Bachelor of Science in Information Technology
Software Major (effective 8/2010)

**Prerequisites and Core**

- CGS 1920 Introduction to Computing (1 credit)
- CGS 2518 Data Analysis
- PSY 2012 Introduction to Psychology
- COP 2210 Programming I (4 credits)
- MAD 2104 Discrete Math Pre: MAC 1105
- MAC 1147 or MAC 1140 Pre-Calculus (and Trig)

- CDA 3103 Fundamentals of Computer Systems Pre: COP 2210
- CEN 3721 Human Computer Interaction Pre: COP 2210
- COP 3337 Programming II Pre: COP 2210
- CGS 3767 Computer Operating Systems Pre: COP 2210
- ENC 3249 or ENC 3213 Technical Writing

- COP 3530 Data Structures Pre: COP 3337, MAD 2104
- COP 4703 Information Storage and Retrieval Pre: COP 3337
- CGS 4854 Web Site Construct. and Mgmt. Pre: COP 3337, CGS 3767
- CGS 4285 Applied Computer Networking Pre: CGS 3767
- CGS 3095 Technology in the Global Arena Pre: COP 2210, and ENC 3249 or ENC3213

- COP 4338 Programming III Pre: COP 3530
- COP 4814 Component-Based Software Dev. Pre: COP 4703, CGS 4854
- CNT 4403 Computing and Network Security Pre: COP 3337, CGS 4285

**Electives**

- CTS 4408 DB Admin. Pre: COP 4703
- COP 4005 Windows Prgm. for IT Pre: COP 3337 Co: COP 4703
- COP 4655 Mobile Appl. Prgm. Pre: COP 4814
- CTS 4348 Unix System Admin. Pre: CGS 3767 Co: CGS 4285
- CIS 4431 IT Automation Pre: CGS 3767
- CNT 4513 Data Comm. Pre: COP 3337, CGS 4285
- COP 4722 Survey of DB System Pre: COP 4703
- COP 4813 Web Appl. Prgm. Pre: COP 4005, CGS 4854
- CNT 4603 System Admin and Maintenance Pre: CGS 3767
- CNT 4504 Advanced Network Mgmt. Pre: CNT 4513

There are four areas of concentration: database administration, network administration, system administration, application development. Six credits of electives are required in one area of concentration.

**Interdisciplinary Credits**

Nine additional 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.

- Pre: indicates a prerequisite. The prerequisite must be completed before the current course.
- All courses are 3 credits, except as noted.
- Co: indicates a co-requisite. The co-requisite may be taken at the same time as or before the current course. The co-requisite is a prerequisite for any course that has the current course as a prerequisite.

* ENC3249 or ENC 3213 prerequisites: complete the UCC English requirements

Updated 11/2014