



## ***GEOG 4/527: Fluvial Geomorphology***

**Prof. Pat McDowell, Spring 2009**  
**M W 4:00-5:20 plus some Friday afternoons**

### ***Goals of the course:***

- Gain an understanding of how rivers behave.
- Learn how to analyze rivers and apply principles and analysis to river management problems.

### ***Course themes:***

- Processes that shape river channels and floodplain: water flow, hydraulics, sediment transport
- Ecological interactions in rivers: aquatic ecology, large wood in rivers, river-floodplain connections
- How channels and floodplains evolve over time, response to climate change
- Human impacts on rivers
- River restoration

### ***Format:***

- Mondays: lecture and discussion
- Wednesday: lecture or in-class computer labs
- Friday: Meet four Fridays 1:00-5:00pm for field work and labs: 4/3, 4/17, 5/8 or 5/15, 5/28; 1 optional meeting 4/10 1:00-3:00
- Two tests (25% each) plus 6 labs/field exercises (50%)

