

*Remember in discovering on the flow of water
to adduce first experience and then reason.*

Leonardo da Vinci



FALL 2017 ESM 480/580 FR201 Tuesday 5-6

River Ecosystems

Department of Environmental Science and Management

Instructor: Dr. William Trush Office: Rm 101 Brookins

wt1@humboldt.edu

Optional Grading Basis

1 Credit Undergraduate / 2 Credits Graduate

Course No. 46437 (ESM 480) and Course No. 46438 (ESM 580)

ESM 480/580 *River Ecosystems* will explore how rivers function physically and ecologically. Seminar topics initially will focus on physical processes, then transition into quantitatively linking these physical processes with their biological and ecological outcomes. Approximately early-November, students will read case studies and be expected to reconstruct potential linkages. Last, a set of river management principles will be assembled from all seminar topics and class discussions.

No required text. Each weekly seminar topic will require an assigned reading. One synthesis and one analytical writing assignment (min 4-5 pages each) will be required for those opting a letter grade. The August 22rd Tuesday class will be organizational and introductory ... with no reading assigned. Pending weather, an optional weekend fieldtrip(s) to a local stream/river will be scheduled to observe stream processes and possibly adult salmon migration runs.