

CSFC Current Plan

Level	Course Code	Course Title	Required or Elective	Pre-Requisite Courses	Credit Hours	Type of requirements (Institution, College or Department)
Level 1	EGNL 101	Fist Year Composition	Required	ENGL 005	3	Institution
	CS 111	Introduction to Computing and Programming	Required	PCS 001	4	College
	PHYS 101	General Physics I	Required	MATH 002	4	Department
	MATH 101	Calculus I	Required	MATH 002	4	College
	GHAL xxx	Humanities, Arts, and Languages Elective	Elective		3	Institution
Level 2	MATH 102	Calculus II	Required	MATH 101	4	College
	PHYS 102	General Physics II	Required	PHYS 101	4	Department
	CS 112	Object Oriented Programming	Required	CS 111	4	College
	ENGL 102	Introduction to Report Writing	Required	ENGL 101	3	Institution
	GSOS xxx	Social Sciences Elective	Elective		3	Institution
Level 3	GIAS 101	Islamic Culture	Required	MATH 102	3	Institution
	CS 201	Introduction to Discrete Systems	Required	CS 112	3	College
	CS 211	Data Structures and Algorithms	Required		4	College
	CS 221	Fundamentals of Operating Systems	Required	CS 211 (co-requisite)	4	College
	CS 351	Fundamentals of Database Systems	Required	CS 112	4	College
Level 4	GIAS 102	Arabic Language Skills	Required		3	Institution
	CS 262	System Analysis and Design	Required	CS 351	4	Department
	STAT 232	Probability and Statistics	Required	MATH 102	3	College
	CS 314	Web Application Development	Required	CS 112	3	Department
	CS 232	Computer Networks	Required	CS 221	4	Department
Level 5	FC 381	Ethical Hacking	Required	CS 232	3	Department
	FC 313	Cyber Security	Required	CS 232	3	Department
	FC 353	Operating System Security	Required	CS 221	3	Department
	FC 311	Web Security	Required	CS 314Co-Req: FC 313	3	Department
	ENGL 201	Technical Writing	Required	ENGL 102	3	Institution
Level 6	FC 302	Computer Forensics and Investigations	Required	CS 232	3	Department
	FC 332	Secure Software Design	Required	FC 353	3	Department
	FC 372	Ethics and Professionalism	Required		3	Department
	FC 304	Digital Forensic Tools and Techniques	Required	CS 232	4	Department
	FC 382	Defense Mechanisms	Required	FC 313	3	Department
	FC 394	Field Experience/ Internship	Required		1	Department
Level 7	FC 491	Capstone Project I	Required	FC 394	3	Department
	FC 411	Secure Network Design	Required	FC 313	3	Department
	GIAS xxx	Islamic Studies Elective	Elective		3	Institution
	FC xxx	Professional Elective I (e.g., FC 405 – Incident Response)	Elective	Department Approval	3	Department
	FC 421	Applied Cryptography	Required	STAT 232, CS 201	3	Department
Level 8	FC 492	Capstone Project II	Required	FC 491	3	Department
	GDMC xxx	Diversity and Multiculturalism Elective	Elective		3	Institution
	FC 472	Security and Privacy Policies	Required	FC 313	2	Department
	FC xxx	Professional Elective II (e.g., FC 494 – Python for Ethical Hacking)	Elective	Department Approval	3	Department
	FC 462	Security Risk Management	Required	FC 313	3	Department