1

ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING, ASSOCIATE IN APPLIED SCIENCE



Associate in Applied Science : AAS 3891 61-76 Credits Program Contact Habib Matar | habib.matar@cgc.edu

Program Description

The Associate in Applied Science (AAS) in Artificial Intelligence and Machine Learning focuses on building machine learning models that can be used for predicting, making decisions and enhancing human capabilities. The program prepares students for entry level positions in a variety of fields using artificial intelligence, including the information technology, automotive, healthcare, aerospace, industrial, and manufacturing industries. Program content includes an introduction to artificial intelligence and machine learning, natural language processing, computer vision, and artificial intelligence for business solutions and other applications. The curriculum also includes coursework in computer programming, math, engineering, and statistics.

Program Notes

Students must earn a grade of C or better for all courses required within the program. Overall program minimum GPA = 3.00.

++ indicates any suffixed course may be selected.

Program Requirements

Program Prerequisites: None

Code Required Courses	Title	Credits	Semester
•			
AIM100	Introduction to Artificial Intelligence	3	
AIM110	Introduction to Machine Learning	3	
AIM210	Natural Language Processing	3	
AIM220	Artificial Intelligence for Computer Vision	3	
AIM230	Artificial Intelligence for Business Solutions	3	

AIM240	Artificial Intelligence Capstone Project	3		
Select one of the	following:	0-3		
CIS105	Survey of Computer Information Systems			
	May be waived by permission of the Program Director			
Select one of the	following:	3		
CIS119DO	Introduction to Oracle: SQL			
CIS276DA	MySQL Database			
CIS276DB	SQL Server Database			
CIS156	Python Programming: Level I	3		
ECE102	Engineering Analysis Tools and Techniques	2		
ECE103	Engineering Problem Solving and Design	2		
FYE101	Introduction to College, Career and Personal Success	1-3		
or FYE103	Exploration of Colle Personal Success	ege, Career and		
MAT206	Elements of Statistics	3		
MAT225	Elementary Linear Algebra	3		
Restricted Electi	ves			
Select a program from below that academic and pr (to complete the program credits degree) in one of areas:	best aligns with ofessional goals minimum total required for this	0-3		
CIS150	Programming Fundamentals			
CIS150AB	Object-Oriented Programming Fundamentals			
CIS159	Visual Basic Programming I			
CIS162++	Any C Programming: Level I course			
CIS163AA	Java Programming: Level I			

CIS165++	Any Mobile Application Development course		
CSC100++	Introduction to Computer Science (C++)		
CSC110++	Introduction to Computer Science (Java)		
General Educatio	n		
Core			
First-Year Compos	sition		
ENG101	First-Year Composition	3	
or ENG107	First-Year Composition for E	SL	
ENG102	First-Year Composition	3	
or ENG108	First-Year Composition for E	SL	
Oral Communicati	on		
Select one of the	following:	3	
COM100	Introduction to Human Communication		
COM110	Interpersonal Communication		
COM225	Public Speaking		
COM230	Small Group Communication		
Any approved Education cou Communicatio	rse from the Oral		
Critical Reading			
Complete one of	the following:	0-3	
CRE101	College Critical Reading and Critical Thinking		
Or equivalent a assessment	as indicated by		
Mathematics			
Any approved ger course in the Mat Applications (MA as a prerequisite	thematical) area (that serves	4-14	
MAT220	Calculus with Analytic Geometry I		
or MAT221	Calculus with Analytic Geom	netry I	
Distribution			
Humanities, Arts a	and Design		
Any approved ger course(s) from th and Design area	neral education e Humanities, Arts	3	
Social and Behavi	oral Sciences		

Any approved general education course(s) in the Social and Behavioral Sciences area ¹	3	
Natural Sciences		
Any approved general education course(s) in the Natural Sciences area	4	
Total Credits	61-76	

¹ Recommend PSY101 Introduction to Psychology or SOC101 Introduction to Sociology