Introductory SCIENCE Authorization Worksheet

32 units required with grades C, Credit, or better

List all courses in table below taken in Science disciplines:

- Anatomy
- Astronomy
- Biology *
- Chemistry *
- Geology *
- Micro Biology
- Marine Biology
- Oceanography
- Physical Sciences
- Physics *
- Physiology
- Zoology

* A minimum of six semester hours is required in each area of science.

Note: Please include additional courses in related disciplines not listed above.

<table>
<thead>
<tr>
<th>Office Use Only</th>
<th>Course Number &amp; Title</th>
<th>Institution</th>
<th>Units</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>Example: CHEM 3090, Chemistry in the Elementary Classroom</td>
<td>CSU Stan</td>
<td>3</td>
<td>B</td>
<td></td>
</tr>
</tbody>
</table>

A degree directly related to science will qualify an individual for the Introductory Science subject matter authorization. For example, a major in biology, oceanography, physics, chemistry, meteorology or any related science will meet the requirement.

**Biological sciences:** anatomy, bioethics, biology; botany; DNA and RNA structure; ecology; environmental science; evolution; genetics; marine biology; microbiology; physiology; structure and function of cells; and zoology. Kinesiology is not applicable.

**Chemistry:** atomic, molecular, and ionic structures; chemical reactions; properties and processes of elements, compounds, mixtures, inorganic substances; properties of molecules; qualitative and quantitative analysis; and states of matter including models of gases, liquids and solids.

**Geosciences:** astronomy; cosmology; earth science/resources; forestry; fossils; geology; geodynamics; meteorology; mineralogy; oceanography; paleontology; soil science; and weather and climate.

**Physics:** electromagnetic radiation including spectra, visible light and color; fission; fusion and vaporization; gravitation; light and optics; nuclear and atomic physics; principles of mechanics, heat, electricity and magnetism; principles of momentum and energy; quantum theory; thermodynamics; and wave and particle motion.