

Nuclear Fuel Cycle Distance Learning and Experiential Learning Course: Core Concepts for Separations, Environmental Behavior, and Safeguards

Executive Summary

This project is focused on improving the nuclear education infrastructure for training students on the chemical and radiochemical aspects of the nuclear fuel cycle. Through the expansion of the existing fuel cycle course at UCB and development of a new fuel cycle chemistry course at UNLV, students will receive training in the chemistry of the nuclear fuel cycle. This training will be reinforced through an experiential fuel cycle laboratory course at UNLV. The project will focus on the development of a stand-alone laboratory course module, the development of two academic courses, and the adaptation of these courses for distance learning. The laboratory course will also provide students with direct experience in the use of radioactive materials, offering students an opportunity not available in many university programs. Following the successful completion of these activities, the nuclear fuel cycle courses will be adapted for distance education.

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