CEE 6930 Special Problems Fall 2020

Advanced Hydrology through CUAHSI Virtual University

CUAHSI
universities allied for water research

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CUAHSI Virtual University is a unique national online course, consisting of modules on highly specialized hydrology topics from recent research advances. Its aim is to enhance the depth of graduate course offerings at universities across the nation. Students from participating universities can enroll in a subset of modules of their choosing, resulting in collaborations between instructors and students at different universities. Students earn credit at their home institutions. The course will run from September through December. There are nine separate modules, each offered by an instructor at one of the participating universities scheduled in a four week block at the times below. **Students choose which of these modules they want to do**, and may register for any number of modules.

	Sept 2-30	Oct 2-29	Nov 4-Dec 3
M/W 3:30-5:00 p.m. EDT / 1:30-3:00 p.m. MDT	***Ecohydrology of Groundwater Dependent Ecosystems*** Steven Loheide, University of Wisconsin Madison	***Stream Solute Tracers: What, Why and How?*** Adam Ward, Indiana University	***Microwave Radar Remote Sensing: Theory and Application*** H.P. Marshall, Boise State University
M/W 5:00-6:30 p.m. EDT / 3:00-4:30 p.m. MDT		***Advances in Drone-based Remote Sensing for Hydrologic Applications*** Scott Tyler, University of Nevada-Reno	***Digital Water, Emerging Data Science and Research Software*** Christina Bandaragoda, University of Washington
T/Th 3:30-5:00 p.m. EDT / 1:30-3:00 p.m. MDT	***Geographic Information Systems in Water Resources*** David Tarboton, Utah State University	***Urban and Stormwater Hydrology*** Anne Jefferson, Kent State University	
T/Th 5:00-6:30 p.m. EDT / 3:00-4:30 p.m. MDT		***Introduction to Open Channel Modeling*** Ehab Meselhe, Tulane University	***Modeling Watershed Dynamics Using Landlab*** Erkan Istanbulluoglu, University of Washington

Register for one credit of CEE 6930 for each module you plan to do. Each module is significant work, and three modules is regarded as equivalent to a full semester course.

Classes are presented online using Zoom and Canvas by the instructor from a participating University. You attend online from any computer.
http://hydrology.usu.edu/dtarb/CUAHSIVirtualUniversity/