

# SECONDARY SCIENCE ENDORSEMENT APPLICATION - BIOLOGY PATHWAY

Application for the Utah State Board of Education

#### APPLICANT INFORMATION

Name:	CACTUS ID#:
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E-mail:	

#### **PURPOSE**

This application allows an educator to apply for the Biology Pathway Secondary Science Endorsements which includes the Science Core, Biology 1, and the Biology 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.

## **Biology 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 life science classroom and is required to teach High School (9-12) General Biology Courses (Including Honors) and the High School Botany, Genetics, Zoology, and Marine Biology Elective Courses. This endorsement is required as a prerequisite to earn Secondary Biology 2 which is required for Advanced Biology (AP, CE, and IB) and other high school life science elective courses.

## **Biology 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 life science classroom and is required to teach Advanced Biology (AP, CE, and IB) and some high school life science elective courses. Those with

this endorsement can also teach all the courses a Biology 1 endorsed educator can teach. NOTE: Advanced biology (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.
- Biology 1 Endorsement
  - Holds Professional Science Core endorsement
  - Major/Minor in Biology
  - Completed at least 5 of the 12 requirement areas
- Biology 2
  - Holds Professional Biology 1 Endorsement
  - Major in Biology
  - Completed at least 6 of the 14 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 Biology 1
- Professional Biology 1
- Associate Biology 2
- Professional Biology 2

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

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

Endorsement meets requirement area 5 of the Biology Endorsement Pathway. Do you have a Professional Elementary Science Endorsement?
Yes, Year Completed
• No.
<b>Biology 1 Endorsement:</b> A professional Biology 1 Endorsement meets requirement areas 8-12 of the Biology Endorsement Pathway. Do you have a Professional Biology 1 Endorsement?
Yes, Year Completed
• No.
Middle School Praxis Exam: Did you pass the Middle School Science Praxis exam (5442) with a score of 152 or higher? Note: Praxis exam IS NOT required, but is one way to demonstrate competency for requirement areas 1-4.  • No
Yes Score: Year Taken:
I passed an equivalent exam. Test Name:
Middle Grades NES Test: Did you pass the Middle Grades General Science (205)  NES Test with a score of 220 or higher? Note: NES exam IS NOT required, but is one way to demonstrate competency for requirement areas 1-4.  • No
Yes Score: Year Taken:
Biology Praxis Exam: Did you pass the Biology Praxis exam (5236) with a score of 148 or higher? Note: Praxis exam IS NOT required, but is one way to demonstrate competency for requirement areas 8-12.  ■ No
Yes Score: Year Taken:
I passed an equivalent exam. Test Name:

higher? Note: NES	•	ogy (316) NES Test with a score of 220 or d, but is one way to demonstrate
• Yes Score	Year Taken: _	
Education, or a Bio Physiology, Genet	ology Variation (e.g., Mics, Evolutionary Biolog	degree major or minor in Biology, Biology icrobiology, Ecology, Wildlife Biology, gy)? Note: A degree major/minor IS NOT competency for several requirement areas.
Yes. University	sity:	Major or minor?
Major/mind	or name:	Year:
Biology or IB Biologic.e. AP Biology Surteaching the course Professional Learn for requirement a	gy for 3 years and atte mmer Institute or IB DI se after the profession ning is NOT required bu	<b>Learning:</b> Have you taught either AP ended the associated Professional Learning P Biology Workshop) with at least 2 years of al learning? Note: Teaching Experience and ut is one way to demonstrate competency
_		s and attended 1 Biology Summer Institute and attended 1 IB Biology Workshop
Course nam	ne:	
Location:		Dates:
(*Attach do	cumentation of comple	etion)

## **ENDORSEMENT REQUIREMENT AREAS**

Use the checkboxes below to indicate how each requirement area in the Biology 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 Science Core Endorsement Specs for requirement areas 1-7, the Biology 1 Endorsement Specs for requirement areas 8-12 and the Biology 2 **Endorsement Specs** for requirement areas 13 and 14.

