



## Application for the Utah State Board of Education Secondary Science Endorsement

This endorsement is attached to an Educator License with a secondary area of concentration. Candidates with an Educator License who complete the requirements will receive an endorsement allowing them to teach secondary science courses.

Name: \_\_\_\_\_ Cactus ID: \_\_\_\_\_

Science Endorsement(s) to be considered: \_\_\_\_\_

Home Address: \_\_\_\_\_

Home Phone: \_\_\_\_\_ Work Phone: \_\_\_\_\_

E-mail Address: \_\_\_\_\_

District: \_\_\_\_\_ School: \_\_\_\_\_

**FOR ENDORSEMENT**— Must have a current license\* and all requirements must be completed

**FOR STATE APPROVED ENDORSEMENT PLAN (SAEP)** — Must have a current license, be currently teaching in the endorsement area, and have completed 9+ credits of science content course requirements (Teaching Methods in Science does not count as a science content course)

**FOR ARL OR OUT OF STATE LICENSURE APPLICATION**

Date Submitted: \_\_\_\_\_ Date Received: \_\_\_\_\_

*\*Applicant must have a current Educator License with an Elementary (1-8) or Secondary area of concentration*

### State Approved Endorsement Program (SAEP)

1. An approved SAEP for the Science Endorsement allows a licensed secondary teacher to teach science classes while working on the endorsement— however until requirements all are met, they are not considered highly qualified in Science.
2. The applicant generally has two school years to complete all remaining requirements for the endorsement (the first school year of application plus one school year). All SEAPs end on October 1st after this period has ended.
3. The applicant must have a minimum of nine credits toward the science content course requirements completed before applying for the SAEP (Teaching Methods in Science does not count as a science content course).

### Submitting the Application

1. Complete the Endorsement Application. Note that as requirements are entered for one endorsement that the same requirements will autofill for all other endorsements that include the same requirement. Be sure that the science endorsement(s) being selected for consideration with this application are clearly listed above.
2. Attach original documentation
  - **Transcripts:** Original copies of transcripts with courses highlighted is preferred; therefore, original transcripts received in sealed envelopes should be opened by the applicant. Transcripts **MUST** be originals, printed on the college/university transcript paper. Photocopies of transcripts that an applicant may have received will not be accepted.
    - \* Electronic transcripts are only accepted if they are sent directly from the college/university through a transcript clearinghouse to USBE at [transcripts@schools.utah.gov](mailto:transcripts@schools.utah.gov). They **MUST** be requested before the endorsement application is submitted. Electronic transcripts do not require the highlighting of courses.
  - **Other Documentation:** Documentation for Safety Certification must be included in application. Required Praxis Exam Reports must be included only if the exam scores have not been reported to USBE and posted in Cactus record.
3. Send the completed application, original transcripts, and other documentation to:
 

Utah State Board of Education– Endorsements  
250 East 500 South  
P.O. Box 144200  
Salt Lake City, UT 84114-4200

**For more information contact the science education specialist:**

Ricky Scott | [richard.scott@schools.utah.gov](mailto:richard.scott@schools.utah.gov) | (801) 538-7808 | 250 East 500 South, P.O. Box 144200 | Salt Lake City, UT 84114-4200

## Choose a Content Specific Endorsement and Complete the Form

There are seven science endorsements issued to Educator Licenses:

- |                       |                          |                         |
|-----------------------|--------------------------|-------------------------|
| 1. Biological science | 4. Environmental Science | 7. Middle Level Science |
| 2. Earth Science      | 5. Chemistry             |                         |
| 3. Physical Science   | 6. Physics               |                         |

Locate the endorsement(s) being requested and use transcripts to document how all endorsement requirements have been met by filling in the corresponding information. Once all the endorsement boxes have been completed, highlight the courses on the original transcripts to be included with the application.

### Other Requirements

- Each row that represents a course requirement must be posted to a college/university transcript, be worth 3+ credits (unless otherwise stated), and must have been passed with a grade of **C or better** for the course to count towards endorsement requirements (classes with a grade of C- or below do **not** meet endorsement requirements).

The following tables outline the *minimum* requirements for each content specific endorsement:

Content Specific Requirements for an Endorsement in <b>Biological Sciences</b>					
Course Information (Minimum Grade of C Required)	Prefix	Course #	Grade	Year	Institution
<b>Example</b>	<b>BIOL</b>	<b>2010</b>	<b>B</b>	<b>2013</b>	<b>University of Utah</b>
General Biology <b>OR BOTH</b> General Zoology <b>and</b> Botany					
Zoology (Vertebrates, Invertebrates, Mammals, etc.)					
Cell Biology, Microbiology, <b>OR</b> Molecular Biology					
Human Anatomy and/or Physiology					
Heredity and/or Genetics					
Ecology (General Ecology, Stream Ecology, Forest Ecology, etc.)					
General Chemistry					
Evolutionary Biology					
Teaching Methods in Science					
Other Requirements	Date Accomplished				
Praxis Exam: Biology: Content Knowledge (0235/5235) - <i>UPS 149</i>					
Safety Certification (Please check one) <input type="checkbox"/> Listed on Transcript <input type="checkbox"/> Printed Certificate Included <input type="checkbox"/> Documented in MIDAS					

