

**Bachelor's of Science in Computer Science  
Four-Year Plan of Study (2018-2019)**



| FIRST-YEAR | FALL  |           | SPRING       |  |               |
|------------|---|-----------|--------------|--|---------------|
|            | Math 170: Calculus I  | <b>FM</b> | 4            | Math 175: Calculus II                            | 4             |
|            | COMM 101: Fundamentals of Communication   | <b>FS</b> | 3            | CS 121: Computer Science I                       | 4             |
|            | ENGL 101: Introduction To College Writing   | <b>FW</b> | 3            | ENGL 102: Intro. to College Writing and Research | <b>FW</b> 3   |
|            | PHYS 211/L: Physics I w/ Calculus & Lab or<br>CHEM 111/L: General Chemistry I & Lab | <b>FN</b> | 4-5          | Literature and Humanities*                       | <b>FH</b> 3-4 |
|            | CS-HU 130: Foundational Values  |           | 1            |  |               |
|            | <b>Semester Total</b>   |           | <b>15-16</b> | <b>Semester Total</b>                            | <b>14-15</b>  |

| SOPHOMORE             | FALL                                     |           | SPRING                |  |     |
|-----------------------|--|-----------|-----------------------|--|-----|
|                       | MATH 189: Discrete Mathematics           |           | 4                     | Math Elective*                             | 3-4 |
|                       | CS 221: Computer Science II              |           | 3                     | CS 321: Data Structures                    | 3   |
|                       | ENGL 202: Technical Communication        | <b>FS</b> | 3                     | CS 253: Intro. to Systems Programming      | 3   |
|                       | UF 100: Foundations of Intellectual Life |           | 3                     | ECE 230/L: Digital Systems & Lab           | 4   |
|                       | CS-HU 153: Navigating Computer Systems   |           | 1                     | CS-HU 250: Introduction to Version Control | 1   |
|                       |  |           |                       | CS-HU 271: Agile Development               | 1   |
|                       |  |           |                       | CS-HU 310: Intro to Database System Usage  | 1   |
| <b>Semester Total</b> |  | <b>14</b> | <b>Semester Total</b> | <b>16-17</b>                               |     |

| JUNIOR | FALL  |           | SPRING    |   |               |
|--------|---|-----------|-----------|---|---------------|
|        | MATH 360: Engineering Statistics or<br>MATH 361: Probability and Statistics I |           | 3         | CS 361: Intro. to the Theory Of Computation         | 3             |
|        | CS 230: Ethical Issues in Computing   | <b>FC</b> | 3         | CS 441: Computer Architecture                       | 3             |
|        | CS 354: Programming Languages   |           | 3         | Additional CS or CS-HU Courses*                     | 3             |
|        | ECE 330/L: Microprocessors & Lab  |           | 4         | Visual And Performing Arts Elective*                | <b>FA</b> 3   |
|        | Additional CS or CS-HU Courses*   |           | 3         | BIOL 191 or CHEM 111/L or GEOS 100 or<br>PHYS 211/L | <b>FN</b> 4-5 |
|        | <b>Semester Total</b>   |           | <b>16</b> | <b>Semester Total</b>                               | <b>16-17</b>  |

| SENIOR | FALL  |  | SPRING    |  |              |
|--------|---|--|-----------|--|--------------|
|        | CS 453: Operating Systems                   |  | 3         | CS 481: Senior Design Project          | <b>FF</b> 3  |
|        | CS 471: Software Engineering                |  | 3         | CS 488: Senior Outcome Assessment      | 0            |
|        | CS 421: Design and Analysis of Algorithms   |  | 3         | Additional CS or CS-HU Courses*        | 7            |
|        | General Elective                            |  | 3         | General Electives to Total 120 Credits | 1-4          |
|        | UF 200: Foundations of Ethics and Diversity |  | 3         |  |              |
|        | <b>Semester Total</b>                       |  | <b>15</b> | <b>Semester Total</b>                  | <b>11-14</b> |

\*SEE CATALOG FOR ADDITIONAL REQUIREMENTS

TOTAL PROGRAM CREDITS 120