#### **Science Core Requirement Areas**

Ι.	Ed	rth Science Content knowledge
	•	Professional Science Core Endorser
	•	University Course in General Earth
		Matagrafagu

	<ul><li>Professional Science Core End</li><li>University Course in General E Meteorology</li></ul>		ogy, or
	University:	Course code:	
	<ul> <li>Course name:</li></ul>		Grade:
2.	<ul> <li>Life Science Content Knowledge</li> <li>Professional Science Core End</li> <li>University Course in General B</li> </ul>	orsement	
	University:	Course code:	
	<ul> <li>Course name:</li></ul>		Grade:
3.	Chemistry Content Knowledge		
	<ul><li>Professional Science Core End</li><li>University Course in General C</li></ul>		
	University:	Course code:	
	Course name:  • Middle School Science Praxis F	Semester/Year:	

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:	Semester/Year:	Grade:
	<ul> <li>Middle School Science Praxis</li> </ul>		
	Middle Grades General Science	ce NES Test Passed	
5.	Three-Dimensional Science & E		vledge
	<ul><li>Professional Science Core Enc</li><li>University Course in Three-Dir</li></ul>		ring Pedagogy
	University:	Course code:	
		Semester/Year:	Grade:
	Have a Professional Elementa	•	
		-Dimensional Science and Engir	neering
	(*Must include MIDAS Transcr	•	
	Approved USBE or District Cor	urse	
	Course name:		Year:
	(*Must include MIDAS Transcr	ript or other Documentation of	Completion)
6.	Science Education Teaching & I	Dispositions Knowledge	
	<ul> <li>Professional Science Core End</li> </ul>	dorsement	
	<ul> <li>University Course in Teaching</li> </ul>	Methods in Science	
	University:	Course code:	
		Semester/Year:	Grade:
	Microcredential Stack - <u>Science</u>		
	(*Must include MIDAS Transcr	ript)	

## 7. Science Classroom Lab Safety Knowledge

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

University:	Course code:	
	Semester/Year: District approved Safety Course, USBE	
	anscript or other Documentation of	
Biolo	ogy 1 Requirement Areas	
<ul><li>Biological Molecules Conte</li><li>Professional Biology 1 Er</li><li>University Course in Molecules</li></ul>	ndorsement	
University:	Course code:	
	Semester/Year: n Biology, Biology Education, or a Bio sed	
<ul><li>Organisms Content Knowl</li><li>Professional Biology 1 Er</li><li>University Course in Gen</li></ul>	_	
University:	Course code:	
Course name:	Semester/Year:	Grade:

- College Major or Minor in Biology, Biology Education, or a Biology Variation
- Biology Praxis Exam Passed
- Biology NES Test Passed

8.

9.

## 10. Ecosystems Content Knowledge

- Professional Biology 1 Endorsement
- University Course in Ecology

	University:	Course code:			
	Course name:	Semester/Year:	Grade:		
•	College Major or Minor in Biology, Bi Biology Praxis Exam Passed Biology NES Test Passed				
11.H	eredity Content Knowledge				
	Professional Biology 1 Endorsement				
•	University Course in Genetics				
	University:	Course code:			
	Course name:	Semester/Year:	Grade:		
•	College Major or Minor in Biology, Bi				
•	Biology Praxis Exam Passed				
•	Biology NES Test Passed				
12.Bi	ological Evolution Content Knowled	lge			
	Professional Biology 1 Endorsement	•			
•	University Course in Evolutionary Biology				
	University:	Course code:			
	Course name:	Semester/Year:	Grade:		
•	College Major or Minor in Biology, Bi				
•	Biology Praxis Exam Passed				
•	Biology NES Test Passed				
	Biology 2 Requi	rement Areas			
12 14	dyancod Data Analysis Contont Kno	wlodgo			
•	dvanced Data Analysis Content Kno University Course in General or Appl	_			
	University:	Course code:			
	Course name:	Semester/Year:	Grade:		
•	College Major in Biology, Biology Edu	<b>.</b>			
•	Teaching Experience with AP/IP Biolo	ogy and Professional Lea	rning		

#### 14. Advanced Life Science Content Knowledge

- Two University Courses in any two of the following Advanced/Applied Life Science course options (In addition to the life science courses used to earn the Secondary Biology 1 Endorsement). At least one must include an extra 1.0 Credit lab experience:
  - Cell Biology Or Microbiology
  - Anatomy and/or Physiology
  - Biotechnology
  - Wildlife Biology OR an advanced course focused on Zoology/Botany
  - Other upper division (3000+) biology course

University:	Course code:	
Course name:	Semester/Year:	Grade:
University:	Course code:	
Course name:	Semester/Year:	Grade:
College Major in Biology, Biology Educ	cation, or a Biology Varia	ntion

- College Major in Biology, Biology Education, or a Biology Variation
- Teaching Experience with AP/IP Biology 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 transcripts@schools.utah.gov.

#### APPLICATION SUBMISSION

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