## Undergraduate Degree Program

**Program - CEC Computer Science SLO (BS)**

### Mission Statement

To prepare students with a solid foundation knowledge in computing, communication, team skills, ethical and social responsibilities that will enable them for placement in computing related fields as well as admission to graduate programs.

Knight Foundation School of Computing and Information Sciences

### Outcomes

FIU graduates should be able to achieve the following:

#### Content Knowledge and Skills (including Technology)

<table>
<thead>
<tr>
<th>Direct Measures</th>
<th>Procedure</th>
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</table>
| Content Knowledge - Proficiency in a programming language | Assessment Instrument: Rubric  
Assessment Method: The emphasis will be made on the student mastering the understanding of the content of modern programming language.  
Every student will demonstrate their Content Knowledge proficiency or better on the following scoring scale: Novice, Apprentice, Proficient, Expert  
Student projects in the Senior Project course (CIS 4911) are evaluated to assess the level of student achievement. The evaluation is done by a panel of at least two faculty members.  
**Course Assessed:** CIS 4911  
**Sampling:** All students in CIS-4911  
**Minimum Criteria for Success:** All students will score at least at the proficient level |

#### Critical Thinking

<table>
<thead>
<tr>
<th>Direct Measures</th>
<th>Procedure</th>
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</thead>
</table>
| Critical Thinking - Proficiency in a programming language | Assessment Instrument: Rubric  
Assessment Method: Every student will demonstrate their Critical Thinking proficiency or better on the following scoring scale: Novice, Apprentice, Proficient, Expert  
Student projects in the Senior Project course (CIS 4911) are evaluated to assess the level of student achievement. The evaluation is done by a panel of at least two faculty members.  
**Course Assessed:** CIS 4911  
**Sampling:** All students in CIS-4911  
**Minimum Criteria for Success:** All students will score at least at the proficient level |

#### Communication (Oral or Written)

<table>
<thead>
<tr>
<th>Direct Measures</th>
<th>Procedure</th>
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<tbody>
<tr>
<td>Oral Communication Skills in Computer Science</td>
<td>Procedure:</td>
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<tr>
<td>---------------------------------------------</td>
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</tbody>
</table>
| Graduates will demonstrate effective oral communication skills utilizing domain knowledge, organization, presentation aids, elocution, and audience contact. | Assessment Instrument: Rubric  
Assessment Method: Student final project presentations in the Senior Project course (CIS 4911) are evaluated to assess the level of student achievement. The evaluation is done by a panel of at least two faculty members.  
Every student will demonstrate adequate or better oral communications skills on the following scoring scale:  
Deficient, Adequate, Superb. |

<table>
<thead>
<tr>
<th>Written Communication Skills in Computer Science</th>
<th>Procedure:</th>
</tr>
</thead>
</table>
| Graduates will demonstrate effective written communication skills in the field of computer science. | Assessment Instrument: Rubric  
Assessment Method: Every student will demonstrate adequate or better written communications skills on the following scoring scale:  
Deficient, Adequate, Superb. |

Student final project document, is a lengthy document that includes contributions from all students in the project from their work on the user stories throughout the semester, in the Senior Project course (CIS 4911) are evaluated to assess the level of students' written achievement. The evaluation is done by a panel of at least two faculty members.  
Four indicators of Written Communication are evaluated:  
1. Content and Development  
2. Organization  
3. Language  
4. Conventions  
Course Assessed: CIS 4911  
Sampling: All students in CIS-4911.  
Minimum Criteria for Success: All students will score at the adequate level or better. |