

Rural Road Ecology & Maintenance - ERM 448

Fall 2019 Tu/Th 1:35 -- 2:50

Who should take this course?

Roads are ubiquitous throughout the landscape and this course is intended for students who anticipate working in natural resource fields including:

- Environmental Management
- Forestry
- Fisheries
- Agriculture
- Mining
- Land Use Planning
- Environmental Engineering

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Course Description

This course will provide students with the fundamental understanding of the interaction of natural systems with unpaved and lowvolume paved roads in order to economically maintain roadways with minimal impact on the surrounding environment. The major focus area will be the road/stream interface, including the fundamentals of hydrology, geology, soils, and erosion processes as they pertain to roads and streams. A special emphasis will be placed on proper stream crossing design to benefit aquatic organism passage.

Upon completion the student will be ESM certified under Pennsylvania's Dirt, Gravel and Low Volume Road Program. www.dirtandgravel.psu.edu

