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

ARTIFICIAL INTELLIGENCE CERTIFICATE
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 in both tracks are expected to have completed a statistics course before pursuing this certificate. Students must satisfy the prerequisites required for each course in the certificate program. The average GPA of all four courses counted in the program must be 3.0 or better.

Development Track (12 credits)

Core Course (6 credits)

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

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

Applications Track (12 credits)

Note: this track is not open to graduate students in the CEECS department, except MSITM major. **Core Course (6 credits)**

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

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

Elective Table

Select two courses from the list below. Additional courses may be used as electives with prior approval of the advisor.

Courses	Title	Credits	Semester	Grade
CAP 5615	Introduction to Neural Networks	3		
CAP 5768	Introduction to Data Science	3		
CAP 6546	Data Mining for Bioinformatics	3		
CAP 6617	Sparse Learning	3		
CAP 6618	Machine Learning for Computer Vision	3		
CAP 6619	Deep Learning	3		
CAP 6629	Reinforcement Learning	3		
CAP 6640	Natural Language Processing	3		
CAP 6683	Artificial Intelligence in Medicine and Healthcare	3		
CAP 6778	Advanced Data Mining and Machine Learning	3		
CEN 6405	Computer Performance Modeling	3		
EEL 5661	Robotic Applications	3		
EIN 5603C	Industrial Automation	3		
EOC 6663	Intelligent Underwater Vehicles	3		
CGN 5716	Design and Analysis for Engineering Data	3		
TTE 6272	Intelligent Transportation Systems	3		

Advisor Comments:

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Advisor Name: _____ **Date:** _____