

ARTIFICIAL INTELLIGENCE CERTIFICATE PROGRAM ADVISING SHEET (MINIMUM 12 CREDITS)

Name:			Z Number:	Z Number:		
FAU Start Date:	E-mail: _			Phone:		
Are you pursuing a degree program?	YES	NO	Program name:			

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)

Required Core Courses (6 credits)- Choose two courses from the following

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		

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 EECS department, except for MS-EGIT majors.

Core Course (6 credits): Choose two courses from the following

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 Courses - Select two courses from the Elective Table

Effective: Summer 2025

Elective Table(6 credits):

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

Course Substitution Section: Requires advisor's written approval.

Course	Title	Credits	Semester	Grade

Advisor Name:	Date:

Effective: Summer 2025