



**FLORIDA INTERNATIONAL UNIVERSITY  
UNIVERSITY CURRICULUM COMMITTEE**  
*Proposal for a Course Change*

**DO NOT TYPE IN THIS BOX**

Bulletin #: 2

Academic Year: 2019-20

**PART I. FILL OUT THIS SECTION COMPLETELY**

1. School/College Engineering and Computing  
Div./Dept. in Which Taught School of Computing and Information Sciences
2. CGS 1 920 1  
Alpha Prefix 1st Digit Last 3 Digits "C"-lec-lab "L"-Lab Cr. Hrs.
3. Present Course Title Introduction to Computing

**PART II. FILL OUT CHANGE INFORMATION ONLY**

Change Effective 8 / 24 / 2019

- 4a. New Course Title \_\_\_\_\_  
b. New Abbreviated course Title (for computer class schedules, transcripts) \_\_\_\_\_  
LIMITED TO 25 Characters (including spaces)

- 5a. 

|                  |                 |                   |                            |
|------------------|-----------------|-------------------|----------------------------|
| <u>        </u>  | <u>        </u> | <u>        </u>   | <u>        </u>            |
| New Alpha Prefix | New 1st Digit   | New Last 3 Digits | Change "C"-lec-lab "L"-Lab |

5b. Change Credit Hours: From \_\_\_\_\_ To \_\_\_\_\_

6. New Catalog Description/Major Topics (not to exceed 200 characters including spaces)  
College of Medicine and College of Law: Attach description not exceeding 1,000 characters including spaces.

7. New Prerequisite(s): \_\_\_\_\_  
8. New Corequisite(s): \_\_\_\_\_

9. Explain Reclassification Request:  
Since SCIS is adding a new BS-in-Cybersecurity program, the topics and outcomes include cybersecurity. Hence this proposal is to change the syllabus (with no changes to the catalog description).

10. Does this proposed change impact the assessment process of a program or certificate? **if yes, then send notification to assessment@fiu.edu.**

PROPOSAL REQUESTED BY:

|                           |                             |                     |                        |
|---------------------------|-----------------------------|---------------------|------------------------|
| Faculty Contact           | <u>Nagarajan Prabakar</u>   | <u></u>             | <u>10 / 24 / 20 19</u> |
|                           | (Type name)                 | (Signature)         |                        |
|                           | <u>prabakar@cis.fiu.edu</u> | <u>305-348-2033</u> |                        |
|                           | (Email address)             | (Phone number)      |                        |
| Chairperson (Dept./Div.)  | <u>S.S. Iyengar</u>         | <u></u>             | <u>10 / 24 / 20 19</u> |
|                           | (Type name)                 | (Signature)         |                        |
| Chairperson (Curr. Comm.) | <u>Wei-Chiang Lin</u>       | <u></u>             | <u>10 / 31 / 20 19</u> |
|                           | (Type name)                 | (Signature)         |                        |
| College/School Dean       | <u>John Volakis</u>         | <u></u>             | <u>11 / 5 / 20 19</u>  |
|                           | (Type name)                 | (Signature)         |                        |

**Submit one original form.** Attach one copy of the Course Justification and Course Syllabus: Course Description, Objectives, Learning Outcomes, Major Topics and textbooks.

## **CGS-1920 Introduction to Computing**

### **Course Change Justification**

SCIS is adding a new BS-in-Cybersecurity program effective from Fall 2020. Since CGS-1920 provides overview of all computing related degree programs, cybersecurity is added to the topics and outcomes. Hence this proposal is to notify the changes to the syllabus (without any change to the catalog description).

## School of Computing and Information Sciences

**Course Title:** Introduction to Computing

**Date:** 9/30/19

**Course Number:** CGS 1920 (Lower division)

**Number of Credits:** 1 (P/F grade)

|  |   |
|--|---|
| <b>Subject Area:</b> Professional Development  | <b>Subject Area Coordinator:</b><br>Richard Whitaker<br><b>email:</b> rwhittak@cs.fiu.edu |
| <b>Catalog Description:</b><br>Overview of the computing field to students, research programs and career options.  |   |
| <b>Textbook:</b>   |   |
| <b>References:</b> <a href="#">Computer Science Curricula 2013 (pdf file)</a><br><a href="#">IT Curricula 2017 (pdf file)</a><br><a href="#">Cybersecurity 2017 (pdf file)</a> |   |
| <b>Prerequisites Courses:</b> None.  |   |
| <b>Corequisites Courses:</b> None  |   |

Type: Required (for CS, IT and CyS majors)

Prerequisites Topics:

None

Course Outcomes:

1. Be familiar with the scope of degree programs in the computing field
2. Master the overview of Computer Science program
3. Master the overview of Information Technology program
4. Master the overview of Cybersecurity program
5. Be exposed to the research opportunities for undergraduate students
6. Be exposed to the graduate programs
7. Be familiar with the career potential opportunities
8. Be familiar with the professional organizations

**School of Computing and Information Sciences**  
**CGS 1920**  
**Introduction to Computing**

**Outline**

| Topic   | Number of<br>Lecture Hours | Course<br>Outcome |
|---|----------------------------|-------------------|
| <ul style="list-style-type: none"> <li>• Introduction to the computing field               <ul style="list-style-type: none"> <li>○ Overview of computing</li> <li>○ Computing disciplines</li> </ul> </li> </ul>   | 1                          | 1                 |
| <ul style="list-style-type: none"> <li>• Program overview               <ul style="list-style-type: none"> <li>○ B.S. in Computer Science</li> <li>○ B.A. in Computer Science</li> <li>○ B.S. in Information Technology</li> <li>○ B.A. in Information Technology</li> <li>○ B.S. in Cybersecurity</li> <li>○ Accreditation and Advisory Board</li> </ul> </li> </ul> | 1                          | 2,3               |
| <ul style="list-style-type: none"> <li>• Guest lectures               <ul style="list-style-type: none"> <li>○ Broad areas of computing</li> <li>○ Industrial lecture</li> </ul> </li> </ul>  | 4                          | 2,3               |
| <ul style="list-style-type: none"> <li>• Undergraduate research               <ul style="list-style-type: none"> <li>○ Research Experience in Undergraduate</li> <li>○ Internships</li> </ul> </li> </ul>   | 1                          | 4                 |
| <ul style="list-style-type: none"> <li>• Introduction to graduate schools               <ul style="list-style-type: none"> <li>○ Research centers in SCIS</li> <li>○ Outline of graduate programs</li> <li>○ GRE</li> </ul> </li> </ul>   | 1                          | 5                 |
| <ul style="list-style-type: none"> <li>• Career               <ul style="list-style-type: none"> <li>○ Potential career options</li> <li>○ Career Services presentation</li> </ul> </li> </ul>  | 1                          | 6                 |
| <ul style="list-style-type: none"> <li>• Presentation of organizations               <ul style="list-style-type: none"> <li>○ ACM, IEEE</li> <li>○ WICS</li> <li>○ UPE</li> <li>○ Course feedback survey</li> </ul> </li> </ul>   | 1                          | 7                 |

**School of Computing and Information Sciences**  
**CGS 1920**  
**Introduction to Computing**

**Social and Ethical Implications of Computing Topics**

| <b>Topic</b>               | <b>Class time</b> | <b>Student performance measures</b> |
|----------------------------|-------------------|-------------------------------------|
| Professional organizations | <b>1</b>          |                                     |