

AVIATION - PROFESSIONAL PILOT HELICOPTER- ASSOCIATE OF APPLIED SCIENCE (AAS)

Program Description

The Professional Pilot Helicopter Associate of Applied Science trains individuals to work as professional pilots in the air transportation industry. Students in the helicopter track will be eligible to earn the following Federal Aviation Administration ratings/certificates: Private Pilot, Commercial Pilot, Instrument, and Certified Flight Instructor.

Program Learning Outcomes

Upon successful completion of the program, students will be able to:

1. Demonstrate skills necessary to independently operate rotary wing aircraft safely and proficiently.
2. Recall rotary wing aviation knowledge commensurate with level of qualification.
3. Demonstrate the ability to develop rotary wing aviation lesson plans.
4. Demonstrate the ability to teach from a lesson plan in a clear and effective manner (one-on-one and in small classroom settings).
5. Demonstrate the ability to deliver practical rotary wing flight training.

Entrance Requirements

Academic Entrance Requirements

There are no formal academic entrance requirements for the Professional Pilot Helicopter AAS.

Other Entrance Requirements

Required:

Students who enroll in this course of study must have a valid Federal Aviation Administration (FAA) Medical Certificate and a student pilot certificate. A doctor designated by the FAA as an Aviation Medical Examiner must conduct the medical exam.

Recommended:

Incoming students are encouraged to obtain at least a second-class medical certificate before entering the program to ensure that they can eventually pursue a career in commercial aviation.

Additional Program Costs (Beyond Standard Tuition/Fees and Textbooks)

All fees for the term must be paid in full by 5 p.m. on Friday of the second week of the term. Unless under unusual nonacademic and documented circumstances, simulator fees are non-refundable. Used portions of flight fees are non-refundable. Licensure fees are non-refundable.

Fees:

- Pilot headset: approximately \$350
- AV 112 Technically Advanced Aircraft: \$650
- Flight labs (authorized aircraft and hourly rates for Helicopter FLT Lab Series I: Robinson R22, R44, B206, flight training device)
 - AV 227A Private Pilot I Helicopter Flight Lab (AV 115 Private Pilot-Helicopter)

- Robinson R22
- 20 hours pre- and post-instruction at \$35/hour: \$700

- 23 hours dual flight at \$360/hour: \$8,280
- 2 hours dual flight training device at \$195/hour: \$390

- Total: \$9,370
- Total flight hours: 25 (1 credit)

- AV 227B Private Pilot II Helicopter Flight Lab (AV 115 Private Pilot-Helicopter)

- Robinson R22
- 20 hours pre- and post-instruction at \$35/hour: \$700

- 23 hours dual flight at \$360/hour: \$8,280
- 2 hours dual flight training device at \$195/hour: \$390

- Written exam fee: \$175

- Total: \$9,545

- Total flight hours: 25 (1 credit)

- AV 227C Private Pilot III Helicopter Flight Lab (AV 115 Private Pilot-Helicopter)

- Robinson R22
- 20 hours pre- and post-instruction at \$35/hour: \$700

- 14 hours dual flight at \$360/hour: \$5,040

- 10 hours solo flight at \$360/hour*: \$3,600

- 2 hours dual flight training device at \$195: \$390

- Designated pilot examiner fee: \$750

- Total: \$10,480

- Total flight hours: 26 (1 credit)

- *Supervised solo charged at a dual rate due to required presence of a certified flight instructor

- AV 227D Instrument Pilot I Helicopter Flight Lab (AV 215 Instrument Helicopter)

- Robinson R44
- 20 hours pre- and post-instruction at \$35/hour: \$700

- 20 hours dual flight (includes 15 hours pilot in command) at \$650/hour: \$13,000

- 10 hours dual flight training device at \$195/hour: \$1,950

- Written exam fee: \$175

- Total: \$15,825

- Total flight hours: 30 (1 credit)

- AV 227E Instrument Pilot II Helicopter Flight Lab (AV 215 Instrument Helicopter)

- Robinson R44
- 25 hours pre- and post-instruction at \$35/hour: \$875

- 17 hours dual flight at \$650/hour: \$11,050
- 10 hours dual flight training device at \$195/hour: \$1,950
- Designated pilot examiner fee: \$750
- Total: \$14,625
- Total flight hours: 27 (1 credit)
- AV 227N Instrument Pilot III Helicopter Flight Lab (AV 215 Instrument Helicopter)
 - Robinson R44
 - 10 hours pre- and post-instruction at \$35/hour: \$350

