

Degree: Associate of Science
Major: Mathematics and Physical Science
Division: Math and Science

Program Code: (029, MPSE.AS)

Minimum Ret/Grad GPA 2.00

Minimum Total Hours 61-63

GENERAL EDUCATION REQUIREMENTS.....37 HOURS

English Composition - 6 hours

1. ENGL-1113 Freshman Composition I
2. ENGL-1213 Freshman Composition II

U.S. History - 3 hours

1. HIST-1483 Am His 1492-1865 or HIST-1493 Am His 1865-Present

U.S. Government - 3 hours

1. POS-1113 American Federal Government

Biological Science - 4 hours

1. BOT-1114 or ZOO-1114

Physical Science - 5 hours

1. CHEM-1115¹

Orientation - 1 hour

1. ORI-1111 Freshman Orientation or ORI-1112 Freshman Orientation

Mathematics - 3 hours

1. MATH-1513 College Algebra (Pre-Calculus)

Humanities - 6 hours

1. HUM-2113, 2223; ART-1113; DRMA-1213; HIST-1113, 1123; MUS-1113; PHIL-1113, 2123; RLED-1113, 1123, 2113; or ENGL literature
2. HUM-2113, 2223; ART-1113; DRMA-1213; HIST-1113, 1123; MUS-1113; PHIL-1113, 2123; RLED-1113, 1123, 2113; or ENGL literature

Computer Proficiency – 3 hours

1. CS-1103 Microcomputer Applications

Approved Electives - 3 hours

1. Elective (PSY, HIST, POS, SOC, ECON, GEOG, SPAN, CHER, CHOC, ART, MUS, DRMA, HUM, PHIL, RLED, SPCH, ENGL literature)

MAJOR REQUIREMENTS.....24-26 HOURS

MAJOR CORE COURSES

Required Courses in Major – 13 hours

1. MATH-1613 Plane Trigonometry
2. MATH-2265 Analytic Geometry and Calculus I
3. MATH-2275 Analytic Geometry and Calculus II

ELECTIVE COURSES .. (Select Option, Select 3 courses)

Mathematics Option – 11-13 hours

1. CHEM-1215 General Chemistry II²
2. PHYS-1114 Gen Physics I
3. PHYS-1214 Gen Physics II

Physical Science Option (Chemistry & Physics) – 11-13 hours

1. CHEM-1215 General Chemistry II²
2. PHYS-1114 Gen Physics I
3. PHYS-1214 Gen Physics II

Notation:

¹ CHEM-1115 has a co-requisite of MATH-1513, or, MATH-1513 may be taken prior to taking CHEM-1115.

² Math Ed majors may need GEOG-2243 Fundamentals of Human Geography, instead of CHEM-1215.

Notes to Advisee:

Sequence: MATH-1513 is prerequisite to MATH-1613 which is prerequisite to MATH-2265 which is prerequisite to MATH-2275.

Fall only courses: MATH-2265, PHYS-1114 || Spring only courses: MATH-2275, PHYS-1214

Semester-by-Semester Degree Plan

Math and Physical Sciences, AS (029, MPSE.AS)

Students are required to complete the following General Education and Major Requirement courses. Students who complete this associate's degree are prepared to transfer and continue their education at a four-year college/university. Students should consult with their academic advisor and refer to the 4-semester-by-semester program planning guide to understand course sequencing.

Course Number – Course Description	Hours
Freshman Year 1st Semester – Fall ☐ ORI-1111 Freshman Orientation or ORI-1112 Freshman Orientation ☐ ENGL-1113 Freshman Composition I ☐ Biological Science - (BOT-1114 or ZOO-1114) ☐ MATH-1513 College Algebra (Pre-Calculus) ☐ CS-1103 Microcomputer Applications ☐ Humanities – (ART, ENGL, HUM, MUS, PHIL, OR RLED)	1 3 4 3 3 3 Total: 17
Freshman Year 2nd Semester – Spring ☐ ENGL-1213 Freshman Composition II ☐ CHEM-1115 General Chemistry I ☐ MATH-1613 Plane Trigonometry ☐ HIST-1483 or 1493 American History ☐ Elective in General Education: PSY-1113 Intro to Psychology (RECOMMENDED)	3 5 3 3 3 Total: 17
Sophomore Year 1st Semester – Fall ☐ MATH-2265 Analytic Geometry and Calculus I ☐ Elective in Major Option: CHEM-1215 General Chemistry II <u>or</u> GEOG-2243 Fund. Of Human Geography ¹ ☐ Elective in Major Option: PHYS-1114 General Physics I	5 3-5 4 Total: 12-14
Sophomore Year 2nd Semester – Spring ☐ POS-1113 American Federal Government ☐ MATH-2275 Analytic Geometry and Calculus II ☐ Elective in Major Option: Physics 1214 General Physics II ☐ Humanities – (ART, ENGL, HUM, MUS, PHIL, OR RLED)	3 5 4 3 Total: 15

Program Requirements: 61-63 cr-hrs, 2.00 GPA

Total Hours: 61-63

¹ Math Ed majors may need GEOG-2243 Fundamentals of Human Geography, instead of CHEM-1215.

How to Use this “Semester-by-Semester Degree Plan”: Courses are listed in the order they should be taken and in what term the course should be taken. Enrollment into developmental courses will add to the total credit hour count, and may alter English, math and science enrollment rotations. Students should use this as a guide in pre-enrollment, study the Course Schedule and then visit with an academic advisor.

Estimated Program Cost: Students can complete this degree in four semesters (15-17 per semester).

The estimated cost of this program is approximated at: *61 credit-hours x \$146.00 per credit hour = \$ 8,906.00* (Please know that this cost does not include textbooks, supplies, developmental coursework, and other expenses, and is designed as an ESTIMATE only).

Actual program cost is based on Fall 2026 in-state tuition amounts and final costs will vary from this estimate.