FLORIDA ATLANTIC UNIVERSITY

NEW/CHANGE PROGRAM REQUEST
Undergraduate Programs

UUPC Approval 3-29-21
UFS Approval _____
Banner Posted _____
Catalog _____

Department CEECS

College Engineering and Comp Science

Program Name
Computer Science Minor

☐ **New Program**

☑ **Change Program**

Effective Date
(TERM & YEAR)
Fall 2021

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

The Computer Science Minor has been revised to reduce required credits from 25-26 to 15. Two tracks have been added, a C/C++ track and a Python track. Students need 6 credits of required courses and 9 credits of elective courses.

Faculty Contact/Email/Phone
Hari Kalva, hkalva@fau.edu, 561-297-0511

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

Approved by		***Date***
Department Chair	Hanqi Zhuang Digitally signed by Hanqi Zhuang Date: 2021.02.09 13:06:25 -05'00'	
College Curriculum Chair		3-10-21
College Dean	Jerry Haky	3/11/21
UUPC Chair		3-29-21
Undergraduate Studies Dean	Edward Pratt	3-29-21
UFS President		
Provost		

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.

Computer Science Minor

The minor in Computer Science is available to all FAU undergraduates who are not majoring in Computer Science or Computer Engineering. This minor requires completion of five courses (15 credits) with a minimum grade of “C”. ~~can be attained by successfully completing the following requirements and earning a grade of "C" or better in Computer Science core courses listed below.~~ Students must ensure that they have the prerequisites for the selected courses.

~~Calculus with Analytical Geometry 1~~	~~MAC 2311~~	~~4 or~~
~~Methods of Calculus~~	~~MAC 2233~~	~~3~~
~~Discrete Mathematics~~		~~3~~
~~Introduction to Programming in C~~	~~COP 2220~~	~~3~~
~~Foundations of Computer Science~~	~~COP 3014~~	~~3~~
~~Foundations/Computer Science Lab~~	~~COP 3014L~~	~~1~~
~~Data Structures and Algorithm Analysis~~	~~COP 3530~~	~~3~~
~~Minimum upper-division computer science and engineering credits in addition to above courses~~		~~9~~
~~**Total***~~		~~**25-26**~~

C/C++ Track

Foundations of Computer Science (a)	COP 3014	3
Data Structures and Algorithm Analysis	COP 3530	3
Select three upper-division courses from the electives table below.		9
Total*		**15**

(a) Requires Prerequisite: COP 2220 with a “C” or better

Python Track

Introduction to Programming in Python	COP 2034	3
Data Structures and Algorithm Analysis with Python	COP 3410	3
Select three upper-division courses from the electives table below.		9
Total*		**15**

Select three courses from the following list of elective courses (speak with an academic advisor for a list of additional elective courses):

Elective Courses

Introduction to Database Structures	COP 3540	3
Applied Database Systems	COP 4703	3
Design and Analysis of Algorithms	COT 4400	3
Principles of Software Engineering	CEN 4010	3
Computer Operating Systems	COP 4610	3
Introduction to Internet Computing	COP 3813	3
Object-Oriented Design and Programming	COP 4331	3
Python Programming	COP 4045	3

Introduction to Data Mining and Machine Learning	CAP 4770	3
Applied Machine Learning and Data Mining	CAP 4612	3
Introduction to Deep Leaning	CAP 4613	3
Introduction to Artificial Intelligence	CAP 4630	3
Introduction to Data Science and Analytics	CAP 4773	3

* At least 75 percent of credits earned must be from FAU.

Acknowledgment of a minor in Computer Science is official upon successful completion of an FAU degree program.