

Total

**Alfaisal University** Study Plan Summary

🍍 كلية الهندسة والحوسبة المتقدمة

**Bachelor in Cybersecurity** College of Engineering and Advanced Computing Effective: Fall 2025 ID#: Email: Advisor: Starting Semester: **Expected Graduation:** 4-Year Curriculum: 132 Credit Hours Total Freshman Year - Fall Semester Freshman Year - Spring Semester Semester Retake/ Semester Retake/ **Course Code** Course-Title **CRHs Course Code** Course-Title **CRHs** Transfer Transfer Taken Taken **SE 100 Programming for Engineers** 3 **SE 120** Object-Oriented Programming I 3 SE 100 L **Programming for Engineers Lab** 1 **SE 120 L** Object-Oriented Programming I Lab 1 Discrete Mathematics **MAT 101** 3 **SE 151** Calculus I 3 **Mechanics and Waves for PHU 103** 3 **MAT 112** Calculus II 3 **Engineers Mechanics and Waves for Electromagnetism and Optics for PHU 103 L** 1 **PHU 124** 3 **Engineers Lab Engineers** Electromagnetism and Optics for **ENG 101 University Writing** 3 **PHU 124 L** 1 Engineers Lab 2 3 **ISL 101** Islamic Studies I **ENG 222 Technical Writing ARB 101** Arabic Language and Literature I 2 18 Total Total 17 Sophomore Year - Fall Semester Sophomore Year - Spring Semester Retake/ Semester Retake/ Semester Course Code Course-Title **CRHs Course Code** Course-Title **CRHs** Transfei Transfer Taken Taken **SE 215** Database Management Systems **Data Structures** 3 **SE 252** 3 **SE 215 L Data Structures Lab** 1 **SE 252 L** Database Management Systems Lab 1 **CSE 230** 3 **SE 254** 3 Programming in C Operating Systems **CSE 230 L** Programming in C Lab SE 254 L Operating Systems Lab 1 1 SE 239 **Computer Networks** 3 **DSE 200** Introduction to Data Science 3 3 Introduction to Artificial Intelligence **EE 210 Digital Logic Design** AI 213 3 **CSE 330** Introduction to Cybersecurity **EE 210 I** Digital Logic Design Lab 1 3 **STA 212 Probability and Statistics** 3 Total 18 Total 17 Junior Year - Fall Semester Junior Year - Spring Semester Semester Retake/ Semester Retake/ Course Code Course-Title **CRHs Course Code** Course-Title **CRHs** Taken Transfer Taken Transfer Introduction to Software SE 201 3 **CSE 350** Cryptography and Data Privacy 3 **Engineering CSE 310** 3 **CSE 360** Digital Forensics 3 **Linux System Administration CSE 312 Computer Architecture** 3 **CSE 370 Database Security** 3 **MAT 211** Calculus III 3 **CSE 380** Operating System Security 3 **MAT 212 MAT 213 Differential Equations** Linear Algebra 3 3 **MAT 224 Numerical Methods** 3 Total 18 15 Total Junior Year - Summer Semester Semester Retake/ **CRHs** Course Code Course-Title Taken Transfer **Software Engineering Summer CSE 390** 0 Internship Total 0 Senior Year - Fall Semester Senior Year - Spring Semester Semester Semester Retake/ Retake/ **Course Code** Course-Title **CRHs Course Code** Course-Title **CRHs** Taken Transfer Taken Transfer Cybersecurity Risk Management and **SE 400** Theory of Computation 3 **CSE 443** 3 Control **CSE 410** Security Architecture 3 CSE 4 Technical Elective 1 Technical Elective 2 **CSE 442 Network Security** 3 CSE 4 3 Software Engineering Capstone **SE 495** 3 **SE 481 Ethical and Professional Development** 3 Project I Software Engineering Capstone Project 3 **General Education Elective I** 2 **CSE 496** GE \_ \_ \_

**GE** 

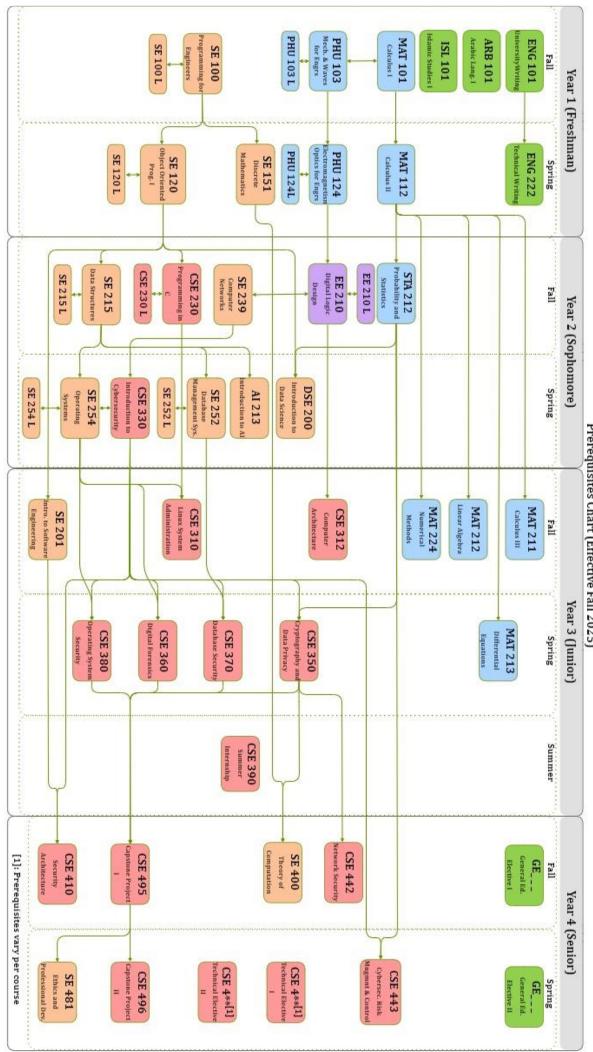
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**General Education Elective II** 

Total

2

15



Alfaisal University - Bachelor of Science Cybersecurity Engineering
Prerequisites Chart (Effective Fall 2025)