

Rules/customs/ attributes	STM	ATM	UTM	Roads	Waterways	Hiking trails
Licensure and registration	Some national regulations (mostly for launch, radio frequency, etc.)	National (FAA) (including physical fitness and medical requirements)	Licensure needed for commercial drone flights, not for recreational. FAA registration for all.	States issue driver's licenses for cars, trucks; cars and trucks must be registered; also international driver's licenses.	National (USCG issues for commercial captains); None for recreational. Some physical fitness requirements for commercial crews and divers.	Not Applicable.
Least vs. most maneuverable/right of way	Debris and most cubesats (and vast majority of space objects) aren't maneuverable	Balloons > gliders > powered aircraft	Piloted vehicles>drones	Cars > bicycles > pedestrians at intersections	Sailboat > powered vessel; least maneuverable vessel has right of way	Yield to natural obstacles (moose, rocks, etc.)
Removal of hazards	T.B.D.	N.A.	Responsibility of local jurisdiction	Responsibility of local jurisdiction	Accepted best practice is for the owner to remove a wreck. Failing that, a nation should remove a derelict ship from its territorial waters.	Accomplished by the park service
Right of way when two vehicles approach head-on	Generally defer to maneuverability. (although the operational and	Each plane should veer to the right	T.B.D.	If it's a one-lane road, common sense and prudence prevail	Each boat should veer to the right	N.A.

	mission cost can vary widely for different satellites)					
Filing travel plans	Orbit insertion and target orbit plans are part of licensing process. Owner/operators encouraged to note planned maneuvers through space-track.org.	Commercial (IFR) pilots must file with FAA/ICAO. G.A. (VFR) pilots encouraged to file.	Commercial drone operators must file to fly in the national airspace system	Not required.	Yes, commercial voyage plans, including approved shipping lanes	Good practice to tell someone before you go; sometimes required in national parks
Restricted zones	Space is not a sovereign territory. Restriction implies ownership. Laser clearinghouse	Yes permanent, temporary, (e.g.: nuclear plants, military bases); NOTAMS; may have altitude boundaries	Drones have to stay 5 miles away from airports, fly below 400 feet.	Some private property. Temporary weather restrictions (road closures).	Avoid gov't vessels and restricted areas (e.g.: national marine sanctuaries). Harbors include depth restrictions and designated passage routes.	Some private property. Temporary weather restrictions (trail closures).
Automation	Depends. Some "megaconstellations" are highly autonomous.	Autopilot; collision avoidance systems (CAS); instrument navigation for poor weather.	Envisioned system with digital sharing of flight plans. Piloted planes > drones. Some military drones such as Global Hawk are fully autonomous.	Some driverless vehicles. CAS such as automatic braking to prevent tailgating, blind spot warning systems before changing lanes, etc. Timing of traffic lights based on traffic.	Electronic navigation in poor weather on larger ships	N.A.
Slower vs. Faster Passage	N.A.	ATC separates aircraft	T.B.D.	Faster vehicles on the left, slower on the right.	When a boat overtakes another, the	Metro escalator riders stand to

		based on capability		Speed limits usually local/state.	front one has right of way. Harbor speed limits, etc.	the right, walk up on left
Unique identifier – remote or not	COSPAR numbers, LeoLabs IDs, etc. Proposed ELROI “license plate” system (remote).	“Tail numbers” and ADS-B (remote). Mode C transponders .	FAA plans to mandate remote ID for virtually all drones > ~8 ounces	License plates and VINs. On-Star and similar location systems.	Unique vessel identifiers; search and rescue transponders.	Search and rescue transponders (personal locator beacons).
Vehicle worthiness	Covered by licensing process. Insurance underwriting can also be a factor.	FAA and similar national organizations determine airworthiness for planes and can rescind certificates for individual planes or models.	Manufacturers ensure worthiness; Recreational drones do not require worthiness inspections	Car safety inspections, smog inspections. Manufacturers’ recalls can affect entire fleets.	Requirements for commercial and large private vessels. US Coast Guard is analogous to FAA for boats.	Common sense...
Visibility/ability to cloak electronically	FCC wants satellites to be trackable.	Transponders. Use of lights dusk to dawn	Not allowed to fly beyond line of sight	Use lights when dark/with windshield wipers	Use lights when dark; AIS	Use reflective vests