FLORIDA ATLANTIC UNIVERSITY	NEW/CHANGE PROGRAM REQUEST **Undergraduate Programs**	UUPC Approval _____ UFS Approval _____ Banner _____ Catalog _____
	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 _~~Hui Kdva~~_____ Hongbo Su	2/12/2024
College Curriculum Chair _____	2/13/2024
College Dean _____	2/14/24
UUPC Chair _____	_____
Undergraduate Studies Dean _____	_____
UFS President _____	_____
Provost _____	_____

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

Artificial Intelligence (AI) for Cybersecurity Certificate

Introduction and Rationale

Cybersecurity involves studying methods, tools, and practices to ensure the security of information, systems, and networks. Artificial Intelligence, with its ability to analyze vast amounts of data, detect patterns, and adapt to evolving threats in real-time, becomes an indispensable tool for enhancing overall information, system, and network security. This program aims to equip students with knowledge and tools that leverage AI technologies to develop more robust and efficient cybersecurity solutions, allowing for proactive identification and response to cyber threats.

The certificate will be granted to a student who completes four 3-credit courses as follows: two core course, one 3-credit courses from the cybersecurity elective list and one 3-credit course from the AI elective course list.

Admission

Open to students who satisfy the prerequisites required for each course in the program with the grade C or better. All four courses in the certificate must be completed with the grade C or better. All course materials are in English.

Courses

Core course (required):		
CNT 4403	Foundations of Cybersecurity	3
CAI 4825	AI for Cybersecurity	3
Elective courses: select 1 from the approved cybersecurity course list. Additional courses may be used as replacements with prior approval of the department.		
CDA 4321	Introduction to Cryptographic Engineering	3
CIS 4634	Applied Cryptography and Security	3
CNT 4411	Network and Data Security	3
Elective courses: select 1 from the approved AI course list. Additional courses may be used as replacements with prior approval of the department.		
CAP 4630	Introduction to AI	3
CAP 4770	Introduction to Data Mining and Machine Learning	3
CAP 4613	Introduction to Deep Learning	3