	NEW/CHANGE PROGRAM REQUEST Undergraduate Programs	UUPC Approval _____ UFS Approval _____ Banner _____ Catalog _____
FLORIDA ATLANTIC UNIVERSITY	**Department** **College**	

Program Name		**New Program***	**Effective Date** *(TERM & YEAR)*
		Change Program*	

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

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

Approved by	*Date*
Department Chair _Hri Kava_	9/24/2025
College Curriculum Chair _Yolan Liu_	9/25/25
College Dean _____	9/30/25
UUPC Chair _____	_____
Undergraduate Studies Dean _____	_____
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 Biology

(Minimum of 120 credits required)

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 Biology (B.S.A.I.) is a multi-college, interdisciplinary program jointly administered by the Biological Sciences Department in the Charles E. Schmidt College of Science, 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 biology to meet growing workforce demand at the intersection of life sciences and technology.

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 Biology degree is 120 credits: 36 credits in the General Education Curriculum, 24 credits in AI core, 15 credits in AI electives, 24 credits in Biology core, 15 credits in Biology 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, Biology Core, Biology 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**		**38**
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

Course Title	Course Number	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**

Biology Core *Courses* (36)

Course Title	Course Number	Credits
General Chemistry 1	CHM2045/2045L	3+1
General Chemistry 2	CHM2046/L	3+1
Genetics	PCB 3063	3
Cell Biology	PCB 3023	3
Evolution	PCB 3674	3
Biological Networks	BSC 4930	3
Artificial Intelligence Applications in Biology	IDS 4139	3
CMBB Research Seminar (OR) Marine Science Seminar	BSC 4932	1
Total Biology Core Credits		**24**

Biology Electives

Any four 3000 or 4000-level Biology elective	BSC/PCB XXXX	13
Total Biology Elective Credits		**13**
AI Capstone	CAI 4741	**3**
	TOTAL	**120**

** students must take STA 2023 and MAC 2233 in Mathematics area, and BSC 1011 & L (4 credits) and BSC 1010 & L (4 credits)

*** 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.