

# Florida International University

## Academic Learning Compact



### Name of the Undergraduate Degree Program

## Computer Science

### Mission Statement

The Computer Science degree program provides graduates (1) a broad-based education that will form the basis for personal growth and life-long learning, (2) a quality technical education that will equip them for productive careers in the field, (3) the communication skills and social and ethical awareness for the responsible and effective practice of their professions, and (4) preparation for graduate education. The program maintains a diverse student population, an environment in which students from all groups, including the traditionally under-represented, may successfully pursue the study of Computer Science, and a dedicated and qualified faculty who actively pursue excellence in teaching.

### Student Learning Outcomes

**FIU Computer Science graduates should be able to achieve the following:**

#### Content/Discipline Knowledge

1. Demonstrate proficiency in various areas of Computer Science including data structures and algorithms, concepts of programming languages and computer systems.
2. Demonstrate mastery of at least one modern programming language and proficiency in at least one other.

#### Critical Thinking

1. Demonstrate proficiency in problem solving and application of software engineering techniques.

#### Oral and Written Communication

1. Demonstrate effective communication skills.

Degree Program Student Learning Outcomes	Direct Assessment Measures	Data Collection and Analysis Plan (Who Collects? Who analyzes? When?)
<b>Content/Discipline Knowledge</b>		
Demonstrate proficiency in the foundation areas of Computer Science including mathematics, discrete structures, logic and the theory of algorithms.	Term project report and deliverables, presentations	Project report and deliverables will be submitted by the end of each semester and will be analyzed by at least two SCIS faculty
Demonstrate proficiency in various areas of Computer Science including data structures and algorithms, concepts of programming languages and computer systems	Term project report and deliverables, presentations	Project report and deliverables will be submitted by the end of each semester and will be analyzed by at least two SCIS faculty
Demonstrate proficiency in problem solving and application of software engineering techniques	Term project report and deliverables, presentations	Project report and deliverables will be submitted by the end of each semester and will be analyzed by at least two SCIS faculty
Demonstrate mastery of at least one modern programming language and proficiency in at least one other	Term project report and deliverables, presentations	Project report and deliverables will be submitted by the end of each semester and will be analyzed by at least two SCIS faculty
<b>Critical Thinking</b>		
See above		
<b>Oral and Written Communication</b>		
Demonstrate effective communication skills	Term project report and deliverables, presentations	Project report and deliverables will be submitted by the end of each semester and will be analyzed by at least two SCIS faculty