



Student:		ID#:		Email:	
Advisor:		Starting Semester:		Expected Graduation:	

4-Year Curriculum: 132 Credit Hours Total

Freshman Year - Fall Semester					Freshman Year - Spring Semester				
Course Code	Course-Title	CRHs	Semester Taken	Retake/ Transfer	Course Code	Course-Title	CRHs	Semester Taken	Retake/ Transfer
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		
MAT 101	Calculus I	3			SE 151	Discrete Mathematics	3		
PHU 103	Mechanics and Waves for Engineers	3			MAT 112	Calculus II	3		
PHU 103 L	Mechanics and Waves for Engineers Lab	1			PHU 124	Electromagnetism and Optics for Engineers	3		
ENG 101	University Writing	3			PHU 124 L	Electromagnetism and Optics for Engineers Lab	1		
ISL 101	Islamic Studies I	2			ENG 222	Technical Writing	3		
ARB 101	Arabic Language and Literature I	2							
Total		18			Total		17		

Sophomore Year - Fall Semester					Sophomore Year - Spring Semester				
Course Code	Course-Title	CRHs	Semester Taken	Retake/ Transfer	Course Code	Course-Title	CRHs	Semester Taken	Retake/ Transfer
SE 215	Data Structures	3			SE 252	Database Management Systems	3		
SE 215 L	Data Structures Lab	1			SE 252 L	Database Management Systems Lab	1		
CSE 230	Programming in C	3			SE 254	Operating Systems	3		
CSE 230 L	Programming in C Lab	1			SE 254 L	Operating Systems Lab	1		
SE 239	Computer Networks	3			DSE 200	Introduction to Data Science	3		
EE 210	Digital Logic Design	3			AI 213	Introduction to Artificial Intelligence	3		
EE 210 L	Digital Logic Design Lab	1			CSE 330	Introduction to Cybersecurity	3		
STA 212	Probability and Statistics	3							
Total		18			Total		17		

Junior Year - Fall Semester					Junior Year - Spring Semester				
Course Code	Course-Title	CRHs	Semester Taken	Retake/ Transfer	Course Code	Course-Title	CRHs	Semester Taken	Retake/ Transfer
SE 201	Introduction to Software Engineering	3			CSE 350	Cryptography and Data Privacy	3		
CSE 310	Linux System Administration	3			CSE 360	Digital Forensics	3		
CSE 312	Computer Architecture	3			CSE 370	Database Security	3		
MAT 211	Calculus III	3			CSE 380	Operating System Security	3		
MAT 212	Linear Algebra	3			MAT 213	Differential Equations	3		
MAT 224	Numerical Methods	3							
Total		18			Total		15		

Junior Year - Summer Semester				
Course Code	Course-Title	CRHs	Semester Taken	Retake/ Transfer
CSE 390	Software Engineering Summer Internship	0		
Total		0		

Senior Year - Fall Semester					Senior Year - Spring Semester				
Course Code	Course-Title	CRHs	Semester Taken	Retake/ Transfer	Course Code	Course-Title	CRHs	Semester Taken	Retake/ Transfer
SE 400	Theory of Computation	3			CSE 443	Cybersecurity Risk Management and Control	3		
CSE 410	Security Architecture	3			CSE 4__	Technical Elective 1	1		
CSE 442	Network Security	3			CSE 4__	Technical Elective 2	3		
SE 495	Software Engineering Capstone Project I	3			SE 481	Ethical and Professional Development	3		
GE ___	General Education Elective I	2			CSE 496	Software Engineering Capstone Project II	3		
					GE ___	General Education Elective II	2		
Total		14			Total		15		

Year 1 (Freshman)		Year 2 (Sophomore)		Year 3 (Junior)		Year 4 (Senior)	
Fall	Spring	Fall	Spring	Fall	Spring	Summer	Fall
ENG 101 University Writing ARB 101 Arabic Lang. I ISL 101 Islamic Studies I	ENG 222 Technical Writing			MAT 211 Calculus III MAT 212 Linear Algebra MAT 224 Numerical Methods	MAT 213 Differential Equations		GE --- General Ed. Elective I GE --- General Ed. Elective II
MAT 101 Calculus I PHU 103 Mech. & Waves for Engrs PHU 103 L	MAT 112 Calculus II PHU 124 Electromagnetism Optics for Engrs PHU 124 L	STA 212 Probability and Statistics EE 210 L EE 210 Digital Logic Design	DSE 200 Introduction to Data Science AI 213 Introduction to AI SE 252 Database Management Sys. SE 252 L	CSE 312 Computer Architecture CSE 350 Cryptography and Data Privacy CSE 370 Database Security CSE 360 Digital Forensics CSE 380 Operating System Security CSE 390 Summer Internship	CSE 442 Network Security SE 400 Theory of Computation CSE 443 Cybersec. Risk Mgmt. & Control CSE 4**[1] Technical Elective I CSE 4**[1] Technical Elective II		
SE 100 Programming for Engineers SE 100 L	SE 151 Discrete Mathematics SE 120 Object Oriented Prog. I SE 120 L	CSE 230 Programming in C CSE 230 L SE 215 Data Structures SE 215 L	SE 201 Intro. to Software Engineering SE 254 Operating Systems SE 254 L	CSE 495 Capstone Project I CSE 496 Capstone Project II SE 481 Ethics and Professional Dev.			

[1]: Prerequisites vary per course

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