

FLIGHT SCIENCE

FLIGHT SCIENCE (MAJOR #R.8502.AS) ASSOCIATE IN SCIENCE DEGREE

The Associate Degree in Flight Science is designed to provide students the knowledge, skills, and flight experience required to become certified commercial airplane pilots and flight instructors. Students will complete academic, simulator, and flight courses taught within the guidelines of the Federal Aviation Administration. Emphasis is placed on aeronautical decision making, flight safety, and effective teaching techniques. As courses within the degree are successfully completed, the student will earn the Private Pilot Certificate, Instrument Rating, Commercial Pilot Certificate, and Flight Instructor Certificate. Degree graduates will be ready to enter the aviation industry as commercial airplane pilots and flight instructors.

Program Learning Outcomes:

1. Apply situational awareness and decision making skills.
2. Demonstrate proficiency of take-offs, landings, and missed approaches.
3. Evaluate how day-to-day weather elements like clouds, wind, and rain affect flight operation and interpret graphic weather products such as surface analysis, weather depiction, and prognostic charts.
4. Exhibit proper emergency procedures decision-making skills.
5. Demonstrate flight proficiency during instrument approach procedures.
6. Effectively communicate with students while demonstrating proper coordination of flight controls.

Required Courses.....	32
FLGHT 101	Private Pilot 1 Ground School 3
FLGHT 105	Private Pilot 1 Flight Lab 1
FLGHT 106	Private Pilot 2 Flight Lab 1.5
FLGHT 107	Private Pilot 1 Simulation Lab 5
FLGHT 108	Private Pilot 2 Ground School 3
FLGHT 109	Private Pilot 2 Simulation Lab 5
FLGHT 111	Instrument Rating Ground School 4
FLGHT 113	Advanced Meteorology 2
FLGHT 115	Instrument Rating Flight Lab 2
FLGHT 117	Instrument Rating Simulation Lab 5

FLGHT 121	Commercial Pilot Ground School 4
FLGHT 125	Commercial Pilot 1 Flight Lab 2
FLGHT 126	Commercial Pilot 2 Flight Lab 2.5
FLGHT 131	Flight Instructor Ground School 4
FLGHT 135	Flight Instructor Flight Lab 1.5
General Education and Graduation Requirements	28-36
	Total Units 60-68

Advisor(s): Asman, Zielke

FLIGHT SCIENCE

Reedley College offers a complete program for professional pilot training, including ground school and flight lab courses. Simulation lab and ground school courses (academic classes) are taught at the Reedley College campus, in Reedley. The flight lab courses are conducted at Fresno Yosemite International Airport, 4955 E. Anderson Road, Suite 117, Fresno, CA 93727.

Instructors in the program are directly employed by Reedley College to teach all flight lab, simulation lab, and ground school courses. Flight lab courses are taught utilizing leased aircraft. All flight, simulation, and ground instruction is taught in compliance with Federal Aviation Regulations Part 61.

Each flight lab course has a specific amount of flight time and instructor time that each student must complete in order to fulfill the course's educational objectives. The amount of training time and the cost of each flight lab is set and cannot be changed based on student proficiency. All lab costs are mandatory and charged to all students enrolled in a particular course. Students must complete all flight time and instructor time listed in order to pass a flight lab course for college credit.

The FAA and the College have specific attendance policies for all flight lab, simulation lab, and ground school courses. A full description of the applicable attendance policies is available in the Reedley College Flight Science Program Handbook. Adherence to the published attendance policy is strictly monitored. Students entering the program must have at least 20 hours per week available (outside of other classes and travel time) to complete the flight lab courses. Flying on weekends will be required.

Enrollment in the flight lab courses requires the student to hold a valid 3rd Class (or higher) medical certificate from the FAA. It is strongly recommended that any student planning to become an airline pilot hold a 1st Class medical certificate prior to beginning the program. See the Program Handbook for more information.

Citizens of the United States must provide proof of eligibility to flight train in the U.S. by presenting either 1) an original birth certificate plus a valid government issued photo ID or 2) a valid U.S. passport. All original (no copies) of documents must be presented to the instructor no later than the first day of the flight lab class meeting. Citizens of other countries must be approved in advance by the Department of Transportation Security Administration. Documentation of TSA approval will also need to be verified by the instructor before the student can be admitted to the flight lab class. See the Program Handbook for more information.

