

**CWU Student Learning Outcome Assessment Plan Matrix**  
 Department: Geological Sciences/Science Education

Program: Earth Science Teaching

<b>Student Learning Outcomes (performance, knowledge, attitudes)</b>	<b>Related Program Goals</b>	<b>Related Departmental Goals</b>	<b>Related College Goals</b>	<b>Related University Goals</b>	<b>Method(s) of Assessment (What is the assessment?)</b>	<b>Who Assessed (Students from what courses – population)</b>	<b>When Assessed (term, dates)</b>	<b>Standard of Mastery/ Criterion of Achievement (How good does performance have to be?)</b>
1. Demonstrate an ability to individually and collaboratively engage in inquiry and integrate the nature of science.	SCED Program Goal (PG) 1	SCED Departmental Goal (DG) 1, 3, 4	COTS Goal 1, 2, 6	CWU Goal 1, 2, 6	<ul style="list-style-type: none"> <li>Science Program major/minor teaching portfolio, WEST-E content assessment, entry to and exit from program survey</li> <li>SCED 324 course portfolio</li> <li>Practicum field observation</li> <li>WA pedagogy assessment</li> </ul>	<ul style="list-style-type: none"> <li>All Earth Science Teaching majors, minors, and endorsement students</li> </ul>	<ul style="list-style-type: none"> <li>End of major/minor program, prior to student teaching</li> <li>SCED 324 Student teaching</li> </ul>	<ul style="list-style-type: none"> <li>Minimum requirement is proficiency for this outcome. Teacher candidate must provide suitable evidence and reflect on performance relative to associated NSES, NSTA, and WA Comp standards.</li> <li>SCED 324 portfolio performance benchmark proficiency</li> <li>All standards met for WA Pedagogy Assessment</li> </ul>
2. Explain and apply fundamental Earth science content concepts, principles, and methods.	SCED PG 1	SCED DG 1, 3, 5	COTS Goal 1, 2, 6	CWU Goal 1, 2, 6	<ul style="list-style-type: none"> <li>Science Program major/minor teaching portfolio, WEST-E content assessment, entry to and exit from program survey</li> <li>SCED 324 course portfolio</li> <li>Practicum field observation</li> <li>WA pedagogy assessment</li> </ul>	<ul style="list-style-type: none"> <li>All Earth Science Teaching majors, minors, and endorsement students</li> </ul>	<ul style="list-style-type: none"> <li>End of major/minor program, prior to student teaching</li> <li>SCED 324 Student teaching</li> </ul>	<ul style="list-style-type: none"> <li>Minimum requirement is proficiency for this outcome. Teacher candidate must provide suitable evidence and reflect on performance relative to associated NSES, NSTA, and WA Comp standards.</li> <li>SCED 324 portfolio performance benchmark proficiency</li> <li>All standards met for</li> </ul>

	SCED PG 2	SCED DG 2, 3, 4	COTS Goal 1, 2, 6	CWU Goal 1, 2, 6	<ul style="list-style-type: none"> <li>Science Program major/minor teaching portfolio, entry to and exit from program survey</li> <li>SCED 324 course portfolio</li> <li>Practicum field observation</li> <li>WA pedagogy assessment</li> </ul>	<ul style="list-style-type: none"> <li>All Earth Science Teaching majors, minors, and endorsement students</li> </ul>	<ul style="list-style-type: none"> <li>End of major/minor program, prior to student teaching</li> <li>SCED 324 Student teaching</li> </ul>	<ul style="list-style-type: none"> <li>Minimum requirement is proficiency for this outcome. Teacher candidate must provide suitable evidence and reflect on performance relative to associated NSES, NSTA, and WA Comp standards.</li> <li>SCED 324 portfolio performance benchmark proficiency</li> <li>All standards met for WA Pedagogy Assessment</li> </ul>
<p>3. Demonstrate an ability to effectively facilitate learning for all students.</p>	SCED PG 2	SCED DG 2, 3, 4	COTS Goal 1, 2, 6, 7	CWU Goal 1, 2, 6	<ul style="list-style-type: none"> <li>Science Program major/minor teaching portfolio, WEST-E content assessment, entry to and exit from program survey</li> <li>SCED 324 course portfolio</li> <li>Practicum field observation</li> <li>WA pedagogy assessment</li> </ul>	<ul style="list-style-type: none"> <li>All Earth Science Teaching majors, minors, and endorsement students</li> </ul>	<ul style="list-style-type: none"> <li>End of major/minor program, prior to student teaching</li> <li>SCED 324 Student teaching</li> </ul>	<ul style="list-style-type: none"> <li>Minimum requirement is proficiency for this outcome. Teacher candidate must provide suitable evidence and reflect on performance relative to associated NSES, NSTA, and WA Comp standards.</li> <li>SCED 324 portfolio performance benchmark proficiency</li> <li>All standards met for WA Pedagogy Assessment</li> </ul>
<p>4. Create safe, effective learning environments that support inquiry, collaboration, intellectual risk-taking, ethical decision-making, and student construction of knowledge.</p>	SCED PG 2	SCED Goal 1, 2, 3, 4	COTS Goal 1, 2, 6, 7	CWU Goal 1, 2, 6	<ul style="list-style-type: none"> <li>Science Program major/minor teaching portfolio, WEST-E content assessment, entry to and exit from program survey</li> <li>SCED 324 course portfolio</li> <li>Practicum field observation</li> <li>WA pedagogy assessment</li> </ul>	<ul style="list-style-type: none"> <li>All Earth Science Teaching majors, minors, and endorsement students</li> </ul>	<ul style="list-style-type: none"> <li>End of major/minor program, prior to student teaching</li> <li>SCED 324 Student teaching</li> </ul>	<ul style="list-style-type: none"> <li>Minimum requirement is proficiency for this outcome. Teacher candidate must provide suitable evidence and reflect on performance relative to associated NSES, NSTA, and WA Comp standards.</li> <li>SCED 324 portfolio performance benchmark proficiency</li> <li>All standards met for WA Pedagogy Assessment</li> </ul>

