

**Fall 2017 Interdisciplinary Water Resources Seminar – GRAD 592**  
**Water Management in Colorado**

Mondays 4:00-4:50 PM, Behavioral Sciences Building Room 103



**INSTRUCTOR**

Jennifer Gimbel  
Senior Water Policy Specialist, Colorado Water Institute  
Engineering E120  
Jennifer.Gimbel@colostate.edu  
Office Hours: Mondays, 3 – 4pm

**COURSE PURPOSE**

The purpose of the 2017 Interdisciplinary Water Resources Seminar (GRAD592) is to prepare students for careers in water resources by increasing their understanding of how water is actually managed in Colorado. Specifically, the seminar will:

- Examine the roles of various local, state, and federal agencies in water quantity management
- Examine water quality and environmental management
- Understand the role of the political process in water management
- Prepare students for water related careers by exposure to the analytical and data tools currently used in tracking and managing water in Colorado such as HydroBase, StateMod, NWIS, StateCU.

**SEMESTER ASSIGNMENT**

Students will use an online database and/or tool at the Colorado's Decision Support System (<http://cdss.state.co.us/onlineTools/Pages/OnlineToolsHome.aspx>) to examine and analyze data relative to a case that is related to their research project or major. Students will hand in a 2-4 page brief on the last day of class explaining their case study with a display and interpretation of data downloaded and analyzed.

**GRADING**

Attendance at all of the lectures is expected and students will be required to attend 9 of the 13 classes to receive an A. The last session on December 4, 2017 is mandatory and attendance at all classes is strongly encouraged, thus semester grades will be based upon 60% attendance and 40% for the semester assignment. Make sure you sign the roster sheet at each class to get credit for attendance – it is your responsibility to do this before leaving the class!

Speaker recordings, presentation slides, and readings will be posted at <http://www.cwi.colostate.edu/grad592.asp>

**SEMESTER SCHEDULE**

<b>DATE</b>	<b>TOPIC</b>	<b>SPEAKER</b>
8/21/17	Introductions, course overview, and Overview of State and Federal Statutes	Jennifer Gimbel and Reagan Waskom, Colorado Water Institute
8/28/17	Overview of Online Tools and Databases at Colorado's Decision Support System (CDSS)	Steve Malers, Open Water Foundation
9/4/17	No Class, Labor Day	
9/11/17	Federal, State, and Water User Entities Roles and Responsibilities	Jennifer Gimbel, CWI
9/18/17	Administration of Water Rights: Roles of Division Engineer and Water Commissioners	Dave Nettles, DWR Steve Malers, Open Water Foundation
9/25/17	Changing a Water Right – The Process	Jennifer Gimbel, Colorado Water Institute Erin Wilson, Wilson Water Group
10/2/17	Changing a Water Right – Lab Session	Steve Malers, Open Water Foundation Erin Wilson, Wilson Water Group
10/9/17	Groundwater – Permitting, Exempt vs. Non-Exempt, Augmentation Plans, Using AWAS	Jeff Deatherage, Colorado Division of Water Resources
10/16/17	Water Quality: Compliance, Point and Non-Point Pollution, NPDES Permitting, WOTUS	Patrick Pfaltzgraff, Colorado Dept. of Public Health and the Environment
10/23/17	Project Development and Financing	Mike Brod, Colorado Water Resources and Power Development Authority Kirk Russell, Colorado Water Conservation Board
10/30/17	Case Study: Development of NISP	Eric Wilkinson, Northern Water
11/6/17	Environmental Issues: Instream Flows, ESA, NGOs, Healthy Rivers, Recreational Flows, Wild and Scenic Designations; How to Use Databases to Recommend Instream Flows to CWCB	Linda Bassi, Colorado Water Conservation Board Steve Malers, Open Water Foundation
11/13/17	Compacts and Downstream States; Political Process in Water Management	Jennifer Gimbel, CWI John Stulp, Special Policy Advisor to the Governor for Water
11/20/17	No Class, Fall Break	
11/27/17	Wrap-Up and Review, Final Exam	
12/4/17	Semester assignment due (attendance required)	