The ground school, simulation lab, and flight lab courses must be taken in the required sequence. A student can expect to earn all the pilot certificates in six semesters. It is highly encouraged that every student take all applicable FLGHT courses in consecutive semesters (including the summer). Taking a semester "off" will reduce the student's flight proficiency and reduce the likelihood of the student passing the next flight lab course on the first attempt. Refer to the Program Handbook for information related to missing a semester and course repeats.

FLGHT lab costs are subject to change each semester and are published in the Schedule of Classes for each semester. Lab cost changes, should they be necessary, will be publicized and students already enrolled in the Flight Science program will be notified in a timely manner of any changes. Additional standard college fees (parking permits, health fee, etc.) apply to FLGHT students; those fees are itemized elsewhere in the college catalog.

Students are highly encouraged to contact the Reedley College Financial Aid office to apply for federal financial aid and any private financing applicable. Scholarships may be available for qualifying students.

Please consult the Reedley College Flight Science Program Handbook or contact flightscience@reedleycollege.edu or call (559) 638-0300 extension 3475 for any questions relating to this degree.

INSTRUCTIONAL FACILITIES

Qualified instructors are employed by Reedley College (RC) to provide instruction in all Flight Science courses, including ground school, simulation lab, and flight lab classes. Aircraft and airport facilities are leased to the College through a contractual arrangement.

Formal ground school courses and simulation labs are taught at the Reedley College campus. Flight lab courses are taught at the Fresno Yosemite International Airport.

INSTRUCTIONAL SCHEDULE

The schedule for flight lab courses complies with the College academic calendar. Flight training hours specified for each flight lab course must be logged by each student by the end of each term. Students will be given an Incomplete (I) grade if training is not complete before term end date. Students will follow RC Incomplete grade policy to complete all course work. For students qualifying for veteran's benefits, receiving an incomplete may jeopardize continued support and may result in the student owing unused funds back to the federal government. Please consult the Program Handbook and contact Reedley College's Financial Aid Department directly if you have questions.

STUDENTS QUALIFYING FOR VETERAN'S BENEFITS

Students in the Flight Science program qualifying for financial support through the U.S. Department of Veteran's Affairs (VA) are required to meet with Reedley College Financial Aid Certifying Official to review their status at the beginning and end of each term. The RC Certifying Official will request funds for flight training at the beginning of each semester. VA benefits are applicable only to the required and approved amount of flight hours; additional flight hours, over and above those needed to complete the degree and approved by the VA, must be paid for by the student. Any unused approved funding must be returned to the VA at the end of the term.

The U.S. Department of Veteran's Affairs will reimburse for flight training with the aircraft listed in the fee schedule below for each classes. VA beneficiaries choosing to utilize more expensive aircraft for training purposes for the same class will not be reimbursed by the VA for the more expensive aircraft. Similarly, the use of veteran education benefits are limited to the hours outlined in each course syllabus. Training expenses incurred beyond the assigned hours to complete a course are not approved for veteran educational benefits and therefore will be at the student's expense.

The number of students that may enter this program using VA benefits is limited each semester. This number may vary by semester and is based on current U.S. Department of Veteran's Affairs policies.

MISCELLANEOUS INFORMATION

Where not otherwise noted, Flight Science courses adhere to RC policy in regards to refunds, withdrawal, attendance, and academic progress.

HOURLY AIRCRAFT RATES; OTHER PROGRAM COSTS

The current costs associated with each course offered in the Flight Science Program at Reedley College are presented in the tables below. Flight Science program lab fees are subject to change each semester.

INSTRUCTORS AND COORDINATORS FOR FLIGHT SCIENCE

FLGHT Lab courses in which FAA flight time is provided will be taught by a Reedley College employee who holds a valid FAA Certified Flight Instructor Certificate.

FLGHT Ground School courses where FAA aeronautical knowledge is provided will be taught by a Reedley College employee who holds either a valid FAA Certified Flight Instructor Certificate or a valid Certified Ground Instructor Certificate.

FLGHT Courses that are not lab or ground schools may be taught by any normally-credentialed Aeronautics faculty.

Flight Science Degree Costs with Lab Costs for students under 220 lbs.

Students who weigh less than 220 lbs may use this cost table. Students who weigh over 220 lbs. and no more than 250 lbs. must use the Degree Costs for students over 220 lbs. Reedley College does not have aircraft with the capacity for students over 250 lbs.

COSTS 2019-2020

Flight courses with lab costs are listed below by course number and title. The Dual/Solo/AATD Simulator times for each course appear on the line immediately following the course title.

The enrollment fees and lab cost totals listed below represent the maximum VA reimbursement for each course. Enrollment fees are based on the number of credit hours attributed to each course. All costs below are mandatory for all students.

