

DATE: Saturday • Aug. 3rd, 2024
LOCATION: MacAir Aviation

LOCATED IN: Greene County
 Lewis A. Jackson Regional Airport

COST: \$249
INCLUDES PILOTING AN AIRPLANE!

Module Descriptions

“Unlocking Flight Propulsion”

Aircraft Engine and Exhaust Systems

EXPLORE THE CONNECTION OF MECHANICS IN AVIATION HANDS-ON DISSECTING THE VARIOUS AIRCRAFT MECHANICAL SYSTEMS

Students will immerse themselves in the fascinating world of aircraft mechanics. This hands-on experience allows participants to delve into the intricate mechanical systems that power an aircraft. Students will take apart and reassemble a small engine, gaining a comprehensive understanding of its components and how they work together to ensure efficient operation. This module offers a unique opportunity to explore the principles of engine functionality and exhaust systems. Get ready to unleash your mechanical mastery and discover the inner workings of aircraft engines!

“Mission Mastery”

UAS Mission Planning

EXPLORE USING UNMANNED AERIAL SYSTEMS (UAS) TO LAUNCH YOUR MISSION

Embark on this module for an immersive experience with Unmanned Aerial Systems (UAS). Discover real-world applications of drones in aviation, engineering, and transportation fields. Engage directly in your own UAS Mission by going through the planning, coding, and flying process. Gain practical skills and insight into how UAS technology is transforming various industries, and learn to execute missions with precision and creativity.

“Prepare for Takeoff”

Flight Planning and Navigation

INVESTIGATE FLIGHT SYSTEMS, NAVIGATION PRINCIPLES, AND DECODE SECTIONAL CHARTS

Prepare for takeoff! Students will gain hands-on experience by conducting a thorough pre-flight inspection of an aircraft. This immersive activity will involve investigating and understanding the critical control systems and surfaces that ensure a safe and successful flight. Students will delve into the principles of the physics of flight during this walkthrough, gaining a deeper appreciation for the mechanics behind aviation. Additionally, students will learn how pilots navigate using sectional charts, decoding the symbols to compare them with real-world observations during their flight. This module offers a comprehensive introduction to flight systems and navigation, equipping students with essential knowledge and practical skills in aviation.

“Take to the Skies”

Flight Engineering

PILOT AN AIRCRAFT UNDER THE DIRECTION OF AN FAA CERTIFIED FLIGHT INSTRUCTOR

Experience the exhilaration of flight firsthand as students command from the pilot seat under the expert guidance of an FAA Certified Flight Instructor. Explore the physics of flight, feeling the forces of lift, thrust, and drag come alive as you soar through the skies. Get ready to spread your wings and discover the magic of aviation like never before!

ABOVE ALL,
IT'S FUN!

PARTICIPANTS WILL RECEIVE LUNCH, A T-SHIRT, AND SO MUCH MORE!

