FAU DEPARTMENT OF COMPUTER & ELECTRICAL ENGINEERING AND COMPUTER SCIENCE

College of Engineering & Computer Science
Florida Atlantic University

M.S. IN ARTIFICIAL INTELLIGENCE
FOR STUDENTS ENTERING FALL 2019 AND LATER

Name: _____ Z#: _____ Advisor: _____

Date of Admission: _____ Undergraduate Institution/Year: _____

GPA: _____ Major: _____ GRE/Year: _____

Prerequisites

Course No.	Course Title	Actual Course Title if Not Taken at FAU	Where	Grade
COP 3530	Data Structures & Algorithm Analysis			
COT 4400	Design & Analysis of Algorithms			
STA 4821	Stochastic Models for Computer Science			
MAC 2311	Calculus with Analytic Geometry I			
MAC 2312	Calculus with Analytic Geometry II			

Degree Requirements

Both Thesis and Non-Thesis options require a minimum of 30 credits.
The Master of Science with Major in Artificial Intelligence program offers both thesis and non-thesis options. Both options require a minimum of 30 credits, as specified in Table 1.

Table 1

Core Courses/ Students are required to take 3 Core 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, students pursuing the non-thesis option are required to take 7 elective courses from the groups below. Students pursuing the thesis option are required to take 5 elective courses from the groups below and 6 thesis credits. Both non-thesis and thesis options allow up to 3 elective courses to be substituted with any course in the College of Engineering and Computer Science, with prior approval from the advisor

Vision

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

Data Analytics and Algorithms

Grade	Semester	Course Number/Name
		CAP 5768 Introduction to Data Science
		CAP 6315 Social Networks and Big Data Analytics
		CAP 6546 Data Mining for Bioinformatics
		CAP 6780 Big Data Analytics with Hadoop
		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
		COP 6778 Advanced Data Mining and Machine Learning

Applications

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

Additional Elective Allowance

Students may substitute three elective courses with any course in the College of Engineering and Computer Science, with prior approval from 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 Computer Science, Thesis Option (30 credits)

1. Requires 6 credits of orally defended written thesis.
2. Requires 24 credits of approved coursework with the following constraints:

a. No more than 3 credits of Directed Independent Study may be used to satisfy the minimum of 30 credits.
b. No course can be counted toward the degree that is more than 10 years old at the time the degree is awarded.
c. No 4000-level course is allowed toward the degree. Courses taken to make up for the deficiencies will not be counted toward the degree.

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 CEECS Department
- Chair from the CEECS Department

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

1. Requires 30 credits of approved coursework with the following constraints:

a. No more than 3 credits of Directed Independent Study may be used to satisfy the minimum of 30 credits.
b. No course can be counted toward the degree that is more than 10 years old at the time the degree is awarded.
c. No 4000-level course is allowed toward the degree. Courses taken to make up for the deficiencies will not be counted toward the degree.

2. At least one-half of the credits must be at the 6000 level or above
3. Must have a GPA of 3.0 (out of 4.0) or better.
4. 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.

Advisor Signature: _____ **Date:** _____