Module 1 Lesson 1: Conservation in the West

Topics (Week of 8/22)

- •Public Lands and the Tonto National Forest
- Conservation
- •Natural Resource Management
- •Riparian Areas: Importance in the Southwest
- •Lower Salt River Restoration Project

Module 1 Lesson 2: How Can Technology Aid in

Conservation Efforts

Topics (Week of 9/5)

- Adaptive Management- Monitoring
- Geographic Information Systems
- GIS/Drones as a Data Collection Tool
- Onsite vs Offsite Observation-Remote Sensing
- •GIS and Remote Sensing on the LSRRP

Module 2 Lesson 1: Utilizing GIS Technology

Middle School

FALL PROGRAM

8/22/22-12/9/22

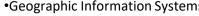
- •Geographic Information Systems
- Raster vs Vector Data
- Points, Lines and Polygons

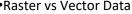
Module 2 Lesson 2: Intro to UAS Technology

Topics (Week of 10/3)

- Varying UAS Platforms
- Mechanics of flight
- •Recreational vs Commercial Use
- Preparing for a Flight

Topics (Week of 9/19)





- Data Attributes and Queries
- Ways to Access GIS



- •What is a UAS?





Module 3 Lesson 1: Intro to Remote Sensing

Topics (Week of 10/17)

- •What is Remote Sensing?
- Uses of Remote Sensing
- Basics of Aerial Imagery
- Characteristics of Imagery
- UAS vs Satellite Imagery

Module 3 Lesson 2: Utilizing UAS Collected Data

Topics (Week of 10/31)

- Drone Imagery
- Point Clouds
- Orthomosaics
- Digital Elevation Models
- •How are all of these used in LSRRP/Green Drone?

Module 1 Lesson 1: Conservation in the West

Topics (Week of 1/16)

- •Public Lands and the Tonto National Forest
- Conservation
- •Natural Resource Management
- •Riparian Areas: Importance in the Southwest
- •Lower Salt River Restoration Project

Module 1 Lesson 2: How Can Technology Aid in

Conservation Efforts

Topics (Week of 1/30)

- •Adaptive Management- Monitoring
- Geographic Information Systems
- GIS/Drones as a Data Collection Tool
- Onsite vs Offsite Observation-Remote Sensing
- •GIS and Remote Sensing on the LSRRP

Module 2 Lesson 1: Utilizing GIS Technology

Middle School

SPRING PROGRAM

8/22/22-12/9/22

Topics (Week of 2/13)

- •Geographic Information Systems
- Raster vs Vector Data
- Points, Lines and Polygons
- Data Attributes and Queries
- Ways to Access GIS

Module 2 Lesson 2: Intro to UAS Technology

Topics (Week of 2/27)

- •What is a UAS?
- Varying UAS Platforms
- Mechanics of flight
- •Recreational vs Commercial Use
- Preparing for a Flight





- •What is Remote Sensing?
- Uses of Remote Sensing
- Basics of Aerial Imagery
- Characteristics of Imagery
- UAS vs Satellite Imagery

Module 3 Lesson 2: Utilizing UAS Collected Data

Topics (Week of 3/27)

- Drone Imagery
- Point Clouds
- Orthomosaics
- Digital Elevation Models
- •How are all of these used in LSRRP/Green Drone?



