**Drones in School Agenda**

**Target Audience**

* **Age Range**: 13–18 years old (middle and high school students)
* **Location**: Tribal and rural schools in Mountrail County

**Session Format**

* **Session Length**: 50 minutes (flexible; more time allows for extended flight practice or Q&A)
* **Group Size**: Up to 30 students per session (to maximize hands-on experience)
* **Total Capacity**: Up to 150 students per day

**Session Breakdown**

| **Time** | **Activity** |
| --- | --- |
| 10 min | **Introduction to UAS & Career Opportunities** (PowerPoint presentation) |
| 5 min | **Safety Procedures & Basic Flight Controls** (PowerPoint presentation) |
| 25 min | **Flight Simulation Activity**: Students simulate wildfire detection using drones |
| 5 min | **Infrared Drone Demonstration**: Group-2 drone demo with discussion on real-world applications (e.g., search and rescue, law enforcement) |
| 5 min | **Q&A Session** (or extended flight time if Q&A is shorter) |

**Fire Detection Activity**

* Students work in teams to simulate wildfire detection on tribal lands using Forward Motion Video (FMV).
* UND provides wildfire images with real-world latitude/longitude coordinates from past reservation fires.
* Students:
  + Fly drones to locate the fire image.
  + Record coordinates.
  + Input coordinates into Google Earth or similar mapping tools to identify real-world locations.
* **Three 5-minute scenarios** are run per session, with pilot roles rotated.
* All students are given a chance to fly by the end of the session.

**Daily Itinerary (Sample)**

| **Time** | **Activity** |
| --- | --- |
| 7:30–8:30 AM | Setup (RIAS team of 2–3 people) |
| 9:00–9:50 AM | Session 1 |
| 10:00–10:50 AM | Session 2 |
| 11:00–11:50 AM | Session 3 |
| 11:50–12:20 PM | Lunch Break (Staff) |
| 12:30–1:20 PM | Session 4 |
| 1:30–2:20 PM | Session 5 |
| 2:20–3:00 PM | Pack-up and equipment breakdown |

**Resources Needed**

**Equipment**

* 6 Drones
* 24 Batteries
* 12 Cones
* 6 Wildfire Scenario Photos
* Tape
* Large TV or Projector with HDMI input
* Laptop or compatible device

**Personnel**

* **RIAS Team**: 3 members (or 2 with a Tribal College volunteer)
* **School Staff**: 1 teacher per session to assist with student supervision and support