

# Science

## Associate of Arts and Sciences Degree

**Program Coordinator:** Julie Little • OTC 104 • 276-739-2516  
**Length:** Four semesters (two years)

**Purpose:** With the emphasis on scientific discoveries and technological development in today's society, there is a strong demand for scientists and scientifically oriented persons in business, government, industry and the professions. The Associate of Arts and Sciences Degree Program with a major in Science is designed primarily for those persons who are interested in a pre-professional or scientific program and who plan to transfer to a four-year college or university to complete a baccalaureate degree program or major in such fields as:

Agriculture	Nursing	Forestry
Mathematics	Pre-Chiropractic	Physics
Biology	Pharmacy	Geology
Pre-Medicine	Pre-Dentistry	Science Education
Chemistry	Physical Therapy	Home Economics

**Admission Requirements:** In addition to the admission requirements established for the college entry into the Associate of Arts and Sciences Degree program with a major in Science recommends the satisfactory completion of the following high school units or equivalent as a minimum: 4 units of English, 3 units of college preparatory mathematics, 1 unit of laboratory science, 1 unit of social studies. Students with deficiencies in reading, writing or math will be required to take developmental studies.

**Program Requirements:** Although the major emphasis in this curriculum is mathematics, the biological sciences, and the physical sciences, the curriculum also includes courses in humanities and social sciences. Electives are provided so that the student can select the appropriate courses for his pre-professional or scientific program as required in the first two years of the four-year college or university. In order to help prepare for upper division (junior class) standing at a four-year institution, the student usually must complete a program at the community college which is comparable in length and courses to the first two years of the program at the four-year institution. Upon satisfactory completion of the four-semester program described, the graduate will be awarded the Associate of Arts and Sciences Degree with a major in Science.

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
<b>First Semester (Fall)</b>				
ENG 111	College Composition I	3	0	3
HIS	History 101, 111 or 121	3	0	3
MTH	MTH 161, 261, 245, or 263	3-4	0	3-4
SCI	Natural Science (BIO, CHM, GOL, PHY)	3	3	4
SDV 101	Orientation to College Success	1	0	1
<b>Total</b>		<b>13-14</b>	<b>3</b>	<b>14-15</b>
<b>Second Semester (Spring)</b>				
ENG 112	College Composition II	3	0	3
HIS	History 102, 112 or 122	3	0	3
MTH	MTH 162, 261, 262, 245, 246, or 264	3-4	0	3-4
SCI	Natural Science (BIO, CHM, GOL, PHY)	3	3	4
<b>Total</b>		<b>12-13</b>	<b>3</b>	<b>13-14</b>

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
<b>Third Semester (Fall)</b>				
ENG	Literature or Humanities Elective	3	0	3
EEE	Social Science Elective	3	0	3
MTH	Mathematics	3	0	3
SCI	Natural Science, Mathematics, or Engineering Transfer Elective (BIO, CHM, EGR, GOL, MTH, PHY)	3	3	4
CST 100	Principles of Public Speaking	3	0	3
<b>Total</b>		<b>15</b>	<b>3</b>	<b>16</b>
<b>Fourth Semester (Spring)</b>				
ENG	Literature or Humanities Elective	3	0	3
EEE	Transfer Elective	3	0	3
ITE or ITP	Information Technology Course	3	0-3	3-4
EEE	Transfer Elective	3	0	3
SCI	Science, Mathematics, or Engineering Transfer Elective (BIO, CHM, EGR, GOL, MTH, PHY)	3	3	4
SCI 299*	Science Supervised Study	1	0	1
<b>Total</b>		<b>16</b>	<b>3-6</b>	<b>17-18</b>
<b>Total Minimum Credits for the AA&amp;S Degree</b>				<b>60</b>

\* Science Supervised Study is the LearningPLUS+ degree capstone course. Students in the science degree will work with their faculty advisor to select from AGR BIO, CHM, EGR, GOL, HRT, MTH, and PHY for their supervised study experience.

Students are urged to follow the [recommended pathway](#) for this degree when making elective selections.

Additional approved humanities and social science electives are listed at <http://www.vhcc.edu/GenEdCore>.

Students are urged to acquaint themselves with the requirements of the major department in the college or university to which transfer is contemplated; and further, to consult with their counselors and advisors at VHCC in planning their academic program and electives.