



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

**MINOR IN ARTIFICIAL INTELLIGENCE
PROGRAM ADVISING SHEET (MINIMUM 12 CREDITS)**

Name: _____ Z Number: _____

FAU Start Date: _____ E-mail: _____ Phone: _____

Students will select one of the two tracks: the Development track and the Applications track. The Development track is intended for students proficient in programming who will develop new algorithms and mechanisms in artificial intelligence. The Applications track is open to students who have introductory programming skills and are interested in learning how to use the tools and algorithms of artificial intelligence. Each track requires four courses that have not been counted in any other minor or certificate program within the College of Engineering and Computer Science. Students cannot apply for both Minor in AI and the Certificate in AI. The minor is awarded upon graduation from a graduate program at FAU

Students in both tracks are expected to have completed a statistics course before pursuing this minor. Students must satisfy the prerequisites required for each course in the minor program. Requirements for the minor include completion of all four graduate-level courses with a minimum grade of "B." These four courses cannot be counted toward any other minor or certificate.

Development Track (12 credits)

Elective Courses (6 credits) Select two courses from the Elective Table.

Core Courses section: Select any Two Courses (6 credits) from the list below:

Course	Title	Credits	Semester	Grade
CAP 5625	Computational Foundations of Artificial Intelligence	3		
CAP 6635	Artificial Intelligence	3		
CAP 6673	Data Mining and Machine Learning	3		

Applications Track (12 credits)

*Note: This track is **not** open to graduate students in the EECS department, except for MS-EGIT majors.*

Elective Courses (6 credits) Select two courses from the Elective Table.

Core Courses section : Select any Two Courses (6 credits) from the list below:

Course	Title	Credits	Semester	Grade
CAP 5625	Computational Foundations of Artificial Intelligence	3		
CAP 6610	Applied Machine Learning	3		
CAP 6673	Data Mining and Machine Learning	3		

Elective Table Courses
Select two courses (6 credits).

Elective Table:

Additional courses may be used as electives with prior written approval of the advisor.

Courses	Title	Credits	Semester	Grade
Vision				
CAP 6411	Foundations of Vision	3		
CAP 6415	Computer Vision	3		
CAP 6618	Machine Learning for Computer Vision	3		
COP 6728	Visual Information Retrieval	3		
Data Analytics and Algorithms				
CAP 6315	Social Networks and Big Data Analytics	3		
CAP 6546	Data Mining for Bioinformatics	3		
CGN 5716	Design and Analysis for Engineering Data	3		
CAP 5768	Introduction to Data Science	3		
CEN 6405	Computer Performance Modeling	3		
Knowledge Management and Reasoning				
CAP 6776	Information Retrieval	3		
CAP 6777	Web Mining	3		
CAP 6640	Natural Language Processing	3		
COP 5859	Semantic Web Programming	3		
Machine/Deep Learning				
CAP 5615	Introduction to Neural Networks	3		
CAP 6512	Evolutionary Computing	3		
CAP 6619	Deep Learning	3		
CAP 6778	Advanced Data Mining and Machine Learning	3		
CAP 6617	Sparse Learning	3		
CAP 6629	Reinforcement Learning	3		
Applications				
EEL 5661	Robotic Applications	3		
CAP 6807	Computational Advertising and Real-time Data Analytics	3		
CAP 6683	Artificial Intelligence in Medicine and Healthcare	3		
TTE 6272	Intelligent Transportation Systems	3		
EOC 6663	Intelligent Underwater Vehicles	3		
EIN 5603C	Industrial Automation	3		

Advisor Comments:

Advisor Name: _____ **Date:** _____