**BACHELOR OF SCIENCE IN COMPUTER SCIENCE**

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<th>Stu ID:</th>
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**Major:** Computer Science - BS  
**Advisor:**  
**Catalog:** 2018-19  
**Grad date:**

### Major Courses

10 courses; Minimum 35 credits required; 24 credits must be from SU

- CSC54-184 Computer Science I
- CSC54-284 Computer Science II
- CSC54-384 Discrete Mathematics
- CSC54-394 Computer Organization
- CSC54-454 Algorithms
- CSC54-474 Programming Languages
- CSC54-644 Computer Systems
- CSC54-894 Senior Seminar in Software Engineering
- CSC54-XX4
- CSC54-XX4

### Required Supporting Courses:

Select one of the following:

- BIO50-123/121 Living Systems/Invest. Into Living Systems*
- BIO50-133/131 Molecular and Population Genetics/Invest. Genetics*

Take the following:

- CHE51-103/101 Principles of General Chemistry/Lab
- PHY53-154 Fundamentals of Physics I E&B 0
- MATLAB-154 Calculus I E&B 0
- MATLAB-254 Calculus II
- MATLAB-674 Linear Algebra

Select two additional upper level, approved CSC courses (3-4cr each):

- CSC54-XX4
- CSC54-XX4

### University Electives and/or Minor courses:

- CHE51-203/201 Chemical Kinetics & Equilibrium/Lab
- BIO50-123/121 Living Systems/Invest. Into Living Systems (if not taken above)*
- BIO50-133/131 Molecular and Population Genetics/Invest. Genetics (if not taken above)*
- CSC54-XX4
- CHE51-103/101 Principles of General Chemistry/Lab
- PHY53-154 Fundamentals of Physics I
- PHY53-404 Electronics
- PHY53-154 Introduction to Statistics
- PHY53-164 Fundamentals of Physics II
- PHY53-404 Fundamentals of Physics II

*The same course cannot be used to satisfy more than one area within the required supporting course section.

* Substitution card must be submitted for approved course; course cannot be double counted in major and required support course sections.

### GENERAL EDUCATION REQUIREMENTS

At least 30 total credits required, minimum 3 credits required per course

#### General Education Part I

- **First Year/Adv. Entry Seminar:**
  - UST05-014 or UST05-214

- **Foreign Language (3 sem.):**

- **Social Justice Course (may double count with any requirement):**

- **2 different FRAs:**

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<td>Total Southwestern Credits:</td>
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<td>Total Major Credits:</td>
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<td>Total Gen Ed Credits:</td>
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#### Exploration & Breadth (E&B) - Gen Ed Part II

Six total courses  
CSC major and elective courses cannot be used to satisfy Exploration & Breadth requirements.

Select one course from each of the four following areas:

- **Humanities:**
- **Natural Sciences:**
  - PHY53-154 Calculus I
- **Social Sciences:**
- **Fine Arts:**

Select two additional courses from the four areas listed above. Courses must be from different areas and from different subjects from above courses:

- **PHY53-154 Fundamentals of Physics I (DVNS)**

*Public Speaking, College Writing and Creative Writing courses may not count in Exploration & Breadth

**Notes:**

- Minimum of 127 credits:
- Cumulative GPA > 2.0
- GPA > 2.0 for Major and/or Areas of Concentration
- All grades C- or higher in major/minor/core?
- At least 64 credits completed at Southwestern*
- No more than 56 credits of any 5 digit prefix**
- Major credits completed (min 30 required)
- 60% of Major courses completed at Southwestern (24cr)
- Gen Ed has minimum of 30 credits

**Minor (optional):**

- Minimum 18 credits
- Minimum 12 upper level credits
- Minimum of 12 credits taken at Southwestern
- Minimum 2.0 minor courses CGPA

**Other:**
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<td>Degree Audit Completed (Due one year before grad date)</td>
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<td>Grad Application Submitted (Due start of final semester)</td>
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<td>Approved to be part time in last semester?</td>
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