17 hrs)
Spring (16 hrs)

Year 4

Fall (11 hrs)
Spring (12 hrs)

Year 1 - Fall
- Programming Concepts CMPS 151 (3)
- English Language I ENGL 202 (3)
- HIST 121 History of Qatar (3)
- General Chemistry 1 CHEM 101 (3)
- Experimental General Chemistry 1 CHEM 103 (1)
- Calculus I MATH 101 (3)

Year 1 - Spring
- Object Oriented Programming CMPS 251 (4)
- English Language II ENGL 203 (3)
- General Physics for Engineering I PHYS 191 (3)
- Experimental General Physics for Engineering I PHYS 192 (1)
- Linear Algebra MATH 231 (3)
- Calculus II MATH 102 (3)

Year 2 - Fall
- Data Structures CMPS 303 (4)
- Discrete Structures CMPS 205 (3)
- Computer Ethics CMPS 200 (1)
- Experimental General Physics for Engineering II PHYS 194 (1)
- General Physics for Engineering II PHYS 193 (3)
- Arabic Language I ARAB 100 (3) **

Year 2 - Spring
- Design & Analysis of A logarithms CMPS 323 (3)
- Fundamentals of Database CMPS 351 (4)
- Computer Architecture & Organization I CMPE 263 (3)
- Arabic Language II ARAB 200 (3)**
- Applied Cryptography CMPS 381 (3)
- Numerical Methods GENG 300 (3)
- Probability & Statistics GENG 200 (3)

Year 3 - Fall
- Software Engineering CMPS 310 (4)
- Data Communication & Networks I CMPE 355 (4)
- Natural Science/Mathematics package (3)
- Islamic Culture DAWA 111 (3) ***
- Network Security CMPS 485 (3)

Year 3 - Spring
- Operating Systems CMPS 405 (4)
- Computer Security CMPS 385 (3)
- Web Development Fundamentals CMPS 350 (3)

Year 4 - Fall
- Senior Project I CMPS 493 (3)*
- Introduction to Project Management and Entrepreneurship CMPS 307 (2)
- Enterprise Cybersecurity CMPS 481 (3)
- Humanities/Fine Arts package (3)

Year 4 - Spring
- Senior Project II CMPS 499 (3)*
- Principles of Management MAGT 101 (3)
- Cybersecurity Concentration Elective CMPS 48X (3)
- Social/Behavioral Sciences package (3)

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* Must complete 75 CH and CMPS 310 Software Engineering
** Alternative ARAB 107 and ARAB 201 are offered to non-native Arabic speakers
*** Offered both in Arabic and English

Legend

- **Core Curriculum Requirements** — Credit hrs(33) Courses (11)
- **College Requirements** — Credit hrs(21) Courses (9)
- **Major Core Requirements** — Credit hrs(49) Courses (15)
- **Concentration Requirements** — Credit hrs(12) Courses (4)
- **Major Supporting** — Credit hrs(5) Courses (2)

→ Prerequisite
⇢ Concurrent Prerequisites

Prerequisite must be completed prior to another course.
Concurrent prerequisite must be taken at the same time or completed prior to another course.