



American University of Iraq, Sulaimani

BSc. In Cybersecurity Program
Degree Progress Guide (Spring 2022 - Onwards)

Below is the natural sequence of Cybersecurity program courses designed for students to register per semester. Other degree requirements and comprehensive details are to be found in the AUIS Academic Catalog.

Course Code and Description	Credits	Prerequisite(s)	✓
1st Semester			
CSC 101 - Computer Science and IT Applications (Core)	3	None	
MTH 101 - College Algebra (Core)	3	None	
ENG 101 - Argumentation (Core)	3	None	
CIV 101 - Civilization I: The Ancient World (History) (Core)	3	None	
SCI 101 + SCIL101 - Life Science + Life Science Lab (Core)	3	None	
Total Credits	15		
2nd Semester			
ITE 202 - IT Systems (Major)	3	CSC 101	
MTH 235 - Discrete Mathematics (Core)	3	MTH 101 or placement in MTH 133	
STT 201 - Statistics (Core)	3	MTH 101 or placement in MTH 133	
ENG 102 - Critical Reading and Writing (Core)	3	ENG 101	
SCI 102 - Physical Science (Core)	3	MTH 101 or placement in MTH 133	
Total Credits	15		
3rd Semester			
ITE 301 - Data Communications and Networks (Major)	3	ITE 202	
ITE 303 - Introduction to Programming (Major)	3	ITE 202 and MTH 235	
ITE 305 - Database Management Systems (Major)	3	ITE 202	
CIV 203 - Civilization III: The Ancient World (Humanities) (Core)	3	30 Earned Credits	
ENG 203 - Research (Core)	3	ENG 102	
Total Credits	15		
4th Semester			
NEW - Foundation of Cybersecurity (Major)	3	ITE 303	
NEW - Foundations of Computing (Major)	3	ITE 303	
ITE 306 - Computing Platforms (Major)	3	ITE 202	
CIV 204 - Civilization IV: The Modern World (Humanities) (Core)	3	CIV 203	
Math and Science (Core Option)*	3	Subject to course selection	
Total Credits	15		
5th Semester			
NEW - Principles Systems Programing (Major)	3	ITE 306	
NEW - Netwrok Security and Protocols (Major)	3	ITE 301	
ITS 350 - Data Structures and Algorithms (Major)	3	ITE 303	
ITE 308 - IT Project Management (Major)	3	ITE 301	
Life Science (Core Option)**	3	Subject to course selection	
Total Credits	15		
6th Semester			

ITE 403 - Information Security (Major)	3	ITE 301 and ITE 303	
ITE 407 - Advanced Database Systems (Major)	3	ITE 303 and ITE 305	
ITE 409 - Advanced Programming (Major)	3	ITE 303	
Social Science OR Humanities (Core Option)***	3	Subject to course selection	
Minor/General Elective	3	Subject to course selection	
Total Credits		15	
7th Semester			
NEW - Cybersecurity Capstone I (Major)	3	ITE 306 and ITE 308	
NEW - Secure Electronic Commerce (Major)	3	ITS 350	
Minor/General Elective	3	Subject to course selection	
Minor/General Elective	3	Subject to course selection	
Cybersecurity Elective 1 (Major Requirement)	3	Subject to course selection	
Total Credits		15	
8th Semester			
NEW - Cybersecurity Capstone II (Major)	3	Last Semester	
ITE 406 - Professional Ethics and Communications (Major)	3	ITE 308	
Minor/General Elective	3	Subject to course selection	
Minor/General Elective	3	Subject to course selection	
Cybersecurity Elective 2 (Major Requirement)	3	Subject to course selection	
Total Credits		15	
Program Credits			
Core	45 credits (15 courses)		
Major	54 credits (18 courses)		
Minor (or General Electives)	15 credits (5 courses)		
Major Electives	6 credits (2 courses)		
Total	120 credits (40 courses)		
General Tips and Recommendations			
* Eligible courses: MTH 340 - Linear Algebra with 15 Earned Credits as Prerequisite			
** Eligible courses: BIO, SCI, PHYS, or CHEM up to 300 level			
*** Eligible courses: ECO 201, ART, LIT, ENG, POL, HIST, PHI, or GEO up to 300 level			
Students from before Fall 2022 can either drop CIV102 or count CIV102 as Social Science/Humanities and take MTH340 instead			
Varied Degree Paths:			
Student degree paths may vary slightly from this form. If academic record differs from the courses listed in this form, please contact the Registration and Records Office during the advising week for clarification. Independent study, transfer credits or other unique circumstances are typically accounted for in the elective category.			