

Application for a Secondary Science Endorsement

Name: _____ School/District: _____

Major/Minor: _____ CACTUS #: _____

Science Endorsement(s) to be considered: _____

Home Phone: _____ Work Phone: _____

Mailing Address: _____

E-mail Address: _____

Applicant must have a current Educator License with an Elementary or Secondary area of concentration.

- FOR ENDORSEMENT (MUST COMPLETE ALL REQUIREMENTS) **OR**
 FOR STATE APPROVED ENDORSEMENT PLAN (2 Year) (**must have current license, be currently teaching in the endorsement area and have 9 semester credits toward endorsement.**)

Date Submitted: _____ Date Received: _____

There are seven science endorsements issued to the Secondary Licenses.

1. Biological
2. Earth Science
3. Physical Science
4. Integrated Science
5. Chemistry
6. Physics
7. Environmental Science

Requesting Endorsement or State Approved Endorse Plan (SAEP)

Submit the following:

- Original** transcripts from an accredited university with corresponding coursework highlighted. Transcripts issued to the student **will** be accepted. Copies **will not** be accepted.
 - Completed endorsement form with corresponding coursework in boxes.
 - Processing fees.
- **Endorsement submitted by individual - \$40.00**
Send to: Utah State Office of Education
Attn: Janet Strong
Educator Licensing
250 East 500 South
P. O. Box 144200
Salt Lake City, UT 84114-4200
- **State Approved Endorsement Program (SAEP) (paid by district or charter school) - \$40.00**
Send to: Utah State Office of Education
Attn: Stephanie Ferris
Educator Licensing
250 East 500 South
P. O. Box 144200
Salt Lake City, UT 84114-4200

For more information contact David Smith, Curriculum Coordinator, 801 583-7766 david.smith@schools.utah.gov

SECONDARY SCIENCE ENDORSEMENT

Checklist of Minimum Requirements

COMPLETING THE FORM

Using an original copy of your transcripts, please highlight the corresponding courses and place the course number and institution abbreviation, (if more than one), into each requirement box provided.

For example:

U of U Chem 101

When there is one box, it signifies that one course is required.

When there are two boxes, it signifies that two separate courses are required, not necessarily sequential.

When there are three boxes, it signifies **one year** of **sequential** coursework.

- All 3 boxes need to be filled for courses taken at institutions on quarter systems or for USOE endorsement courses (e.g. Chem. 110, 111, 112 or Physics 1, Physics 2, Physics 3)
- Only 2 boxes need to be filled for courses taken at institutions on semester systems.
- PRAXIS exams – Utah Passing Score (UPS)
PRAXIS score must be at or above UPS to qualify.

PRAXIS exams – Interim Score (IS)

PRAXIS UPS has not yet been determined. PRAXIS score must be at or above national median.

The following outlines the minimum requirements for each endorsement:

BIOLOGICAL SCIENCE

UPS:149	<input type="checkbox"/>	<u>Praxis Exam (Biology: Content Knowledge (0235)</u>
	<input type="checkbox"/>	General Biology OR General Zoology AND General Botany
	<input type="checkbox"/>	Zoology (e.g. Invertebrate, Vertebrate, Entomology)
	<input type="checkbox"/>	Cell Biology or Microbiology
	<input type="checkbox"/>	Human Anatomy and Physiology
	<input type="checkbox"/>	Heredity/Genetics
	<input type="checkbox"/>	Ecology (e.g. Field Ecology, Environmental Studies)
	<input type="checkbox"/>	Chemistry
	<input type="checkbox"/>	Teaching Methods in Science
	<input type="checkbox"/>	Evolution
	<input type="checkbox"/>	Safety Certification

PHYSICAL SCIENCE

IS: 149	<input type="checkbox"/>	<input type="checkbox"/>	<u>Praxis Exam (Physical Science: Content Knowledge (0481))</u>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Principles of Chemistry
		<input type="checkbox"/>	Advanced or Applied Chemistry (e.g. Organic, Physical Chemistry, Biochemistry, etc.)
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	General Physics (including Mechanics, Electricity, Magnetism, heat, Sound, and Light)
		<input type="checkbox"/>	Advanced or Applied Physics (Modern Physics, Upper division Physics)
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Geology/Earth Science (e.g. Ecology, Weather/Meteorology, Astronomy, Earth Systems, Historical, Structural, or Physical Geology)
		<input type="checkbox"/>	Teaching Methods in Science
		<input type="checkbox"/>	Safety Certification

