

Introductory SCIENCE Authorization Worksheet

32 units required with grades C, Credit, or better

Name: _____

Student ID: _____

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 units is required in each area of science.**

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

Office Use Only	Course Number & Title	Institution	Units	Grade
	<i>Example: CHEM 3090, Chemistry in the Elementary Classroom</i>	<i>CSU Stan</i>	<i>3</i>	<i>B</i>
	1.			
	2.			
	3.			
	4.			
	5.			
	6.			
	7.			
	8.			
	9.			
	10.			
	11.			
	12.			
	13.			
	14.			
	15.			
	16.			
	17.			
	18.			
	19.			
	20.			

Introductory Science: •biological sciences •chemistry •geosciences •physics ► a minimum of six semester or eight quarter units is required in each area of science

- 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 and organic substances; properties of molecules; qualitative and quantitative analysis; and state of matter including models of gases, liquids and solids.
- *Geoscience:* 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.

Verified by: _____ Date: _____