

# CEE 6930 Special Problems (CRN 43940)

## Advanced Hydrology through [CUAHSI Virtual University](https://www.cuahsi.org/virtual-university/) – Fall 2022

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CUAHSI Virtual University is a unique national online course, consisting of highly specialized water research modules from recent research advances. It aims to enhance the depth of graduate course offerings at universities across the nation. Students from participating universities enroll in a subset of modules of their choosing. Students earn credit at their home institutions. Each module is 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 take. **Register for one unit of CEE 6930 (CRN 43940) for each module you will take.** Each module is significant work and three modules are equivalent to a full semester course. Classes are taught online using Zoom and Canvas by the instructor from a participating university.

	Sept 7-Oct 4	Oct 10-Nov 3	Nov 9-Dec 8
Monday/Wednesday 11:00 am - 12:30 pm ET / 9:00 am - 10:30 am MT	<b>Crop-Groundwater Interactions</b> Steve Loheide, University of Wisconsin		
Monday/Wednesday 3:30 - 5:00 pm ET / 1:30 - 3:00 pm MT	<b>Open and Reproducible Research Computing</b> Alejandro Flores, Boise State University	<b>Stream Solute Tracers: What, why, &amp; how?</b> Adam Ward, Indiana University	<b>Hydrological Catchment Modeling Using Bucket-Type Models</b> Jan Seibert, University of Zurich
Tuesday/Thursday 11:00 am - 12:30 pm ET / 9:00 am - 10:30 am MT		<b>Hydrologic Data Visualization</b> Sam Zipper, University of Kansas	<b>Applications of Drones and UAS in Hydrology</b> Scott Tyler, University of Nevada – Reno
Tuesday/Thursday 3:30 pm - 5:00 pm ET / 1:30 pm - 3:00 pm MT	<b>Applying Geographic Information Systems for Terrain and Watershed Analysis in Hydrology</b> David Tarboton, Utah State University		
Tuesday/Thursday 5:00 pm - 6:30 pm ET / 3:00 pm - 4:30 pm MT			<b>Modeling Watershed Dynamics Using Landlab</b> Erkan Istanbuluoglu, University of Washington

To attend, you register twice:

- Register at USU for CEE 6930 to receive USU credit (1 unit / module)
- Register at [CUAHSI](https://www.cuahsi.org/virtual-university/) to enter into the CUAHSI system

For more information, see

<http://hydrology.usu.edu/dtarb/CUAHSIVirtualUniversity/>



# Virtual University

## Fall 2022



**CUAHSI**  
allied for water science

Take on-line classes with hydrology experts at other universities and get credit at your university!

For more information, including the course catalog, please visit [www.cuahsi.org](http://www.cuahsi.org) or email Veronica Sosa Gonzalez at [vgonzalez@cuahsi.org](mailto:vgonzalez@cuahsi.org)

## Course Offerings

- **Crop-Groundwater Interactions**  
Steve Loheide, University of Wisconsin - Madison
- **Open and Reproducible Research Computing**  
Alejandro Flores, Boise State University
- **Applying Geographic Information Systems for Terrain and Watershed Analysis in Hydrology**  
David Tarboton, Utah State University
- **Stream Solute Tracers: What, Why and How?**  
Adam Ward, Indiana University
- **Hydrologic Data Visualization**  
Samuel Zipper, University of Kansas
- **Hydrological Catchment Modeling Using Bucket-Type Models**  
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- **Modeling Watershed Dynamics Using Landlab**  
Erkan Istanbuluoglu, University of Washington