 - 10 hours dual flight at \$760/hour*: \$7,600
 - Total: \$7,950
 - Total flight hours: 10 (1 credit)
 - * Flown in a night vision goggle compatible helicopter
- AV 227F Commercial Pilot I Helicopter Flight Lab (AV 225 Commercial Pilot-Helicopter)
 - Robinson R22
 - 18 hours pre- and post-instruction at \$35/hour: \$630

 - 35 hours dual flight (includes 15 hours pilot in command) at \$360/hour: \$12,600
 - 2 hours dual flight training device at \$195/hour: \$390

 - Total: \$13,620
 - Total flight hours: 37 (1 credit)
- AV 227G Commercial Pilot II Helicopter Flight Lab (AV 225 Commercial Pilot-Helicopter)
 - Robinson R22
 - 18 hours pre- and post-instruction at \$35/hour: \$630

 - 35 hours dual flight at \$360/hour: \$12,600
 - 2 hours dual flight training device at \$195/hour: \$390
 - Written exam fee: \$175
 - Designated pilot examiner fee: \$750

 - Total: \$14,545
 - Total flight hours: 37 (1 credit)
- AV 227H Commercial Pilot III Helicopter Flight Lab (AV 225 Commercial Pilot-Helicopter)
 - Bell 206
 - 5 hours pre- and post-instruction at \$35/hour: \$175

 - 18 hours dual flight at \$935/hour: \$16,830
 - Total: \$17,005
 - Total flight hours: 18 (1 credit)
- AV 227I Certified Flight Instructor I Helicopter Flight Lab (AV 255 Certified Flight Instructor-Helicopter)
 - Robinson R22
 - 50 hours pre- and post-instruction at \$35/hour: \$1,750

 - 20 hours dual flight at \$360/hour: \$7,200
 - 2 hours dual flight training device at \$195/hour: \$390
 - Written exam fee: \$350
 - Designated pilot examiner fee: \$850
 - Total: \$10,540
 - Total flight hours: 22 (1 credit)
- AV 227J Certified Flight Instructor II Helicopter Flight Lab (AV 255 Certified Flight Instructor-Helicopter)
 - Robinson R44
 - 25 hours pre- and post-instruction at \$35/hour: \$875

 - 10 hours dual flight at \$650/hour: \$6,500
 - 7 hours dual flight training device at \$195/hour: \$1365

 - Written exam fee: \$175
 - Designated pilot examiner fee: \$750
 - Total: \$9,665
 - Total flight hours: 17 (1 credit)
 - Series II Aircraft: Robinson R44, B206, flight training device

Course Requirements

Course	Title	Credits
Core Courses		
AV 101	Introduction to Aviation ¹	3
AV 104	Introduction to Aircraft Systems ¹	4
AV 108	Meteorology I ¹	4
AV 112	Technically Advanced Aircraft	3
AV 115	Private Pilot-Helicopter ²	5
AV 117	Helicopter Fundamentals	3
AV 150	Aerodynamics ¹	4
AV 200	Aviation Law ¹	3
or AV 201	Airport Management	
AV 208	Meteorology II ¹	4
AV 215	Instrument Helicopter ⁴	5
AV 225	Commercial Pilot-Helicopter ⁴	4
AV 235	Human Factors ¹	4
AV 245	Advanced Helicopter Operations	4
AV 246	Aviation Safety ¹	3
AV 255	Certified Flight Instructor-Helicopter	5
Helicopter Flight Labs ³		11
AV 227A	Private Pilot I Helicopter Flight Lab	
AV 227B	Private Pilot II Helicopter Flight Lab	
AV 227C	Private Pilot III Helicopter Flight Lab	
AV 227D	Instrument Pilot I Helicopter Flight Lab	
AV 227E	Instrument Pilot II Helicopter Flight Lab	
AV 227F	Commercial Pilot I Helicopter Flight Lab	
AV 227G	Commercial Pilot II Helicopter Flight Lab	

