

## **Instruction**

### **ADMINISTRATIVE REGULATIONS FOR APPLICATION OF TECHNOLOGY**

**6156AR**

#### **DRONE TECHNOLOGY AND TELEPRESENCE ROBOTS**

##### **I. Drone Technology**

Courses seeking to utilize drone technology in the curriculum must adhere to the following guidelines in order to promote safety for all staff, students, and the general community

- a. Drones utilized to support educational endeavors through classroom instruction, clubs, or activities should have the teacher of record supervising during use.
- b. The Headmaster or Principal must approve any anticipated school event that will involve drone photography.
- c. Drones must not fly directly over crowds or individual people.
- d. Drones should not fly over community members' homes or private spaces without permission.
- e. Drones may fly near crowds to capture landscape style pictures, but must not encroach on stadiums or large crowds by direct access overhead.
- f. Drones should not fly within 5 miles of any airport.
- g. At all times Drones must meet any local mandates for flying,
- h. Utilize best practice: check the drone before flying, pre-scope the flight path and area, and have adequate flight skills as approved by the instructor.
- i. The Federal Aviation Administration (FAA) approves recreational drone activity; however, any intended commercial or industrial use requires the individual pilot and drone to register with the FAA.
- j. Safety goggles should be worn while flying the drone.
- k. No inside flight, unless the ceiling is greater than 400' high and no other activity is in or around the space.

# Drone Safety Tips

As provided by FAA

Staff and students should review the safety tips on the website before the first flight.

[https://www.faa.gov/uas/educational\\_users/](https://www.faa.gov/uas/educational_users/)

- Register your drone
- Fly your drone at or below 400 feet
- Keep your drone within your line of sight
- Be aware of FAA Airspace Restrictions. If flying within 5 miles of an airport, notify the airport and air traffic control tower prior to flying.
- Respect privacy
- Never fly near other aircraft, especially near airports
- Never fly at night or in the dark
- Never fly over groups of people, public events, or stadiums full of people
- Never fly near emergencies such as fires or hurricane recovery efforts
- Never fly under the influence of drugs or alcohol

## **FAA Guidelines for Educational Use \*Taken from FAA website**

FPS Utilizes Option 2, which does not require a Drone license for educational use.

### **Educational Users**

Be sure to download the [B4UFLY app](#) on your mobile device. This will assist you in being a responsible drone pilot.

## II. Telepresence Robots

Designed to “provide communication and remote representation for human operators, making them a potentially powerful tool for expanding access to K-12 Education.”

Cited (V. A. Newhart, M. Warschauer, and L. S. Sender. Virtual inclusion via telepresence robots in the classroom: An exploratory case study)

At times, it is beneficial for students to gain remote access into a classroom when for health or other official reasons the student cannot be physically present. Generally, telepresence looks similar to a tripod on wheels with a device, such as an iPad attached, and providing real-time access to the classroom for a child who may be in the hospital. The iPad projects the student's face to the classroom and the student can see the classroom.

When robotic access is utilized at school, the following guidelines should be implemented.

Robotic Access Defined:

- a. Permission from the Headmaster or Principal should be requested before implementing Telepresence.
- b. In the elementary classroom, all parents in the homeroom should be notified that telepresence has been requested by a family and that the robot will begin on a particular date.
- c. Parents who are concerned about telepresence and their child's participation in a classroom utilizing this technology may request that the robot in question have as little interaction as possible with their child. There is no guarantee that a child in a hospital room accessing a classroom does not have another adult sitting in the room with them, which does provide access inside the classroom.



- d. A schedule should be created which lets all parties know the exact times which telepresence will be occurring in the classroom.
- e. In secondary classrooms a notice should go home through IC to those classrooms where a student is utilizing telepresence.

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