# FOUR YEAR TEMPLATE COMPUTER SCIENCE B.S.

# [Software Engineering Concentration]

#### **FIRST YEAR**

#### **First Semester**

CSC 110 Computer Science I MAT 211 Calculus I HIS 105 World History I ENG 106 Writing Intensive First Year Seminar

#### **Second Semester**

CSC 111 Computer Science II MAT 225 Discrete Math HIS 106 World History II HCS 100 Intro. to Human Comm.

### **SECOND YEAR**

#### **First Semester**

CSC 211 Design Patterns
CSC 220 Computer Organization
Gen Ed
Science 1 (2 semester science sequence)

#### Second Semester

CSC 310 Algorithms CSC 320 Operating Systems Gen Ed (2) Science 2 (2 semester sequence)

#### THIRD YEAR

# First Semester

CSC 496 Traditional Life Cycle

OR
CSC 394 Software Metrics/Process Management
CSC Elective
MAT 313 Applied Statistics
Gen Ed (2)

# **Second Semester**

CSC 431 Computer Networks

OR

CSC 497 Testing and XP

MAT 329 Elementary Linear Algebra

OR

CSC 371 Database Management

# FOURTH YEAR

Gen Ed (2)

## **First Semester**

CSC 496 Traditional Life Cycle CSC 498 Senior Research Methods Gen Ed (2) Free Elective (2)

## Second Semester

CSC 497 Testing and XP

OR

CSC 431 Computer Networks CSC 499 Research and Development Free Elective CSC 371 Database Management

OR

MAT 329 Elementary Linear Algebra