

Water & Sustainability

A 3-day short course centered on the NGSS **Earth & Human Activity** Disciplinary Core Idea

August 16-18, UConn main campus, Storrs, CT

This workshop will focus on the connections between land use and water resource health. We'll start globally but quickly focus in on Connecticut. Concepts will be explored in the classroom but also in a half-day field tour of the UConn campus, which is known for its innovative stormwater management practices. Participants will be taught how to use existing online mapping tools to explore these concepts for themselves in ways that align with NGSS, and for their particular geographic area of interest. On the last day participants will design their own 5-7 unit teaching module, based on this course and tailored to their local landscape and waterways.

DRAFT WORKSHOP AGENDA

Day	Topic	Activity Type
DAY 1		
AM	Introduction & Overview	
9:30 AM	Goal of course, context within NGSS, agenda review, instructor intros, participant intros, what you will leave with	
10:15 AM	<i>The question you will investigate: What is the health of your local water resources, and why? What actions could be taken to protect and improve these resources?</i>	discussion and warm-up exercise.
11:00 AM	break	
11:15 AM	Water and Our Changing Landscape	
	Man's global footprint, overview of impacts on natural resources, the land use-water resource connection, 30 years of land use change in CT and its implications for water health, introduction to low impact development	Lecture aided with use of online "Story Map"
12:15 PM	lunch break	
PM	Introduction to Online Mapping Tools	
1:00 PM	Introduction to Geospatial Science	Lecture
1:30 PM	Exploring water and other natural resources using online mapping tools from CLEAR	Demonstration followed by individual exercises
3:00 PM	break	
3:15 PM	Connecting to ConnectED: using free online education resources to explore and create maps with your students	Demonstration followed by individual online exploration
4:30 PM	Wrap up	
DAY 2		
AM		
9:30 AM	Field exploration on UConn campus: the impacts of land use on water resources across a gradient of urban, agricultural and rural	walking field tour of campus
12:15 PM	lunch break	
PM		
1:00 PM	The legal and decision-making framework of protecting water resources: who does what, and how's it going?	Lecture aided with use of online "Story Map"
2:00 PM	Bringing it home: making maps, conducting analyses and testing predictive models for your local town or watershed	group exercise
4:00 PM	Wrap up	
DAY 3		
AM	Tailoring Your Own Module	
9:30 AM	Overall recap, reporting on group exercise	discussion
10:30 AM	Individual work on tailored classroom modules and lesson plan	Individual work assisted by instructors
12:00 PM	working lunch	
PM		
	Work continues on individual project as needed	Individual work assisted by instructors