



Central Washington University

Degree Program Student Learning Outcome Assessment Plan

Department: Chemistry/Science Education

Program: BA-Chemistry Teaching

Student Learning Outcome (performance, knowledge, attitudes)	Related CWU Strategic Outcome(s) http://www.cwu.edu/sstrategic-planning/	Method(s) of Assessment (What is the assessment?)*	Who Assessed (Students from what courses - population)**	When Assessed (term, dates)***	Standard of Mastery/ Criterion of Achievement (How good does performance have to be?)
1. Demonstrate an ability to individually and collaboratively engage in inquiry and integrate the nature of science.	1.1.1 Students will achieve programmatic learning outcomes.	<ul style="list-style-type: none"> • Science Program major/minor teaching portfolio, WEST-E content assessment, entry to and exit from program survey • Practicum field observation • edTPA 	All Biology, Chemistry, Earth Science, and Physics Teaching major and minor students	<ul style="list-style-type: none"> • End of major/minor program, prior to student teaching • SCED 324 • Student teaching 	<ul style="list-style-type: none"> • Minimum requirement is proficiency for this outcome. Student must provide suitable evidence and reflect on performance relative to associated NSES, NSTA, and WA Comp standards. • SCED 324 portfolio performance benchmark proficiency • All standards met for edTPA
2. Explain and apply fundamental science content concepts, principles, and methods.	1.1.1 Students will achieve programmatic learning outcomes.	<ul style="list-style-type: none"> • Science Program major/minor teaching portfolio, WEST-E content assessment, entry to and exit from program survey • Practicum field observation • edTPA • Major Field Test - 	All Biology, Chemistry, Earth Science, and Physics Teaching major and minor students	<ul style="list-style-type: none"> • End of major/minor program, prior to student teaching • SCED 324 • Student teaching 	<ul style="list-style-type: none"> • Minimum requirement is proficiency for this outcome. Student must provide suitable evidence and reflect on performance relative to associated NSES, NSTA, and WA Comp standards. • SCED 324 portfolio performance benchmark proficiency • All standards met for edTPA

Student Learning Outcome (performance, knowledge, attitudes)	Related CWU Strategic Outcome(s) http://www.cwu.edu/strategic-planning/	Method(s) of Assessment (What is the assessment?)*	Who Assessed (Students from what courses - population)**	When Assessed (term, dates)***	Standard of Mastery/ Criterion of Achievement (How good does performance have to be?)
		Biology			
3. Demonstrate an ability to effectively facilitate learning for all students.	1.1.1 Students will achieve programmatic learning outcomes.	<ul style="list-style-type: none"> • Science Program major/minor teaching portfolio, entry to and exit from program survey • Practicum field observation • edTPA 	All Biology, Chemistry, Earth Science, and Physics Teaching major and minor students	<ul style="list-style-type: none"> • End of major/minor program, prior to student teaching • SCED 324 • Student teaching 	<ul style="list-style-type: none"> • Minimum requirement is proficiency for this outcome. Student must provide suitable evidence and reflect on performance relative to associated NSES, NSTA, and WA Comp standards. • SCED 324 portfolio performance benchmark proficiency • edTPA
4. Create safe, effective learning environments that support inquiry, collaboration, intellectual risk-taking, ethical decision-making, and student construction of knowledge.	1.1.1 Students will achieve programmatic learning outcomes.	<ul style="list-style-type: none"> • Science Program major/minor teaching portfolio, WEST-E content assessment, entry to and exit from program survey • Practicum field observation • edTPA 	All Biology, Chemistry, Earth Science, and Physics Teaching major and minor students	<ul style="list-style-type: none"> • End of major/minor program, prior to student teaching • SCED 324 • Student teaching 	<ul style="list-style-type: none"> • Minimum requirement is proficiency for this outcome. Student must provide suitable evidence and reflect on performance relative to associated NSES, NSTA, and WA Comp standards. • SCED 324 portfolio performance benchmark proficiency • All standards met for edTPA
5. Demonstrate an ability to assess teaching and learning outcomes using multiple methods, effectively evaluate teaching and learning effectiveness, and improve practice based on reflection and data.	1.1.1 Students will achieve programmatic learning outcomes.	<ul style="list-style-type: none"> • Science Program major/minor teaching portfolio, entry to and exit from program survey • Practicum field observation 	All Biology, Chemistry, Earth Science, and Physics Teaching major and minor students	<ul style="list-style-type: none"> • End of major/minor program, prior to student teaching • SCED 324 • Student 	<ul style="list-style-type: none"> • Minimum requirement is proficiency for this outcome. Student must provide suitable evidence and reflect on performance relative to associated NSES, NSTA, and WA Comp standards. • SCED 324 portfolio performance benchmark proficiency

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		<ul style="list-style-type: none"> edTPA 		teaching	<ul style="list-style-type: none"> All standards met for edTPA
6. Demonstrate an ability to make science personally and socially relevant to individual and community by incorporating current events within collaborative and social networks.	1.1.1 Students will achieve programmatic learning outcomes.	<ul style="list-style-type: none"> Science Program major/minor teaching portfolio, entry to and exit from program survey Practicum field observation edTPA 	All Biology, Chemistry, Earth Science, and Physics Teaching major and minor students	<ul style="list-style-type: none"> End of major/minor program, prior to student teaching SCED 324 Student teaching 	<ul style="list-style-type: none"> Minimum requirement is proficiency for this outcome. Student must provide suitable evidence and reflect on performance relative to associated NSES, NSTA, and WA Comp standards. SCED 324 portfolio performance benchmark proficiency All standards met for edTPA
7. Participate in a variety of activities that enhance professional development and improve teaching effectiveness.	1.1.1 Students will achieve programmatic learning outcomes.	<ul style="list-style-type: none"> Science Program major/minor teaching portfolio, entry to and exit from program survey Practicum field observation edTPA 	All Biology, Chemistry, Earth Science, and Physics Teaching major and minor students	<ul style="list-style-type: none"> End of major/minor program, prior to student teaching SCED 324 Student teaching 	<ul style="list-style-type: none"> Minimum requirement is proficiency for this outcome. Student must provide suitable evidence and reflect on performance relative to associated NSES, NSTA, and WA Comp standards. SCED 324 portfolio performance benchmark proficiency All standards met for edTPA

*Method(s) of assessment should include those that are both direct (tests, essays, presentations, projects) and indirect (surveys, interviews) in nature.
**Data needs to be collected and differentiated by location (Ellensburg campus vs University Centers) and modality (e.g. online, face-to-face, hybrid)
***Timing of assessment should ideally be at different transition points of program (i.e., admission, mid-point, end-of-program, post-program)

Note: An assessment cycle has not been established for this program as there are currently less than 5 students enrolled in it.

Assessment Cycle

Analysis and Interpretation: December
Improvement Actions: Completed by June
Dissemination: Completed by June

Year SLOs	15-16	16-17	17-18	18-19	19-20	20-21
1	x	x	x	x	x	x
2	x	x	x	x	x	x
3	x	x	x	x	x	x
4	x	x	x	x	x	x
5	x	x	x	x	x	x
6	x	x	x	x	x	x

Assessment Oversight

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