

# SECONDARY SCIENCE ENDORSEMENT APPLICATION - CHEMISTRY PATHWAY

Application for the Utah State Board of Education

#### APPLICANT INFORMATION

Name: _	CACTUS	ID#:
E-mail:		
L-111a11		

#### **PURPOSE**

This application allows an educator to apply for the Chemistry Pathway Secondary Science Endorsements which includes the Science Core, Chemistry 1, and the Chemistry 2 endorsements. This application can be used to apply for one, two, or all three endorsements

#### **Science Core Endorsement**

This endorsement, when attached to a current Educator License, verifies that the individual has the skills and knowledge necessary to teach students three-dimensionally in a secondary science classroom and is required to teach Middle School Science Courses in Grades 6, 7, or 8. Additionally, this endorsement is required as a prerequisite to earn any high school Level-1 or Level-2 content specific science endorsement.

## **Chemistry 1 Endorsement**

This endorsement, when attached to a current Secondary Education License, verifies that the individual has the skills and knowledge necessary to teach students in a secondary physical chemistry science classroom and is required to teach High School (9-12) General Chemistry Courses. This endorsement is required as a prerequisite to earn Secondary Chemistry 2 which is required for Advanced Chemistry (AP, CE, and IB) courses.

## **Chemistry 2 Endorsement**

This endorsement, when attached to a current Secondary Education License, verifies that the individual has the skills and knowledge necessary to teach students in an advanced secondary physical chemistry science classroom and is required to teach Advanced Chemistry (AP, CE, and IB) and high school chemistry elective courses. Those with this endorsement can also teach all the courses a Chemistry 1 endorsed

educator can teach. NOTE: Advanced Chemistry (AP, CE, and IB) courses may also include additional requirements in order to be approved by the university or college board to teach.

#### **ENDORSEMENT LEVEL**

Professional endorsements will be awarded when all the requirement areas for that endorsement are met, including the prerequisite professional endorsements requirement areas. An associate endorsement will be awarded if one of the following options are completed for that endorsement as outlined below:

- Science Core
  - Complete at least 3 of the 7 requirement areas.
- Chemistry 1 Endorsement
  - Holds Professional Science Core endorsement
  - Major/Minor in Chemistry
  - Completed at least 5 of the 11 requirement areas
- Chemistry 2
  - Holds Professional Chemistry 1 Endorsement
  - Major in Chemistry
  - Completed at least 6 of the 13 requirement areas.

### **PRELIMINARY QUESTIONS**

**Endorsements Applying For:** Which endorsements and endorsement level are you applying for? (Select all that apply)

- Associate Science Core
- Professional Science Core
- Associate Chemistry 1
- Professional Chemistry 1
- Associate Chemistry 2
- Professional Chemistry 2

**Science Core Endorsement:** A professional Science Core Endorsement meets requirement areas 1-7 of the Chemistry Endorsement Pathway. Do you have a Professional Science Core Endorsement?

<ul><li>Yes, year completed</li></ul>	
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No

Endorsement r	neets requirement area 5 of the Chemistry Endorsement Pathway.  Professional Elementary Science Endorsement?
• Yes, Year	Completed
• No.	
requirement ar	ndorsement: A professional Chemistry 1 Endorsement meets reas 8-11 of the Chemistry Endorsement Pathway. Do you have a nemistry 1 Endorsement?
• Yes, Yea	Completed
• No.	
(5442) with a so	<b>Praxis Exam:</b> Did you pass the Middle School Science Praxis exam core of 152 or higher? Note: Praxis exam IS NOT required, but is one strate competency for requirement areas 1-4.
• Yes Sco	ore: Year Taken:
• I passed	an equivalent exam. Test Name:
NES Test with a	S NES Test: Did you pass the Middle Grades General Science (205) a score of 220 or higher? Note: NES exam IS NOT required, but is one strate competency for requirement areas 1-4.
• Yes Sco	ore: Year Taken:
score of 140 or	<b>Exam:</b> Did you pass the Chemistry Praxis exam (5246) with a higher? Note: Praxis exam IS NOT required, but is one way to empetency for requirement areas 8-11.
• Yes Sco	ore: Year Taken:
<ul><li>I passed</li></ul>	an equivalent exam. Test Name:

or higher?		n IS NOT required, bu	ry (321) NES Test with a score of 220 at is one way to demonstrate
• Yes	Score:	_ Year Taken:	
Chemistry Biochemist	Education, Phys ry, Geochemist	sical Science Educatior ry, Physical Chemistry	emajor or minor in Chemistry, n, or a Chemistry Variation (e.g., y)? A degree major/minor IS NOT tency for several requirement areas.
• Yes	University:		Major or minor?
Maj	or/minor name	· ·	Year:
Chemistry Learning (i. least 2 year Experience demonstra	or IB Chemistry e. AP Chemistry rs of teaching the and Profession te competency	for 3 years and atten y Summer Institute or ne course after the pro nal Learning is NOT re- for requirement areas	
Insti	tute		d attended 1 Chemistry Summer l attended 1 IB Chemistry Workshop
Cour	rse name:		
		ation of completion)	Dates:

## **ENDORSEMENT REQUIREMENT AREAS**

Use the checkboxes below to indicate how each requirement area in the Chemistry Endorsement Pathway has been met. Only one demonstration of competency is needed per requirement area. For more information about the requirement areas, please see the <u>Science Core Endorsement Specs</u> for requirement areas 1-7, the <u>Chemistry 1 Endorsement Specs</u> for requirement areas 8-11 and the <u>Secondary Chemistry 2 Endorsement Specs</u> for requirement areas 12 and 13.

