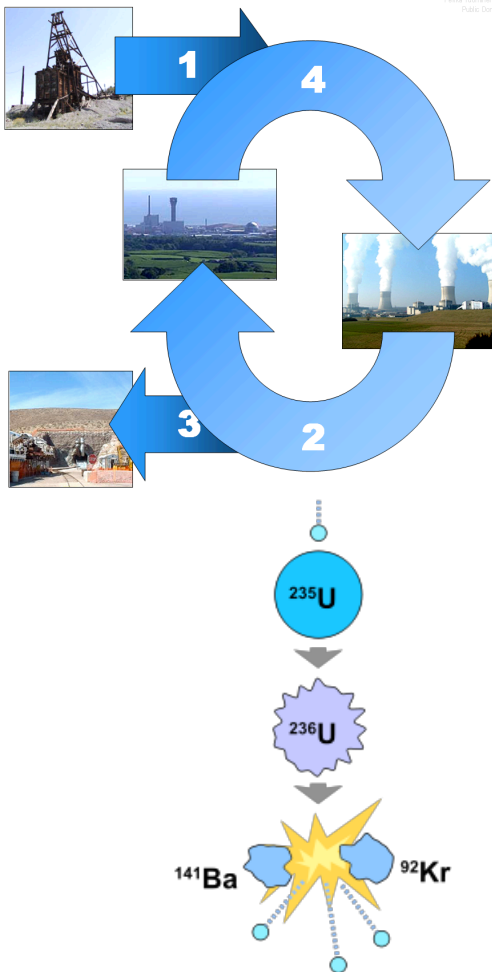


ESGN 598N

Stewardship of Nuclear Resources



Offered in Spring 2010. **Nuclear energy** is the only viable **carbon-free** power source for generating electricity based on a mature technology. This realization along with improvements in safety and prospects for handling waste disposal have led to a nuclear renaissance in the United States. The goal of this course is to provide a broad backdrop concerning the environmental efficacy of nuclear power within a framework geared toward the stewardship of natural resources.

This course covers stewardship of radioactive materials and the environmental implications of each point in the fuel cycle. The fuel cycle begins with mining/milling and chemical processing of uranium ore, continues through fuel management (fabrication, storage and reprocessing), and ends with ultimate disposal of spent fuel, activated materials, and other contaminated environmental media.

Prerequisite: graduate standing or consent of instructor.

For further information, contact: Andrew Miller (amiller@mines.edu) or Linda Figueroa (lfigueroa@mines.edu), ESE Division.

