

# BACHELOR OF SCIENCE IN COMPUTER SCIENCE

## Degree Requirements, 2007

NAME: \_\_\_\_\_ SID#: \_\_\_\_\_

CATALOG: \_\_\_\_\_ EXPECTED GRADUATION DATE: \_\_\_\_\_

### GENERAL EDUCATION REQUIREMENTS

#### **FOUNDATION REQUIREMENTS**

English Composition

ENGL 101/107 ..... 3 \_\_\_\_\_

ENGL 102/108 ..... 3 \_\_\_\_\_

Mathematics

Requirement satisfied by courses used in the C SC major.

Second Language

Second semester proficiency required, through course completion or placement  
 First semester proficiency..... \_\_\_\_\_  
 Second semester proficiency..... \_\_\_\_\_

#### **TIER ONE REQUIREMENTS**

Traditions & Cultures (TRAD) – Take TWO

\_\_\_\_\_ 3 \_\_\_\_\_

\_\_\_\_\_ 3 \_\_\_\_\_

Individuals & Society (INDV) – Take TWO

\_\_\_\_\_ 3 \_\_\_\_\_

\_\_\_\_\_ 3 \_\_\_\_\_

Natural Sciences (NATS) – Not Required

#### **TIER TWO REQUIREMENTS**

Arts – Complete THREE UNITS

\_\_\_\_\_ 3 \_\_\_\_\_

Individuals and Societies – Take ONE

\_\_\_\_\_ 3 \_\_\_\_\_

Humanities – Take ONE

\_\_\_\_\_ 3 \_\_\_\_\_

**Note:** One course from Tier I or Tier II must focus on non-western cultures, race, class, gender, or ethnicity \_\_\_\_\_

### SUPPORTING SCIENCE COURSES

**Complete TWO approved lecture/lab combos:**

\_\_\_\_\_ 4 \_\_\_\_\_

\_\_\_\_\_ 4 \_\_\_\_\_

### COMPUTER SCIENCE COURSES

#### **Introductory/Pre-Major Courses – Take ALL**

C SC 127A **OR** C SC 227..... 4 \_\_\_\_\_

C SC 127B **OR** C SC 227 ..... 4 \_\_\_\_\_

MATH 124 **OR** MATH 125. ....3/5 \_\_\_\_\_

MATH 129 **OR** MATH 215 ..... 3 \_\_\_\_\_

#### **Core Courses – Take ALL**

• C SC 245 Discrete Structures.....4 \_\_\_\_\_

• C SC 252 Computer Organization.... 3 \_\_\_\_\_

• C SC 335 Object-Oriented Prgm.....4 \_\_\_\_\_

• C SC 345 Discrete Structures.....4 \_\_\_\_\_

• C SC 352 Systems Prgm/UNIX..... 3 \_\_\_\_\_

#### **Paradigms Elective – Take ONE**

C SC 372 Comparative Programming... 3 \_\_\_\_\_

C SC 422 Parallel/Distributed Prgm.....3 \_\_\_\_\_

C SC 460 Database Design.....3 \_\_\_\_\_

#### **Theory and Writing Elective – Take ONE**

C SC 437 Geometric Algorithms..... 3 \_\_\_\_\_

C SC 445 Algorithms ..... 3 \_\_\_\_\_

C SC 473 Automata..... 3 \_\_\_\_\_

#### **Systems Elective – Take ONE**

C SC 452 Operating Systems ..... 4 \_\_\_\_\_

C SC 453 Compilers/Systems Software 4 \_\_\_\_\_

#### **Open Electives – Take TWO 400-level electives, which may include courses listed below, additional area electives, or cross-listed courses**

C SC 425 Computer Networking..... 3 \_\_\_\_\_

C SC 433 Computer Graphics..... 3 \_\_\_\_\_

C SC 436 Software Engineering..... 3 \_\_\_\_\_

ECE 369 Computer Architecture..... 3 \_\_\_\_\_

**Total Units** \_\_\_\_\_ / 120

**Total Upper Division Units:** \_\_\_\_\_ / 42