

## Associate in Science Degree

# ASSOCIATE IN SCIENCE

Graduates of the Associate in Science (A.S.) program usually transfer to a senior institution and major in such areas as biology, chemistry, marine science, engineering, mathematics or pre-medicine. The degree stresses mathematics, natural, and physical sciences, and is ideal for students who wish to broaden their general knowledge. Students who are currently undecided about their educational or career goals will find transfer courses that apply toward their future major or career choices.

To assist students with their career and education goals, within the Associate in Science degree the College has established career pathways intended for advising purposes. The career pathways include a limited number of courses specific for the career or discipline in which a student wishes to pursue. Students choosing a career pathway within the A.S. degree will graduate HGTC with the Associate in Science degree.

Because transfer requirements vary, students should work with their Academic Advisor and the transfer institution to plan a specific program of study. Visit <http://www.sctrac.org> to view transfer programs at a number of senior institutions.

### CURRICULUM SEQUENCE

#### GENERAL EDUCATION REQUIREMENTS

##### English Composition and Speech

ALL of the following MUST be completed:

|                                  |                        |          |
|----------------------------------|------------------------|----------|
| ENG 101                          | English Composition I  | 3        |
| ENG 102                          | English Composition II | 3        |
| SPC 205                          | Public Speaking        | 3        |
| <b>Total Credit Hours Needed</b> |                        | <b>9</b> |

##### Mathematics

The following course MUST be completed:

|                                  |                 |          |
|----------------------------------|-----------------|----------|
| MAT 110                          | College Algebra | 3        |
| <b>Total Credit Hours Needed</b> |                 | <b>3</b> |

##### Natural Sciences

TWO courses to be chosen from the following courses:

|                                  |         |         |         |          |
|----------------------------------|---------|---------|---------|----------|
| AST 101                          | AST 102 | BIO 101 | BIO 102 | BIO 209  |
| BIO 210****                      | BIO 211 | CHM 110 | CHM 111 | CHM 211  |
| CHM 212                          | PHY 201 | PHY 202 | PHY 221 | PHY 222  |
| <b>Total Credit Hours Needed</b> |         |         |         | <b>8</b> |

##### Humanities/Fine Arts

TWO courses to be chosen from the following courses:

|                                  |         |          |         |          |
|----------------------------------|---------|----------|---------|----------|
| ART 101                          | ART 108 | ENG 201  | ENG 202 | ENG 205  |
| ENG 206                          | ENG 208 | ENG 209  | ENG 230 | ENG 236  |
| HIS 101                          | HIS 102 | HIS 201* | HIS 202 | MUS 105  |
| PHI 101                          | PHI 110 | PHI 201  | PHI 211 | JREL 103 |
| SPA 201                          | SPA 202 | THE 101  |         |          |
| <b>Total Credit Hours Needed</b> |         |          |         | <b>6</b> |

##### Social Behavioral Sciences

TWO courses to be chosen from the following courses:

|                                  |         |         |         |          |
|----------------------------------|---------|---------|---------|----------|
| ANT 101                          | ECO 210 | ECO 211 | GEO 101 | GEO 102  |
| PSC 201*                         | PSC 215 | PSY 201 | PSY 203 | PSY 210  |
| PSY 212                          | SOC 101 | SOC 102 | SOC 205 |          |
| <b>Total Credit Hours Needed</b> |         |         |         | <b>6</b> |

##### MAJOR CONCENTRATION\*\*

To be selected from the following:\*\*

|             |         |         |         |         |
|-------------|---------|---------|---------|---------|
| AST 101     | AST 102 | BIO 101 | BIO 102 | BIO 209 |
| BIO 210**** | BIO 211 | BIO 225 | CHM 110 | CHM 111 |
| CHM 211     | CHM 212 | MAT 111 | MAT 120 | MAT 122 |

(Continued)

|         |         |         |         |         |
|---------|---------|---------|---------|---------|
| MAT 130 | MAT 140 | MAT 141 | PHY 201 | PHY 202 |
| PHY 221 | PHY 222 |         |         |         |

|                                  |           |
|----------------------------------|-----------|
| <b>Total Credit Hours Needed</b> | <b>15</b> |
|----------------------------------|-----------|

**OTHER COURSES \*\***

**Other** courses to be selected from the following:\*\*\*

|          |         |         |         |             |
|----------|---------|---------|---------|-------------|
| ACC 101  | ACC 102 | ANT 101 | ART 101 | ART 108     |
| AST 101  | AST 102 | BIO 101 | BIO 102 | BIO 105     |
| BIO 110  | BIO 112 | BIO 127 | BIO 209 | BIO 210**** |
| BIO 211  | BIO 225 | CHM 105 | CHM 110 | CHM 111     |
| CHM 211  | CHM 212 | CPT 114 | ECO 210 | ECO 211     |
| ENG 160  | ENG 201 | ENG 202 | ENG 205 | ENG 206     |
| ENG 208  | ENG 209 | ENG 230 | ENG 236 | FRE 101     |
| FRE 102  | GEO 101 | GEO 102 | HIS 101 | HIS 102     |
| HIS 201* | HIS 202 | MAT 111 | MAT 120 | MAT 122     |
| MAT 130  | MAT 140 | MAT 141 | MAT 250 | MAT 251     |
| MUS 105  | PHI 101 | PHI 110 | PHI 201 | PHI 211     |
| PHY 118  | PHY 201 | PHY 202 | PHY 221 | PHY 222     |
| PSC 201* | PSC 215 | PSY 201 | PSY 203 | PSY 210     |
| PSY 212  | REL 103 | SOC 101 | SOC 102 | SOC 205     |
| SPA 101  | SPA 102 | SPA 201 | SPA 202 | THE 101     |

|                                  |           |
|----------------------------------|-----------|
| <b>Total Credit Hours Needed</b> | <b>13</b> |
|----------------------------------|-----------|

|                           |           |
|---------------------------|-----------|
| <b>TOTAL CREDIT HOURS</b> | <b>60</b> |
|---------------------------|-----------|

\*Students transferring to a senior institution are recommended to take HIS 201 or PSC 201 at HGTC to satisfy Reach Act requirements. The Reach Act was passed in 2021 by the General Assembly.

\*\*IMPORTANT: Courses used to complete one requirement cannot be the same courses used to satisfy other requirements.

\*\*\*Students may substitute up to 6 hours of elective courses in this category with permission of the Department Chair.

\*\*\*\*BIO 210 grades are used as an admission requirement to multiple health care related programs, therefore students are strongly encouraged to complete a college level lab science or high school biology course prior to enrolling in BIO 210.