Content Specific Requirements for an Endorsement in <b>Chemistry</b>					
Course Information (Minimum Grade of C Required)	Prefix	Course #	Grade	Year	Institution
<b>Example</b>	<b>CHEM</b>	<b>2310</b>	<b>A-</b>	<b>2013</b>	<b>Utah Valley University</b>
General/Inorganic Chemistry ( <b>Must be sequential courses</b> )					
General/Inorganic Chemistry II ( <b>Must be sequential courses</b> )					
Organic Chemistry					
Advanced or Applied Chemistry (Organic II, Physical, Biol., etc.)					
Advanced or Applied Chemistry (Organic II, Physical, Biol., etc.)					
Chemistry Lab for one course above (1+ Credits)					
Teaching Methods in Science					
Other Requirements	Date Accomplished				
Praxis Exam: Chemistry: Content Knowledge (0245/5245) - <i>UPS 151</i>					
Safety Certification (Please check one) <input type="checkbox"/> Listed on Transcript <input type="checkbox"/> Printed Certificate Included <input type="checkbox"/> Documented in MIDAS					

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**Content Specific Requirements for an Endorsement in Earth Science**

<b>Course Information (Minimum Grade of C Required)</b>	<b>Prefix</b>	<b>Course #</b>	<b>Grade</b>	<b>Year</b>	<b>Institution</b>
<b>Example</b>	<b>GEO</b>	<b>1110</b>	<b>B+</b>	<b>2013</b>	<b>Utah State University</b>
Geology (General, Historical, or Physical Geology, etc.)					
Geology (General, Historical, or Physical Geology, etc.)					
General Physics					
General/Inorganic Chemistry					
Astronomy					
Ecology (General Ecology, Stream Ecology, Forest Ecology, etc.)					
Weather/Meteorology, Climatology, <b>OR</b> Oceanography					
Teaching Methods in Science					
<b>Other Requirements</b>	<b>Date Accomplished</b>				
Praxis Exam: Earth and Space Sciences Content Knowledge (0571/5571) - <i>UPS 153</i>					
Safety Certification (Please check one) <input type="checkbox"/> Listed on Transcript <input type="checkbox"/> Printed Certificate Included <input type="checkbox"/> Documented in MIDAS					

**Content Specific Requirements for an Endorsement in Environmental Science**

<b>Course Information (Minimum Grade of C Required)</b>	<b>Prefix</b>	<b>Course #</b>	<b>Grade</b>	<b>Year</b>	<b>Institution</b>
<b>Example</b>	<b>BIOL</b>	<b>3030</b>	<b>A</b>	<b>2013</b>	<b>Southern Utah University</b>
General Biology					
Zoology (Vertebrates, Invertebrates, Mammals, etc.) <b>OR</b> Botany (Plant Science, Field Botany, etc.)					
Ecology (General Ecology, Stream Ecology, Forest Ecology, etc.)					
General Chemistry					
Evolutionary Biology					
Weather/Meteorology, Climatology <b>OR</b> Oceanography					
Geology (General, Historical, or Physical Geology, etc.)					
Statistics					
Teaching Methods in Science					
<b>Other Requirements</b>	<b>Date Accomplished</b>				
Praxis Exam: Biology Content Knowledge (0235/5235) - <i>UPS 149</i>					
Safety Certification (Please check one) <input type="checkbox"/> Listed on Transcript <input type="checkbox"/> Printed Certificate Included <input type="checkbox"/> Documented in MIDAS					

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**Content Specific Requirements for an Endorsement in Physical Science**

<b>Course Information (Minimum Grade of C Required)</b>	<b>Prefix</b>	<b>Course #</b>	<b>Grade</b>	<b>Year</b>	<b>Institution</b>
<b>Example</b>	<b>PHYS</b>	<b>1040</b>	<b>B+</b>	<b>2013</b>	<b>Dixie State University</b>
General/Inorganic Chemistry I ( <b>Must be sequential courses</b> )					
General/Inorganic Chemistry II ( <b>Must be sequential courses</b> )					
Advanced or Applied Chemistry (Organic, Physical, Biol., etc.)					
General Physics I ( <b>Must be Sequential courses</b> )					
General Physics II ( <b>Must be Sequential courses</b> )					
Advanced or Applied Physics (Modern Physics, Quantum Mechanics, Waves and Optics, Astrophysics, etc.)					
Astronomy					
Weather/Meteorology <b>OR</b> Climatology					
Teaching Methods in Science					
<b>Other Requirements</b>	<b>Date Accomplished</b>				
Praxis Exam: Chemistry Content Knowledge (0245/5245) - <i>UPS 151</i> <b>OR</b> Physics Content Knowledge (0265/5265) - <i>UPS 136</i> <b>*For NCLB Highly Qualified Status BOTH Exams must be taken</b>					
Safety Certification (Please check one) <input type="checkbox"/> Listed on Transcript <input type="checkbox"/> Printed Certificate Included <input type="checkbox"/> Documented in MIDAS					

