

Suggested Academic Plan

Major: Bachelor of Science in Artificial Intelligence Methods and Applications

Total Credits: 120

Semester 1	Credits	Semester 2	Credits
MATH 140 <i>Calculus with Analytical Geometry I</i> (GQ) ETM Course	4	CMPSC 132 <i>Programming and Computation II: Data Structures</i> ETM Course	3
CMPSC 131 <i>Programming and Computation I: Fundamentals</i> ETM Course	3	STAT 200 <i>Elementary Statistics</i> OR DS 200 <i>Introduction to Data Sciences</i> (GQ) ETM Course	4
A-I 100 <i>Artificial Intelligence: Automating Thinking to Augment Human Intellect</i> (GS) ETM Course	3	ENGL 15 (GWS)	3
First-Year Seminar	1	CAS 100 (GWS)	3
General Education Selection	3	General Education Selection	3
Total Credits:	14	Total Credits:	16

Semester 3	Credits	Semester 4	Credits
CMPSC 360 <i>Discrete Mathematics for Computer Science</i> OR MATH 311W <i>Concepts of Discrete Mathematics</i>	3	DS 305 <i>Algorithmic Methods and Tools</i> OR CMPSC 465 <i>Data Structures and Algorithms</i> OR CMPSC 462 <i>Data Structures</i>	3
MATH 225 <i>Mathematical Foundations for Machine Learning</i>	4	STAT 401 <i>Experimental Methods</i>	3
General Education Selection	3	ENGL 202 (GWS)	3
General Education Selection	3	General Education Selection	3
Elective	3	General Education Selection	3
Total Credits:	16	Total Credits:	15

Semester 5	Credits	Semester 6	Credits
DS 310 <i>Machine Learning for Data Analytics</i> OR CMPSC 448 <i>Machine Learning and Algorithmic AI</i> OR CMPSC 445 <i>Applied Machine Learning in Data Science</i>	3	A-I 375 <i>Knowledge representation and inference</i>	3
A-I 341W <i>Responsible Artificial Intelligence</i>	3	Support Course Selection (Technical or Application)	3
A-I 370 <i>Problem formulation and automated problem solving</i>	3	Support Course Selection (Technical or Application)	3
Support Course Selection (Technical or Application)	3	General Education Selection	3
Elective	3	Elective	3
Total Credits:	15	Total Credits:	15

Semester 7	Credits	Semester 8	Credits
AIMA 430 <i>Capstone I: Project Design</i> OR A-I 494 <i>Research Project</i>	3	AIMA 440 <i>Capstone II: Project Implementation</i> OR A-I 494 <i>Research Project</i>	3
Support Course Selection (Technical or Application)	3	Support Course Selection (Technical or Application)	3
Support Course Selection (Technical or Application)	3	General Education Selection	3
General Education Selection	3	General Education Selection	3
Elective	3	Elective	2
Total Credits:	15	Total Credits:	14