This course will provide a thorough introduction to wetland and riparian ecology of the Rocky Mountain and Northern Great Plains as well as the regulations and public mandates that guide their management, and the human and global disturbances that continue to shape these systems. The course is designed to provide a clear interpretation of technical information to educators; tribal, state and local regulatory staff; and consultants. We will cover the fundamentals through guided readings and discussions of text book chapters, technical reports and manuals, and peer-reviewed literature. Topics covered include:

**Wetland and Riparian Ecology**
- Wetland and Riparian Hydrology
- Hydric Soils
- Biogeochemistry
- Aquatic Plants
- Habitat Support
- Ecosystem Functions

**Wetland and Riparian Management**
- Classification
- Desktop Remote Sensing Data
- Federal and State Regulations
- Ecological Impact Assessment
- Mitigation and Restoration
- Wetland and Riparian Ecosystems in a Changing World
- Ecosystem Services

The course is fully online and open to participants across the U.S. The course is designed to be flexible with your weekly schedule. Certain assignments are required during the week and have a due date, but students are not required to be online at a specific time.

**Instructors**

**WILLIAM KLEINDL, PH.D.** has 29 years of experience working as an aquatic ecology research scientist and consultant throughout the United States assisting private and public clients with policy development; permit assistance; resource delineation and mapping; and mitigation design, implementation and monitoring.

**REBECCA DIEHL, PH.D.** has more than 10 years of experience researching, teaching, and consulting on the physical processes that shape river systems and the characteristics of riparian upland/wetland complex.