



Course Competency Report by Code

Code: C292

Science Teaching and Learning (C292)

Course of Study: C292 - Science Teaching and Learning

Course Level: Undergraduate

Course Division: Senior

Discipline: Education

Course Type:

Department: Education

COMPETENCY #	COMPETENCY NAME	COMPETENCY TEXT
2035.1.1	Three-Dimensional Learning	The graduate analyzes connections among the three dimensions of science instruction—disciplinary core ideas, crosscutting concepts, and science and engineering practices—to prepare and plan for instruction.
2035.1.2	Educational Technology	The graduate integrates technology into science activities to support student engagement and content mastery.
2035.1.3	Assessment	The graduate develops assessment strategies that measure three-dimensional science learning to determine the effectiveness of teaching and learning experiences.
2035.1.4	Lesson Planning	The graduate develops lessons that integrate the three dimensions of science with applicable technologies to connect scientific concepts and phenomena.
2035.1.5	Safety and Ethics in the Science Learning Environment	The graduate develops plans for the use, storage, and maintenance of science materials and protective equipment and for the care of living organisms to comply with district, state, and federal safety, ethical, and legal standards for science teachers.
2035.1.6	Emergency Response Plans	The graduate establishes an emergency response plan to prepare for potential emergency situations in the science learning environment.