



American University of Iraq, Sulaimani

BSc. In Civil Engineering Program
Degree Progress Guide (Fall 2022 - Onwards)



Below is the natural sequence of Civil 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			
ENGR 230 - Engineering Drawing (Major)	3	None	
CIV 101 - The Ancient World History (Core)	3	None	
ENG 101 - Argument (Core)	3	None	
MTH 133 - Precalculus (Core)	3	None	
CHEM 232 + CHEML 232 - Chemistry I + Chemistry Lab I (Core)	4	None	
Total Credits	16		
2nd Semester			
Core Elective: Humanities, Social Science (Core)	3	See Course Description	
ENGR 231 - Fabrication Shop (Team-based Problem Solving) (Major)	2	ENGR 230	
ENGR 248 - Engineering Geology (Major)	3	CHEM 232 + CHEML 232	
ENG 102 - Critical Reading (Core)	3	ENG 101	
MTH 232 - Calculus I (Core)	3	MTH 133 or Placement Test	
Total Credits	14		
3rd Semester			
ENG 203 - Research & Project - Writing (Core)	3	ENG 102	
ENGR 373 - Material of Construction (Major)	4	CHEM 232 + CHEML 232	
CIV 203 - Civilization III: The Ancient World (Humanities) (Core)	3	30 Credits and above	
PHYS 232 + PHYSL 232 - Calculus Based Physics I + Calculus Based Physics Lab I (Core)	4	MTH 232	
MTH 233 - Calculus II (Core)	3	MTH 232	
Total Credits	17		
4th Semester			
MTH 332 - Differential Equations (Core)	3	MTH 233	
ENGR 475 - Soil Mechanics (Major)	3	ENGR 248	
PHYS 233 + PHYSL 233 - Calculus Based Physics II + Calculus Based Physics Lab II (Core)	4	PHYS 232 + PHYSL 232	
ENGR 344 - Mechanics I (Major)	3	PHYS 232 + PHYSL 232	
MTH 331 - Calculus III (Core)	3	MTH 233	
Total Credits	16		
5th Semester			
ENGR 356 - Fluids (Major)	4	ENGR 344, MTH 233	
ENGR 476 - Concrete Design I (Major)	3	ENGR 475, ENGR 373	
ENGR 244 - Engineering Computing and Numerical Analysis (Major)	3	MTH 332, MTH 331	
ENGR 358 - Mechanics of Materials (Major)	3	ENGR 344	
MTH 340 - Linear Algebra (Core)	3	Second Semester Standing	
Total Credits	16		
6th Semester			
ENGR 486 - Concrete Design II (Major)	3	ENGR 476	
ENGR 348 - Mechanics II (Major)	3	ENGR 344, MTH 340	
ENGR 370 - Surveying (Major)	2	MTH 233	
ENGR 430 - Engineering Hydrology (Major)	3	ENGR 356	
STT 342 - Engineering Statistics (Major)	3	ENGR 244	

Total Credits		14	
Summer/Winter			
ENGR 490 - Engineering Internship (Major)	3	Senior Standing (to be taken alone)	
7th Semester			
ENGR 473 - Structural Analysis (Major)	3	ENGR 358, ENGR 348	
ENGR 477 Foundation Design (Major)	3	ENGR 476	
ENGR 444 - Engineering Project Management (Major)	3	STT 342	
ENGR 491 - Design I (Major)	3	ENG 203, Senior Standing, ENGR 231	
ENGR 484 - Engineering Laboratory (Major)	3	STT 342	
Total Credits		15	

8th Semester			
ENGR 474 - Steel Design (Major)	3	ENGR 473	
Engineering Elective	3	Senior Standing	
Engineering Elective	3	Senior Standing	
ENGR 485 - Hydraulic Structures (Major)	3	ENGR 430	
ENGR 492 - Design II (Major)	2	ENGR 491, ENGR 484, ENGR 444	
Total Credits		14	

9th Semester			
Engineering Elective	3	Senior Standing	
ENGR 493 - Highway Engineering and Design (Major)	3	ENGR 370	
Total Credits		6	

Program Credits	
Core	48 Credits (15 Courses)
Major	74 Credits (25 Courses)
Engineering Electives	9 Credits (3 Courses)
Total	131 Credits (43 Courses)

General Tips and Recommendations

Engineering electives are 300+ engineering courses.

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.