

Physical Geography: Surface Water (01:450:404:01)

Spring 2011

- Instructor:** Prof. Åsa K. Rennermalm, email: arennerm@rci.rutgers.edu
- Class Time:** Wednesday 1:40 PM - 4:40 PM in Lucy Stone Hall B266 (Livingston Campus)
- Class Format:** The class time will be split between lecture and a lab component. The lab component will include interactive exercise, and project work.
- Readings:** "Environmental Hydrology" 2nd edition by Ward and Trimble and assigned readings
- Exams:** Midterm and final exam TBA
- Extra credit:** Two extra credits can be obtained by attending Rutgers seminar with topic relevant to the course, and making an short in-class presentation about this talk for the class. Calendar of some potential talks: <http://ecologies.rutgers.edu/calendar-of-events>
- Important info:** The course sakai site will be actively used, check it regularly for information, syllabus updates and exam scores. Login at <https://sakai.rutgers.edu/portal>.

Course Overview: Water is one of the most basic resources for human societies. Although the earth has plenty of water, it is not always found at the place where it is needed and the time when it is needed. In this course we will explore the occurrence and movement of water in the earth's land surface. We will discuss the hydrological cycle and processes such as precipitation and stream flow, evapotranspiration, snow melt, groundwater flow and current topics related to hydrology and water resources.

This course is intended for upper level undergraduates. The learning objectives are: 1) learn theory, applications and geography of surface water, 2) learn to apply theoretical concepts, data visualization techniques, quantitative data analysis and application of simple models. Familiarity

with Microsoft Excel is not a requirement, but very helpful. Students should be comfortable with using and learning software packages and interactive websites.

Exams and Grading:

The final grade will be weighted as follows:

- Attendance and participation in class: 5 points
- Project work: 10 points
- Assignments: 30 points
- In-class mid-term: 25 points
- Final exam: 30 points

The final grade will be divided as follows: A: 90.0 - 100, B+: 87.5 - 89.9, B: 80.0 - 87.4, C+: 77.5 - 79.9, C: 70.0 - 77.4, D: 60.0 - 69.9, F: <60.0.

Accommodations for students with special needs: Students who, because of disability, need accommodation for special needs should provide the instructor with a Letter of Accommodation (LOA) obtained from the Office of Disability Services for Students as soon as possible.