

**ASSOCIATE IN SCIENCE**  
**PHYSICAL SCIENCE**  
**OPTION: ENGINEERING/PHYSICS/MATH (028E)**

The Associate in Science in Physical Science with an option in Engineering/Physics/Math is designed to give the student a broad but intense background in engineering, physics, and math.

REQUIRED HOURS ..... 65

**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 ..... 13**

Physical Science ..... 5

*Select from the following:*

**\* 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 ..... 4

*Select from the following:*

- MATH 1503 Mathematics for Critical Thinking
- MATH 1513 College Algebra .....
- MATH 1613 Trigonometry .....
- MATH 1715 Pre-Calculus .....

**\* MATH 2264 Analytical Geometry and 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 3104 Plants and Civilization
- ECON 3003 International Economic Issues and Policies
- GEOG 2243 Human Geography
- HIST 2013 World Civilization I
- HIST 2023 World Civilization II
- HUM 3633 Comparative Religion
- LANG 1113 Foundations of World Languages
- 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 hours from courses not selected above.*

**\*Required**

**Program Requirements ..... 12-13**

- 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

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

*Select five 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

**Total Credit Hours ..... 65**