Aviation STEM Pathways Careers Program

The Infinity Aero Club Aviation STEM Pathways Careers Program is designed for students ranging from middle school to college, ages 12-22+ plus, who have an interest or passion for pursuing in-demand careers in aviation, aerospace, and STEM fields as an extracurricular activity or a dedicated career path.

Aviation STEM Pathways Careers Program	Dates	Ages	Times	Rates
Registration Fee (consultation)				$100
Lab & Equipment Fee (hourly and course base)				$25
Individual Tour & Lessons – A La Carte Aviation STEM Programs 30-60min Intro flight lesson ($99-$199), individual tour ($199),30min – Airplane Sim Flight Lessons ($99), Drone Sim & Flight Lessons ($99)	M/W/F T/TH/S*	5+	9-5pm	$99-$199
Group Tour & Lessons – A La Carte Aviation STEM Programs 30-60min Intro flight lesson ($99-$199), 5-10 group tours ($999-$1,999), 30min Airplane Sim Flight & Drone Sim & Flight Lessons	M/W/F T/TH/S*	5+	9-5pm	$99-$1999
Part I Recreational Drone Certificate Course (Beginner) Introduction, Theory, Flying, Drone Trust Certificate (4hrs) on-site	M/W/F T/TH/S*	12-18+	9-1pm 1-5pm	$350
Part II Drone Fly, Repair & Maintenance Course (Intermediate) Drone Flight Training, Repair, Service & Maintenance (4hrs) on-site	M/W/F T/TH/S*	14-21+	9-1pm 1-5pm	$350
Part III Drone Evolution and Opportunities Course (Intermediate) History, Industry, Career Opportunities, sUAS, eVTOL (4hrs) on-site	M/W/F T/TH/S*	16-21+	9-1pm 1-5pm	$350
Commercial Drone Remote Pilot Course (2hrs-virtual/on-site*) Instructor ($60hr), books, tech & lab cost included (20hrs) 4-8wks	M/W/F T/TH/S*	14+	9-5pm	$1,650
Drone Business 101 102 103 104 105 106 107 Courses (Advance) Bus Plan, Drone Industry, Equipment, Cinematography+ (4hrs) on-site	M/W/F T/TH/S*	16-21+	9-1pm 1-5pm	$350
Private Pilot Flight Sim Part 1&2 Course (2hrs-virtual/on-site*) Instructor ($60hr), books, tech & lab cost included (26hrs) 8-16wks	M/W/F T/TH/S*	12+	9-5pm	$3,395
Private Pilot Ground School Course (36hrs)+(4hrs) 8-16wks **Private Pilot Flight Part Course** (Solo-15hrs) (50hrs) 8-16wks Instructor ($60hr), books, tech & lab cost incl (2hrs-virtual/on-site*)	M/W/F T/TH/S*	15+	9-5pm	$2,400 $2,835 $9,450
Light Sport Repairman Maint. (LSRM) Course 15-Day 120hrs **Aviation Maintenance Tech (AMT) Course 18-30mos 531hrs** Instructor ($100hr) books tech & lab cost included (virtual/on-site*)	M/W/F T/TH/S*	16+	Sept 9-5pm	$12,000 $53,100
Aerospace Engineering Training Program 1-9 months Theory, Design & Build: sUAS, Ultra-light Aircraft*, Rocketry & CubeSats Instructor($100hr) books tech & lab cost included (90hrs) (on-site*)	M/W/F T/TH/S*	16+	Oct 9-5pm	$2,950-$8,750
Aviation Career STEM Camps (1wk: Holiday Break) (on-site*) Thanksgiving * Christmas * NewYear * Easter * Summer (40hrs) Remote Pilot Bootcamp* Aircraft Kit Build * Solo-Pilot * Drone Bus Plan	Fall/Winter Spring/Summer	14+	Nov 9-5pm	$999-$3,995

Recreational Drone Flyer Certificate Course Part I (Beginner)
This is part one of our three part series starting with the introductory level of theory and aerodynamics of flying a drone. This 4-hour training program, led by an experienced instructor, prepares students to earn their FAA-certified Recreational UAS Safety Test (TRUST) Certificate, a legal requirement for recreational drone flyers. The course covers essential topics such as drone flight principles, maintenance, troubleshooting, and flying a drone safely.

Drone Fly, Repair & Maintenance Course Part II (Intermediate)
This is the second course in our three-part drone series, offering 4 hours of in-person training. It is designed to be taken either before or alongside the FAA Commercial Part 107 Remote Pilot Drone Course for individuals looking to fly drones commercially. These advanced sessions cover intermediate and advanced concepts, with a focus on drone flight training, repair, service, and maintenance. The hands-on training provides flexible scheduling for both individuals and groups.

Drone Evolution and Opportunities Course Part III (Intermediate)
This is the third 4-hour course series of three that delves into the intermediate-level understanding of drone technology, exploring its historical evolution, current industry applications, and future opportunities. In addition to equipping participants with knowledge about career paths in drone technology, focusing on the growing sectors of sUAS and eVTOL.

Commercial Drone Remote Pilot Ground School Training Course
The Remote Pilot Training Program offers flexible options for both four-week and eight-week courses, virtual and in-person providing a total of 20 hours of comprehensive Commercial Drone training. Designed for students aged 14 and older, this program prepares participants to earn their FAA-certified Part 107 License through 16 hours of virtual instruction and 4 hours of review with an experienced drone instructor. Virtual classes offer the convenience of participating from anywhere, with flexible scheduling options tailored to fit the needs of individuals or groups. In addition to the core course, students can opt for intermediate Part II and Part III courses, which provides an additional 8 hours of direct learning through interactive in-person sessions. The curriculum thoroughly addresses all necessary regulations and operational training skills required to become fully certified commercial remote drone pilots.

