

American University of Iraq, Sulaimani

BSc. In Software Engineering Program
Degree Progress Guide (Spring 2022 and Future Spring Cohorts)



Below is the natural sequence of Software Engineering 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	
R 100 - Reading 100 (Concurrent Required)	3	None	
W 100 - Writing 100 (Concurrent Required)	3	None	
SCI 101 + SCIL101 - Life Science + Life Science Lab (Core)	3	None	
Total Credits	15		
2nd Semester			
ENG 101 - Argument (Core)	3	W 100, R 100	
CIV 101 - Civilization I: The Ancient World (History) (Core)	3	W 100, R 100	
SCI 102 - Physical Science (Core)	3	MTH 101	
ITE 202 - IT Systems (Major)	3	CSC 101	
MTH 235 - Discrete Mathematics (Core)	3	MTH 101	
Total Credits	15		
3rd Semester	10		
ITE 303 - Introduction to Programming (Major)	3	ITE 202 and MTH 235	
SE 301 - Software Engineering Principles (Major)	3	ITE 202	
SE 311 - System Analysis and Design (Major)	3	SE 301 (Corequisite)	
CIV 203 - Civilization III: The Ancient World (Humanities) (Core)	3	30 Earned Credits	
ENG 102 - Critical Reading and Writing (Core)	3	ENG 101	
Total Credits	15	LNO 101	
4th Semester	10		
ITE 301 - Data Communications and Networks (Major)	3	ITE 202	
ITE 305 - Database Management Systems (Major)	3	ITE 202	
STT 201 - Statistics (Core)	3	MTH 101	
CIV 204 - Civilization IV: The Modern World (Humanities) (Core)	3	CIV 203	
ENG 203 - Research (Core)	3	ENG 102	
Total Credits	15		
5th Semester			
ITE 409 - Advanced Programming (Major)	3	ITE 303	
ITS 350 - Introduction to Data Structures and Algorithms (Major)	3	ITE 303	
SE 421 - Software Design and Models (Major)	3	ITE 303 and SE 311	
ITE 308 - IT Project Management (Major)	3	ITE 301	
Math and Science (Core Option)*	3	Subject to course selection	
Total Credits	15		
6th Semester			
SE 355 - Distributed Computing (Major)	3	ITE 301 and ITS 350	
SE 455 - Software Testing (Major)	3	SE301 and ITE303	
SE 490 - SE Capstone Project I (Major)	3	ITE 303 and SE 311	
SE Elective 1	3	Subject to course selection	
Life Science (Core Option)**	3	Subject to course selection	
Total Credits	15		
7th Semester			

SE 422 - Concurrent and Parralel Programming (Major)		3	ITE 303
SE 423 - Enterprise Software Architecture (Major)		3	SE 355
SE Elective 2		3	Subject to course selection
Minor/Elective Course		3	Subject to course selection
Social Science OR Humanities (Core Option)***		3	Subject to course selection
	Total Credits	15	
8th Semester			
SE 491 - SE Capstone Project II (Major)		3	Last Semester
SE Elective 3		3	Subject to course selection
SE Elective 4		3	Subject to course selection
Minor/Elective Course		3	Subject to course selection
Minor/Elective Course		3	Subject to course selection
	Total Credits	15	
9th Semester			
Minor/Elective Course		3	Subject to course selection
Minor/Elective Course		3	Subject to course selection
	Total Credits	6	

Program Credits				
Core	51 credits (17 courses)			
Major	48 credits (16 courses)			
Minor (or General Electives)	15 credits (5 courses)			
Major Electives	12 credits (4 courses)			
Total	126 credits (42 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.