

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 ALIIS Academic Catalog

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Course Code and Description	Credits	Prerequisite(s)	•
1st Semester			
MTH 133 - Precalculus	3	None	
CHEM 232 + CHEML 232 - Chemistry I + Chemistry Lab I	4	None	
ENGR 230 - Engineering Drawing	3	None	
CIV 101 - The Ancient World History	3	None	
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16

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6

Total Credits

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Total Credits

Total Credits #REF!

Total Credits

MTH 133

ENGR 230

MTH 133

ENG 101

MTH 133

FNGR 231

MTH 232

MTH 232

MTH 233

ENG 102

FNGR 244

ENGR 244

ENGR 344

ENGR 320 ENGR 210

ENGR 244

ENGR 244

ENGR 348

ENGR 322

ENGR 390

ENGR 491

ENGR 322

ENGR 322

ENGR 324

Senior Standing (to be taken alone)

ENG 203, 75 Credits and above

Co-requisite: ENGR 461

PHYS 233 + PHYSL 233

See course description

See course description

See course description

PHYS 232 + PHYSL 232

PHYS 232 + PHYSL 232

Second Semester Standing

PHYS 233 + PHYSI 233

See course description

30 Credits and above

3 None **Total Credits** 16

ENG 101 - Argument

ENGR 231 - Fabrication Shop (Team-based Problem Solving)

MTH 232 - Calculus I ENGR 244 - Engineering Computing ENG 102 - Critical Reading

MTH 235 - Discreet Math

ENGR 444 - Engineering Project Management MTH 233 - Calculus II PHYS 232 + PHYSL 232 - Calculus Based Physics I + Calculus Based

Physics Lab I Core Elective: Humanities, Social Science

ENGR 210 - Introduction to Programming

Physics Lab II MTH 332 - Differential Equations ENGR 344 - Mechanics I: Statics

ENG 203 - Research & Project - Writing

ENGR 348 - Mechanics II: Dynamics

ENGR 322 - Algorithms and Data Structures

ENGR 461 - System Dynamics and Control

ENGR 323 - Data Science and Analytics

ENGR 490 - Engineering Internship

ENGR 321 - Al Applications

ENGR 324 - Mechatronics

ENGR 491 - Design I

ENGR 483 - Robotics

ENGR 492 - Design II

ENGR 422 - Computer Vision

ENGR 366 - Applied Electronics

ENGR 423 - Large Language Models

ENGR 313 - Measurements Laboratory

ENGR 486 - Robotic Manipulation and Mobility

24 Credits (8 Courses) 97 Credits (32) 9 Credits (3 Courses) 130 Credits

ENGR 424 - Machine Learning

MTH 340 - Linear Algebra

FNGR 390 - Circuits

Engineering Elective ENGR 320 Introduction to Artificial Intelligence

STT 342 - Engineering Statistics

Program Credits

Engineering Elective

Engineering Elective

General Tips and Recommendations Not Applicable

PHYS 233 + PHYSL 233 - Calculus-based Physics II + Calculus-based

Total Credits

CIV 203 - Civilization III: The Ancient World (Humanities) **Total Credits**

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