DO NOT TYPE IN THIS BOX

Bulletin #: 3

Academic Year: 2022-23

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. Knight Foundation School of Computing and Information Sciences

Degree Title: Bachelor of Arts in Computer Science

■ B.A. ☐ B.S. ☐Other Bachelor's _____

Proposed Implementation Date: 8/21/2023

PROPOSAL REQUESTED BY:

Faculty Contact Masoud Sadjadi Masoud Sadjadi 11/10/2022
(Type Name) (Signature)

sadjadi@cs.fiu.edu
(Email address) (Phone Number)

Chair (Dept./Div.) Jason Liu 11/21/2022
(Type Name) (Signature)

Chair (Curr. Comm.) _____ ____/____/2022
(Type Name) (Signature)

College/School Dean John Volakis ____/____/2022
(Type Name) (Signature)

NO HEARING REQUIRED. PLEASE SUBMIT ORIGINAL FORM.

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Bulletin #: _____
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FLORIDA INTERNATIONAL UNIVERSITY
UNDERGRADUATE PROGRAM PROPOSAL

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School/College Engineering and Computing

Div./Dept. Knight Foundation School of Computing and Information Sciences

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College/School Dean John Volakis ____/____/2022
(Type Name) (Signature)

NO HEARING REQUIRED. PLEASE SUBMIT ORIGINAL FORM.

DO NOT TYPE IN THIS BOX

Bulletin #: _____

Academic Year: _____

CHANGES *TO UNDERGRADUATE DEGREE PROGRAM*

PLEASE SUBMIT THIS FORM WITH YOUR PROPOSAL

Please fill out the coversheet in its entirety.

The proposal must include the following elements using the current undergraduate catalog:

I. List old degree's prescribed courses, other requirements, credits, and page number (left column)
II. List new degree's prescribed courses, other requirements, and credits (right column, use red font to denote additions to text and strikethrough feature to denote omissions)
III. Include a brief rationale for the change

Complete the checklist that begins on the following page.

	YES	NO	N/A
1. Do all courses exist in the current catalog?	◉	☐	☐
2. If courses are not in the current catalog, are they proposed in the same Curriculum Committee bulletin as this proposal?	☐	☐	◉
3. If courses are not in the current catalog or proposed in this same bulletin, were they approved in a previous curriculum bulletin? • If yes, attach a separate sheet indicating each course number, name, bulletin number, and bulletin date. • If the answers to 1, 2, or 3 are no, do not submit the proposal. Address the course issues first.	☐	☐	◉
4. Do courses listed have the correct course prefixes, official titles, course numbers, and number of credits?	◉	☐	☐
5. Do course descriptions match the existing catalog or proposed course descriptions?	◉	☐	☐
6. Are all courses to be added taught in the same proposing department?	◉	☐	☐
7. Are courses to be deleted taught in the same proposing department? • If the answer to 6 or 7 is no, do you have written approval/acknowledgment of the other department(s)? The written approval(s) or acknowledgment(s) must be attached to the proposal. (You must have written approval before submitting this document.)	◉	☐	☐
8. Does this change affect the courses measuring Student Learning Outcomes (SLOs) or Program Outcomes (POs) for the program? (For a copy of the assessment reports, please send a request to assessment@fiu.edu.) If yes, please submit revised SLOs and POs to assessment@fiu.edu for approval. Documentation of approval must be attached.	☐	◉	☐

	YES	NO	N/A
9. Have you contacted the Office of Academic Planning and Accountability to determine if the proposed program changes constitute a substantive change that requires notification or a prospectus to be submitted to the Southern Association of Colleges and Schools Commission on Colleges (SACSCOC)? Please do so prior to submitting this form if you answer yes to any of the questions below.	☐	☐	☐
– Will significant additional equipment be needed to deliver the revised program?	☐	◉	☐
– Will significant additional facilities be needed to deliver the revised program?	☐	◉	☐
– Will significant additional financial resources be needed to deliver the revised program?	☐	◉	☐
– Will a significant amount of new content be required? (Significant is defined as equal to or greater than 25% new content.)	☐	◉	☐
– Will a significant number of new faculty members be required to deliver the revised program?	☐	◉	☐
– Will significant additional library/learning resources be needed to deliver the revised program?	☐	◉	☐

- Changing 25% or more of the content of an existing degree constitutes a “significant departure” from the institution’s existing programs and requires SACSCOC notification (or approval) prior to implementation. Whether to notify or to seek approval from SACSCOC depends on the amount of new content required. How much new content will be required for the revised program? (Please check the appropriate percent range below.)