**Content Specific Requirements for an Endorsement in Physics**

<b>Course Information (Minimum Grade of C Required)</b>	<b>Prefix</b>	<b>Course #</b>	<b>Grade</b>	<b>Year</b>	<b>Institution</b>
<b>Example</b>	<b>PHYS</b>	<b>105</b>	<b>B+</b>	<b>2012</b>	<b>Brigham Young University</b>
General Physics I ( <b>Must be Sequential courses</b> )					
General Physics II ( <b>Must be Sequential courses</b> )					
Advanced and/or Applied Physics (Modern Physics, Quantum Mechanics, Waves and Optics, Astrophysics, etc.)					
Advanced and/or Applied Physics (Modern Physics, Quantum Mechanics, Waves and Optics, Astrophysics, etc.)					
Physics Lab for one course above (1+ credits)					
Math through Introductory Calculus					
Teaching Methods in Science					
<b>Other Requirements</b>	<b>Date Accomplished</b>				
Praxis Exam: Physics Content Knowledge (0265/5265) - <i>UPS 136</i>					
Safety Certification (Please check one) <input type="checkbox"/> Listed on Transcript <input type="checkbox"/> Printed Certificate Included <input type="checkbox"/> Documented in MIDAS					

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To fulfill the requirements for a Middle Level Science endorsement there are two pathways applicants can apply for:

Content Specific Requirements for an Endorsement in <b>Middle Level Science (Pathway 1)</b>					
Course Information (Minimum Grade of C Required)	Prefix	Course #	Grade	Year	Institution
<b>Example</b>	<b>CHEM</b>	<b>4570</b>	<b>B+</b>	<b>2012</b>	<b>Weber State University</b>
Teaching Methods in Science (Met through demonstration of previous science endorsement. <i>Does not require transcript.</i> )					
Other Requirements		Date Accomplished			
Praxis Exam (one of the following): General Science Content Knowledge (0435/5435) - UPS 166 Middle School Science (0440/5440) - UPS 150					
Safety Certification (Please check one) <input type="checkbox"/> Listed on Transcript <input type="checkbox"/> Printed Certificate Included <input type="checkbox"/> Documented in MIDAS					
Completion of a Content Specific Science Endorsement		Please check the endorsement(s) you currently have:			
Biological Science Endorsement		<input type="checkbox"/>			
Chemistry Endorsement		<input type="checkbox"/>			
Earth Science Endorsement		<input type="checkbox"/>			
Environmental Science Endorsement		<input type="checkbox"/>			
Physical Science Endorsement		<input type="checkbox"/>			
Physics Endorsement		<input type="checkbox"/>			

Content Specific Requirements for an Endorsement in <b>Middle Level Science (Pathway 2)</b>					
Course Information (Minimum Grade of C Required)	Prefix	Course #	Grade	Year	Institution
<b>Example</b>	<b>BIOL</b>	<b>202</b>	<b>A</b>	<b>2012</b>	<b>Westminster College</b>
General Biology					
Ecology (General Ecology, Stream Ecology, Forest Ecology, etc.)					
General Chemistry					
General Physics					
Astronomy					
Earth Systems Science <b>OR</b> Weather/Meteorology					
Geology (Historical, Structural, Physical Geology, etc.)					
Teaching Methods in Science					
Other Requirements		Date Accomplished			
Praxis Exam (one of the following): General Science Content Knowledge (0435/5435) - UPS 166 Middle School Science (0440/5440) - UPS 150					
Safety Certification (Please check one) <input type="checkbox"/> Listed on Transcript <input type="checkbox"/> Printed Certificate Included <input type="checkbox"/> Documented in MIDAS					

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# Endorsement Requirements for Foundation Science Course Teaching Assignments

## 7th and 8th Grade Science

The following table outlines the foundation middle school science course assignments and the necessary endorsement for that assignment.

Core Teaching Assignment	Teaching Requirements
7th Grade	Middle Level Science Endorsement
8th Grade	Middle Level Science Endorsement

## High School Science

The following table outlines the foundation high school science course assignments and the necessary endorsements for that assignment.

Core Teaching Assignment	Teaching Requirements
Earth Science	Earth Science Endorsement <b>OR</b> Environmental Science Endorsement
Biology	Biological Science Endorsement
Chemistry	Chemistry Endorsement <b>OR</b> Physical Science Endorsement
Physics	Physics Endorsement <b>OR</b> Physical Science Endorsement
AP Biology	Biological Science Endorsement
AP Chemistry	Chemistry Endorsement
AP Physics	Physics Endorsement
AP Environmental Science	Environmental Science Endorsement

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