| Degree: | Associate of Science | o 9 Dro Enginoaring | Program Code: (029, MPSE.AS) |
|---|--|---|--|
| Major: Division: | Mathematics, Physical Science Math and Science | e, & Pre-Engineering | Minimum Ret/Grad GPA 2.00 Minimum Total Hours 61-63 |
| GENERAL E | DUCATION REQUIREMENTS | | 37 HOURS |
| | sition - 6 hours reshman Composition I reshman Composition II | | |
| U.S. History - 3 1. HIST-1483 Ar | hours n His 1492-1865 or HIST-1493 Am His 1865-Pr | | |
| U.S. Governme 1. POS-1113 Am | nt - 3 hours nerican Federal Government | | |
| Biological Scien 1. BOT-1114 or | | | |
| Physical Science 1. CHEM-1115 ² | | | |
| Orientation - 1 1. ORI-1111 Fre | hour shman Orientation or ORI-1112 Freshman Orien | tation | |
| Mathematics - 1. MATH-1513 (| 3 hours College Algebra (Pre-Calculus) | | |
| | hours 1223; ART-1113; DRMA-1213; HIST-1113, 1123; N 1223; ART-1113; DRMA-1213; HIST-1113, 1123; N | | |
| • | iciency – 3 hours rocomputer Applications | | |
| Approved Elect 1. Elective (PSY | ives - 3 hours ', HIST, POS, SOC, ECON, GEOG, SPAN, CHER, CHO | DC, ART, MUS, DRMA, HUM, PHIL, R | LED, SPCH, ENGL literature) |
| MAJOR REC | QUIREMENTS | | 24-26 HOURS |
| 1. MATH-1613 2. MATH-2265 | OURSES ses in Major – 13 hours Plane Trigonometry Analytic Geometry and Calculus I Analytic Geometry and Calculus II | Pre-Engineering Option – 11 1. PHYS-2014 - Engineering Ph 2. PHYS-2114 - Engineering Ph 3. CHEM-1215 General Chemi | nysics I nysics II |
| Mathematics O | | Physical Science Option (Cher 1. CHEM-1215 General Chemi 2. PHYS-1114 Gen Physics I or 3. PHYS-1214 Gen Physics II o | PHYS-2014 Eng Physics I ¹ |

Notation:

 $^{1} Receiving \ institution's \ degree \ plan \ should \ be \ consulted \ to \ see \ which \ Physics \ (General \ or \ Engineering) \ is \ required.$

 $^2 \hbox{CHEM-1115 has a co-requisite of MATH-1513, or, MATH-1513 may} \ be \ taken \ prior \ to \ taking \ CHEM-1115.$

³ 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, PHYS-2014 || Spring only courses: MATH-2275, PHYS-1214, PHYS-2114

Total Hours: 61-63

Semester-by-Semester Degree Plan

Math, Physical Sciences, and Pre-Engineering, 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 1 st Semester – Fall | | | |
| ☐ ORI-1111 Freshman Orientation or ORI-1112 Freshman Orienta | ation | 1 | |
| ☐ ENGL-1113 Freshman Composition I | | 3 | |
| ☐ Biological Science - (BOT-1114 or ZOO-1114) | | 4 | |
| ☐ MATH-1513 College Algebra (Pre-Calculus) | | 3 | |
| ☐ CS-1103 Microcomputer Applications | | 3 | |
| ☐ Humanities – (ART, ENGL, HUM, MUS, PHIL, OR RLED) | | 3 | |
| | Total: | 17 | |
| Freshman Year 2 nd Semester – Spring | | | |
| ☐ ENGL-1213 Freshman Composition II | | 3 | |
| ☐ CHEM-1115 General Chemistry I | | 5 | |
| ☐ MATH-1613 Plane Trigonometry | | 3 | |
| ☐ HIST-1483 or 1493 American History | | 3 | |
| ☐ Elective in General Education: PSY-1113 Intro to Psychology (R | ECOMMENDED) | 3 | |
| , ,,, | Total: | 17 | |
| Sophomore Year 1st Semester – Fall | | | |
| ☐ MATH-2265 Analytic Geometry and Calculus I | | 5 | |
| ☐ Elective in Major Option: CHEM-1215 General Chemistry II or C | GEOG-2243 Fund. Of Human Geography ¹ | 3-5 | |
| ☐ Elective in Major Option: PHYS-1114 General Physics or PHYS-2 | 5 , , | 4 | |
| | Total: | 12-14 | |
| Sophomore Year 2 nd Semester – Spring | | | |
| POS-1113 American Federal Government | | 3 | |
| ☐ MATH-2275 Analytic Geometry and Calculus II | | 5 | |
| ☐ Elective in Major Option: Physics 1214 General Physics II or PH | YS-2114 Engineering Physics II ² | 4 | |
| Humanities – (ART, ENGL, HUM, MUS, PHIL, OR RLED) | | 3 | |
| | Total: | 15 | |

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

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 2024 in-state tuition amounts and final costs will vary from this estimate.

² Receiving institution's degree plan should be consulted to see which Physics (General or Engineering) is required.