

ASSOCIATE of SCIENCE (AS) - GENERAL OVERVIEW

This degree would be for any STEM SCIENCE MAJOR and coincide with the subsequent Pathways. The AAOT is preferred for NON-SCIENCE and UNDECLARED students.

Requirement	Credits
Writing 121/121Z	4
Writing 122 or 227/227Z	4
Math 111/111Z - minimum	4
Health/Fitness	0
Communication 111/111Z	4
Arts & Letters 1 course	4
Social Science 4 courses spanning 2 disciplines	16
Lab Science 4 courses spanning 2 disciplines	20
Computer Science/Math/Non-Lab Science 3 courses	12
Electives	22
Degree Total	90

** Courses must be completed with a C or better

Specific Pathways

- [Biological Science \(Pre-professional studies\)](#)
- [Physical Science](#)
- [Earth Science](#)
- [Engineering](#)

Associate of Science - Emphasis: Biological Science/Pre-professional (Pre-Med, Vet, Pharm)

Course	Credits
<i>First Year</i>	
Fall 1 (14 credits)	
CH221 General Chemistry	5
MTH111 or MTH111Z Precalculus I: Functions	4
WR121 or WR121Z English Composition	4
Winter 1 (17 credits)	
CH222 General Chemistry	5
MTH112 or MTH112Z Precalculus II: Trigonometry	4
WR227 or WR227Z Technical Writing	4
Humanities Elective: <i>Recommend PHL102 or PHL103 Ethics or Critical Thinking</i>	4
Spring 1 (17 credits)	
CH223 General Chemistry	5
COM111 or COM111Z Communications	4
Social Science Elective: <i>Recommend HIST203</i>	4
Social Science Elective: <i>Recommend PSY201, PSY202, SOC204, or SOC205</i>	4
<i>Second Year</i>	
Fall 2 (18 credits)	
BI211 General Biology	5
PHY201 or PHY211 Physics	5
Social Science Elective: <i>Recommend PSY201, PSY202, SOC204, or SOC205</i>	4
MTH251 Calculus I	4
Winter 2 (14 credits)	
BI212 General Biology	5
PHY202 or PHY212 Physics	5
MTH252 Calculus II	4
Spring 2 (14 credits)	
BI213 General Biology	5
PHY203 or PHY213 Physics	5
Social Science Elective: <i>Recommend ANTH103 Human Anthropology</i>	4
Total Credits	93

Associate of Science - Emphasis: Physical Science

Course	Credits
<i>First Year</i>	
Fall 1 (14 credits)	
CH221 General Chemistry	5
MTH111 or MTH111Z Precalculus I: Functions	4
WR121 or WR121Z English Composition	4
Winter 1 (17 credits)	
CH222 General Chemistry	5
MTH112 or MTH112Z Precalculus II: Trigonometry	4
WR227or WR227Z Technical Writing	4
Humanities Elective: <i>Recommend PHL102 or PHL103 Ethics or Critical Thinking</i>	4
Spring 1 (17 credits)	
CH223 General Chemistry	5
COM111 or COM111Z Communications	4
Social Science Elective: <i>Recommend HIST203 US History</i>	4
Social Science elective: <i>Recommend PSY201, PSY202, SOC204, or SOC205</i>	4
<i>Second Year</i>	
Fall 2 (17 credits)	
PHY211 Physics	5
MTH251 Calculus I	4
Elective	4
Elective	4
Winter 2 (14 credits)	
PHY212 Physics	5
MTH252 Calculus II	4
Social Science elective: ECON202 Macroeconomics	4
Spring 2 (14 credits)	
PHY213 Physics	5
MTH253 Calculus III	4
Social Science Elective: <i>Recommend ANTH103 Human Anthropology</i>	4
Total Credits	90

Associate of Science - Emphasis: Earth Science

Course	Credit
<i>First Year</i>	
Fall 1 (17 credits)	
CH221 General Chemistry	5
MTH111 or MTH111Z Precalculus I: Functions	4
WR121 or WR121Z English Composition	4
Humanities Elective: <i>Recommend PHL102 or PHL103 Ethics or Critical Thinking</i>	4
Winter 1 (14 credits)	
CH222 General Chemistry	5
MTH112 or MTH112Z Precalculus II: Trigonometry	4
WR227 or WR227Z Technical Writing	4
Spring 1 (17 credits)	
CH223 General Chemistry	5
COM111 or COM111Z Communications	4
Social Science elective: <i>Recommend HIST203 US History</i>	4
Social Science elective: <i>Recommend PSY201, PSY202, SOC204, or SOC205</i>	4
<i>Second Year</i>	
Fall 2 (18 credits)	
G101 Introduction to Geology: Minerals and Rocks	4
PHY201 or PHY211 Physics	5
Social Science elective: <i>Recommend PSY201, PSY202, SOC204, or SOC205</i>	4
MTH251 Calculus I	4
Winter 2 (14 credits)	
G102 Introduction to Geology: Environmental Geology	4
PHY202 or PHY212 Physics	5
MTH252 Calculus II	4
Spring 2 (14 credits)	
G103 Introduction to Geology: Historical Geology	4
PHY203 or PHY213 Physics	5
Social Science elective: <i>Recommend ANTH103 Human Anthropology</i>	4
Total Credits	90

Associate of Science - Emphasis: Engineering

Course	Credit
<i>First Year</i>	
Fall 1 (17 credits)	
CH221 General Chemistry	5
MTH111 or MTH111Z Precalculus I: Functions	4
WR121 or WR121Z English Composition	4
Humanities Elective: <i>Recommend PHL102 or PHL103 Ethics or Critical Thinking</i>	4
Winter 1 (16 credits)	
MTH112 or MTH112Z Precalculus II: Trigonometry	4
WR227or WR227Z Technical Writing	4
CS160 General Introduction to Programming	4
Social Science elective: ECON202 Macroeconomics	4
Spring 1 (16 credits)	
COM111 or COM111Z Communications	4
CS161 Computer Programming	4
Social Science elective: <i>Recommend HIST203 US History</i>	4
MTH243 or STAT243Z Introduction to Probability and Statistics	4
<i>Second Year</i>	
Fall 2 (14 credits)	
PHY211 Physics	5
MTH251 Calculus I	4
Social Science elective: <i>Recommend PSY201, PSY202, SOC204, or SOC205</i>	4
Elective	1
Winter 2 (15 credits)	
BI212 General Biology	5
PHY202 or PHY212 Physics	5
MTH252 Calculus II	4
Elective	1
Spring 2 (14 credits)	
PHY213 Physics	5
MTH253 Calculus III	4
Social Science elective: <i>Recommend ANTH103 Human Anthropology</i>	4
Total Credits	90