

# ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING, ASSOCIATE IN APPLIED SCIENCE



**STEM**

## Program Requirements

Program Prerequisites: None

Code	Title	Credits	Semester
<b>Required Courses</b>			
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 College, Career and Personal Success		_____
MAT206	Elements of Statistics	3	_____
MAT225	Elementary Linear Algebra	3	_____

### Restricted Electives

Select a programming language from below that best aligns with academic and professional goals (to complete the minimum total program credits required for this degree) in one of the following areas:

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 Education

#### Core

#### First-Year Composition

ENG101	First-Year Composition	3	_____
or ENG107	First-Year Composition for ESL		_____
ENG102	First-Year Composition	3	_____
or ENG108	First-Year Composition for ESL		_____

#### Oral Communication

Select one of the following: 3 \_\_\_\_\_

COM100	Introduction to Human Communication		_____
COM110	Interpersonal Communication		_____
COM225	Public Speaking		_____
COM230	Small Group Communication		_____
Any approved General Education course from the Oral Communication area			_____
<i>Critical Reading</i>			_____
Complete one of the following:		0-3	_____
CRE101	College Critical Reading and Critical Thinking		_____
Or equivalent as indicated by assessment			_____
<i>Mathematics</i>			_____
Any approved general education course in the Mathematical Applications (MA) area (that serves as a prerequisite for) MAT22+ 0-9		4-14	_____
MAT220	Calculus with Analytic Geometry I		_____
or MAT221 Calculus with Analytic Geometry I			_____
<b>Distribution</b>			_____
<i>Humanities, Arts and Design</i>			_____
Any approved general education course(s) from the Humanities, Arts and Design area		3	_____
<i>Social and Behavioral Sciences</i>			_____
Any approved general education course(s) in the Social and Behavioral Sciences area <sup>1</sup>		3	_____
<i>Natural Sciences</i>			_____
Any approved general education course(s) in the Natural Sciences area		4	_____
Total Credits		61-76	_____

<sup>1</sup> Recommend PSY101 Introduction to Psychology or SOC101 Introduction to Sociology