PHYSICAL SCIENCES FOR ELEMENTARY SCHOOL TEACHERS

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Minor in Physical Sciences

The minor in physical sciences for elementary teachers provides an introduction to the physical sciences at a nontechnical (nonmathematical) level. The minor is intended for liberal studies majors who also plan to enter a general elementary school teaching credential program. The minor will provide the background and skills to teach some physical sciences in the elementary and middle schools. This minor is not appropriate for students planning to teach science in the secondary schools; they should study physical science at a more technical level, and may choose a minor in astronomy, chemistry, geology, or physics.

Minor Core Requirements

Complete the following 16-17 units; of these, 6 may be applied to general education.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASTR 100</td>
<td>Descriptive Astronomy</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 102</td>
<td>Toxicology, Food and Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 102</td>
<td>Our Dynamic Earth</td>
<td>3</td>
</tr>
<tr>
<td>CS 101</td>
<td>Introduction to Computers and Computing</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 100</td>
<td>Descriptive Physics</td>
<td>3</td>
</tr>
<tr>
<td>ASTR 231</td>
<td>Introductory Observational Astronomy (2) or</td>
<td></td>
</tr>
<tr>
<td>PHYS 102</td>
<td>Descriptive Physics Laboratory (1)</td>
<td></td>
</tr>
</tbody>
</table>

Total units in minor core: 16-17

Minor Electives

Complete 6 units from the following:
ASTR 305 Frontiers in Astronomy (3)
ASTR 350 Cosmology (3)
GEOG 310 Meteorology (3-4)
GEOL 306 Environmental Geology (3)
GEOL 323 Hydrology (3)
PHYS 342 Popular Optics (3)

Total units in the minor electives 6
Total units in the minor, including 6 units in general education 22-23