

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>		
ENG 101	English Composition I	3
ENG 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
___ ___	Health and Physical Education or Free Elective	1-4
<u>Mathematics</u>		
MAT 110	Algebra and Trigonometry	4
MAT 107	Pre-Calculus and Mathematical Analysis	4
MAT 108	Calculus I	4
<u>Computer Science</u>		
CSC 101 or CSC 111	Introduction to Programming or Intermediate Programming	4
<u>Science</u>		
___ ___	Science Elective Pair I (first semester) ¹	4
___ ___	Science Elective Pair I (second semester) ¹	4
___ ___	Science Elective Pair II (first semester) ¹	4
___ ___	Science Elective Pair II (second semester) ¹	4
___ ___	Science/Mathematics Elective ²	4
___ <u>2</u> ___	200 level Science Elective ³	4
<u>General Education</u>		
	General Education Elective	4
	<u>TOTAL MINIMUM CREDITS:</u>	60

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

If you take this course you must take this course to complete the pair
BIO 101	BIO 102
BIO 105	BIO 106
BIO 112	BIO 212
BIO 115	BIO 216
CHM 111	CHM 112
CHM 201	CHM 202
PHY 103	PHY 104
PHY 201	PHY 202

2. One science courses must be selected from the following: BIO 101, BIO 103, BIO 104, BIO 105, BIO 107, BIO 112, BIO 113, BIO 115, BIO 116, BIO 140, BIO 209, BIO 212, BIO 215, BIO 221, CHM 111, CHM 201, CHM 215, MAT 122, MAT 201, MAT 229, PHY103, PHY 105, PHY 111, PHY 112, PHY 201, SCI 201.

3. In addition to the two science elective pairs and a science elective a **200 level Science Elective course** must be selected from the following:

BIO 209, BIO 215, BIO 216, BIO 221, CHM 201, CHM 202, PHY 201, PHY 202

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Four Semester Sequence of
Courses

FIRST YEAR - Fall Semester

Credits

_____	ENG 101	English Composition I	3
_____	CSC 101	Introduction to Programming	or
_____	CSC 111	Intermediate Programming	
_____	MAT 110	Algebra and Trigonometry	4
_____	_____	Science Elective Pair I (first semester) ¹	4
			15

Spring Semester

_____	ENG 102	English Composition II	3
_____	MAT 107	Pre-Calculus and Mathematical Analysis	4
_____	_____	Science Elective Pair I (second semester) ¹	4
_____	_____	Social Science or Humanities General Education Elective	3
			14

SECOND YEAR - Fall Semester

_____	MAT 108	Calculus I	4
_____	_____	Science Elective Pair II (first semester) ¹	4
_____	_____	Science/Mathematics Elective ²	4
_____	_____	Humanities General Education Elective	3
_____	HPE _____	Health and Physical Education or Free Elective	1-4
			16-19

Spring Semester

_____	_____	Science Elective Pair II (second semester) ¹	4
_____	_____	200 level Science Elective ³	4
_____	_____	General Education Elective	4
_____	_____	Social Science General Education Elective	3
			15

TOTAL MINIMUM CREDITS: 60

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