









Commercial: Part 107

Step 1: Learn the Rules

- Under 55 pounds
 Visual line-of-sight only
 Not over people or under covered Not over people or under covered structures
 Daylight only
 Under 100 mph
 Under 400 feet from ground (or structure)

- Airspace restrictionsOnly fly in the United States

Step 3: Register Drone with FAA



Commercial: Part 107 Waiver		
want to	Part 107 regulation you need a waiver from	
ly a UAS from a moving aircraft or a vehicle populated areas	§ 107.25 – Operation from a Moving Vehicle or Aircraft	How to get a waiver: (1) Call us (2) Determine needs (3) Complete application (4) Submit in FAA's Drone 3 (5) Wait 90 days
Fly a UAS at night	§ 107.29 – Daylight Operations	
Fity a UAS beyond your ability to clearly determine its orientation with unaided vision	§ 107.31 – Visual Line of Sight Aircraft Operation	
User a visual observer without following all visual observer requirements	§ 107.33 – Visual Observer	
Fly multiple UAS with only 1 remote pilot	§ 107.35 – Operation of Multiple Small UAS	
Fly a UAS without having to give way to other aircraft	§ 107.37(a) – Yielding Right of Way	
Fly a UAS over a person/people	§ 107.39 – Operation Over People	
Fly a UAS: Over 100 miles per hour groundspeed Over 400 feet above ground level (AGL) With less than 3 statute miles of visibility Within 500 feet vertically or 2000 feet	§ 107.51 – Operating limitations for Small Unmanned Aircraft	

Commercial: Part 107 (Non-Waiver) Not all of the Part 107 Regulations can be waived... ne waived... Operations from a moving aircraft, vehicle, or boat while carrying property of another on the drone. Beyond visual-line-of-sight while carrying property of another. 55 pounds of heavier. Carrying hazardous materials But... for advanced operations, outside of the Part 107 Waiver, you can apply for Special Authority or Blanket COA or a Public Certificate of Authorization (COA)

Special Authority under § 44807 (formerly Section 333 Exemption)



- Initial skill test must have airman's certificate (i.e. a pilot's license).
- Medical Certificate fitness test for drone pilots.
- 2:1 person to drone ratio to fly
- Daytime operations.

- Visual Line of Sight
 Processing Time up to 6 months
 Drones weighing more than 55
 pounds must receive Special Authority or COA.

Public Safety & Governmental Use (COA)

49 U.S.C. 41025(a)(2): "Governmental Function"

- non-commercial/no compensation
 national defense

 - · intelligence missions
 - firefighting, search and rescue
 law enforcement
 aeronautical research

 - · biological or geological resource management
- "closely related activities"

 note: the FAA has rejected educational and agricultural research and extension activities by public universities as not falling within the COAeligible "governmental functions"

Educational Use



Informal Guidance from

FAA Memo (2016)
• Limitation for faculty

and research

The Reauthorization Act of

· Expanded use for drones the in classroom or drone training programs

(1) Fly under the Part 107 sUAS Rules (or with a

waiver); - Learn Rules, Pass Drone Test, Register
(2) Fly as a "recreation or hobby" user

Hobby or Recreational Use

Step 1: Register and Mark Drone

Step 2: Know the Rules

- tep 2: Know the Rules
 Only for fun
 Follow safety guidelines
 Below 400 feet
 Visual Line of Sight
 Avoid: Aircrafts, people, public events, stadiums, emergency response efforts
 B4UFLY App

Step 3: (future) Safety Test

Reauthorization Act of 2018 requires drone operators to pass an online knowledge and safety test and carry proof of test passage



Privacy & Other Considerations (North Carolina)

Knowledge Test (all) and Permit (commercial)

Surveillance -- Illegal to use UAS to take or distribute images of a person or their home without their consent (NCGS 15A-300.1; NCGS 14-401.25)

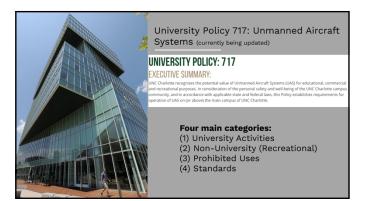
Weapons -- Attaching a weapon to a UAS is a Class E felony (NCGS 14-401.24)

Hunting and Fishing -- Operators may not use a UAS to disrupt wildlife resources or the lawful taking of wildlife. Illegal to use a UAS in the process of taking wildlife resources (N.C. G.S. 113.295)

Interference with Manned Flights -- Operators may not damage, disrupt the operation of or otherwise interfere with manned flights (N.C. G.S. 14-280.3).

Launch & Recovery Sites -- It is illegal to launch or recover a UAS from either private or state property without the consent of the property's owner (N.C. G.S. 15A-300.2). Local and federal property have their own laws and regulations governing the launch and recovery of UAS.

Prisons -- Illegal to fly over any prison - state or federal - in North Carolina (N.C. G.S. 15A-300.3).



University Activities

- UAS Flight Notification
- Safety Risk Assessment
- Reporting Incidents & Accidents
- Non-University Property
- Insurance



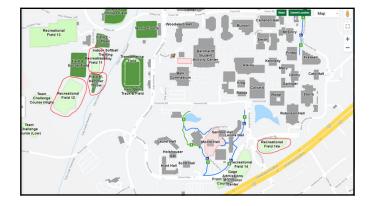
HOBBY AND RECREATIONAL USE: UAV/DRONE FLIGHT INFORMATION FORM UAV/Drone Flight Information Form https://webforms.uncc.edu/risk-management-insurance/hobby-and-recreational-use-uavdrone-flight-information-form

Non-University

(Hobby/Recreational)

- Three Days Notice
 Name of pilot
 Type of UAS
 Flight information
 Participants involved
 - Other information as requested
- · Recommended Locations
 - Rec Fields • Athletic Field 5
- Pictures and Videos
 - · University Communications





Prohibited Uses & Exceptions



- Jerry Richardson Stadium during events
- In or near residence halls
- · Sensitive or personal space
- · Events with minors

Standards (new Policy draft)

- No flying over peopleNo flying above 400 feet

- No flying at night
 No flying in unsafe manner
 No flying outside visual line of sight
 No flying under the influence of alcohol or

- No flying drider the interest.
 No flying in a manner that interferes with air traffic
 No flying close to other aircraft
 No photography of spaces where an individual has an expectation of privacy