Drone Business Courses (101-108): Advanced sUAS Training for Entrepreneurs & Professionals
The Drone Business Courses each provide 4-hours of advanced training for aspiring drone entrepreneurs and professionals looking to break into specialized industries with small-medium Unmanned Aircraft Systems (sUAS/UAS) and Fixed-Wing drones. These courses are designed to give participants comprehensive knowledge and practical skills to launch and grow their drone businesses or to offer specialized services in various fields. The courses cover essential topics such as business planning, industry-specific applications, equipment operation, and advanced mission planning:
   o DB101: Business Planning for Drone Entrepreneurs: sUAS/Fixed-Wing Focus
   o DB102: Industry & Career Opportunities in sUAS/Remote Pilot
   o DB103: Types and Uses of sUAS/Fixed-Wing Equipment
   o DB104: Cinematography with sUAS/Fixed-Wing Drones
   o DB105: Agriculture and Horticulture Mapping & Mission Planning with sUAS/Fixed-Wing
   o DB106: Construction, Site Surveying, and Field Mapping with sUAS/Fixed-Wing
   o DB107: Infrastructure Inspections of Cell Towers, Pipelines, Power Lines using sUAS/Fixed-Wing Drones
   o DB108: First Responder & Law Enforcement Support with sUAS/Fixed-Wing

Virtual Private Pilot Flight Training Program
The "Virtual" Private Pilot Certificate is designed for youth aged 12 and older who are eager to learn how to fly. Infinity Aero Club utilizes a Gleim Aviation-approved FAA-certified Basic Advanced Training Device (BATD), accessible online at the following link: (https://www.gleimaviation.com/shop/cockpitbatd/). Student pilots will complete 26 lessons in the FAA BATD airplane flight simulator, replicating the experience of being in an actual aircraft. All 26 lessons are conducted in person by an FAA certified flight instructor.

Private Pilot Ground School Training Course
The Private Pilot Ground School course is 36hrs and is designed for students aged 15 and older to fast track becoming a private pilot by passing the FAA knowledge test prior to completing flight training. 8-week and 16-week virtual or in-person course.

Private Pilot's License & Private Pilot Solo Flight Training Program
The FAA-certified Private Pilot program is designed for youth aged 15 and older (with 16 being the minimum age to solo and 17 to obtain a license). The Solo flight training is completed within 15 hours of flight training, and **students have the opportunity to fly solo** (per flight instructor discretion) while their instructor observes from the ground. By studying diligently and flying multiple times per week, students can complete this program in two to three months. A minimum of 40 flight hours is required, though the total hours needed may vary for each individual, with 40 to 60 hours being typical on a national level.

Light Sport Repairmen and Aviation Maintenance Training Program
These courses enable students to earn an FAA-certified Light Sport Repairman Certificate with a Maintenance Rating (LSRM), providing them with privileges similar to an Airframe and Powerplant (A&P) mechanic with Inspection Authorization (IA), but specifically for light sport aircraft. The "Aviation Maintenance Technician (AMT)" training program equips students to take the FAA A&P (Airframe and Powerplant) exam at age 18. In addition to online coursework, participants gain hands-on experience under the supervision of an FAA A&P-certified mechanic, completing the required 531.4 hours of On-the-Job Training (OJT). Per Part 65 regulations, A&P certification requires a minimum of 18 months of practical experience for a single rating and 30 months for dual ratings.

Aerospace Engineering Training Program
The Aerospace Engineering Training Program is an immersive educational experience tailored for teens and young adults aged 12-22+. This program provides a comprehensive, hands-on introduction to key disciplines in aircraft, aerospace, electrical, and mechanical engineering, utilizing a building block approach. Participants engage in a single, practical aircraft project, starting with theory, design and advancing to the construction, flight testing, and evaluation of sUAS, fixed-wing aircraft build, eVTOL, Rocketry and CubeSats. This project is carefully structured to develop essential skills in design, testing, evaluation, and construction, laying a strong foundation in both mechanical and aerospace engineering. The program serves as a crucial steppingstone for young learners aspiring to careers in aviation, aerospace, electrical, and mechanical engineering.

The Aviation STEM Pathways Career Camps

The Aviation Career STEM Camps, offered during holiday breaks like Thanksgiving, Christmas, New Year, Easter, and multiple sessions throughout the summer, provide students aged 12 and older with immersive training across various aviation disciplines through an intensive 1-week, 40-hour course. This program prepares participants for four specific courses:

1. **Remote Pilot Bootcamp** is a FAA-certified commercial drone piloting program preparing students in one week to achieve their FAA Commercial remote pilot license
2. **The Private Pilot Solo Flight Training** offers 15 hours of flight training with the opportunity to achieve solo flight under instructor supervision.
3. **The Aircraft Kit Build Program** prepares participants for careers in aerospace, electrical, and mechanical engineering, by offering a hands-on introduction to these fields through a structured project that guides them from design to flight testing,
4. **The Drone Business Bootcamp** is designed to equip participants with the essential components needed to start their own drone business with critical topics such as creating a company with a business plan template, legal considerations, market analysis, pricing strategies, and real world operational logistics, ensuring that participants are well-prepared to enter the drone industry as entrepreneurs.