## **Science Core Requirement Areas**

	<ul> <li>Professional Science Core Endorsement</li> <li>University Course in General Earth Science, Astronomy, Geology, or Meteorology</li> </ul>			
	University:	Course code:		
	<ul> <li>Course name:</li></ul>	am Passed	Grade:	
2.	Life Science Content Knowledge			
	<ul><li>Professional Science Core Endo</li><li>University Course in General Bio</li></ul>			
	University:	Course code:		
	<ul> <li>Course name:</li></ul>	am Passed	Grade:	
3.	<ul> <li>Chemistry Content Knowledge</li> <li>Professional Science Core Endo</li> <li>University Course in General Ch</li> </ul>			
	University:	Course code:		
	Course name:  • Middle School Science Praxis Ex		Grade:	

Middle Grades General Science NES Test Passed

## 4. Physics Content Knowledge

- Professional Science Core Endorsement
- University Course in General Physics

		University:	Course code:	
	•	Course name: Middle School Science Praxis Exam Pas Middle Grades General Science NES Te	ssed	Grade:
5.	•	ree-Dimensional Science & Engineeri Professional Science Core Endorsemer University Course in Three-Dimensiona University:	nt al Science and Engineeri	ng Pedagogy
	•	Course name:	e Endorsement	
		Course name:		
6.	•	ence Education Teaching & Disposition Professional Science Core Endorsemen University Course in Teaching Methods	it s in Science	
	•	University:  Course name:  Microcredential Stack - <u>Science Teachir</u> (*Must include MIDAS Transcript)	_ Semester/Year:	

## 7. Science Classroom Lab Safety Knowledge

- Professional Science Core Endorsement
- University Course in Classroom Lab Safety

	University: Course code:		
		Semester/Year:	
	<ul> <li>Flinn Safety Certificate, District approved Safety Course, USBE Approved Safety Course</li> </ul>		
	Course name:		Year:
		nscript or other Documentation of	
	Chemis	stry 1 Requirement Areas	
8.	<ul> <li>Atoms, Bonds, &amp; Reactions</li> <li>Professional Chemistry 1</li> <li>University Course in Prince</li> </ul>	Endorsement	
	University:	Course code:	
	Course name:	Semester/Year:	Grade:
		Chemistry, Chemistry Education, Plants Variation essed	
9.	<ul><li>Professional Chemistry 1</li><li>University Course in Prince</li></ul>	iples of Chemistry 2	-
	University:	Course code:	
	Course name:	Semester/Year:	Grade:
	College Major or Minor in	Chemistry, Chemistry Education, P	hysical Science

• Chemistry Praxis Exam Passed

Education, or a Chemistry Variation

• Chemistry NES Test Passed

## **10. Chemistry Laboratory Content Knowledge**

- Professional Chemistry 1 Endorsement
- University Course in Chemistry Lab

	University:	Course code:	
•	Course name:College Major or Minor in Chemistry, C	<del></del>	
	Education, or a Chemistry Variation Chemistry Praxis Exam Passed Chemistry NES Test Passed		
•	tegration with Life & Earth Science Control Professional Chemistry 1 Endorsement University Course in one of the followiful one of Chemistry of Geochemistry Physical Chemistry	t	s:
	University:	Course code:	
•	Course name:College Major or Minor in Chemistry, C Education, or a Chemistry Variation Chemistry Praxis Exam Passed Chemistry NES Test Passed	_ Semester/Year: Themistry Education, Phy	Grade: sical Science
	Chemistry 2 Requi	rement Areas	
	dvanced Quantitative Chemistry Lab University Course in Analytical Chemis	_	
	University:	Course code:	
	Course name:	_ Semester/Year:	Grade:

- College Major in Chemistry, Chemistry Education, or a Chemistry Variation
- Teaching Experience with AP/IP Chemistry and Professional Learning

#### **13. Advanced Chemistry Content Knowledge**

- Two University Courses in any two of the following Advanced/Applied Chemistry course options (In addition to the Integration with Life and Earth Science Course used to earn the Secondary Chemistry 1 Endorsement):
  - Biochemistry I and/or II
  - o Geochemistry I and/or II
  - o Organic Chemistry I and/or II
  - Physical Chemistry I and/or II
  - Other Upper Division (3000+) chemistry course

University:	Course code:	
Course name:	Semester/Year:	Grade:
University:	Course code:	
Course name:	Semester/Year:	Grade:
- 11	- 1 1	

- College Major in Chemistry, Chemistry Education, or a Chemistry Variation
- Teaching Experience with AP/IP Chemistry and Professional Learning

#### **APPLICANT'S CERTIFICATIONS**

- I certify that the information contained in this application is true.
- \*I have submitted any required documentation such as original transcripts, MIDAS transcripts, etc.
- I have sent electronic transcripts directly from the College/University clearinghouse to the USBE Licensing Department at <a href="mailto:transcripts@schools.utah.gov">transcripts@schools.utah.gov</a>.

#### APPLICATION SUBMISSION

Please submit application online in the Utah Educator Licensing Application system, <u>Survey Monkey Apply</u> (https://usbelicensing.smapply.us)