AV 227H	Commercial Pilot III Helicopter Flight Lab	
AV 227I	Certified Flight Instructor I Helicopter Flight Lab	
AV 227J	Certified Flight Instructor II Helicopter Flight Lab	
AV 227N	Instrument Pilot III Helicopter Flight Lab	

Other Required Courses

BA 206 or BA 101	Management Fundamentals I Introduction to Business	4
BA 285 or COMM 218	Business Human Relations Interpersonal Communication	3
CIS 120	Computer Concepts (or Computer Competency Test)	0-4
Discipline Studies Courses		8
MTH 102	Applied Technical Mathematics (or choose one course from the foundational requirements math list)	4
WR 121 or BA 214	Academic Composition ⁵ Business Communications	3-4

Total Credits **91-96**

¹ May be taken in any order, in any term and may be taken before, with or after the flight courses.

² Must be taken as the first flight course. May be taken any term.

³ Flight fees, simulator fees and FAA testing fees are required in addition to normal tuition for all flight labs and must be paid by the end of the second week of the term. Used portions of flight and simulator fees are not refundable. Contact the Aviation program director at 541-318-3702 for more information.

⁴ The Private Pilot Helicopter course AV 115 Private Pilot-Helicopter shall be completed prior to the Instrument Helicopter course AV 215 Instrument Helicopter, and the Instrument Helicopter course AV 215 Instrument Helicopter shall be completed before the Commercial Pilot Helicopter course AV 225 Commercial Pilot-Helicopter.

⁵ WR 121 Academic Composition is recommended for students who plan to pursue a bachelor's degree.

Performance Standards

- Academic Requirements:

- Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.
- Students must maintain a minimum 2.0 GPA while enrolled in the program. Students who do not maintain this standard and desire to continue the program, require completion of a training plan approved by their COCC advisor.
- All courses in the program must be completed with a grade of C or higher.

- Additional Requirements:

- The FAA requires applicants pass an airman knowledge exam for pilot certificates/ratings.
- Students must be prepared to fly three to four days per week in order to maintain the rigorous schedule that is required in order to complete the flight training in a timely manner.

Sample Plan

First Term		Credits
AV 101	Introduction to Aviation	3
AV 104	Introduction to Aircraft Systems	4
AV 115	Private Pilot-Helicopter	5
AV 117	Helicopter Fundamentals	3
AV 227A	Private Pilot I Helicopter Flight Lab	1
AV 227B	Private Pilot II Helicopter Flight Lab	1
Credits		17

Second Term		Credits
AV 108	Meteorology I	4
AV 246	Aviation Safety	3
AV 227C	Private Pilot III Helicopter Flight Lab	1
MTH 102	Applied Technical Mathematics (or choose one course from the foundational requirements math list)	4
Credits		12

Third Term		Credits
AV 112	Technically Advanced Aircraft	3
AV 215	Instrument Helicopter	5
AV 227D	Instrument Pilot I Helicopter Flight Lab	1
AV 227E	Instrument Pilot II Helicopter Flight Lab	1
WR 121 or BA 214	Academic Composition or Business Communications	3-4
Credits		13-14

Fourth Term		Credits
AV 200 or AV 201	Aviation Law or Airport Management	3
AV 227F	Commercial Pilot I Helicopter Flight Lab	1
AV 227N	Instrument Pilot III Helicopter Flight Lab	1
BA 285 or COMM 218	Business Human Relations or Interpersonal Communication	3
CIS 120	Computer Concepts (Computer Competency Test)	0-4
Credits		8-12

Fifth Term		Credits
BA 101 or BA 206	Introduction to Business or Management Fundamentals I	4
AV 150	Aerodynamics	4
AV 225	Commercial Pilot-Helicopter	4
AV 227G	Commercial Pilot II Helicopter Flight Lab	1
AV 227H	Commercial Pilot III Helicopter Flight Lab	1
Credits		14

Sixth Term		Credits
Discipline Studies Course		4
Discipline Studies Course		4
AV 245	Advanced Helicopter Operations	4
AV 227I	Certified Flight Instructor I Helicopter Flight Lab	1
Credits		13

Seventh Term		Credits
AV 208	Meteorology II	4
AV 235	Human Factors	4

AV 227J	Certified Flight Instructor II Helicopter Flight Lab	1
AV 255	Certified Flight Instructor-Helicopter	5
Credits		14
Total Credits		91-96