

American University of Iraq, Sulaimani



Below is the natural sequence of Artificial Intelligence and Robotics 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 Do	pegription	Crodite	Proroquicito(c)
	escription	Credits	Prerequisite(s)
1st Semester			
MTH 232 - Calculus I		3	None
MTH 235 - Discreet Math		3	None
ENGR 230 - Engineering Drawing		3	None
CIV 101 - The Ancient World History		3	None
ENG 101 - Argumen	t	3	None
	Total Credits	15	
2nd Semester			
ITE 202 - IT Systems	S	3	CSC 101 or ENGR 230
ENGR 231 - Fabrica	tion Shop (Team-based Problem Solving)	3	ENGR 230
PHYS 232 + PHYSL 232 - Calculus Based Physics I + Calculus Based Physics Lab I		4	MTH 232
MTH 340 - Linear Algebra		3	MTH 232
ENGR 244 - Engine	ering Computing	3	Co-requisite: MTH 340
	Total Credits	16	
3rd Semester			
STT 342 - Engineeri	ng Statistics	3	ENGR 244
MTH 233 - Calculus	•	3	MTH 232
ENG 102 - Critical Reading		3	ENG 101
	233 - Calculus-based Physics II + Calculus-based Physics Lab II	4	PHYS 232 + PHYSL 232
ITE 303 - Introductio	· · · · · · · · · · · · · · · · · · ·	3	ITE 202
TTE 303 - Introduction	Total Credits	16	111 202
4th Semester	Total Oreuts		
	n to Data Chrischings and Almerikhans	_	ITE 202
	n to Data Structures and Algorithms	3	ITE 303
ITS 310 - Computing		3	ITE 303
ENGR 344 - Mechanics I: Statics		3	PHYS 232 + PHYSL 232
ENG 203 - Research	· · · · · · · · · · · · · · · · · · ·	3	ENG 102
ENGR 390 - Circuits		3	PHYS 233 + PHYSL 233
EU 0	Total Credits	15	
5th Semester			
	ering Project Management	3	ENGR 231
MTH 332 - Differential Equations		3	MTH 233
ENGR 313 - Measurements Laboratory		3	PHYS 233 + PHYSL 233
CIV 203 - Civilization III: The Ancient World (Humanities)		3	CIV 101
	ion to Artificial Intelligence	3	STT 342
ENGR 320L Introduc	ction to Artificial Intelligence Laboratory	1	ITE 202 + CoReq: ENGR 320
Cth Compositor	Total Credits	16	
6th Semester			Tuon ess
ENGR 348 - Mechanics II: Dynamics		3	ENGR 344
Engineering / IT / SE Elective		3	See course description
Engineering / IT / SE Elective		3	See course description
ENGR 323 - Data Science and Analytics		3	Co-requisite: STT 342
ENGR 324 - Mechatronics		3	ENGR 390
711- 0 1	Total Credits	15	
7th Semester			True and True and
ENGR 491 - Design I		3	ENG 203, ENGR 231
ENGR 426 - Digital Signal Processing		3	MTH 332 + ITE 303
ENGR 461 - System Dynamics and Control		3	ENGR 390 + MTH 332
ENGR 422 - Computer Vision		3	ITS 350
ENGR 366 - Applied		3	ENGR 390
	Total Credits	15	
8th Semester			
ENGR 492 - Design II		3	ENGR 491
ENGR 492 - Design II ENGR 423 - Large Language Models		3	ITS 350
ENGR 423 - Large Language Models ENGR 424 - Machine Learning		3	ITS 350
ENGR 483 - Robotic	s	3	Co-requisite: ENGR 461, Pre-requisite: ENGR 348
Engineering / IT / SE		3	See course description
	Total Credits	15	
9th Semester			
Core Elective		3	See course description
Summer/Winter			
ENGR 490 - Engine	ering Internship	1	Senior Standing (to be taken alone)
	Program Total Credits	127	
Program Credits			
Core	44 Credits (14 Courses)		
Major	73 Credits (25 Courses)		
	9 Credits (3 Courses)		
Total	126 Credits (42 Courses)		

General Tips and Recommendations

Al and Robotics Engineering electives are 200+ courses in either the Engineering or Computing and Informatics Department.

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.