



UAS4STEM

WHAT IS UAS4STEM?

UAS4STEM is a drone engineering challenge like no other! Teams build and maintain a custom drone to specifications, learn how to fly, and program for autonomous flight.

Beginner division teams complete a UAS4STEM virtual ground school course to learn the basics of safe and legal drone operations. Beginner teams focus on learning to fly missions using ArduPilot Mission Planner software. The scored competition for the Beginner division is conducted virtually. New teams are encouraged to start in the Beginner division, but may opt for Intermediate division based on their experience.

Intermediate and **Advanced** divisions complete a ground school course that prepares them to earn the FAA Remote Pilot Certificate. These teams conduct search missions and design and fabricate a mechanism for the drone to complete specific tasks. A virtual preliminary competition for these two divisions takes place in April, from which the top-scoring teams are invited to the championship competition at the world's largest airshow, EAA AirVenture Oshkosh, Wisconsin, at the end of July.



BEGINNER

1st place: **\$995**
2nd place: **\$895**
3rd place: **\$795**

Beginner division awards are provided as a voucher for the next seasons competition.

INTERMEDIATE

1st place:
\$1500 + Skydio2+
2nd place: **\$1300**
3rd place: **\$1100**

ADVANCED

1st place:
\$2500 + Skydio2+
2nd place:
\$2000 + Skydio2+
3rd place: **\$1500**

	Beginner	Intermediate	Advanced
Registration fee	\$995	\$1,495	\$1,495
Foundational virtual ground school	☑	☑	☑
Additional ground school modules to prepare for FAA Remote Pilot Certificate		☑	☑
Build and/or maintain a drone	☑	☑	☑
Flight Readiness Review presentation	☑	☑	☑
Create a video		☑	☑
Use ArduPilot Mission Planner for autonomous flight	☑	☑	☑
Fly a waypoint mission	☑	☑	
Conduct a visual search mission with camera		☑	☑
Install/operate a mechanism on the drone		☑	☑
Deliver an object		☑	☑
Pick up and deliver objects			☑
Virtual competition	Late May	Late April	Late April
In-person competition at AirVenture (top teams)		☑	☑



EMAIL US FOR MORE INFORMATION!

AMAUAS4STEM@MODELAIRCRAFT.ORG

SUPPORTED BY

SIMNET



WWW.UAS4STEM.ORG