

CSU Chico
 Assessment Plan (Fall 2019-Spring 2020) - Department of Science Education
BS in Natural Sciences

Program Learning Outcomes	SCED 141 Concepts in Physical Sciences Spring 2020	SCED 142 Concepts in Life Sciences Fall 2019	SCED 321 Scientific Inquiry Spring 2020	SCED 342 Concepts in Earth & Space Sciences Fall 2019	SCED 343 Concepts in Environmental Sciences Spring 2020	SCED 350 Learning Assistant Training Fall 2019	SCED 352 Museum Docent Training Fall 2019	SCED 389 Teaching Science in Outdoor Settings Spring 2020	SCED 490 Natural Sciences Seminar Fall 2019	SCED 495 Science Education Capstone Spring 2020
1.1 Demonstrate an understanding of the Disciplinary Core Ideas (DCIs) in Physical Science (PS), Life Science (LS), and Earth and Space Science (ESS)	Pre and post-test using the Next Gen PET physical science assessment	Student portfolio prompts require students to identify Life Science DCIs in their narrative and work samples		Pre and post-test using Mastering Geology (assessment on space science concepts)	Group designed Ecology Investigation					
1.2 Demonstrate an understanding of the DCIs in Engineering, Technology and the Application of Science (ETS)			Classroom sharing diagrams		Solving environmental impact issues					
2.1 Apply the science and engineering practices to answer question (science) and come up with solutions (engineering)	Pre and post-test using the Colorado Learning Attitudes about Science Survey (CLASS)	SEP Lab Activity and reflection	Pinhole theater							

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3.1 Create lesson plans that are standards-based and/or aligned with social and eco-justice practices		Final - lesson plan design		Place-based Group Projects			Science lesson plan			TBD
3.2 Facilitate equitable teaching and learning practices that acknowledge, honor, and respect oppressed communities						Video Reflections	Culminating blog post or self-reflection	TBD		TBD
3.3 Engage in evidence-based reflective teaching practices while being mindful of biases and assumptions							Pre and post teaching reflection, or blog post regarding their designed activity	TBD	Reading reflections	TBD