

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)

Subject Area: Professional Development	Subject Area Coordinator: Richard Whitaker email: rwhittak@cs.fiu.edu
Catalog Description: Overview of the computing field to students, research programs and career options.	
Textbook:	
References: Computer Science Curricula 2013 (pdf file) IT Curricula 2017 (pdf file) Cybersecurity 2017 (pdf file)	
Prerequisites Courses: None.	
Corequisites Courses: 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

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Outline

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

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Social and Ethical Implications of Computing Topics

Topic	Class time	Student performance measures
Professional organizations	1	