

Course Announcement for Spring 2015

CE517 Mechanics of Sediment Transport

Instructor: John Petrie (j.petrie@wsu.edu)



This course will provide an introduction to the dynamics of flow and sediment in rivers and streams. The topics to be covered include hydraulics of river flows, near-bed hydrodynamics, properties of cohesive and non-cohesive sediments, initiation of sediment motion, bedforms and flow resistance, suspended load and bedload transport, and river morphology. Applications of the material will include study of the impacts of human activities on rivers including scour and stream restoration. A basic course in fluid mechanics will provide the necessary background. Questions regarding this course can be directed to the instructor.

