ASSOCIATE IN SCIENCE

028-PHYSICAL SCIENCE
028C-OPTION: CHEMISTRY (APSC)
028E-OPTION: ENGINEERING/PHYSICS/MATH (APSE)
028G-OPTION: GEOLOGY (APSG)

The Associate in Science in Physical Science consists of a 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 .............................................. 64-66
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 Introduction to Environmental Science
BIOL 1144 General Cellular Biology

Mathematics ......................................................... 3
Select from the following:
MATH 1413 Introduction to Statistics
MATH 1423 Functions and Modeling
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
BIOL 3203 Bioethics
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

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>CHEM 1415</td>
<td>General Chemistry II</td>
</tr>
<tr>
<td>MATH 1613</td>
<td>Trigonometry <strong>OR</strong></td>
</tr>
<tr>
<td>MATH 2364</td>
<td>Analytical Geometry and Calculus II</td>
</tr>
<tr>
<td>PHYS 1114</td>
<td>General Physics <strong>OR</strong></td>
</tr>
<tr>
<td>PHYS 2015</td>
<td>Engineering Physics I</td>
</tr>
</tbody>
</table>

**Chemistry Option**

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

*Select ten credit hours from the following:*

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>CHEM 3125</td>
<td>Organic Chemistry I</td>
</tr>
<tr>
<td>CHEM 3225</td>
<td>Organic Chemistry II</td>
</tr>
<tr>
<td>CHEM 3515</td>
<td>Environmental Chemistry</td>
</tr>
</tbody>
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**Engineering/Physics/Math Option**

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

*Select ten credit hours from the following:*

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>MATH 2364</td>
<td>Analytical Geometry and Calculus II</td>
</tr>
<tr>
<td>MATH 2464</td>
<td>Analytical Geometry and Calculus III</td>
</tr>
<tr>
<td>MATH 2843</td>
<td>Statistics</td>
</tr>
<tr>
<td>MATH 3113</td>
<td>Differential Equations</td>
</tr>
<tr>
<td>PHYS 2115</td>
<td>Engineering Physics II</td>
</tr>
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</table>

**Geology Option**

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

*Select eight credit hours from the following:*

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOL 1014</td>
<td>Earth Science</td>
</tr>
<tr>
<td>GEOL 1114</td>
<td>Physical Geology</td>
</tr>
<tr>
<td>GEOL 1124</td>
<td>Physical Geography</td>
</tr>
<tr>
<td>GEOL 1224</td>
<td>Historical Geology</td>
</tr>
<tr>
<td>GEOL 2124</td>
<td>Astronomy</td>
</tr>
</tbody>
</table>

**Total Credit Hours** ...................................................... 64-66

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