

 FLORIDA ATLANTIC UNIVERSITY	NEW/CHANGE PROGRAM REQUEST Undergraduate Programs	UUPC Approval <u>10-12-20</u> UFS Approval _____ Banner Posted _____ Catalog _____
	Department Computer and Electrical Eng and Computer Science College Engineering and Computer Science	
Program Name Minor in Artificial Intelligence	<input checked="" type="checkbox"/> New Program <input type="checkbox"/> Change Program	Effective Date (TERM & YEAR) Spring 2021
Please explain the requested change(s) and offer rationale below or on an attachment We are proposing a Minor in Artificial Intelligence (AI) opened to students with any background. Students are expected to satisfy the prerequisite courses required for each course in the minor curriculum. The minor requires completion of 5 courses (15 credits) and it is structured into two tracks: Development track and Applications track. The Development track is intended for students proficient in programming who will develop new algorithms and mechanisms in AI. The Applications track is opened to the students who have introductory programming skills are interested to learn how to use the tools and algorithms of AI. Please see the catalog entry for more details.		
Faculty Contact/Email/Phone Dr. Hanqi Zhuang/zhuang@fau.edu/561-297-3413	Consult and list departments that may be affected by the change(s) and attach documentation NA	
Approved by Department Chair <u>Hanqi Zhuang</u> College Curriculum Chair <u>Dan Meeroff</u> College Dean _____ UUPC Chair <u>Jerry Haky</u> Undergraduate Studies Dean <u>Edward Pratt</u> UFS President _____ Provost _____	Date 6/19/2020 <u>8-24-20</u> <u>9/4/20</u> <u>10-12-20</u> <u>10-12-20</u> _____ _____	

Email this form and attachments to mjenning@fau.edu one week before the UUPC meeting so that materials may be viewed on the UUPC website prior to the meeting.

Minor in Artificial Intelligence

The minor in Artificial Intelligence (AI) is opened to all undergraduate students at Florida Atlantic University. The minor is awarded upon graduation from an undergraduate program at FAU; it is not awarded independently of these degrees.

Requirements for the minor include completion of five courses (15 credits) with grade C or better. This minor requires 5 courses which have not been counted in any other minor or certificate within the College of Engineering and Computer Science.

The minor has two tracks: Development track and Applications track. The Development track is intended for students proficient in programming who will develop new algorithms and mechanisms in AI. The Applications track is opened to students with no prior programming experience who are interested to learn programming and how to use tools and algorithms of AI. Students in both tracks are expected to have completed a statistics course.

Students must ensure that they have the necessary prerequisites for the selected courses. Students cannot apply for both the Minor in AI and the Certificate in AI.

Development Track (15 credits)

Core courses (9 credits)

- COP 3043 Data Structures and Algorithm Analysis with Python, or COP 3530 Data Structures and Algorithm Analysis
- CAP 4630 Introduction to Artificial Intelligence
- One of the courses: CAP 4770 Introduction to Data Mining and Machine Learning, CAP 4613 Introduction to Deep Learning, CAP 4773 Introduction to Data Science and Analytics

Elective Courses (6 credits)

- Select 2 courses from Table 1.

Applications Track (15 credits)

(not opened to undergraduate students in the CEECS department)

Core courses (9 credits)

- COP 2035 Introduction to Programming in Python, or COP 1034C Computer Programming and Data Literacy for Everyone
- CAP 2500 Applications of Artificial Intelligence
- CAP 4612 Applied Machine Learning and Data Mining

Elective Courses (6 credits)

- Select 2 upper level (3000 level or higher) courses from Table 1.

Table 1 (Electives)

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

Introduction to Artificial Intelligence	CAP 4630
Introduction to Data Mining and Machine Learning	CAP 4770
Introduction to Deep Learning	CAP 4613
Introduction to Data Science and Analytics	CAP 4773
Trustworthy Artificial Intelligence	CAP 4623

Tools for Data Science	CAP 2751
Robotic Applications	EEL 4930
Artificial Intelligence for Social Good	CCJ 3071