Class: Welcome to CIVE 413 03(3-0-0) Environmental River Mechanics

Instructor: Pierre Y. Julien, Professor of Civil and Environmental Engineering
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Prerequisites: CE 300 – Undergraduate Fluid Mechanics

Description: Characteristics of the river environment, fluvial morphology and river system dynamics and response.

Topics:
- Introduction to Fluvial Systems
- Upland Erosion and Sediment Sources
- River Morphology
- River Hydraulics
- Sediment Transport
- Channel Stability
- River System Dynamics
- River Response
- Bank Stability
- River Stabilization
- River Environment
- Aquatic Habitat

Lectures: Tuesday & Thursday, 9:30-10:45 am, Clark Room C 363

Optional Text: Richardson et al. “Highways in the River Environment” FHWA Training and Design manual

Office Hours: TDB
Afternoons at the ERC B-205

Web-page: The course’s web page is http://www.engr.colostate.edu/~pierre/ce_old/classes/index.html

Evaluation:
- Quizzes 10%
- Mid-terms Feb 28 and April 10 50%
- Final Exam 40%