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.	SCED PG 2	SCED Goal 2, 3, 4, 7, 8	COTS Goal 1, 2, 6	CWU Goal 1, 2, 6	<ul style="list-style-type: none"> <li>Science Program major/minor teaching portfolio, entry to and exit from program survey</li> <li>SCED 324 course portfolio</li> <li>Practicum field observation</li> <li>WA pedagogy assessment</li> </ul>	<ul style="list-style-type: none"> <li>All Earth Science Teaching majors, minors, and endorsement students</li> </ul>	<ul style="list-style-type: none"> <li>End of major/minor program, prior to student teaching</li> <li>SCED 324</li> <li>Student teaching</li> </ul>	<ul style="list-style-type: none"> <li>Minimum requirement is proficiency for this outcome. Teacher candidate must provide suitable evidence and reflect on performance relative to associated NSES, NSTA, and WA Comp standards.</li> <li>SCED 324 portfolio performance benchmark proficiency</li> <li>All standards met for WA Pedagogy Assessment</li> </ul>
6. Demonstrate an ability to make science personally and socially relevant to individual and community by incorporating current events within collaborative and social networks.	SCED PG 2	SCED DG 1, 2, 4	COTS Goal 1, 2, 5, 6	CWU Goal 1, 2, 4, 6	<ul style="list-style-type: none"> <li>Science Program major/minor teaching portfolio, entry to and exit from program survey</li> <li>SCED 324 course portfolio</li> <li>Practicum field observation</li> <li>WA pedagogy assessment</li> </ul>	<ul style="list-style-type: none"> <li>All Earth Science Teaching majors, minors, and endorsement students</li> </ul>	<ul style="list-style-type: none"> <li>End of major/minor program, prior to student teaching</li> <li>SCED 324</li> <li>Student teaching</li> </ul>	<ul style="list-style-type: none"> <li>Minimum requirement is proficiency for this outcome. Teacher candidate must provide suitable evidence and reflect on performance relative to associated NSES, NSTA, and WA Comp standards.</li> <li>SCED 324 portfolio performance benchmark proficiency</li> <li>All standards met for WA Pedagogy Assessment</li> </ul>
7. Participate in a variety of activities that enhance professional	SCED PG 3	SCED DG 2, 7, 8	COTS Goal 1, 2, 6	CWU Goal 1, 2, 6	<ul style="list-style-type: none"> <li>Science Program major/minor teaching portfolio, entry to and</li> </ul>	<ul style="list-style-type: none"> <li>All Earth Science Teaching</li> </ul>	<ul style="list-style-type: none"> <li>End of major/minor program, prior</li> </ul>	<ul style="list-style-type: none"> <li>Minimum requirement is proficiency for this outcome. Teacher</li> </ul>

development and improve teaching effectiveness.					<ul style="list-style-type: none"> <li>exit from program survey</li> <li>SCED 324 course portfolio</li> <li>Practicum field observation</li> </ul>	<ul style="list-style-type: none"> <li>majors, minors, and endorsement students</li> </ul>	<ul style="list-style-type: none"> <li>to student teaching</li> <li>SCED 324</li> <li>Student teaching</li> </ul>	<ul style="list-style-type: none"> <li>candidate must provide suitable evidence and reflect on performance relative to associated NSES, NSTA, and WA Comp standards.</li> <li>SCED 324 portfolio performance benchmark proficiency</li> </ul>
8. Demonstrate open-mindedness and curiosity that leads to continuous improvement as a scientist and a teacher.	SCED PG-3	SCED DG 3, 4	COTS Goal 1,2,6	CWU Goal 1, 2, 6	<ul style="list-style-type: none"> <li>Science Program major/minor teaching portfolio, entry to and exit from program survey</li> <li>SCED 324 course portfolio</li> <li>Practicum field observation</li> </ul>	<ul style="list-style-type: none"> <li>All Earth Science Teaching majors, minors, and endorsement students</li> </ul>	<ul style="list-style-type: none"> <li>End of major/minor program, prior to student teaching</li> <li>SCED 324</li> </ul>	<ul style="list-style-type: none"> <li>Minimum requirement is proficiency for this outcome. Teacher candidate must provide suitable evidence and reflect on performance relative to associated NSES, NSTA, and WA Comp standards.</li> <li>SCED 324 portfolio performance benchmark proficiency</li> </ul>