

Program Structure

The Bachelor of Science in Cybersecurity program requires the completion of 123 credit hours, which include the following courses:

Type of Courses	Credit Hours
1. General Education Requirements	
(a) University Compulsory Courses	18
(b) University Elective Courses	12
2. Cybersecurity Program Courses	
(a) Program Core Courses	84
(b) Program Elective Courses	9
Total Credit Hours	123

Program Courses

1. General Education Courses

a. University Compulsory Courses (18 Cr. Hrs.)

Course No.	Course Title	Th.	Lab .	Tut.	Cr. Hrs.	Prerequisite
AUL100	Introduction to University Life	1	0	0	0	-
EMS112	Emirates Studies	3	0	0	3	-
ENG104	Advanced English Writing	3	0	0	3	-
ENG211	Public Speaking	3	0	0	3	-
THI212	Critical thinking and Quantitative Reasoning	3	0	0	3	-
INN311	Innovation & Sustainable Entrepreneurship	3	0	0	3	60 Credit Hours
STA114	General Statistics	2	2	0	3	-

b. University Elective Courses (12 Cr. Hrs.)

Course Code	Course Title	Th.	Lab.	Tut.	Cr. Hrs.	Prerequisite
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1. Humanities / Arts (3 Credit Hours)

ART111	Introduction to Arts	3	0	0	3	-
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COM103	Introduction to Film Studies	3	0	0	3	-
FRE211	Conversational French	3	0	0	3	-
HPS111	History and Philosophy of Science	3	0	0	3	-
ISL114	Islamic Culture	3	0	0	3	-
LAW106	Human Rights	3	0	0	3	-
WLT115	World Literature	3	0	0	3	-

2. Natural Sciences (3 Credit Hours)

AST211	Astronomy	3	0	0	3	-
BIO111	General Biology	2	2	0	3	-
CHM111	General Chemistry	2	2	0	3	-
ENV113	Science of Energy and Global Environment	3	0	0	3	-
FUT101	The Sciences of the Future	3	0	0	3	-
GEO102	Planet Earth	3	0	0	3	-
PHY111	General Physics	3	0	0	3	-

3. Social or Behavioral Sciences (6 Credit Hours)

COM102	Media Culture	3	0	0	3	-
CRM101	Introduction to Criminology	3	0	0	3	-
LAW112	Work Ethics	3	0	0	3	-
LED111	Leadership and Team Building	3	0	0	3	-
PSY111	General Psychology	3	0	0	3	-
SSW111	Social Responsibility	1	4	0	3	-

2. Cybersecurity Program Courses

a. Program Core Courses (84 Cr. Hrs.)

Course Number	Course Title	Credit Hours	Weekly Hours			Prerequisite
			Lecture	Lab	Tut	
CYB261	Cryptography	3	3	0	0	INT101, STA114

CYB311	Software Security	3	2	2	0	INT303, DAT100
CYB341	Networks Security	3	2	2	0	INT311, CYB261, INT303
CYB351	Cloud Computing Architecture and Security	3	2	2	0	INT303
CYB381	Cybersecurity Policies, Laws, Ethics, and Risk Management	3	3	0	0	INT303
CYB412	Malware Analysis	3	2	2	0	CYB311
CYB441	Network Defense	3	2	2	0	CYB341
CYB451	Security Analytics	3	2	2	0	CYB441
CYB452	Web Security	3	2	2	0	INT206, CYB341, INS305
CYB481	Digital Forensics	3	2	2	0	CYB412,CYB45 2
CYB491	Cybersecurity Capstone Project	3	1	4	0	Year 4
CYB492	Internship	3	3	0	0	Year 4
DAT100	Introduction to Data Analytics	3	2	2	0	INT100
INS305	Systems Analysis and Design	3	3	0	0	INT201
INT100	Introductory Programming	3	2	2	2	-
INT101	Calculus of Information Technology	3	3	0	2	-
INT201	Object Oriented Programming	3	2	2	2	INT 100
INT202	Discrete Mathematics	3	3	0	2	INT 101
INT203	Computer Organization	3	3	0	0	-
INT205	Fundamentals of Data Communication and Networking	3	2	2	0	INT 203 OR COE246
INT206	Fundamentals of Web Systems	3	2	2	2	INT201
INT209	Data Structures	3	3	0	2	INT201 and INT202
INT301	Operating Systems	3	2	2	0	INT203 OR COE246
INT302	Database Management Systems	3	2	2	0	INT201
INT303	Fundamentals of Information Security	3	3	0	0	INT205
INT311	Advanced Computer Networks	3	2	2	0	INT205
INT430	Artificial Intelligence	3	3	0	0	INT302
INT432	Ethical Hacking	3	2	2	0	CYB441, CYB452

b. Program Elective Courses (9 Cr. Hrs.)

Course Number	Course Title	Credit Hours	Weekly Hours			Prerequisite
			Lecture	Lab	Tut	
CYB321	Database Security	3	2	2	0	CYB261, INT302
CYB411	Cyberwarfare	3	3	0	0	INT303
CYB454	IoT security	3	3	0	0	CYB341
CYB455	Healthcare Security and Privacy	3	3	0	0	INT303
CYB456	Blockchain and Cryptocurrency Security	3	2	2	0	CYB261
CYB461	Advanced Cryptography	3	3	0	0	CYB261
CYB462	Introduction to Steganography	3	2	2	0	CYB261
CYB472	Operating Systems Security	3	2	2	0	INT301, INT303
CYB482	Advanced Ethical Hacking	3	2	2	0	INT432
CYB483	Artificial Intelligence Security	3	2	2	0	INT430, CYB451
CYB493	Special Topics in Cybersecurity	3	3	0	0	Completion of (60 CHs)
INT429	Mobile Applications	3	2	2	0	INT301, INT302