LEVEL II TO BE COMPLETED IN THE FIRST 53 CREDITS

LEVEL III TO BE COMPLETED BEFORE GRADUATION

Advisor: ________________________________ Name:___________________________________
______________________________________ Transfer credits:____________________________

Total minimum credits for graduation: 120

Effective: 9/12

Exceptions in the timing of courses will be made for transfer students.

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 (20 credits)
† ___ ___ (Lab Science I) 3-4
† ___ ___ (Lab Science II) 3-4
HST 101 World History I 3
HST 102 World History II 3
(Literature I) 3
(Literature 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.

† 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, SMS 100 & 102
‡ This science support course is in addition to the lab science sequence and must be chosen from the following list: CHE 130, CHE 212, GPH 101P, GLS 100, GLS 102, PHS 211A, PHS 211B. The chosen course may also be used as a Division II distribution elective.

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

Using a course to satisfy more than one requirement does not reduce the total credits required for graduation.

‡ 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.

BACHELOR OF SCIENCE
COMPUTER SCIENCE

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 498 Project Specification & Design Practicum 1
CSC 500 Directed Study in Computer Science I 3

† • CSC
† • CSC

Required Option Sequence

(Typically taken junior or early senior year)

† CSC
† CSC

Artificial Intelligence & Robotics Option: CSC 340, CSC 485
Computation Theory Option: CSC 290, CSC 415
Computer Network & Security Option: CSC 315A, CSC 435
Embedded Systems Option: CSC 230, CSC 330A
Object-Oriented Program. Option: CSC 311, CSC 325
Parallel Computing Option: CSC 445, CSC 475
Software Engineering Option: 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 MAT course with MAT 220 or MAT 221 as a prerequisite, or another MAT course with permission of the Computer Science Chairperson.)

† • Science course chosen from list 4

FREE ELECTIVES (3 credit minimum)

May be necessary to take additional credits to attain the minimum 120 credits required for graduation.

Salem State University