BACHELOR OF SCIENCE
COMPUTER SCIENCE

GENERAL EDUCATION CORE REQUIREMENTS

Competencies
- Basic College Math
- Reading Comprehension
- Computer Literacy

ENL 101 Composition I 3
ENL 102 Composition II 3
SPC 101 (Public Speaking) 3
SMS ____ (Health) 3
SMS ____ (Activity) .5
SMS ____ (Activity) .5

Distribution Sequences (18-20 credits)
† ____ ____ (Lab Science I) 3-4
† ____ ____ (Lab Science II) 3-4
HST 101 World History I 3
HST 102 World History II 3

Distribution Electives (15 credits)
Among the distribution electives, the student must earn at least 3 but no more than 9 additional semester hours in each of the three divisions.

Humanities (Division I)

Science/Mathematics (Division II)
* MAT 220 Calculus I 4
* MAT 221 Calculus II 4

Social Sciences (Division III)

(Note: Courses allowable as distribution electives are marked DI, DII, or DIII in the University Catalog.)

QUANTITATIVE (Q) DIVERSITY (V) WRITING (W)

These are required support courses which may also be used to satisfy the indicated Distribution requirements. A student may choose to fulfill Distribution requirements with courses other than the ones listed, but these listed courses must still be taken.

Using a course to satisfy two or more requirements, (for example, a support course and a distribution elective), the credits are counted in only one place.

† A laboratory science sequence chosen from the following list is a required support ingredient for the Computer Science major: BIO 131-132, CHE 130-131, CHE 130 & 212, PHS 211A-212A, PHS 221-222, GLS 100 & 102
† This science support course is in addition to the lab science sequence and must be chosen from the following list: BIO 131, CHE 130, CHE 212, GPH 101P, GLS 100, GLS 102, PHS 211A, PHS 221. The chosen course may also be used as a Division II distribution elective.
† At least one CSC elective must be numbered 290 or above.
† At least one CSC elective or one Option course MUST be chosen from the following list of courses using a programming language other than the one used in the CSC 201J-202J sequence: CSC 245A, CSC 273, CSC 278, CSC 311, CSC 325.

COURSES IN MAJOR (45-49 credits total)
CSC 200A Survey of Computer Science I 3
CSC 201J Software Design & Programming I 4
CSC 202J Software Design & Programming II 4
CSC 215 Survey of Computer Science II 4
CSC 260 Data Structures & Algorithms 4
CSC 280 Operating System Principles 3
CSC 295 Computer Architecture & Organization 3
CSC 300 Software Engineering I 4
CSC 520 Comp Sci Capstone Project Spec 1
CSC 521 Computer Science Capstone Project 3

Required Option Sequence
(Typically taken junior or early senior year)
† CSC _______ _______________________________ 3
† CSC _______ _______________________________ 3

Artificial Intelligence & Robotics: CSC 340, CSC 485
Computation Theory: CSC 290, CSC 415
Computer Graphics and Visualization: CSC 246, CSC 425
Computer Networking & Security: CSC 315A, CSC 435
Distributed and Cloud Computing: CSC 315A, CSC 475
Embedded Systems: CSC 230, CSC 330A
Object-Oriented Programming: CSC 311, CSC 325
Parallel Computing: CSC 445, CSC 475
Software Engineering: CSC 263, CSC 301

SUPPORT COURSES (18 credits total)
PHS 205 Digital Circuit Design 4
MAT 214A Discrete Structures 4
MAT 247 Statistics I 3
MAT ____ Math Support Course 3

(Choose one 3-credit MAT course with MAT 220 or MAT 221 as a prerequisite, or another MAT course with permission of the Computer Science Chairperson.)

FREE ELECTIVES (3 credit minimum)
May be necessary to take additional credits to attain the minimum 120 credits required for graduation.

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Total minimum credits for graduation: 120
Effective:9/13

Salem State University