

AOPA

UNITED CHRISTIAN ACADEMY PARTICIPATES IN A NATIONWIDE CURRICULUM SPONSORED BY THE AIRCRAFT OWNERS AND PILOTS ASSOCIATION. AOPA IS THE LARGEST ORGANIZATION OF PILOTS AND AIRCRAFT OWNERS IN THE WORLD.

STEM

THE AVIATION PROGRAM AT UNITED CHRISTIAN ACADEMY ISN'T JUST FOR FUTURE PILOTS. STUDENTS WILL EXPERIENCE A HANDS-ON STEM PROGRAM THAT WILL REINFORCE MATH, SCIENCE, TECHNOLOGY, AND ENGINEERING CLASSES.

LABS

WE HAVE AN AVIATION LAB THAT INCLUDES THREE FLIGHT SIMULATORS, A WIND TUNNEL, DRONES, AND A 3D PRINTER TO BUILD AND TEST AIRFOILS.

LICENSE

STUDENTS WILL HAVE THE OPPORTUNITY TO OBTAIN A PRIVATE PILOT LICENSE BEFORE GRADUATING FROM HIGH SCHOOL, AND THEY MAY CHOOSE TO OBTAIN A HEAD START ON A CAREER IN AVIATION BY TAKING ACCREDITED ONLINE COLLEGE COURSES.

AOPA PROGRAM SUCCESS

The aviation curriculum is sponsored by AOPA. The AOPA has over 400,000 members representing 75 countries. The "You can Fly" program is a four year curriculum offered to students in grades 9-12. Today the curriculum is being taught in over 500 schools nationwide! UCA began its participation in this aviation curriculum in the 2017/18 school year as one of only 67 schools participating nationwide!

SCHOLARSHIPS

UCA has been fortunate to have two students become recipients of generous scholarships. Maddie Skatrud received an AOPA flight scholarship worth \$10,000. Ana Paulson is our fifth pilot in training and received the Ray Aviation Scholarship through EAA (Experimental Aircraft Association).



ALUMNI

Jordan Grover enrolled in the flight school following her initial Discovery Flight. She soloed before school ended in May and finished her private pilot checkride in the Fall of her senior year.

Drew Emberland finished his private pilot certificate before enrolling in the aviation program at Minnesota State University, Mankato.

Maddie Skatrud received an AOPA flight scholarship worth \$10,000 and is now attending North Dakota State University as an aviation student.



UNITED
CHRISTIAN ACADEMY



GENE POOLE

A GREAT PARTNERSHIP



All of our students receive an initial Discovery flight at AV8 flight school, located at Flying Cloud Airport in Eden Prairie, MN.

FLY

AVIATION I

This introductory course will provide the foundation for advanced exploration in the areas of flying and Unmanned Aircraft Systems (UAS). Students will learn about the engineering process, problem solving, and the history that made today's aviation and aerospace industries possible. Students will be introduced to the resources available in the aviation labs such as wind tunnels and flight simulators.

AVIATION II

This course will allow students to take a closer look at the aircraft they may one day operate. Students will explore the types of aircraft in use today, understand their design, how they are made, and how they fly. Identifying and recognizing the parts, controls, and construction of the aircraft will help students gain an in-depth understanding of the forces of flight-lift, weights, thrust, and drag. Application of what they are learning will help them solve key calculations. Throughout the course, students will complete hands-on activities including designing and testing airfoils using our 3D printer, as well as making hot air balloons.

AVIATION III

In aviation III, the topics covered are designed to help prepare students for the FAA private pilot written exam. Topics covered include: aircraft pilot qualifications, principles of flight, aerodynamics, flight maneuvers and spin awareness, pre and post-flight procedures, airport operations, weather, aircraft systems, weights and balance, human factors, cockpit management, emergency procedures, night operations, aeronautical decision making, cross-country flight planning, and airspace. Students will perform hands-on activities with the flight simulators, and have opportunities to fly with AV8.

"I've always had a love for airplanes and the aerospace industry, which was sparked by watching the Americans' journey to the moon when I was a child. After high school I enlisted in the Air Force, then proceeded to work at the NASA Langley Research Center in my graduate years."

"The 2022/23 school year will be my 5th year teaching aviation at UCA. I enjoy the hands-on nature of this curriculum, watching the students working on aviation related projects and eventually taking their first flight."

"My dad was a pastor for 60 plus years and I have many memories of him praying and speaking about Ephesians 3:20. 'Now to Him who is able to do abundantly more than all you ask or think....' I believe this aviation program has been an unexpected blessing to UCA and I am grateful to be part of it."



"UCA Aviation courses cover everything you will need to know in ground school to prepare you for the private pilot exam."

"The best thing about taking flying lessons is seeing your own progression. Getting to see how far I have come in three years is crazy."

- Ana Paulson



UCA