

IS 709/809: Computational Methods in IS Research

Safety Protocols for Flying Drones
Fall 2021

Federal Aviation Administration Guidelines

- Educational Users
 - Drones for Education
 - Drones (and model aircraft) are great tools for use in education.
 - If you are a teacher or a student looking to bring drones into your curriculum, here are a few things you should know before you get started
- Know the rules
 - The rules for flying drones are based on the purpose of the operation.
 - There are a few options for flying for educational purposes. Learn more about which rules apply to your operation
 - https://www.faa.gov/uas/educational_users/
- How to Fly Your Drone Recreationally
 - <https://www.youtube.com/watch?v=CUCB5qyl6jM>

Safety Guidelines

- **Please read this policy carefully.**
- This drone can inflict serious bodily harm. You should treat it as you would a dangerous chemical or heavy equipment such as a lathe. It can move very quickly; faster than if you dropped it from a 3-story building. It is your responsibility to learn and apply all safety guidelines and rules in order to keep yourself and everyone around you safe when operating the drone.
 1. You agree to follow all guidelines on the [FAA Website](#).
 2. If your drone injures a person or damages any property, you will be held responsible, **whether or not you are present**.
 3. If you are flying a drone that injures a person or damages any property, you will also be held responsible.
 4. If you are not following guidelines from the course staff, you will be held responsible for any damage or injury.
 5. I agree that all observers and participants will wear safety glasses.

Safety Tips

- Make yourself aware of issues
 - Don't charge batteries unattended
 - Ensure people, animal, property, etc. around you.
 - Stick to Drone's safety guidelines
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- Wear safety glasses all the time
 - Always fly with wheels installed
 - Only fly indoors, open area $>10' \times 10'$ over non-glossy floor
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- Always test a new program
 - Stick to software safety procedures
 - Be smart!

Safety Measures

- Never allow your drone to fly outside visual sightlines
- Do not fly over groups of people, stadiums or within five miles of an airport
- Never fly near emergency response sites
- Do not fly near other aircraft
- Never fly under the influence
- Wear the safety glasses

References

- <https://www.faa.gov/uas/>
- https://www.faa.gov/uas/getting_started/
- https://www.faa.gov/uas/educational_users/
- <https://cs.brown.edu/courses/cs1951r/>
- <https://drones.princeton.edu/learn-more/general-safety-guidelines>