FLORIDA ATLANTIC UNIVERSITY

NEW/CHANGE PROGRAM REQUEST
Undergraduate Programs

UUPC Approval 2-23-26
UFS Approval _____
Banner _____
Catalog _____

Department Electrical Engineering and Computer Science

College Engineering and Computer Science

Program Name

Bachelor of Science in Artificial Intelligence with Cybersecurity Systems

☑ **New Program***

☐ **Change Program***

Effective Date
(TERM & YEAR)

Fall 2026

Please explain the requested change(s) and offer rationale below or on an attachment.

The Bachelor of Science in Artificial Intelligence with Cybersecurity Systems (B.S.A.I.) will be offered by the Department of Electrical Engineering and Computer Science (EECS) in the College of Engineering and Computer Science. This program aims to prepare students with balanced training in AI/computer science and cybersecurity to meet growing workforce demand at the intersection of cybersecurity and AI.

See attachment for details.

*All new programs and changes to existing programs must be accompanied by a catalog entry showing the new or proposed changes.

Faculty Contact/Email/Phone

Hari Kalva, hkalva@fau.edu, 561-297-3413

Consult and list departments that may be affected by the change(s) and attach documentation

Mathematics and Statistics

Approved by		***Date***
Department Chair	Hari Kalva	2/12/26
College Curriculum Chair	Galan Liu	2/14/26
College Dean		2-23-26
UUPC Chair	Koray Sorgo	2-23-26
Undergraduate Studies Dean	Dan Meeroff	
UFS President		
Provost		

Email this form and attachments to mjenning@fau.edu seven business days before the UUPC meeting.

Bachelor of Science in Artificial Intelligence with Cybersecurity Systems

(Minimum of 120 credits required)

The mission of the interdisciplinary artificial intelligence programs is to prepare graduates who can build and architect AI systems informed by deep domain expertise to solve complex, real-world challenges across diverse fields. The programs provide a strong foundation in AI principles and domain-specific knowledge, cultivating interdisciplinary innovators with the technical skills to create novel AI solutions, the ability to deploy them responsibly, and the adaptability to thrive in a rapidly evolving technological landscape. Graduates will be highly competitive in the workforce and well-prepared to lead innovation across industry, research, and society.

Admission Requirements

All students must meet the minimum admission requirements of the University. Please refer to the Admissions section of this catalog.

The Bachelor of Science in Artificial Intelligence with Cybersecurity Systems (B.S.A.I.) is offered by the Department of Electrical Engineering and Computer Science (EECS) in the College of Engineering and Computer Science. This program aims to prepare students with balanced training in AI/computer science and cybersecurity to meet growing workforce demand at the intersection of cybersecurity and AI.

Prerequisite Coursework for Transfer Students

Students transferring to Florida Atlantic University must complete both lower-division requirements (including the requirements of the General Education Curriculum) and requirements for the college and major. Lower-division requirements may be completed through an Associate in Arts (A.A.) degree from any Florida public college, university or community college or through equivalent coursework at another regionally accredited institution. Before transferring and to ensure timely progress toward the baccalaureate degree, students must also complete the prerequisite courses for their major as outlined in the *Transition Guides.*

All courses not listed with the Florida Statewide Course Numbering System that will be used to satisfy requirements will be evaluated individually on the basis of content and will require a catalog course description and a copy of the syllabus for assessment.

Degree Requirements

The minimum number of credits required for the Bachelor of Science in Artificial Intelligence with Cybersecurity Systems degree is 120 credits: 36 credits in the General Education Curriculum, 24 credits in AI core, 15 credits in AI electives, 24 credits in Cybersecurity core, 9 credits in EECS electives, 3 credits capstone course, 3 credits mathematics for AI. This degree will be awarded to students who satisfy all admission and degree requirements for the department.

Students must attain a minimum grade of "C" in Mathematics of Data Science, AI Core, AI Electives, Cybersecurity Core, Cybersecurity Electives, and AI Capstone.

Foreign Language Requirement

All students must satisfy the foreign language requirement for admission to the University.

Specific Requirements		
Course Title	**Course Number**	**Credits**
General Education Courses**		**36**
Mathematics of Data Science	MAP 2192	**3**
AI Core Courses		
Course Title	**Course Number**	**Credits**
Applications of Artificial Intelligence	CAP 2603	3
Introduction to AI	CAP 4630	3
Introduction to Data Science and Analytics	CAP 4773	3
Introduction to Software Design	CEN 3062C	3
Introduction to Programming in Python	COP 3035C	3
Data Structures and Algorithm Analysis with Python	COP 3410C	3
Analysis of Algorithms	COT 4400	3
Foundations of Computing	COT 2000C	3
Total AI Core Credits		***24***
AI Electives ***		
Select 5 courses totaling 15 credits		
Introduction to Web Programming	COP 3834	3
Introduction to Database Structures	COP 3540	3
Introduction to Natural Language Processing	CAI 4304	3
Trustworthy Artificial Intelligence	CAP 4623	3
Introduction to Deep Learning	CAP 4613	3
Python Programming	COP 4045	3
Introduction to Data Mining and Machine Learning	CAP 4770	3
Introduction to Large Language Models	CAI 4223	3
Applied Database Systems	COP 4703	3
Total AI Elective Credits		***15***
Cybersecurity Core Courses		
Foundations of Cybersecurity	CNT 4403	3
Artificial Intelligence for Cybersecurity	CAI 4802	3
Communication Networks	CNT 4007	3

Systems Programming with C++	COP 3275C	3
Introduction to Web Programming	COP 3834	3
Trustworthy Artificial Intelligence	CAP 4623	3
Network and Data Security	CNT 4411	3
Applied Cryptography and Security	CIS 4634	3
Total Cybersecurity Core Credits		**24**
EECS Electives* **		
Select any three 3000 or 4000 level courses totaling 9 credits		
Total Elective Credits		**9**
Free Elective		**6**
AI Capstone	CAI 4741	**3**
TOTAL		**120**

** students must take STA 2023 and MAC 2233 in Mathematics area

*** Certain 3000- and 4000-level courses offered by the Electrical Engineering and Computer Science Department may be used as AI electives. Certain 5000- or 6000-level courses offered by the Electrical Engineering and Computer Science Department may be taken as AI electives. Students must see an advisor for a current list of elective courses.