

Gloucester County College
ARTS AND SCIENCES
Associate in Science (A.S.) – Transfer
Program Requirements

This program is designed for those students who have selected a major field of concentration and yet want more flexibility in course selection. The program is designed to meet transfer requirements for students pursuing a Bachelor of Science degree. It is suggested, however, that students seek advisement in course selection from the institutions to which they intend to transfer.

Students who have completed the program will be able to:

- Demonstrate application of theoretical concepts and fundamental principles utilized in the sciences, including use of the scientific method.
- Conduct background research on scientific topics to make educated conclusions and demonstrate ability to access and assess information including understanding of basic concepts, processes and keywords necessary to explore topics.
- Communicate with others in written and oral form and present scientific information effectively.
- Operate basic laboratory equipment successfully.
- Apply critical thinking and problem solving skills to solving scientific research problems including utilizing statistics and graphical analyses.

Required Core and Elective Courses

<u>Communications</u>	<u>Credits</u>
COM 101 English Composition I	3
COM 102 English Composition II	3
<u>Humanities</u>	
_____ Humanities Elective	3
<u>Social Science</u>	
_____ Social Science Elective	3
_____ Social Science or Humanities Elective	3
 <u>HPE</u> _____ Health and Physical Education Elective	 1-3
<u>Mathematics</u>	
MAT 110 Algebra and Trigonometry	4
MAT 107 Pre-Calculus and Mathematical Analysis	4
MAT 108 Calculus I	4
MAT _____ Mathematics Elective	3-4
<u>Computer Science</u>	
CSC 101 Introduction to Programming	4
CSC 111 Intermediate Programming	4
	or
<u>Science</u>	
_____ Science Elective Pair I (first semester)	4
_____ Science Elective Pair I (second semester)	4
_____ Science Elective Pair II (first semester)	4
_____ Science Elective Pair II (second semester)	4
_____ Science Elective	4
_____ Science Elective	4
<u>General Education</u>	
_____ General Education Elective	3-4
_____ General Education Elective	3-4
<u>TOTAL MINIMUM CREDITS:</u>	65

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Four Semester Sequence of Courses

<u>FIRST YEAR - Fall Semester</u>	<u>Credits</u>
____ COM 101 English Composition I	3
____ CSC 101 Introduction to Programming or	
____ CSC 111 Intermediate Programming	4
____ MAT 110 Algebra and Trigonometry	4
____ _____ Science Elective Pair I (first semester)*	4
____ _____ Social Science Elective	3
	18
 <u>Spring Semester</u>	
____ COM 102 English Composition II	3
____ MAT 107 Pre-Calculus and Mathematical Analysis	4
____ _____ Science Elective Pair I (second semester)*	4
____ _____ Social Science or Humanities Elective	3
____ _____ General Education Elective	3-4
	17-18
 <u>SECOND YEAR - Fall Semester</u>	
____ MAT 108 Calculus I	4
____ _____ Science Elective Pair II (first semester)*	4
____ _____ Science Elective*	4
____ _____ Humanities Elective	3
____ HPE _____ Health and Physical Education Elective	1-3
	16-18
 <u>Spring Semester</u>	
____ MAT _____ Mathematics Elective**	3-4
____ _____ Science Elective Pair II (second semester)*	4
____ _____ Science Elective*	4
____ _____ General Education Elective	3-4
	14-16
<u>TOTAL MINIMUM CREDITS:</u>	65

* These are the Science elective Pairs. Two or three pairs of science electives may be selected from the following:

If you take this course in the first semester you must take this course in the second semester
BIO 101	BIO 102
BIO 105	BIO 106
CHM 111	CHM 112
CHM 201	CHM 202
PHY 103	PHY 104
PHY 201	PHY 202

If **two Science elective pairs** are selected from the table then two additional science courses must be selected from the following:
CHM 111, CHM 201, BIO 101, BIO 103, BIO 104, BIO 105, BIO 106, BIO 107, BIO 112, BIO 113, BIO 209, BIO 215, BIO 221, FSC
201, FSC 202, PHY 103, PHY 105, PHY 111, PHY 112, PHY 201.

** Select one of the following: MAT 103, MAT 113, or MAT 122