Major in Natural Sciences, Physical Science Concentration

The Physical Science concentration begins with two semesters each of calculus, chemistry, and physics, plus a semester of biological science. Students then complete the major by earning two minors selected from Biochemistry, Chemistry, Computer Science, Geology, Mathematics, Statistics, or Physics. Completion of the double minor gives an unusual breadth in the physical sciences. Recent graduates have pursued careers in the sciences. Others use this background as a basis for graduate work and research or for entry into medical or veterinary professional programs.

Requirements
Effective Fall 2015

View Major Completion Map (http://wsnet.colostate.edu/CWIS608/Home/MajorCompletionMap)

**Freshman**

<table>
<thead>
<tr>
<th>Course</th>
<th>AUCC</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 111</td>
<td>General Chemistry I (GT-SC2)</td>
<td>3A</td>
</tr>
<tr>
<td>CHEM 112</td>
<td>General Chemistry Lab I (GT-SC1)</td>
<td>3A</td>
</tr>
<tr>
<td>CO 150</td>
<td>College Composition (GT-CO2)</td>
<td>1A</td>
</tr>
</tbody>
</table>

Select one pair of courses from the following:

**Group A:**
- MATH 155: Calculus for Biological Scientists I (GT-MA1) 1B
- MATH 255: Calculus for Biological Scientists II (GT-MA1) 1B

**Group B:**
- MATH 160: Calculus for Physical Scientists I (GT-MA1) 1B
- MATH 161: Calculus for Physical Scientists II (GT-MA1) 1B

**Minor**
- 1 |

**Social and Behavioral Sciences**
- 3C | 3 |

**Electives**
- 3 |

**Total Credits**
- 31 |

**Sophomore**

<table>
<thead>
<tr>
<th>Course</th>
<th>AUCC</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 113</td>
<td>General Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 114</td>
<td>General Chemistry Lab II</td>
<td>1</td>
</tr>
<tr>
<td>PH 141</td>
<td>Physics for Scientists and Engineers I (GT-SC1)</td>
<td>3A</td>
</tr>
<tr>
<td>PH 142</td>
<td>Physics for Scientists and Engineers II (GT-SC1)</td>
<td>3A</td>
</tr>
<tr>
<td>STAT 301</td>
<td>Introduction to Statistical Methods</td>
<td>3</td>
</tr>
</tbody>
</table>

**Minor**
- 1 |

**Electives**
- 8 |

**Total Credits**
- 28 |

**Junior**

Select four credits from the following:

**Group A:**
- BZ 104: Basic Concepts of Plant Life (GT-SC2) 3A |
- BZ 105: Basic Concepts of Plant Life Laboratory (GT-SC1) 3A |

**Group B:**
- BZ 110: Principles of Animal Biology (GT-SC2) 3A |
- BZ 111: Animal Biology Laboratory (GT-SC1) 3A |

**Group C:**
- BZ 120: Principles of Plant Biology (GT-SC2) 3A |

**Group D:**
- LIFE 102: Attributes of Living Systems (GT-SC1) 3A |

**Advanced Writing**
- 2 | 3 |

**Arts and Humanities**
- 3B | 3 |

**Global and Cultural Awareness**
- 3E | 3 |

**Historical Perspectives**
- 3D | 3 |

**Minor**
- 1, 2, 3, 4 | 15 |

**Total Credits**
- 31 |

**Senior**

**Arts and Humanities**
- 3B | 3 |

**Building Foundations/Perspectives**
- 3 | 3 |

**Capstone Course**
- 4C | 3 |

**Using Competencies**
- 4A | 3 |

**Minor**
- 1, 2, 3, 4 | 12 |

**Electives**
- 6 |

**Total Credits**
- 30 |

**Program Total Credits:**
- 120 |

1. Declare and complete two minors from the following list: Biochemistry, Chemistry, Computer Science, Geology, Mathematics, Physics, Statistics, Applied Statistics.
2. Complete a 3 credit course satisfying AUCC category 4B that is offered within a major that is the same as one of the minors that will be completed.
3. Complete a 3 credit course satisfying AUCC category 4C that is offered within a major that is the same as one of the minors that will be completed.
4. Complete a 3 credit course satisfying AUCC category 4A that is offered within a major that is the same as one of the minors that will be completed.
5. Select enough elective credits to bring the program total to a minimum of 120 credits, of which at least 42 must be upper-division (300- and 400-level).