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| Florida International University |  |
|  |
| *Computer Science Software Design* *FTIC* |
|  |  |  |  |  |  |  |
| **Fall 2012** | Credits | Critical Progress |  | **Spring 2013** | Credits | Critical Progress |
| CGS 1920 - Introduction to Computing | 1 |  |  | MAC 2311 - Calculus I | 4 | **Critical Progress: Completed and C** |
| MAC 2147 - Pre-calculus, if needed, or General Electives | 4 | **Critical Progress: Completed and C** |  | List B (Life Science and lab) | 4 |  |
| List A (Science Elective) | 3 |  |  | UCC courses | 6 |  |
| UCC courses | 7 |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **Total Hours** | 15 | ***Min GPA: 2.2***  |  | **Total Hours** | 14 | ***Min GPA: 2.2*** |
|  |  |  |  |  |  |  |
| **Fall 2013** | Credits | Critical Progress |  | **Spring 2014** | Credits | Critical Progress |
| COP 2210 - Computer Programming I | 4 | **Critical Progress: Completed and B-** |  | PHY 2048/PHY 2048L - Physics I w/ Calculus | 5 |  |
| MAC 2312 - Calculus II | 4 | **Critical Progress: Completed and C** |  | MAD 2104 - Discrete Mathematics | 3 | **Critical Progress: Completed and C** |
| UCC courses | 6 |  |  | COP 3337 Computer Programming II | 3 | **Critical Progress: Completed and B-** |
|  |  |  |  | UCC courses | 3 |  |
|  |  |  |  | General Electives | 3 |  |
| **Total Hours** | 14 | ***Min GPA: 2.2*** |  | **Total Hours** | 17 | ***Min GPA: 2.2*** |
| Term One | Credits | Critical Progress |  | Term One | Credits | Critical Progress |
| **Fall 2014** | Credits | Critical Progress |  | **Spring 2015** | Credits | Critical Progress |
| PHY 2049/PHY 2049L - Physics II w/Calculus | 5 |  |  | CGS 3092 - Professional Ethics and Social Issues | 1 | **Critical Progress: Completed and C** |
| COP 3530 - Data Structures | 3 | **Critical Progress: Completed and C** |  | COP 3402 - Fundamentals of Computer Systems | 3 |  |
| ENC 3213 - Professional and Technical Writing | 3 | **Critical Progress: Completed and B-** |  | COT 3420 - Logic for Computer Science | 3 |  |
| COM 3110 - Business and Professional Communications | 3 |  |  | COP 4540 - Database | 3 |  |
|  |  |  |  | STA 3033 - Introduction to Probability and Statistics for CS | 3 |  |
| **Total Hours** | 14 | ***Min GPA: 2.2*** |  | **Total Hours** | 13 | ***Min GPA: 2.2*** |
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| **Summer 2015** | Credits | Critical Progress |
| CEN 4010 - Software Engineering | 3 | **Critical Progress: Completed and C** |
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|  |  |  |
| **Total Hours** | 3 | ***Min GPA: 2.2*** |

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| **Fall 2015** | Credits | Critical Progress |  | **Spring 2016** | Credits | Critical Progress |
| List C (CS Elective) | 3 |  |  | COP 4555 - Principles of Programming Languages | 3 |  |
| CDA 4101 - Structured Computer Organization | 3 |  |  | COP 4610 - Operating Systems Principles | 3 |  |
| COP 4338 - Computer Programming III | 3 |  |  | CIS 4911 - Senior Project | 3 |  |
| MAD 3512 - Theory of Algorithms | 3 |  |  | List D (Software Engineering Course) | 3 |  |
| List D (Software Engineering Course) | 3 |  |  | General Electives | 3 |  |
|  |  |  |  |  |  |  |
| **Total Hours** | 15 | ***Min GPA: 2.2*** |  | **Total Hours** | 15 | ***Min GPA: 2.0*** |

List A: CS Science Electives: Choose from AST, GLY 4450, AST 2004, MCB 2000, BOT 1010, OCB 2003, BSC 1010, OCE 3014, BSC 1011, PCB 2061, CHM 1045, PHY 3123, CHM 1046, PHY 3124, GLY 1010, PHY 3513, GLY 1100, PHY 4323, GLY 3754, PHY 4324, GLY 4400
List B: UCC Life Science classes that are also acceptable as CS Science electives: Choose from: BSC 1010, BOT 1010, MCB 2000, OCB 2003 and corresponding lab
List C: CS Electives: Choose one from (CAP 4770 , COP 4225 , CEN 4021, COP 4226 , CEN 4072 , COP 4520 , CNT 4513).

List D: Software Engineering Courses (CEN4072, CEN4012). Each course is offered once a year, select the one that is offered for the current semester.

For students who are deficient in a foreign language, the general electives should include a two-semester sequence in one foreign language.

Students are required to earn at least nine credit hours prior to graduation by attending one or more summer semesters at FIU or any other University in the Florida State system.