

# ASSOCIATE IN SCIENCE

## 028-PHYSICAL SCIENCE (APSO)

**028C-OPTION: CHEMISTRY (APSC)**

**028E-OPTION: ENGINEERING/PHYSICS/MATH (APSE)**

**028G-OPTION: GEOLOGY (APSG)**

The Associate in Science in Physical Science consists of general education curriculum and courses supporting other departmental programs. In support of the mission of the University, the school, and the department, the degree seeks to provide a solid general education component for all University students, provide curriculum in the physical sciences for students who are preparing for a baccalaureate-granting program, and provide programs of study to students presently in the workforce, allowing them the opportunity to continue their education.

### REQUIRED HOURS ..... 66-68

**UNIV 1152 The University Experience ..... 2**

### Communications ..... 9

- ENGL 1113 Composition I
- ENGL 1213 Composition II
- SPCH 1113 Speech Communication

### Social and Behavioral Sciences ..... 9

History ..... 3

*Select from the following:*

- HIST 2483 American History to 1877
- HIST 2493 American History since 1877

POLS 1113 American Federal Government .....3

Social Science ..... 3

*Select from the following:*

- ECON 2113 Principles of Macroeconomics
- ECON 2123 Principles of Microeconomics
- PSY 1113 Introduction to Psychology
- SOC 1113 Introduction to Sociology

### Science and Mathematics .....12

Physical Science ..... 5

*Select from the following:*

- CHEM 1104 Principles of Chemistry
- \* **CHEM 1315 General Chemistry I**
- GEOL 1014 Earth Science
- GEOL 1114 Physical Geology
- GEOL 1124 Physical Geography
- GEOL 1224 Historical Geology
- GEOL 2124 Astronomy
- PHYS 1014 General Physical Science
- PHYS 1114 General Physics I

Biological Science .....4

*Select from the following:*

- BIOL 1114 General Biology
- BIOL 1134 General Environmental Biology
- BIOL 1144 General Cellular Biology

Mathematics ..... 3

*Select from the following:*

- MATH 1413 Introduction to Statistics
- MATH 1503 Mathematics for Critical Thinking
- MATH 1513 College Algebra
- MATH 1613 Trigonometry
- MATH 1715 Pre-Calculus

\***MATH 2264 Analytical Geometry & Calculus I**

### Humanities ..... 6

*Select from the following:*

- ART (HUM) 1113 Art Appreciation
- COMM (HUM) 2413 Theatre Appreciation
- ENGL 2613 Introduction to Literature
- HUM 2113 Humanities I
- HUM 2223 Humanities II
- HUM 2893 Cinema
- MUSC (HUM) 2573 Music Appreciation
- PHIL 1113 Introduction to Philosophy

### Global Studies ..... 3

*Select from the following:*

- BIOL 3103 Plants and Civilization
- ECON 3003 International Economic Issues and Policies
- GEOG 2243 Human Geography
- GERM 1113 Beginning German I
- HIST 2013 World Civilization I
- HIST 2023 World Civilization II
- HUM 3633 Comparative Religion
- LANG 1113 Foundations of World Languages
- MGMT 3033 Conflict Resolution: I'm Always Right!
- NAMS 1143 Native Americans of North America
- NAMS 2503 Cherokee I
- PHIL 1313 Values and Ethics
- POLS 3053 International Relations
- SOC 3213 Minority Groups
- SPAN 1113 Beginning Spanish I

### Elective ..... 3

*Select three additional hours from the courses listed above and not previously selected.*

**\*Required for Engineering/Physics/Math Option (028E) only.**

**Program Core Requirements..... 12-14**

- CHEM 1415 General Chemistry II
- MATH 1613 Trigonometry **OR**
- MATH 2364 Analytical Geometry and Calculus II
- PHYS 1114 General Physics I **OR**
- PHYS 2015 Engineering Physics I

**Chemistry Option**

**Support and Related Courses.....10**

*Select ten credits hours from the following:*

- CHEM 3125 Organic Chemistry I
- CHEM 3225 Organic Chemistry II
- CHEM 3515 Environmental Chemistry

**Engineering/Physics/Math Option**

**Support and Related Courses ..... 10**

*Select ten credit hours from the following:*

- MATH 2364 Analytical Geometry and Calculus II
- MATH 2464 Analytical Geometry and Calculus III
- MATH 2843 Statistics
- MATH 3113 Differential Equations
- PHYS 2115 Engineering Physics II

**Geology Option**

**Support and Related Courses ..... 8**

*Select eight credit hours from the following:*

- GEOL 1014 Earth Science
- GEOL 1114 Physical Geology
- GEOL 1124 Physical Geography
- GEOL 1224 Historical Geology
- GEOL 2124 Astronomy

**Total Credit Hours ..... 64-68**

**Note:** MATH 1513/CHEM 1315 satisfies the computer proficiency requirement for this degree.