

## DEVELOPING THE NEXT GENERATION OF AVIATION PROFESSIONALS

In partnership with experienced educators, curriculum developers, and aviation experts, the Aircraft Owners and Pilots Association (AOPA) is building aviation STEM curriculum for high schools nationwide. The curriculum will be the first of their kind, offering students comprehensive four-year aviation study options that fit within career and technical education pathways.

### More About You Can Fly, Powered by AOPA

The AOPA High School Aviation Initiative is part of AOPA's You Can Fly program, which was created to bring more people into aviation. By educating high school students about aviation career opportunities, helping lapsed pilots return to flying, reducing the cost of flying, and building the aviation community, You Can Fly is helping people of all ages get involved with aviation.

With hundreds of thousands of members spanning 75 countries, AOPA represents the world's largest community of aviators. It's our goal to put the sky within reach of everyone who dreams of flying.

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# AOPA's High School Aviation STEM Curriculum



HIGH SCHOOLS  
POWERED BY AOPA

you can **fly**

[youcanfly.aopa.org/high-school](http://youcanfly.aopa.org/high-school)



## HIGH SCHOOL AVIATION CURRICULUM

Shortages of aviation professionals mean exceptional opportunities for students. Boeing estimates that by 2035, North America alone will need 112,000 new pilots and 127,000 new aviation technicians. The AOPA aviation curriculum can help you prepare your students for careers in these and other in-demand aviation fields.

Participating schools can choose from three study pathways, designed to help prepare students for a future in flying, aerospace engineering, and unmanned

aircraft systems/drones. Each pathway will provide specialized classes for students in ninth through twelfth grades and will prepare students to gain an industry credential.

Ninth-grade level courses in all three pathways will be available for the 2018-19 school year. Tenth grade courses will be available the following year, with another grade level becoming available each year through the 2021-22 school year. To help teachers make the most of each new course level, professional development opportunities will be available in the summer prior to each course release.

**Thanks to generous donations to the AOPA Foundation, the curriculum will be offered free to high schools across the U.S.**

## PATHWAYS

### Pilot

Students will find out what it takes to become a pilot as they develop their critical thinking, problem solving, leadership, and communication skills. Students on the pilot pathway will also learn the ground school essentials needed to pass the Federal Aviation Administration's private pilot written test.

### Aerospace Engineering

Aerodynamics, flight dynamics, and aircraft design are just a few of the concepts students will learn about as they follow the aerospace engineering pathway. Students will complete the program with a solid foundation for pursuing advanced education in aerospace engineering.

### Unmanned Aircraft Systems/Drones

This emerging technology is quickly becoming useful in the fields of agriculture, commerce, science, and much more. Students on the UAS/drone pathway will gain knowledge about the fundamentals of flight, the safe operation of unmanned aircraft, and the rapidly expanding applications for drones.

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