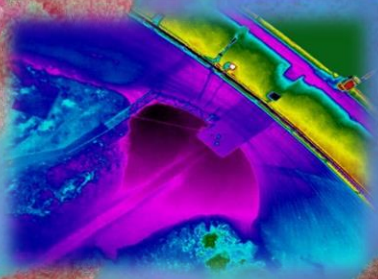
UtahStateUniversity
DEPARTMENT OF WATERSHED SCIENCES
RESTORATION CONSORTIUM

https://restoration.usu.edu/



DRONES FOR ENVIRONMENTAL RESTORATION DATA COLLECTION AND ANALYSIS

Drones (UAV / UAS) have revolutionized data collection for natural resources (rivers, forestry, wildlife, wetlands, etc.) and are used to monitor systems and evaluate restoration success. Master natural resources data collection, processing, and analysis using drones in this 4-day short course.

Apply credit toward 2 USU units or 3 CEU:

- USU Graduate Certificate in Aquatic Ecosystem Restoration
- USU Unmanned Aerial Systems BS emphasis / minor elective

TOPICS INCLUDE:

- Mission planning for environmental restoration applications (rivers, forests, wildlife, rangelands…)
- Drone and sensor demos
- Data collection
- Mosaicking visible, thermal, and multi-spectral imagery
- Developing digital surface models
- Approximating 3-D terrain using Structure-from-Motion
- Analyzing data for restoration monitoring and decision-making

INSTRUCTORS:

- Dr. Sarah Null, Assoc Prof of Watershed Sciences
- Dr. Curtis Gray, Restoration Consortium Director

Contact: sarah.null@usu.edu; curtis.gray@usu.edu

WHEN:
May 10 – 13, 2021
8:00 – 5:00 pm

USU STUDENTS:
WATS 6900 (CRN 30619)
- $30 lab fees, 2 units
- Upper-division and graduate students

PROFESSIONALS:
- $500, 3 CEU

LOCATION:
Utah State University
Logan, UT

INCLUDED WITH COURSE:

- Drone imagery / datasets
- Photogrammetry software available during course (PIX4D)
- Drone demo field trips
- ***Bring drone imagery and/or drones, if desired***

REGISTER:

https://tinyurl.com/5855v2bd