

Spring Break 2007: FE 538 Field Hydrology



In this **limited enrollment** advanced-level course, students will participate in hands-on watershed hydrology research by learning to use field hydrology techniques that focus on how to measure and quantify water fluxes into, through, and out of catchments. Students will rotate through daily field modules interacting with researchers and technical staff in the field and completing assignments corresponding to each day's field activities.



Field exercises and measurements will focus on how to measure, understand and interpret:

- The energy balance components of snowmelt
- Stream flow-groundwater interactions
- Isotope analysis
- Hyporheic exchange
- Movement of water in the riparian area.

COURSE REQUIREMENTS:

Students will prepare for the week field trip with course readings. Field exercises and calculations will be submitted as a final report and presented in a post-field-trip meeting.

Pre-requisites: Undergraduate class in hydrology.

Credits: 3 CRN: 36386

DATES: Depart 25 March –Return 31 March, 2007.

Logistics: Students will stay at the HJA dorm rooms (\$60 for the 6 nights); food costs will be divided among the group



LOCATION: The **H.J. Andrews Experimental Forest** (<http://www.fsl.orst.edu/lter/>) is one of the National Science Foundation Long Term Ecological Research sites that provide research on climate, forest and stream ecosystem dynamics. Students will travel by van to the HJA in the central Cascade Range. Elevations range from 1350 ft to 5340 ft providing a significant variation in precipitation form, from snow to rain.

To see info on last year's class see:

www.cof.orst.edu/cof/fe/watershd/fe538/FE538homepage.htm

Organizational meeting: March 8, 4-5pm, Peavy Hall 004

Or for more information contact Instructors:

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