### General Studies Requirements

(General Studies must total at least 58 s.h.)

**FIRST-YEAR CORE:**

<table>
<thead>
<tr>
<th>Course</th>
<th>(s.h.)</th>
<th>Notes</th>
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</thead>
<tbody>
<tr>
<td>GST 110 - Global Experience</td>
<td>4</td>
<td></td>
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<tr>
<td>ENG 110 - College Writing</td>
<td>4</td>
<td>C- or better required for graduation</td>
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<tr>
<td>MTH 112 or 121 or 212</td>
<td>4</td>
<td>*</td>
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<tr>
<td>HED 111 - Contemp. Wellness Issues</td>
<td>2</td>
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**Experiential Learning Requirement (ELR):** (One Unit)

May be met by any one of the following: internship, practicum, co-op, study abroad, student teaching, approved field-based course or documented service, leadership, or individualized learning experience.

**Foreign Language Requirement:**

May be met by one of the following: scoring 4 or 5 on a language Advanced Placement test, or scoring similarly on the IB Higher Level exam; placing beyond FL 122 on the CAPE placement test; completing a 122-level language course; or completing a semester or summer in a university approved program in a non-English speaking country that includes a course in language instruction at the 122 level or above. Only 4 s.h. of language study utilized to meet the graduation requirement apply to Civilization category. Students are expected to complete this requirement by the end of their sophomore year.

**STUDIES IN THE ARTS AND SCIENCES:**

[Transfer students with at least 18 s.h. of transfer credit must complete 52 hours total in Studies in the Arts & Sciences, but may have as few as 7 hours in one or more of the four Studies in the Arts & Sciences areas.]

**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**

<table>
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<tr>
<th>Lab</th>
<th>(s.h.)</th>
<th>Notes</th>
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<tr>
<td>*CSC 130</td>
<td>8</td>
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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.)

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<th>(s.h.)</th>
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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.

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

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

- MTH 221 (4) – Calculus and Analytic Geometry II
- MTH 306 (4) – Applied Matrix Theory

Select 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 or 212 then MTH 121- Calculus I

Select 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

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

- *CHM 111 & 113 (4) – Gen. Chemistry I and Lab
- CHM 112 & 114 (4) – Gen. Chemistry II and Lab

 OR- *PHY 113 & PHYL 113 (4) – Gen. Physics I w/ Calculus
- PHY 114 & PHYL 114 (4) – Gen. Physics II w/ Calculus

 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.)