



## AOPA/TANGO HIGH SCHOOL AVIATION STEM CURRICULUM

### Aviation High School STEM Core Courses

- Launching into Aviation
- Exploring Aviation & Aerospace
- Introduction to Flight
- Aircraft Systems & Performance
- The Flying Environment
- Pilot Ground School
- Flight Simulator

### Aviation High School STEM Career Pathways

- Pilot Pathway** – (1) Flight Planning (2) Preflight Your Career (3) Pilot Capstone Experience
- UAS (Unmanned Aircraft Systems (Drones) Pathway** – (1) UAS Operations (2) A World of UAS (3) UAS Pathway Capstone Experience
- Tango Aircraft Engineering Pathway** – (1) Aerospace Focused Stem 2-year Course (2) Aircraft Construction Build 2-year Course
- Aircraft Maintenance Professional (AMP) Pathway** – (1) Airframe and Powerplant (2) MSG-3 Approach & CAME (3) Aircraft Planning Data & Maintenance Program Design
- Airport Management Pathway** – (1) Ground Logistics (2) Aviation Operations, (3) Business of the Aviation Industry
- FAA Flight Controller Pathway** – (1) Air Traffic Control (2) Aviation Operations Management (3) Aviation Policy & Safety

### Curriculum (30 Credits - with the possibility for 60 Dual-Credit Hours)

- Year 1: Launching into Aviation; Exploring Aviation & Aerospace; Algebra I/Geometry Combo Course; Biology; World Geography; Elective (Foreign Language recommended); English I; Kinesiology
- Year 2: Introduction to Flight; Aircraft Systems & Performance; Algebra II/Precalculus Combo Course; Chemistry; World History; Elective (Foreign Language recommended); English II; Kinesiology
- Year 3: The Flying Environment; Aviation Pathway A(1), B(1), C(1&2), D(1), E(1) or F(1); U.S History; Trigonometry; Pilot Ground School; English III; Physics
- Year 4: Aviation Pathway A(2&3), B(2&3), C(1&2), D(2&3), E(2&3) or F(2&3); Public Speaking; U.S. Government/Economics; English IV; Flight Simulator; Meteorology