DO NOT TYPE IN THIS BOX
Bulletin #: _____
Academic Year: _____

FLORIDA INTERNATIONAL UNIVERSITY
UNDERGRADUATE PROGRAM PROPOSAL

Changes *to an Undergraduate Degree Program*

INSTRUCTIONS: Please Type. Fill out this form **completely.**

School/College Engineering and Computing

Div./Dept. School of Computing and Information Sciences

Degree Title: Bachelor of Arts in Computer Science

■ B.A. ☐ B.S. ☐ Other Bachelor's _____

Proposed Implementation Date: 1/6/2020

PROPOSAL REQUESTED BY:

Faculty Contact Nagarajan Prabakar — 3/21/2019
(Type Name) (Signature)
prabakar@cis.fiu.edu — 305-348-2033
(Email address) (Phone Number)

Chair (Dept./Div.) S.S. Iyengar — 3/21/2019
(Type Name) (Signature)

Chair (Curr. Comm.) Cesar Levy — ____/____/2019
(Type Name) (Signature)

College/School Dean John Volakis — ____/____/2019
(Type Name) (Signature)

NO HEARING REQUIRED. PLEASE SUBMIT ORIGINAL FORM.

Bachelor of Arts in Computer Science

Justification for Program Changes

Due to the current structure of our current CS curriculum with only three elective courses, students are unable to take a cross-section of courses that expose them to emerging technologies, thereby reducing their placement opportunities.

The emphasis of the FIU's initiative on 4-year graduation rates requires the reduction in the length of the pre-requisite chain of courses in order for students to fulfill their graduation requirements.

These changes allow students to take six elective courses and reduce the prerequisite chain by one course.

FLORIDA INTERNATIONAL UNIVERSITY
UNDERGRADUATE PROGRAM/CATALOG CHANGE PROPOSAL

FIU Undergraduate Catalog

Current (2018-2019)

Bachelor of Arts in Computer Science

Degree Program Hours: 120

Students must follow regular University admission procedures and upon admission declare their specific major as Computer Science.

All required courses must be completed with a grade of "C" or better. All students must participate in SCIS assessment activities and successfully complete an exit interview prior to graduation.

Lower Division

Students must complete the following courses as part of their course work, preferably during the first 60 credits:

Common Prerequisite Courses and Equivalencies

FIU Course(s)	Equivalent Course(s)
MAC 1140	MACx140
STA 2023	STAx122 or STAx023

For generic course substitutions/equivalencies for Common Program Prerequisites offered at community colleges, state colleges, or state universities, visit: **https://flvc.org.** Search Program Listing by Alphabetic Order. STA 2023 may be replaced with SAT-2122 or STA-3111.

Required Courses

Courses required for the Degree: (students admitted with less than 55 credits)

CGS 1920	Introduction to Computing	1
	or	
IDC 1000	Computer Science for Everyone	3
	or	
COP 1000	Introduction to Computer Programs	3

Upper Division Requirements

At least 50% of the upper division credits required for the BA in Computer Science must be taken at FIU.

Courses Required for the Degree:

Third and Fourth Years

MAD 2104	Discrete Mathematics	3
	or	
COT 3100	Discrete Structures	3
ENC 3249	Professional and Technical Writing for Computing	3
CGS 3095	Technology in the Global Arena – *GL*	3
COP 2210	Computer Programming I	4
COP 3337	Computer Programming II	3
COP 4338	Computer Programming III	3
CDA 3103	Fundamentals of Computer Systems	3
COP 3530	Data Structures	3
COP 4710	Database Management	3
CDA 4101	Structured Computer Organization	3
CEN 4010	Software Engineering I	3
CNT 4713	Net-centric Computing	3
COP 4610	Operating Systems Principles	3

Proposed

Bachelor of Arts in Computer Science

Degree Program Hours: 120

Students must follow regular University admission procedures and upon admission declare their specific major as Computer Science.

All required courses must be completed with a grade of "C" or better. All students must participate in SCIS assessment activities and successfully complete an exit interview prior to graduation.

Lower Division

Students must complete the following courses as part of their course work, preferably during the first 60 credits:

Common Prerequisite Courses and Equivalencies

FIU Course(s)	Equivalent Course(s)
MAC 1140	MACx140
STA 2023	STAx122 or STAx023

For generic course substitutions/equivalencies for Common Program Prerequisites offered at community colleges, state colleges, or state universities, visit: **https://flvc.org.** Search Program Listing by Alphabetic Order. STA 2023 may be replaced with SAT-2122 or STA-3111.

Required Courses

Courses required for the Degree: (students admitted with less than 55 credits)

CGS 1920	Introduction to Computing	1
	or	
IDC 1000	Computer Science for Everyone	3
	or	
COP 1000	Introduction to Computer Programs	3

Upper Division Requirements

At least 50% of the upper division credits required for the BA in Computer Science must be taken at FIU.

Courses Required for the Degree:

Third and Fourth Years

MAD 2104	Discrete Mathematics	3
	or	
COT 3100	Discrete Structures	3
ENC 3249	Professional and Technical Writing for Computing	3
CGS 3095	Technology in the Global Arena – *GL*	3
COP 2210	Computer Programming I	4
COP 3337	Computer Programming II	3
COP 4338	~~Computer~~ Systems Programming ~~III~~	3
~~CDA 3103~~	~~Fundamentals of Computer Systems~~	~~3~~
CDA 3XXX	Computer Architecture	3
COP 3530	Data Structures	3
~~COP 4710~~	~~Database Management~~	~~3~~
~~CDA 4101~~	~~Structured Computer Organization~~	~~3~~
CEN 4010	Software Engineering I	3
~~CNT 4713~~	~~Net-centric Computing~~	~~3~~
COP 4610	Operating Systems Principles	3

Computer Science Electives Students must complete three courses from the list of electives maintained by the School. These electives will be drawn from acceptable electives in the B.S. in Computer Science program or required courses in the B.S in Computer Science program not used in the B.A. program, from electives in the B.A. in Information Technology program, and from electives in the B.S. in Computer Engineering program. **Interdisciplinary Courses** Nine additional credits must be taken outside the School of Computing and Information Sciences. These credits must normally be selected from the courses for a minor or certificate in another discipline. When there is no minor or certificate in the area of the student's interest, a set of courses can be created with the approval of advisers from SCIS and the other area of interest.	**Computer Science Electives** Students must complete **one course from each of the three elective groups and must complete three additional elective courses from these elective groups.**~~three courses from the list of electives maintained by the School.~~ These electives will be drawn from acceptable electives in the B.S. in Computer Science program or required courses in the B.S in Computer Science program not used in the B.A. program, from electives in the B.A. in Information Technology program, and from electives in the B.S. in Computer Engineering program. **Interdisciplinary Courses** Nine additional credits must be taken outside the School of Computing and Information Sciences. These credits must normally be selected from the courses for a minor or certificate in another discipline. When there is no minor or certificate in the area of the student's interest, a set of courses can be created with the approval of advisers from SCIS and the other area of interest.

Rationale: Please see the attached justification to this program catalog change proposal.