

## EARTH SCIENCES AND SCIENCE EDUCATION ASSESSMENT PLAN

Science Education Programs (SBI, SCH, SEA, SPH) Leading to MEd

<b>Student Learning Objectives (SLO)</b>	<b>Courses<sup>1</sup> Resulting in Outcomes/Goals</b>	<b>Activities Resulting in Outcomes/Goals</b>	<b>Measures, Criteria, Rubrics of Student Achievement of Outcomes/Goals</b>	<b>Timetable</b>
1. Candidates will use understanding of child development, individuals and diverse cultures to ensure inclusive, student-centered learning environments that enable each learner to meet high standards.	SPF 503, EXE 500, SCI 677, SCI 678	Written assignments, projects, papers, participation in class discussions, field experiences	Students demonstrate mastery through their performance in student teaching (SCI 677/678). Science Ed Rubric items 1.5, 1.6, 2.4, 2.5, 3.3, 7.4.	Student teaching rubric scores are assessed annually.
2. Candidates will demonstrate understanding of and the ability to utilize inquiry and the centrality of phenomena. Students will employ 3-D instruction (science and engineering practices, disciplinary core ideas, cross-cutting concepts)	SCI 502, SCI 677, SCI 678	Written assignments, projects, papers, participation in class discussions, field experiences	Students demonstrate mastery through performances in student teaching. Science Ed Rubric 1.1, 1.2, 1.3, 1.4, 3.1, 3.2, 3.3, 3.4, 3.5, 3.8	Student teaching rubric scores are assessed annually.
3. Candidates will use multiple methods of formative and summative assessment, planning instruction that enables every student to meet learning goals through the use of varied, student-centered instructional strategies facilitating deep student understanding.	SCI 502, SCI 664, SCI 677, SCI 678	Written assignments, projects, papers, participation in class discussions, field experiences	Students demonstrate mastery through performances in student teaching. Science Ed Rubric 2.1, 2.2, 2.3, 2.4, 2.5, 2.6, 4.1, 4.9	Student teaching rubric scores are assessed annually.
4. Candidates engage in ongoing professional learning, use evidence of student learning to reflect upon instruction, seek appropriate leadership roles and collaborate with families, colleagues and the community.	SCI 502, SCI 679	Written assignments, projects, papers, participation in class discussions, field experiences	Students demonstrate mastery through performances in student teaching. Science Ed Rubric 1.5, 1.6, 2.5, 2.8, 3.2, 3.3, 3.7, 3.8, 5.1, 5.2, 5.3, 5.4, 5.5	Student teaching rubric scores are assessed annually.