WR512: Water Law and Policy for Non-Lawyers

Syllabus – Fall 2019

An online course through the CSU Online Plus and online certificate program in water resources. **Glenn Patterson, Developer and Instructor**

**Course Objective:** This course is a graduate-level, online, credit course for interested students from diverse backgrounds to learn the basics of water law and policy, in a context of historical development and evolving recognition of issues related to human and ecological needs for water. The geographic focus will include Colorado, the west, and the U.S.

**Course Description:** This online course seeks to provide for the interested citizen, with an undergraduate degree, an introduction to the laws and policies that govern the allocation and use of water in Colorado, the west, and the U.S. Practical information is provided that should be useful for those whose lives and businesses interact with water law, including educators, developers, governmental officials, realtors, farmers, business people, environmentalists, students, scientists, recreationists, and home owners. While the topics covered are similar to those in the undergraduate course, AREC 342, in this course they are explored in greater technical detail. For example, while AREC 342 provides a basic introduction to ground water and the laws governing its allocation, this course provides a more comprehensive look at the four legal categories of ground water in Colorado and the different approaches to the allocation of each type. In addition, this course looks at the range of ground-water law in other states, which vary from little regulation to heavy regulation of ground-water use. Other topics covered in greater detail in this course, compared with AREC 342, include in-channel diversions for environmental and recreational purposes, Federal reserved water rights, inter-basin transfers, and the role of the Legislature.

**Primary Topics to be Covered:** The basics of water law are presented in the context of their historical development, reflecting the evolving customs and desires of the people. Information is presented on laws governing allocation of water in Colorado, the west, and the U.S., and on the administration of water laws. Specific topics are listed below in the Course Overview.

**Instructor:** Glenn Patterson, Ph.D. in Watershed Science at CSU; and retired hydrologist from the U.S. Geological Survey. Contact: Use the course’s built-in email system, or scampi162@gmail.com. Phone 970-586-5196 or 720-333-1132.

**Textbooks:** The textbooks for this course include:


**Instructional Methodology:** The straightforward instructional methodology in this online course is designed to keep students engaged while affording maximum flexibility. Each module has an expository section with a mix of original content, readings from online sources as well as the textbooks, and occasional activities. Several modules feature video clips from a CSU seminar series. Seven modules have graded online discussions in which every student’s postings receive response comments from the instructor.

**Mode of Delivery:** The course is delivered entirely online in an asynchronous manner, allowing the students to proceed at their own pace while participating together in discussions. There is an expectation that weekly readings and assignments will be completed on time, according to the course schedule.

**Methods of Evaluation:** The students will be evaluated based on their discussion postings (28 points), their response to an assignment on examples of results of water-law or water-policy decisions (5 points), a term paper (12 points), a midterm exam (25 points), and a final exam (30 points). Total possible points: 100. The instructor will be evaluated by the students via their course evaluations and by use of the PRISM evaluation system.

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Course Overview:

Optional Review: Our Water Resources.
- Water of the World
- The Hydrologic Cycle
- Watersheds
- Occurrence and movement of groundwater
- Colorado’s water resources
- Water measurement and use

Module 1: Historical Background—Ancient Times to Colonial America -- Week 1.
- Prehistoric water management
- Water management in the Old World
- Water allocation in the Eastern US: The riparian doctrine

Module 2: Historical background—Settlement of the American West -- Week 2.
- Colorado’s rivers and aquifers
- Early western settlers and their water use
- Development of the prior appropriation doctrine
- Establishment of Colorado Territory and the right to withdraw water for irrigation
- The Mining Act and control of water by the States

Module 3: Early statehood and the solidification of the Prior Appropriation Doctrine -- Week 3.
- Water law in the 1876 Constitution
- Codification of the prior appropriation doctrine

Module 4: Interbasin diversions -- Week 4
- Early engineering and litigation related to interbasin transfers
- Interbasin transfers today
- The difference between imported and native water—use to extinction

Module 5: Conversion of water rights from one use to another -- Week 5
- Early litigation and legislation on conversion of water rights
- Water-rights conversions today

Module 6: Federal reserved water rights -- Week 6
- Early litigation on Federal reserved water rights
- Federal reserved rights in Colorado and other states

Module 7: Interstate compacts -- Week 7
- Delph Carpenter and the origin of interstate water compacts
- The Colorado River Compact
- Colorado’s other interstate compacts and decrees
- Other interstate compacts

Module 8: Midterm exam -- Week 8

Module 9: Ground water and the law -- Week 9
- The rise of ground-water use
Early legislation and litigation on ground water
Tributary ground water
Exceptions to the priority system: Non-tributary, Designated, and Denver Basin ground water
Augmentation plans and substitute water supply plans
Curtailment of tributary ground-water pumping
Ground-water law in other states

Module 10: Administration of water law -- Week 10
The Legislative Branch and how citizens influence legislation
The Courts
The State Engineer, Division of Water Resources, and Water Divisions
Colorado Water Conservation Board
Water Conservancy Districts and Water Conservation Districts
How a citizen obtains a water right
Administration of water law in other states

Module 11: Instream flow rights for environmental protection -- Week 11
1973 Instream Flow and Lake Level Law
Instream flow for the environment today
Instream flow policy in other states

Module 12: Instream flow rights for recreational use -- Week 12
1992 litigation on recreational water rights
Recreational water rights today

Module 13: Planning for the future -- Week 13
The Statewide Water Supply Initiative
Basin Roundtables and water supply plans
A look toward the future
Water planning in other states
The federal government and water planning

Module 14: Water Quality and the Law -- Week 14
Interactions between water quality and water quantity
Common Law
Early legislation on pollution
The Clean Water Act
National Environmental Policy Act

Module 15: Paper Due -- Week 15

Module 16: Final Exam -- Week 16