EARTH SCIENCE

UPS: 153	<input type="checkbox"/>	<input type="checkbox"/>	<u>Praxis Exam (Earth and Space Sciences; Content Knowledge (0571))</u>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Geology (e.g. Physical Geology, Surficial Geology/Geomorphology, Historical Geology, Rocks & Minerals/Mineralogy, Plate Tectonics)
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	General Physics (including Mechanics, Electricity, Magnetism, Heat Sound, and Light)
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Principals of Chemistry
		<input type="checkbox"/>	Astronomy
		<input type="checkbox"/>	Ecology (e.g. Ecology, Conservation, Environmental Studies)
		<input type="checkbox"/>	Weather/Meteorology
		<input type="checkbox"/>	Teaching Methods in Science
		<input type="checkbox"/>	Safety Certification

INTEGRATED SCIENCE

IS: 167	<input type="checkbox"/>	<input type="checkbox"/>	<u>Praxis Exam (General Science: Content Knowledge (04351))</u>
		<input type="checkbox"/>	General Biology <u>OR</u> General Botany <u>AND</u> General Zoology
		<input type="checkbox"/>	Ecology (e.g. Ecology, Environmental Studies)
		<input type="checkbox"/>	Heredity/Genetics
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Chemistry
		<input type="checkbox"/>	General Physics
		<input type="checkbox"/>	Astronomy
		<input type="checkbox"/>	Earth Systems Science (e.g. Oceanography, "Earth System," Climatology)
		<input type="checkbox"/>	Geology (e.g. Historical, Structural, Physical Geology, Rocks & Minerals)
		<input type="checkbox"/>	Teaching Methods in Science
		<input type="checkbox"/>	Safety Certification

ENVIRONMENTAL SCIENCE

UPS: 149	<input type="checkbox"/>	<u>Praxis Exam (Biology: Content Knowledge (0235))</u>
	<input type="checkbox"/>	General Biology <u>OR</u> General Zoology <u>AND</u> General Botany
	<input type="checkbox"/>	Zoology (e.g. Invertebrate, Vertebrate, Entomology)
	<input type="checkbox"/>	Botany (e.g. Plant Kingdom, Plant Taxonomy, Plant Physiology)
<input type="checkbox"/>	<input type="checkbox"/>	Ecology (e.g. Ecology, Environmental Chemistry, Environmental Studies)
<input type="checkbox"/>	<input type="checkbox"/>	Principles of Inorganic Chemistry
	<input type="checkbox"/>	Evolutionary Biology
	<input type="checkbox"/>	Earth Systems Science (e.g. Oceanography, "Earth Systems," Climatology)
	<input type="checkbox"/>	Geology (e.g. Historical, Structural, Physical Geology, Rocks & Minerals)
	<input type="checkbox"/>	Statistics
	<input type="checkbox"/>	Teaching Methods in Science
	<input type="checkbox"/>	Safety Certification

CHEMISTRY

UPS: 151	<input type="checkbox"/>	<u>Praxis Exam (Chemistry: Content Knowledge (0245))</u>	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Principles of Chemistry
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Organic Chemistry
	<input type="checkbox"/>		One other course beyond Principles and Organic Chemistry (Biochemistry, Physical Chemistry, Advanced Inorganic, Quantitative Analysis)
	<input type="checkbox"/>		Teaching Methods in Science
	<input type="checkbox"/>		Safety Certification

PHYSICS

UPS: 136	<input type="checkbox"/>	<u>Praxis Exam (Physics: Content Knowledge (0265))</u>	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	General Physics (including Mechanics, Electricity, Magnetism, Heat, Sound, and Light)
	<input type="checkbox"/>	<input type="checkbox"/>	Modern Physics (e.g. Atomic and Molecular Theory, quantum Mechanics, Solid State)
	<input type="checkbox"/>		Math through Introductory Calculus
	<input type="checkbox"/>		Teaching Methods in Science
	<input type="checkbox"/>		Safety Certification

Requirements for Science Core Teaching Assignments

CORE TEACHING ASSIGNMENT		TEACHING REQUIREMENTS
Grade 7	Seventh Grade Integrated Science	Biological Science Endorsement OR Integrated Science Endorsement OR Have a major in one of the following areas: Biological Science OR Physical Science OR Earth Science AND Pass the General Science PRAXIS
Grade 8	Eighth Grade Integrated Science	Earth Science Endorsement OR Physical Science Endorsement OR Integrated Science Endorsement OR Have a major in one of the following areas: Biological Science OR Physical Science OR Earth Science AND Pass the General Science PRAXIS
Grade 9	Earth Systems	Earth Science Endorsement OR Integrated Science Endorsement OR Environmental Science Endorsement
Biological Science	Biology	Biological Science Endorsement
Chemistry	Chemistry – Grades 9-12	Chemistry Endorsement OR Physical Science Endorsement
Physics	Physics Physics with Technology*	Physics Endorsement OR Physical Science Endorsement
Advanced Placement Courses	A.P. Biology A.P. Chemistry A.P. Physics A.P. Environmental Science	Biological Science Endorsement Chemistry Endorsement Physics Endorsement Environmental Science Endorsement