  ☐ 25%-49% of the program’s content, which requires notification to SACSCOC prior to implementation

  ☐ 50% or more of the program’s content, which requires SACSCOC approval prior to implementation; approval must be obtained according to SACSCOC deadlines

	YES	NO	N/A
– Will at least 25% of the program be offered at a new location geographically apart from the main campus? (If yes, please check the appropriate percent range below.)	☐	◉	☐
☐ 25%-49% of the program will be offered at a new location, which requires notification to SACSCOC prior to implementation			
☐ 50% or more of the program will be offered at a new location, which requires SACSCOC approval prior to implementation; approval must be obtained according to SACSCOC deadlines			
– Will the revised program enter into a collaborative academic arrangement that includes the initiation of a dual academic program with another institution?	☐	◉	☐
– Will the revised program enter into a contract by which an entity not eligible for Title IV funding offers 25% or more of the program (e.g., international university)?	☐	◉	☐

Clear Form

FIU | Engineering & Computing

FLORIDA INTERNATIONAL UNIVERSITY

To: Mary Cossio
Faculty Senate

From: Dean or Assoc. Dean and College Curriculum Cmte. Chair

Subject: Memo in Lieu of Curriculum Chair and Dean Signatures for Bulletin #3

Date: November 24, 2022

As instructed by the Faculty Senate, this memo will serve as approval of the attached proposals for Bulletin #3 by our Curriculum Committee Chair, Alexander Afanasyev, and the Dean for College of Engineering and Computing (John L. Volakis), in lieu of physical signatures. The proposals in this Bulletin were approved by our Curriculum Committee on November 23, 2022.

In addition to the above, memos in lieu of signatures have also been included by departments unable to obtain physical signatures for their faculty contact and/or department chair.

FIU Engineering & Computing
FLORIDA INTERNATIONAL UNIVERSITY

To: Mary Cossio
Faculty Senate

From: Faculty Contact and KFSCIS Interim Director

Subject: Memo in Lieu of Curriculum Chair and Dean Signatures for Bulletin #3

Date: November 24, 2022

As instructed by the Faculty Senate, this memo will serve as approval of the attached proposals from KFSCIS for Bulletin #3 by faculty contact (Masoud Sadjadi) and KFSCIS Interim Director (Jason Liu), in lieu of physical signatures. The proposals in this Bulletin were approved by our Curriculum Committee on November 23, 2022.

Bachelor of Arts in Computer Science

Justification for Program Changes

For keeping our BA in CS up to date with the rapid changes in this field, the list of elective courses for this major needs to be revised frequently as we encourage our faculty to offer new courses relevant to topics practiced in the industry. By allowing KFSCIS to maintain the list of electives on its portal, our students and faculty members can become aware of the most recent changes in a timely manner, keeping up with the pace of changes in this field. Having the list as part of the catalog would only create unnecessary work for everyone involved and delays the effective date of the changes significantly. This proposal resolves the above issue.

FLORIDA INTERNATIONAL UNIVERSITY
UNDERGRADUATE PROGRAM/CATALOG CHANGE PROPOSAL

FIU Undergraduate Catalog

OLD (page 446)

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 KFSCIS 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

Please visit https://cpm.flvc.org for a current list of state-approved common prerequisites.
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 the Field of Computing	1
or		
COP 1000	Introduction to Computer Programs	3
or		
IDC 1000	Computer Science for Everyone	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

COT 3100	Discrete Structures	3
or		
MAD 2104	Discrete Mathematics	3
ENC 3249	Professional and Technical Writing for Computing	3
or		
ENC 3213	Professional and Technical Writing	3
CDA 3102	Computer Architecture	3
CEN 4010	Software Engineering I	3
CGS 3095	Technology in the Global Arena – *GL*	3
COP 2210	Computer Programming I	4
COP 3337	Computer Programming II	3
COP 3530	Data Structures	3
COP 4338	Systems Programming	3
COP 4610	Operating Systems Principles	3

Computer Science Electives

NEW

Bachelor of Arts in Computer Science

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COP 2210	Computer Programming I	4
COP 3337	Computer Programming II	3
COP 3530	Data Structures	3
COP 4338	Systems Programming	3
COP 4610	Operating Systems Principles	3

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. 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 Knight Foundation 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 KFSCIS and the other area of interest.	Students must complete one course from each of the three elective groups and must complete three additional elective courses from these elective groups. 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. KFSCIS maintains three lists of courses for three elective groups: Foundations, Systems, and Applications (https://www.cis.fiu.edu/academics/degrees/undergraduate/b-a-computer-science/). **Interdisciplinary Courses** Nine additional credits must be taken outside the Knight Foundation 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 KFSCIS and the other area of interest.

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