FLGHT courses not listed below (such as FLGHT 101, 102, 107, etc.) have standard enrollment fees of \$46/credit hour and no (zero) associated lab costs.

Hourly rates for aircraft, AATD, and CFIs for 2019-2020 academic year follow:

VFR Aircraft (Piper PA-38)	\$130.00
IFR Aircraft (Piper PA-28)	\$167.00
Complex Aircraft (Piper PA-28R)	\$199.00
AATD Simulator	\$85.00
Enrollment Fees per credit hour	\$46.00
Flight Instructor Costs per hour (all courses)	\$55.00

Enrollment fees and lab costs by course number:

FLGHT 105 PRIVATE PILOT FLIGHT

(Total Aircraft Hours: 30/Dual, 5/Solo, 0/AATD)

VFR Aircraft Cost (35 hrs)	\$4,550.00
Flight Instructor Cost (30 hrs flight + 17.5 pre/post = 49.5 hrs)	\$2,722.50
Total Flight Lab Costs	\$7,272.50
Enrollment Fee (1 credit)	\$46.00
Total covered by VA benefits	\$7,318.50

FLGHT 106 ADVANCED PRIVATE PILOT FLIGHT

(Total Aircraft Hours: 30/Dual, 7/Solo, 0/AATD)

VFR Aircraft Cost (35 hrs)	\$4,810.00
Flight Instructor Cost (30 hrs flight + 24.5 pre/post = 54.5 hrs)	\$2,997.50
Total Flight Lab Costs	\$7,807.50
Enrollment Fee (1.5 credits)	\$69.00
Total covered by VA benefits	\$7,876.50

FLGHT 115 INSTRUMENT PILOT FLIGHT

(Total Aircraft Hours: 30/Dual, 2/Solo, 20/AATD)

IFR Aircraft Cost (32 hrs)	\$5,344.00
AATD Cost (20 hrs)	\$1,700.00
Flight Instructor Cost (30 hrs flt + 30 pre/post + 20 AATD = 80 hrs)	\$4,400.00
Total Flight Lab Costs	\$11,444.00
Enrollment Fee (2 credits)	\$92.00
Total covered by VA benefits	\$11,536.00

FLGHT 125 COMMERCIAL PILOT FLIGHT

(Total Aircraft Hours: 15/Dual, 50/Solo, 0/AATD)

VFR Aircraft Cost (65 hrs)	\$8,450.00
Flight Instructor Cost (15 hrs flight + 11 pre/post = 26 hrs)	\$1,430.00
Total Flight Lab Costs	\$9,880.00
Enrollment Fee (2 credits)	\$92.00
Total covered by VA benefits	\$9,972.00

FLIGHT 126 ADVANCED COMMERCIAL PILOT FLIGHT

(Total Aircraft Hours: 30/Dual VFR, 25/Solo, 10/Dual Complex, 0/AATD)

VFR Aircraft Cost (55 hrs)	\$7,150.00
Complex Aircraft Cost (10 hrs)	\$1,990.00
Flight Instructor Cost (40 hrs flt + 29 pre/post = 69 hrs)	\$3,795.00
Total Flight Lab Costs	\$12,935.00
Enrollment Fee (2.5 credits)	\$115.00
Total covered by VA benefits	\$13,050.00

FLIGHT 135 FLIGHT INSTRUCTOR FLIGHT

(Total Aircraft Hours: 24/Dual, 2/Solo, 0/AATD)

VFR Aircraft Cost (26 hrs)	\$3,380.00
Flight Instructor Cost (24 hrs flt + 25 pre/post = 49 hrs)	\$2,695.00
Total Flight Lab Costs	\$6,075.00
Enrollment Fee (1.5 credits)	\$69.00
Total covered by VA benefits	\$6,144.00

Flight Science Degree Courses with Lab Costs for students over 220 lbs. and under 250 lbs.

Reedley College does not have aircraft with the capacity for students over 250 lbs. Students under 220 lbs. may use the Degree Cost Table for under 220 lbs.

COSTS 2019-2020

Flight courses with lab costs are listed below by course number and title. The Dual/Solo/AATD Simulator times for each course appear on the line immediately following the course title.

The enrollment fees and lab cost totals listed below represent the maximum VA reimbursement for each course. Enrollment fees are based on the number of credit hours attributed to each course. Extra costs for substituting the IFR Aircraft (PA-28) for the VFR Aircraft (PA-38) to allow student weights of 220-250 lbs., are NOT covered by VA benefits and are listed separately for each course where applicable. All costs below are mandatory for all students.

