

## Curriculum Matrix

### BS Natural Sciences – option in science education

<b>Student Learning Objectives</b>	SCED 141 Concepts in Physical Sciences	SCED 142 Concepts in Life Sciences	SCED 321 Scientific Inquiry	SCED 342 Concepts in Earth & Space Sciences	SCED 343 Concepts in Environment al Sciences	SCED 350 Learning Assistant Training	SCED 352 Museum Docent Training	SCED 389 Teaching Science in Outdoor Settings	SCED 490 Natural Sciences Seminar	SCED 495 Science Education Capstone
Upon successful completion of the program, students will be able to:	I = Introductory level    P = Practice level    M = Mastery level									
1.1 Demonstrate an understanding of the Disciplinary Core Ideas (DCIs) in Physical Science (PS), Life Science (LS), and Earth and Space Science (ESS)	P	P		M	P					
1.2 Demonstrate an understanding of the DCIs in Engineering, Technology and the Application of Science (ETS)			P, M		P, M					
2.1 Apply the science and engineering practices to answer question (science) and come up with solutions (engineering)	I	I	P, M							
3.1 Create lesson plans that are standards-based and/or aligned with social and eco-justice practices		I		M			P, M			M

<b>Student Learning Objectives (cont'd)</b>  Upon successful completion of the program, students will be able to:	SCED 141 Concepts in Physical Sciences	SCED 142 Concepts in Life Sciences	SCED 321 Scientific Inquiry	SCED 342 Concepts in Earth & Space Sciences	SCED 343 Concepts in Environmental Sciences	SCED 350 Learning Assistant Training	SCED 352 Museum Docent Training	SCED 389 Teaching Science in Outdoor Settings	SCED 490 Natural Sciences Seminar	SCED 495 Science Education Capstone
3.2 Facilitate equitable teaching and learning practices that acknowledge, honor, and respect oppressed communities						I	P, M	P, M		M
3.3 Engage in evidence-based reflective teaching practices while being mindful of biases and assumptions							P, M	P, M	M	M

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