**Bachelor of Science in Computer Science**

**Software Design Track**

**Two Year Major Map for Transfer Students – 60 Credits**

This plan is for students transferring with an AA degree from a Florida public college.

It is assumed that the following prerequisites have already been taken: COP 2210 - Computer Programming I; MAC 2147 - Pre-calculus; MAC 2311 - Calculus I; MAC 2312 - Calculus II; PHY 2048/PHY 2048L - Physics I w/Calculus; PHY 2049/PHY 2049L; MAD 2104 - Discrete Mathematics; List A Science Elective; List B Life Science Elective. There are five general elective credits in the first semester that can be used to satisfy any deficiencies.

**Junior Year – 30 Credits**

**Term One**

ENC 3213 - Professional and Technical Writing (3 credits)

COM 3110 - Business and Professional Communications (3 credits)

COP 3337- Computer Programming II (3 credits) **Critical Progress: Completed** **and B-**

General Electives (5 credits)

-------------------------------------------------------------------------------------------------------------------------------------

COP 3530 - Data Structures (3 credits, Summer\*) **Critical Progress: Completed and C**

CGS 3092 - Prof. Ethics and Social Issues (1 credit, Summer\*) **Critical Progress: Completed**

**Total Hours: 18; Min GPA: 2.2**

**Term Two**

COT 3420 - Logic for Computer Science (3 credits)

COP 4540 - Database (3 credits)

COP 3402 Fundamentals of Computer Systems (3 credits)

CEN 4010 - Software Engineering (3 credits)

**Total Hours: 12; Min GPA: 2.2**

**Senior Year - 30 credits**

**Term One**

List C (CS Elective) (3 credits)

CDA 4101 - Structured Computer Organization (3 credits)

COP 4338 - Computer Programming III (3 credits)

MAD 3512 - Theory of Algorithms (3 credits)

List D (Software Engineering Course) (3 credits)

**Total Hours: 15; Min GPA: 2.2**

**Term Two**

COP 4555 - Principles of Programming Languages (3 credits)

COP 4610 - Operating Systems Principles (3 credits)

CIS 4911 - Senior Project (3 credits)

STA 3033 - Introduction to Probability and Statistics for CS (3 credits)

List D (Software Engineering Course) (3 credits)

**Total Hours: 15; Min GPA: 2.0**

\* Summer: this course must be taken in the following summer term.

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.