FLGHT courses not listed below (such as FLGHT 101, 102, 107, etc.) have standard enrollment fees of \$46/credit hour and no (zero) associated lab costs.

Hourly rates for aircraft, AATD, and CFIs for 2019-2020 academic year follow:

VFR Aircraft (Piper PA-38)	\$130.00
IFR Aircraft (Piper PA-28)	\$167.00
Complex Aircraft (Piper PA-28R)	\$199.00
AATD Simulator	\$85.00
Extra cost when substituting PA-28 for PA-38 (for students between 220-250 lbs.)	\$37.00
Enrollment Fees per credit hour	\$46.00
Flight Instructor Costs per hour (all courses)	\$55.00

Enrollment fees and lab costs by course number:

FLIGHT 105 PRIVATE PILOT FLIGHT

(Total Aircraft Hours: 30/Dual, 5/Solo, 0/AATD)

VFR Aircraft Cost (35 hrs)	\$4,550.00
Flight Instructor Cost (30 hrs flight + 17.5 pre/post = 49.5 hrs)	\$2,722.50
Total Flight Lab Costs	\$7,272.50
Enrollment Fee (1 credit)	\$46.00
Total covered by VA benefits	\$7,318.50
Extra cost not covered by VA benefits (using IFR Aircraft instead of VFR Aircraft)	\$1,295.00

FLIGHT 106 ADVANCED PRIVATE PILOT FLIGHT

(Total Aircraft Hours: 30/Dual, 7/Solo, 0/AATD)

VFR Aircraft Cost (35 hrs)	\$4,810.00
Flight Instructor Cost (30 hrs flight + 24.5 pre/post = 54.5 hrs)	\$2,997.50
Total Flight Lab Costs	\$7,807.50
Enrollment Fee (1.5 credits)	\$69.00
Total covered by VA benefits	\$7,876.50
Extra cost not covered by VA benefits (using IFR Aircraft instead of VFR Aircraft)	\$1,369.00

FLIGHT 115 INSTRUMENT PILOT FLIGHT

(Total Aircraft Hours: 30/Dual, 2/Solo, 20/AATD)

IFR Aircraft Cost (32 hrs)	\$5,344.00
AATD Cost (20 hrs)	\$1,700.00
Flight Instructor Cost (30 hrs flt + 30 pre/post + 20 AATD = 80 hrs)	\$4,400.00
Total Flight Lab Costs	\$11,444.00
Enrollment Fee (2 credits)	\$92.00
Total covered by VA benefits	\$11,536.00
Extra cost not covered by VA benefits (using IFR Aircraft instead of VFR Aircraft)	\$0

FLIGHT 135 FLIGHT INSTRUCTOR FLIGHT

(Total Aircraft Hours: 24/Dual, 2/Solo, 0/AATD)

VFR Aircraft Cost (26 hrs)	\$3,380.00
Flight Instructor Cost (24 hrs flt + 25 pre/post = 49 hrs)	\$2,695.00
Total Flight Lab Costs	\$6,075.00
Enrollment Fee (1.5 credits)	\$69.00
Total covered by VA benefits	\$6,144.00
Extra cost not covered by VA benefits (using IFR Aircraft instead of VFR Aircraft)	\$962.00

FLIGHT 125 COMMERCIAL PILOT FLIGHT

(Total Aircraft Hours: 15/Dual, 50/Solo, 0/AATD)

VFR Aircraft Cost (65 hrs)	\$8,450.00
Flight Instructor Cost (15 hrs flight + 11 pre/post = 26 hrs)	\$1,430.00
Total Flight Lab Costs	\$9,880.00
Enrollment Fee (2 credits)	\$92.00
Total covered by VA benefits	\$9,972.00
Extra cost not covered by VA benefits (using IFR Aircraft instead of VFR Aircraft)	\$2,405.00

FLIGHT 126 ADVANCED COMMERCIAL PILOT FLIGHT

(Total Aircraft Hours: 30/Dual VFR, 25/Solo, 10/Dual Complex, 0/AATD)

VFR Aircraft Cost (55 hrs)	\$7,150.00
Complex Aircraft Cost (10 hrs)	\$1,990.00
Flight Instructor Cost (40 hrs flt + 29 pre/post = 69 hrs)	\$3,795.00
Total Flight Lab Costs	\$12,935.00
Enrollment Fee (2.5 credits)	\$115.00
Total covered by VA benefits	\$13,050.00
Extra cost not covered by VA benefits (using IFR Aircraft instead of VFR Aircraft)	\$2,035.00