



DEPARTMENT OF
ELECTRICAL ENGINEERING
AND COMPUTER SCIENCE
College of Engineering & Computer Science
Florida Atlantic University

M.S. IN ARTIFICIAL INTELLIGENCE

Name: _____ Z#: _____ Advisor: _____

Date of Admission: _____ GPA: _____

Prerequisites

List any deficiency courses assigned by the Admission Committee, if applicable:

Grade	Semester	Course Number/Name

Degree Requirements

The Master of Science with Major in Artificial Intelligence (AI) program offers both thesis and non-thesis options. Both options require a minimum of 30 credits.

Core Courses (6 credits) Select two courses from the following three courses:

Grade	Semester	Course Number/Name
		CAP 5625 Computational Foundations of Artificial Intelligence
		CAP 6635 Artificial Intelligence
		CAP 6673 Data Mining and Machine Learning

In addition to the core courses:

Non-thesis option: take 4 AI Electives (12 credits) and 4 EECS Electives (12 credits).

Thesis option: take 2 AI Electives (6 credits), 6 thesis credits, and 4 EECS Electives (12 credits).

Thesis Option (6 Credits of Master's Thesis)

Grade	Semester	Course Number/Name
		CAP 6974 – Master's Thesis

AI Electives (Select 12 credits for Non-Thesis Option and 6 credits for Thesis Option)

Computer Vision

Grade	Semester	Course Number/Name
		CAP 6411 Foundations of Vision
		CAP 6415 Computer Vision
		CAP 6618 Machine Learning for Computer Vision
		COP 6728 Visual Information Retrieval

Data Analytics and Algorithms

Grade	Semester	Course Number/Name
		CAP 5625 Computational Foundations of Artificial Intelligence
		CAP 5768 Introduction to Data Science
		CAP 6315 Social Networks and Big Data Analytics
		CAP 6546 Data Mining for Bioinformatics
		CAP 6635 Artificial Intelligence
		CAP 6780 Big Data Analytics with Hadoop
		CEN 6405 Computer Performance Modeling
		COT 6405 Analysis of Algorithms

Knowledge Management and Reasoning

Grade	Semester	Course Number/Name
		CAP 6640 Natural Language Processing
		CAP 6776 Information Retrieval
		CAP 6777 Web Mining
		COP 5859 Semantic Web Programming

Machine Learning

Grade	Semester	Course Number/Name
		CAP 5615 Introduction to Neural Networks
		CAP 6512 Evolutionary Computing
		CAP 6617 Sparse Learning
		CAP 6619 Deep Learning
		CAP 6629 Reinforcement Learning
		CAP 6673 Data Mining and Machine Learning
		CAP 6778 Advanced Data Mining and Machine Learning

Applications

Grade	Semester	Course Number/Name
		CAP 6683 Artificial Intelligence in Medicine and Healthcare
		CAP 6807 Computational Advertising and Real-time Data Analytics
		EEL 5661 Robotic Applications

EECS Electives (12 credits)

Select four courses from the graduate courses offered by the EECS department. Course substitution is allowed with prior approval of the advisor.

Grade	Semester	Course Number/Name

SUMMARY OF RULES FOR MS IN ARTIFICIAL INTELLIGENCE DEGREE

Minimum Degree Requirements:

Master of Science with Major in Artificial Intelligence, Thesis Option (30 credits)

1. Requires a total of 30 credits: 6 credits of orally defended written thesis and 24 credits of approved coursework
2. Students can take a maximum of 3 credits of independent study to satisfy the 24 credits of coursework
3. At least one-half of the credits must be at the 6000 level or above
4. Must have a GPA of 3.0 (out of 4.0) or better.
5. All courses in the degree program must be completed with a grade of "C" or better.

Thesis Committee (for Thesis Option)

- Composed of at least three faculty members
- At least two members from EECS Department
- Chair from the EECS Department

Master of Science with Major in Artificial Intelligence, Non-Thesis Option (30 credits)

1. Requires 30 credits of approved coursework
2. Students can take at most 3 credits of independent study to satisfy the minimum of 30 credits
3. At least one-half of the credits must be at the 6000 level or above
4. Must have a GPA of 3.0 (out of 4.0) or better.
5. All courses in the degree program must be completed with a grade of "C" or better.

Admission to Candidacy/Online Plan of Study

Students must apply for candidacy as soon as they are eligible. Students should prepare, in consultation with a graduate advisor, an **Online Plan of Study** i.e. the list of courses, for completing their degree requirements. All courses must be approved by the student's advisor.

A student is eligible to apply for candidacy when:

1. A minimum of 9 credit hours as a graduate student have been completed.
2. A minimum of 3.0 GPA in all courses attempted as a graduate student has been maintained.

Normally no more than 15 credit hours of work completed before submitting your Plan of Study will be accepted toward degree program. Students working toward the MS (thesis option) degree may not register for thesis until their Plan of Study has been approved.

Student Signature: _____ **Date:** _____