

RIVER ECOLOGY BIO 568
SPRING 2011
SYLLABUS (subject to change)
Email mallinm@uncw.edu
Lab website: <http://www.uncwil.edu/cmsr/aquaticecology/laboratory/>

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DATE	SUBJECT
January 12	Introduction, physical aspects of streams and rivers
January 19	The primary producers; Stream nutrients
January 26	Stream nutrients; Stream and river consumer communities
February 2	Consumers; Major concepts of river and stream functional ecology
February 9	Blackwater streams and rivers; Tidal creek ecology
February 12	Rural stream field trip / laboratory ID of benthic organisms (Saturday – 9:00 AM – 3:00 PM), Rain day February 19 th .
February 16	Dams and river fragmentation, reservoir limnology (paper topics due)
February 23	Mid-term exam
March 2	Power plant effects, species loss, invasive species
March 9	Sewage systems and pollution; Animal waste; Cape Fear River System case study
March 16	no class (spring break)
March 23	Metals and toxic pollutants, Acid deposition
March 30	Local, state, and federal environmental structure
April 2	Cape Fear River field trip (Saturday 9:00 AM – 4:00 PM)
April 6	Urban streams; stream protection and stream restoration / CFR benthos
April 13	Field trip to Wilmington urbanized tidal creeks (about 3 hrs)
April 22	backup rain day for Cape Fear River field trip if needed
April 20	Sampling methods; Pollution review; Grad student talks
April 27	Papers due; Grad student talks
May 4	Final exam