**Bachelor of Science in Information Technology**

**Software Major**

**Three Year Major Map – 72 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 2250 - Programming in Java; MAC 2147 - Pre-calculus; CGS 2060 – Introduction to Computing; PSY 2012 – Introduction to Psychology; MAD 1100 – Discrete Mathematics. There are twenty general elective credits in the first two years that can be used to satisfy any deficiencies.

**First Year – 24 credits**

**Term One**

CEN 3721 – Human Computer Interaction (3 credits)

CGS 3767 – Computer Operating Systems (3 credits) **Critical Progress: Completed and C+**

General Electives (6 credits)

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

**Term Two**

ENC 3213 - Professional and Technical Writing (3 credits)

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

General Electives (6 credits)

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

**Second Year - 24 credits**

**Term One**

COP 3402 – Fundamentals of Computer Systems (3 credits)

CGS 3092 - Professional Ethics and Social Issues in Computing (1 credit)

List A (Interdisciplinary Courses) (3 credits) )

General Electives (5 credits)

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

**Term Two**   
CGS 4285 - Applied Computer Networking (3 credits)

CGS 4366 - Information Storage and Retrieval (3 credits)   
CGS 4854 - Website Construction and Management (3 credits)

General Electives (3 credits)

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

**Third Year - 24 credits**

**Term One**

COP 3530 – Data Structures (3 credits)

CNT4403 - Computing and Network Security (3 credits)   
List A (Interdisciplinary Courses) (3 credits)  
List B (IT Electives) (3 credits)

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

**Term Two**   
COP 4338 – Programming III (3 credits)

CEN 4023 - Component-Based Software Development (3 credits)   
List A (Interdisciplinary Courses) (3 credits)  
List B (IT Electives) (3 credits)

**Total Hours: 12; Min GPA: 2.0**

List A – Interdisciplinary Credits: Nine credits must be taken outside SCIS. These credits must be selected from the courses for a minor or certificate in another discipline. All nine credits must be taken from the same minor or certificate.

List B: - IT Electives: Students must take 2 elective courses in one area of. The fifth course may be selected from any area of concentration. Areas: System Administration (CIS 4431 - IT Automation, CTS 4348 Unix Admin), Database Administration (COP 4722 - DB Survey, COP 4723 - DB Admin), Network Administration (CNT 4504 - Advanced Network Management, CNT 4513 - Data Communications), Application Development (COP 4005 - Windows Programming for IT, COP 4813 - Web Application Programming , COP 4655 - Mobile Application Development).

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.