The goal of this seminar is to examine critically the enterprise of river restoration, with an emphasis on its scientific basis. In our weekly meetings we will read and discuss recent published literature. Specific topics for readings and discussion include:

- Recent critiques of river restoration
- Current practices in river restoration
- Historical roots of modern river restoration,
- Scientific concepts for healthy rivers
- Role of large wood in river functions and restoration
- Channel design and the Rosgen controversy
- Monitoring restoration projects
- Ethics in restoration

This is not a course on how to do restoration. It is assumed that you are already familiar with general approaches in river restoration, or that you are willing to do some catch-up reading before the term or early in the term to get this foundation.

We will have one or two field trips to look at local restoration projects.

Seminar participants will, individually or in teams of two, produce an original research paper that will be submitted for publication or delivered at a professional meeting, on a topic based on one of the major themes of the seminar.

**Examples of Possible Topics for Seminar Papers**

To what extent and in what ways are the concepts of flood pulse and lateral connectivity incorporated in restoration projects (in a given region)?


Effectiveness of log deflectors (or any specific types of restoration structure)

Effectiveness of passive restoration

Evaluation of the restoration program of a specific government agency or NGO

Evaluation of restoration activities within a particular river basin
Selected Readings