

# Knight Foundation School of Computing and Information Sciences

**Course Title:** Introduction to Computing

**Date:** 9/30/2019

**Course Number:** CGS 1920

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

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| <b>Subject Area:</b> Professional Development  | <b>Subject Area Coordinator:</b> 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

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**Outline**

| <b>Topic</b>  | <b>Number of Lecture Hours</b> | <b>Course Outcome</b> |
|---|--------------------------------|-----------------------|
| <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                     |

**Social and Ethical Implications of Computing Topics**

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

**Assessment Plan for the Course & how Data in the Course are used to assess Program Outcomes**

Student and Instructor Course Outcome Surveys are administered at the conclusion of each offering, and are evaluated as described in the School's Assessment Plan:

<https://abet.cs.fiu.edu/csassessment/>