

Bachelor of Science in Information Technology – Cybersecurity Concentration Study Plan (Fall Start)

Total Credit Hours: **126**

Semester 1

First Year (Freshman)

Semester 2

Code	Title	Credit	Prerequisite
ECT 200	Introduction to Computing	3	nil
ENG 200	English II	3	IELTS average score of 6 or EMSAT average score of 1400 or passing grade in ENG102. FWS100/USS001 as Co-req if placed in ENG200.
ARL 101	Communication Skills in Arabic I	3	nil
MTT 101	Pre-Calculus	3	P grade in MTH 100 or MPT
STT 100	General Statistics	3	nil

Total Credit Hours 15

Code	Title	Credit	Prerequisite
CSE 210	Introduction to Cybersecurity Engineering	3	ECT 200
FWS 205	UAE and GCC Society	3	ENG102 + FWS100/USS001. FWS100/USS001 (Co) if placed in ENG200 directly
GES 201	General Science	3	ENG102 + FWS100/USS001. FWS100/USS001 (Co) if placed in ENG200 directly
ISL 100	Islamic Culture	3	nil
COE 102	Introductory Big Data Analytics	3	STT 100

Total Credit Hours 15

Semester 3

Second Year (Sophomore)

Semester 4

Code	Title	Credit	Prerequisite
SWE 201	Structured Programming	3	MTT 101 or Higher
MTT 202	Discrete Structures and Applications	3	STT 100
STT 201	Intermediate Statistics and Research Methods	3	STT 100
OE 1	Open Elective I	3	-

Total Credit Hours 12

Code	Title	Credit	Prerequisite
CSC 202	Programming II	3	SWE 201 or CSC 201
CSC 302	Database Management Systems	3	MTT 202 + (SWE 201 or CSC 201)
CSC 307	Web design	3	SWE 201 or CSC 201
CSE 300	Introduction to Digital Forensics	3	SWE 201 or CSC 201
FWS 305	Technical Communications for Workplace	3	ENG 200 + (Comp. of 45CH)

Total Credit Hours 15

Summer Semester

Code	Title	Credit	Prerequisite
ITE 399A	Internship/Project in IT-Part A	1.5	60 Credit Hours

Semester 5

Third Year (Junior)

Semester 6

Code	Title	Credit	Prerequisite
CSC 301	Data Structures and Algorithms	3	CSC 202 + MTT 202
CSC 305	Data Communications and Networks	3	Junior Level
CSE 310	Introduction to Cryptography	3	STT 201 + MTT 202
SWE 401	Software Engineering	3	CSC 202
ITE 390	Computer Ethics	3	CSC 202
ITE 414	Introduction to E-Commerce	3	Junior Level

Total Credit Hours 18

Code	Title	Credit	Prerequisite
CSC 308	Operating Systems	3	CSC 301
CSE 400	Network Security and Forensics	3	CSC 305
ITE 402	Computer Networks Design and Implementation	3	CSC 305
ITE 421	Native Mobile Application Development	3	CSC 202
ITE 422	System and Network Administration	3	CSC 305
FWS 310	Fundamentals of Innovation and Entrepreneurship	3	ENG 200 + (Comp. of 60CH)

Total Credit Hours 18

Summer Semester

Code	Title	Credit	Prerequisite
ITE 399B	Internship/Project in IT-Part B	1.5	90 Credit Hours

Semester 7

Fourth Year (Senior)

Semester 8

Code	Title	Credit	Prerequisite
CSE 410	Mobile Device Security	3	CSC 305
ITE 401	IT Project Management	3	SWE 401
ITE 408	Information Security	3	CSC 305
ITE 409	Human Computer Interaction	3	CSC 401 or SWE 401
ITE 442	Data Science and Big Data Analytics	3	(SWE 201 or CSC 201) + STT 201
ITE 499A	Capstone Design Project I	1	Senior Level + SWE 401 + ITE 421

Total Credit Hours 16

Code	Title	Credit	Prerequisite
CSC 406	Artificial Intelligence	3	STT 201 + CSC 301
CSC 408	Distributed Information Systems	3	CSC 202 + CSC 305
CSE 420	Ethical Hacking	3	CSC 305
CIS 404	Data Warehousing and Data Mining	3	CSC 302
ITE 499B	Capstone Design Project II	2	ITE 499A

Total Credit Hours 14