

## **Aviation Careers II**

Career Cluster	STEM
Course Code	20057
Prerequisite(s)	Aviation Careers 1
Credit	.5 or 1
Program of Study and	Foundation Courses, Cluster Courses, Pathway Courses, Capstone Experiences
Sequence	
Student Organization	Skills USA
Coordinating Work-Based	local airports, Fixed Base Operators, National Guard, Civil Air Patrol, Experimental Aircraft
Learning	Association
Industry Certifications	Private Pilot or Part 107 - Drone Certifications
Dual Credit or Dual	TBD
Enrollment	
Teacher Certification	STEM Cluster Endorsement; Aviation Pathway Endorsement; 7-12 Technology Education Endorsement
Resources	https://www.faa.gov/education/
	https://www.faa.gov/education/educator_resources/curriculum/high_school/
	https://www.osha.gov/SLTC/airline_industry/
	https://youcanfly.aopa.org/high-school/high-school-curriculum
	https://www.faa.gov/regulations_policies/handbooks_manuals/aviation/phak/

**Course Description:** This course provides students with the final step towards a Private Pilot's license or Part 107 - Drone Certification. Students will learn about the flight environment, weather in aviation, airports, navigation/aeronautical charts, aircraft performance, flight medical issues, possible career paths within the aviation industry, and Federal Aviation Agency regulations.

## **Program of Study Application**

Aviation is a pathway course in the aviation pathway. Students in this pathway would generally complete foundation courses and one of the STEM cluster courses prior to participating in aviation.

Course: Aviation Careers II

## **Course Standards**

Webb Level	Sub-indicator	Integrated Content
Level 3: Strategic	AVC-2 1.1 Utilize the parts and control surfaces on an	
Thinking	aircraft in flight	
Level 3: Strategic Thinking	AVC-2 1.2 Utilize the four forces of flight	
Level 4: Extended Thinking	AVC-2 1.3 Utilize aerodynamics in flight	
Level 3: Strategic	AVC-2 1.4 Implement airplane stability while in flight	
Thinking		
Thinking	perating in a safe flight environment  Sub-indicator	Integrated Content
Thinking  Indicator # AVC-2 2 O  Webb Level  Level 3: Strategic	perating in a safe flight environment	Integrated Content
Thinking  Indicator # AVC-2 2 O  Webb Level  Level 3: Strategic  Thinking	perating in a safe flight environment  Sub-indicator	Integrated Content
Thinking  Indicator # AVC-2 2 O  Webb Level  Level 3: Strategic	perating in a safe flight environment  Sub-indicator  AVC-2 2.1 Practice air safety	Integrated Content
Thinking  Indicator # AVC-2 2 O  Webb Level  Level 3: Strategic  Thinking  Level 3: Strategic	perating in a safe flight environment  Sub-indicator  AVC-2 2.1 Practice air safety	Integrated Content
Thinking  Indicator # AVC-2 2 O  Webb Level  Level 3: Strategic  Thinking  Level 3: Strategic  Thinking	perating in a safe flight environment  Sub-indicator  AVC-2 2.1 Practice air safety  AVC-2 2.2 Implement proper procedures at the airport	Integrated Content

Course: Aviation Careers II

Webb Level	Sub-indicator	Integrated Content
Level 3: Strategic Thinking	AVC-2 3.1 Implement proper use of aircraft instruments	
Level 3: Strategic Thinking	AVC-2 3.2 Implement proper use of aircraft systems	
Level 3: Strategic Thinking	AVC-2 3.3 Evaluate and respond to aircraft performance during flight	
Level 3: Strategic Thinking	AVC-2 3.4 Calculate weight and balance	
Indicator # AVC-2 4 Util	ize the relationships between weather and flight for safety	
		Integrated Content
Webb Level Level 3: Strategic	ize the relationships between weather and flight for safety  Sub-indicator  AVC-2 4.1 Apply basic weather theory to flights	Integrated Content
Webb Level	Sub-indicator	Integrated Content
Webb Level Level 3: Strategic Thinking	Sub-indicator  AVC-2 4.1 Apply basic weather theory to flights	Integrated Content
Webb Level Level 3: Strategic Thinking Level 2: Skill/Concept Level 3: Strategic	Sub-indicator  AVC-2 4.1 Apply basic weather theory to flights  AVC-2 4.2 Describe weather patterns and clouds	Integrated Content

Course: Aviation Careers II

Indicator # AVC-2 5 Implement navigation in flight		
Webb Level	Sub-indicator	Integrated Content
Level 3: Strategic Thinking	AVC-2 5.1 Implement proper navigation skills	
Level 3: Strategic Thinking	AVC-2 5.2 Utilize dead-reckoning and pilotage	
Level 3: Strategic Thinking	AVC-2 5.3 Utilize a flight computer	
Level 3: Strategic Thinking	AVC-2 5.4 Utilize aeronautical charts	
Level 3: Strategic Thinking	AVC-2 2.4 Implementing proper radio communications	

Indicator # AVC-2 6 Understand aviation physiology		
Webb Level	Sub-indicator	Integrated Content
Level 3: Strategic AVC-2 6.1 Examine and understand the effect on the body		
Thinking	in the flight environment.	

Course: Aviation Careers II

Indicator # AVC-2 7 Understand FAA Regulations and Required Flight Paperwork		
Webb Level	Sub-indicator	Integrated Content
Level 3: Strategic Thinking	AVC-2 7.1 Examine and understand the current FAA regulations for flight	
Level 3: Strategic Thinking	AVC-2 7.2 Utilizing flight paperwork	

Indicator # AVC-2 8 Explore the multiple careers in aviation		
Webb Level	Sub-indicator	Integrated Content
Level 3: Strategic AVC-2 8.1 Investigate aviation career fields and		
Thinking	occupations.	