

Syllabus and Readings 2017

Readings will be distributed via Gauchospace during the course

All lab reports due in the lab section two weeks after assignment

Date		Lecture Topic	Lab Topic
10-Jan	T	River valleys as habitat for humans and their management problems	
12-Jan	Th	River valleys as habitat for more charismatic species: Geological and ecological conceptions of large rivers	
17-Jan	T	Flow regimes	Modeling of Habitat and Population Dynamics of Fish in River Channel Networks
19-Jan	Th	Flood routing and inundation	
21-Jan	Sa	Field trip to Sta Ynez R. valley	
24-Jan	T	Managed flow regimes	
26-Jan	Th	Computation of environmental flows	Storage Routing for Flood Analysis
31-Jan	T	Flood regimes: processes and prediction	
2-Feb	Th		
7-Feb	T	Flood regimes: statistical analysis	
9-Feb	Th	Flood regimes: impacts of floods	Hydraulic Modeling of High Flows in Channels and Floodplains
14-Feb	T	Flood risk management	
16-Feb	Th	Flood risk management: effects of dams and reservoirs	

21-Feb	T	Sedimentation: sources and storage of sediment	Sediment Transport and Channel Evolution Modeling or Field Exercise
23-Feb	Th	Sediment transport processes	
28-Feb	T	Sediment transport predictions	
2-Mar	Th	Sediment transport and channel sedimentation modeling	
7-Mar	T	River channel form and behavior	
9-Mar	Th	TBA	
14-Mar	T	Floodplains, Estuaries and Deltas	
16-Mar	Th	Floodplains, Estuaries and Deltas	