



August 11 – 14, 2025

USING DRONES FOR ENVIRONMENTAL RESTORATION SHORTCOURSE

Course website and registration information:

<https://tinyurl.com/USUdrone>

Drones (UAV/UAS) have revolutionized data collection for natural resources—rivers, forests, wildlife, wetlands, and more—enhancing monitoring, analysis, and restoration assessment with high-resolution imagery and advanced mapping. Master drone-based data collection, processing, and analysis in this 4-day short course.

3 Continuing Education Units (CEU)

TOPICS INCLUDE:

- ✂ Mission planning for environmental restoration applications
- ✂ Drone and sensor demos
- ✂ Mosaicking visible, thermal, and multi-spectral imagery
- ✂ Developing models
- ✂ Approximating 3-D terrain using Structure-from-Motion
- ✂ Analyzing data for restoration monitoring and decision-making (vegetation indices , GeoAI classification, etc.)

INSTRUCTORS:

- ✂ Dr. Sarah Null, Professor of Watershed Sciences
 - ✂ Dr. Curtis Gray, Forest Ecologist
- Contact: sarah.null@usu.edu; curtis.gray@usu.edu

WHEN:

Aug 11 – 14, 2025
8:30 – 5:00 pm

PROFESSIONALS:

CEWA 6720
- \$890, 3 CEU

LOCATION:

Utah State University
Logan, UT

INCLUDED WITH COURSE:

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