ARTIFICIAL INTELLIGENCE — B.S.

Students must achieve a C or better in all courses required for the major.

Summary

Code	Title	Credits
Artificial Intelligence B.S. Major Requirements		54-56
Integrative Core Curriculum Requirements and Electives [1]		64-66
Total Credits		**120**

[1] *This major is not approved to fulfill a perspective course for the Integrative Core Curriculum.*

Degree Requirements

Prerequisite information: A grade of C or better is required for a course in computer science to fulfill a prerequisite for another computer science course.

Code	Title	Credits
Mathematics Core		
MATH 11100	Calculus I	4
MATH 18700	Introduction to Applied Linear Algebra	4
MATH 24800	Statistical Methods for Data Analysis (Statistical Methods for Data Analysis (new course))	4
COMP 21500	Discrete Structures (Discrete Structures (new course))	4
Programming Core		
COMP 17100	Computer Programming I	4
COMP 17200	Computer Programming II	4
COMP 22000	Data Structures	4
Data and Machine Learning Core		
COMP 11000	Working with Structured Data	3
COMP 11200	Scripting in Spreadsheets	1
COMP 27500	Relational Database Systems (Relational Database Systems (new course))	4
COMP 35600	Machine Learning (Machine Learning (new course))	4
COMP 37500	Database Systems	4
COMP 45600	Topics in Machine Learning	4
or COMP 47000	Advanced Computer Project	
Restricted Electives		
Select two courses from the following:		6-8
MATH 31600	Probability	
MATH 34800	Modern Data Science with R	
COMP 31100	Algorithm Design	
COMP 35700	AI for Games and Robotics (Natural Language Programming (new course))	
COMP 45600	Topics in Machine Learning [1]	
or COMP 47000	Advanced Computer Project	
or COMP 45700	Natural Language Processing	
Total Credits		**54-56**

[1] One of the advanced machine learning courses not used to satisfy the Data and Machine Learning Core requirement may be used as a restricted elective.

[2] COMP 47000 must be taken for 3 credits