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 Description	Credit	s 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 - Argument	3	None
Total Credits	15	
2nd Semester		
ITE 202 - IT Systems	3	CSC 101 or ENGR 231
ENGR 231 - Fabrication Shop (Team-based Problem Solving)	3	ENGR 230
ENGR 244 - Engineering Computing	3	Co-requisite: MTH 340, Pre-requisite: MTH 232
PHYS 232 + PHYSL 232 - Calculus Based Physics I + Calculus Based Physics L	4	MTH 232
MTH 340 - Linear Algebra	3	MTH 232
Total Credits	16	
3rd Semester		
ENGR 320 Introduction to Artificial Intelligence	3	ENGR 244
MTH 233 - Calculus II	3	MTH 232
ENG 102 - Critical Reading	3	ENG 101
PHYS 233 + PHYSL 233 - Calculus-based Physics II + Calculus-based Physics Li		PHYS 232 + PHYSL 232
ITE 303 - Introduction to Programming	3	ITE 202
Total Credits	16	
4th Semester		
ITS 350 - Introduction to Data Structures and Algorithms	3	ITE 303
ITS 310 - Computing and Robotics	3	ITE 303
ENGR 344 - Mechanics I: Statics	3	PHYS 232 + PHYSL 232
ENG 203 - Research & Project - Writing	3	ENG 102
ENGR 390 - Circuits	3	PHYS 233 + PHYSL 233
Total Credits	15	
5th Semester		Investor I
ENGR 444 - Engineering Project Management	3	ENGR 231
MTH 332 - Differential Equations	3	MTH 233
ENGR 321 - Al Applications	3	ENGR 320
CIV 203 - Civilization III: The Ancient World (Humanities)	3	CIV 101
STT 342 - Engineering Statistics	3	ENGR 244
Total Credits 6th Semester	15	
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	ENGR 244
ENGR 324 - Mechatronics	3	ENGR 390
Total Credits	15	ENORGO
Summer/Winter		
ENGR 490 - Engineering Internship	1	Senior Standing (to be taken alone)
7th Semester	3	ENG 203, ENGR 231
ENGR 491 - Design I	-	PHYS 233 + PHYSL 233
ENGR 313 - Measurements Laboratory	3	
ENGR 483 - Robotics ENGR 422 - Computer Vision	3	Co-requisite: ENGR 461, Pre-requisite: ENGR 348
·	_	111
ENGR 366 - Applied Electronics Total Credits	3 15	ENGR 390
8th Semester	19	
ENGR 492 - Design II	3	ENGR 491
ENGR 423 - Large Language Models	3	ITS 350
ENGR 424 - Machine Learning	3	ITS 350
ENGR 461 - System Dynamics and Control	3	ENGR 390
Engineering / IT / SE Elective	3	See course description
Total Credits	15	See Searce description
9th Semester		
Core Elective	3	See course description
Takal Our dife	_	
Total Credits Program Credits	3	
Core		
Major		
Engineering Electi		
Total		

General Tips and Recommendations

Not Applicable

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.