

Sediment Transport in Stream Assessment and Design

WATS 6900/CEWA 5700



UtahStateUniversity
DEPARTMENT OF WATERSHED SCIENCES
RESTORATION CONSORTIUM

July 30 - August 3, 2019

A course intended for those who wish to understand the principals of sediment transport to alluvial channel assessment and design

Primary learning outcomes and topics

- Assessment of sediment sources and sinks using historic data, remote sensing, and field observations
- Threshold and alluvial channel models with guidelines for assessment and design incorporating uncertainty
- Sediment transport calculations: challenges and methods, sediment rating curves, cumulative transport
- Field measurement of sediment transport and guidance for different sampling approaches
- Use of 1-d flow and transport models: using HEC-RAS for evaluation of flow competence and sediment transport capacity
- Class project incorporating gravel augmentation into channel design for dynamic fish habitat

Learn more and register at:

www.qcncr.usu.edu/courses/sediment_transport