

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.

Required Courses

Associate in Science Requirements

DEGREE REQUIREMENTS: ASSOCIATE IN SCIENCE

Component	Course Title	Semester Credit Hours
GENERAL EDUCATION REQUIREMENTS		
Communication	Required Credits	9
<i>Must complete the three courses from the list below:</i>		
ENG 101	English Composition I	3
ENG 102	English Composition II	3
SPC 205	Public Speaking	3
Humanities/Fine Arts	Required Credits	6
<i>Select two courses from the list below:</i>		
ART 101	Art History and Appreciation	3
ART 105	Film as Art	3
ENG 201	American Literature I	3
ENG 202	American Literature II	3
ENG 205	English Literature I	3
ENG 206	English Literature II	3
ENG 208	World Literature I	3
ENG 209	World Literature II	3
ENG 230	Women in Literature	3
ENG 236	African American Literature	3
HIS 101	Western Civilization to 1689	3
HIS 102	Western Civilization Post 1689	3
HIS 201*	American History: Disc to 1877	3
HIS 202	American History: 1877 to Pres.	3
MUS 105	Music Appreciation	3
PHI 101	Introduction to Philosophy	3
PHI 110	Ethics	3
PHI 201	History of Philosophy	3
PHI 211	Moral Philosophy	3

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REL 103	Comparative Religion	3
SPA 201	Intermediate Spanish I	3
SPA 202	Intermediate Spanish II	3
THE 101	Introduction to Theater	3
Social/Behavioral Sciences	Required Credits	6

Select two courses from the list below:

ANT 101	General Anthropology	3
ECO 210	Macroeconomics	3
ECO 211	Microeconomics	3
GEO 101	Introduction to Geography	3
GEO 102	World Geography	3
PSC 201*	American Government	3
PSC 215	State and Local Government	3
PSY 201	General Psychology	3
PSY 203	Human Growth and Development	3
PSY 208	Human Sexuality	3
PSY 210	Educational Psychology	3
PSY 212	Abnormal Psychology	3
SOC 101	Introduction to Sociology	3
SOC 102	Marriage and the Family	3
SOC 205	Social Problems	3

Natural Sciences	Required Credits	8
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Select two courses from the list below:

AST 101	Solar System Astronomy	4
AST 102	Stellar Astronomy	4
BIO 101	Biological Science I	4
BIO 102	Biological Science II	4
BIO 209	Principles of Environmental Science	4
BIO 210****	Anatomy and Physiology I	4
BIO 211	Anatomy and Physiology II	4
CHM 110	College Chemistry I	4
CHM 111	College Chemistry II	4
CHM 211	Organic Chemistry I	4
CHM 212	Organic Chemistry II	4
PHY 201	Physics I	4
PHY 202	Physics II	4
PHY 221	University Physics I	4
PHY 222	University Physics II	4

MAJOR CONCENTRATION REQUIREMENTS**	Required Credits	15
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Select additional courses from those listed under the Natural Sciences shown above and/or choose from the additional selection below. Courses taken to fulfill the GENERAL EDUCATION Natural Sciences requirements may not be duplicated nor applied.

BIO 225	Microbiology	4
MAT 111	College Trigonometry	3
MAT 120	Probability and Statistics	3
MAT 122	Finite Mathematics	3

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MAT 130	Elementary Calculus	3
MAT 140	Analytical Geometry and Calculus I	4
MAT 141	Analytical Geometry and Calculus II	4
OTHER HOUR REQUIREMENTS***		
Mathematics**	Required Credits	3
Select one math class listed below:		
MAT 110	College Algebra	3
Remaining Other	Required Credits	13
Hours**/***		
<i>May select any courses not previously taken from any listing above and/or select from the list below to satisfy the 13 credit requirement.</i>		
ACC 101	Accounting Principles I	3
ACC 102	Accounting Principles II	3
BIO 105	Principles of Biology	4
BIO 110	General Anatomy and Physiology	3
BIO 112	Basic Anatomy and Physiology	4
BIO 127	Principles of Animal Science	3
CHM 105	Gen Organic and Biochemistry	4
CPT 114	Computers and Programming	3
ENG 160	Technical Communications	3
FRE 101	Elementary French I	4
FRE 102	Elementary French II	4
MAT 250	Elementary Mathematics I	3
MAT 251	Elementary Mathematics II	3
MUS 111	Band I	1
MUS 112	Band II	1
PHY 118	Medical Imaging Science	3
SPA 101	Elementary Spanish I	4
SPA 102	Elementary Spanish II	4
TOTAL REQUIRED CREDITS		60

*Students intending to transfer to a senior institution are recommended to take HIS 201 or PSC 201 at HGTC to satisfy the 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 credit hours of elective courses in the Remaining Other Hours requirement with permission of the Department Chair.

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

Note: HGTC maintains a transfer agreement for Veterinary Nursing with Colby Community College. Click here to visit Colby Community College's transfer information page.