### General Studies Requirements (58-62 sh)

**FIRST-YEAR CORE:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>GST 110 - Global Experience</td>
<td>4</td>
<td>(4 s.h.)</td>
</tr>
<tr>
<td>ENG 110 - College Writing</td>
<td>4</td>
<td>(4 s.h.)</td>
</tr>
<tr>
<td>MTH 112 or 212</td>
<td>4</td>
<td>(4 s.h.)</td>
</tr>
<tr>
<td>HED 111 - Contemporary Wellness</td>
<td>2</td>
<td>(2 s.h.)</td>
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</tbody>
</table>

**Expression** (8 s.h.)

Eight hours chosen from at least two of the following:
- literature (in English or foreign languages), philosophy, & fine arts
- art, art history, dance, fine arts, music, music theatre, & theatre.

At least one course must be literature.

**Civilization** (8 s.h.)

Eight hours chosen from at least two of the following:
- history, foreign languages, and religious studies.

**Society** (8 s.h.)

Eight hours chosen from at least two of the following:
- economics, geography, human services - HSS 111 only, political science
- psychology, & sociology/anthropology.

**Science** *(Lab: ____)* 8 s.h.

Eight hours chosen from one or more of the following:
- mathematics, science, and computer science (CSC designation).
- At least one course must be a physical or biological laboratory science.

**ADVANCED STUDIES** (Must be outside major.)

(8 s.h.)

Eight hours of 300-400 level coursework outside the major field and chosen from areas under Studies in the Arts and Sciences.

**GST Interdisciplinary Seminar** (4 s.h.)

[300-400 level GST course; requires junior/senior status.]

*Required in major; may count in General Studies.

### Major Requirements

A minimum of 64 s.h. in the following courses is required.

- **CS 130 (4)** - Computer Science I
- **CS 230 (4)** - Computer Science II
- **CS 330 (4)** - Computer Science III
- **CS 331 (4)** - Algorithm Analysis
- **CS 335 (4)** - Programming Languages
- **CS 342 (4)** - Computer Systems
- **CS 442 (4)** - Mobile Computing
- **CS 462 (4)** - Software Development/Capstone
- **MTH 206 (4)** - Discrete Structures

Choose one course (4 s.h.) from the following:

- **MTH 221 (4)** - Calculus II
- **MTH 306 (4)** - Applied Matrix Theory

Choose one course (4 s.h.) beyond core math requirement:

- **Probability/Statistics**: If core math requirement was MTH 121 then MTH 112 - General Statistics or a probability and / or statistics course.

-OR-

- **Quantitative Analysis**: If core math requirement was MTH 112 then MTH 121 - Calculus I

Choose three (12 s.h.) courses from the following:

- **CSC 410 (4)** - Artificial Intelligence
- **CSC 415 (4)** - Numerical Analysis
- **CSC 420 (4)** - Game Programming and Computer Graphics
- **CSC 430 (4)** - Advanced Programming Concepts
- **CSC 431 (4)** - High Performance Computing
- **CSC 499 (4)** - Research
- **CSC 300-400 level elective**

Choose 8 s.h. from one of the following 2-course sequence:

- **CHM 111 (4)** - Gen. Chemistry I and Lab
- **CHM 112 (4)** - Gen. Chemistry II and Lab

-OR-

- **PHY 221 (4)** - University Physics I and lab
- **PHY 222 (4)** - University Physics II and lab

-OR-

- **BIO 111 & 113 (4)** - Intro. to Cell Biology and Lab
- **BIO 112 & 114 (4)** - Intro. to Population Biology and Lab

**Major Total (s.h.)**