

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

## 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 degree, 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 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
- 25 hours pre- and post-instruction at \$35/hour: \$875

- 23 hours dual flight at \$380/hour: \$8,740
- 2 hours dual flight training device at \$195/hour: \$390

- Total: \$10,005
- 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 \$380/hour: \$8,740
- 2 hours dual flight training device at \$195/hour: \$390

- Written exam fee: \$175
- Total: \$10,005

- 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 \$380/hour: \$5,320

- 10 hours solo flight at \$380/hour\*: \$3,800

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

- Designated pilot examiner fee: \$750

- Total: \$10,960

- 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 \$680/hour: \$13,600

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

- Written exam fee: \$175

- Total: \$16,425

- 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 \$680/hour: \$11,560
- 10 hours dual flight training device at \$195/hour: \$1,950
- Designated pilot examiner fee: \$750
- Total: \$15,135
- Total flight hours: 27 (1 credit)
- AV 227N Instrument Pilot III Helicopter Flight Lab (AV 215 Instrument Helicopter)
  - Robinson R44
  - 8 hours pre- and post-instruction at \$35/hour: \$280
  
  - 8 hours dual flight at \$760/hour\*: \$6,080
  - Total: \$6,360
  - Total flight hours: 8 (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
  
  - 30 hours dual flight (includes 15 hours pilot in command) at \$380/hour: \$11,400
  - 2 hours dual flight training device at \$195/hour: \$390
  - Written exam fee: \$175
  - Total: \$12,595
  - Total flight hours: 32 (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
  
  - 30 hours dual flight at \$380/hour: \$11,400
  - 2 hours dual flight training device at \$195/hour: \$390
  - Designated pilot examiner fee: \$750
  
  - Total: \$13,170
  - Total flight hours: 32 (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
  
  - 12 hours dual flight at \$961/hour: \$11,532
  - Total: \$11,707
  - Total flight hours: 12 (1 credit)
- AV 227I Certified Flight Instructor I Helicopter Flight Lab (AV 255 Certified Flight Instructor-Helicopter)
  - Robinson R22
  - 35 hours pre- and post-instruction at \$35/hour: \$1,225
  
  - 20 hours dual flight at \$380/hour: \$7,600
  - 2 hours dual flight training device at \$195/hour: \$390
  - Written exam fee: \$350
  - Designated pilot examiner fee: \$850
  - Total: \$10,415
  - Total flight hours: 22 (1 credit)
- AV 227J Certified Flight Instructor II Helicopter Flight Lab (AV 255 Certified Flight Instructor-Helicopter)
  - Robinson R44
  - 20 hours pre- and post-instruction at \$35/hour: \$700
  
  - 10 hours dual flight at \$680/hour: \$6,800
  - 7 hours dual flight training device at \$195/hour: \$1,365
  - Written exam fee: \$175
  - Designated pilot examiner fee: \$750
  - Total: \$9,790
  - Total flight hours: 17 (1 credit)

## Course Requirements

Course	Title	Credits
<b>Core Courses</b>		
AV 101	Introduction to Aviation <sup>1</sup>	3
AV 104	Introduction to Aircraft Systems <sup>1</sup>	4
AV 108	Aviation Meteorology <sup>1</sup>	5
AV 112	Technically Advanced Aircraft	3
AV 115	Private Pilot-Helicopter <sup>2</sup>	5
AV 117	Helicopter Fundamentals	3
AV 150	Aerodynamics <sup>1</sup>	4
AV 200	Aviation Law <sup>1</sup>	3
or AV 201	Airport Management	
AV 215	Instrument Helicopter <sup>4</sup>	5
AV 225	Commercial Pilot-Helicopter <sup>4</sup>	4
AV 235	Human Factors <sup>1</sup>	4
AV 245	Advanced Helicopter Operations	4
AV 246	Aviation Safety <sup>1</sup>	4
AV 255	Certified Flight Instructor-Helicopter	5
Helicopter Flight Labs <sup>3</sup>		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	
<b>Other Required Courses</b>		
BA 101Z	Introduction to Business	4
or BA 206	Management Fundamentals I	
BA 285	Business Human Relations	3-4
or COMM 218Z	Interpersonal Communication	
CIS 120	Computer Concepts (or Computer Competency Test)	0-4
Discipline Studies Courses		
MTH 102	Applied Technical Mathematics (or choose one course from the foundational requirements math list)	4
WR 121Z	Composition I <sup>5</sup>	3-4
or BA 214	Business Communications	
<b>Total Credits</b>		<b>90-96</b>

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

<sup>2</sup> Must be taken as the first flight course. May be taken any term.

<sup>3</sup> 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 for more information.

<sup>4</sup> 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.

<sup>5</sup> WR 121Z Composition I 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:

- 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.
- FAA medical certificate required prior to beginning flight training.
- Pilots are credentialed by the Federal Aviation Administration (FAA) and must meet the requirements of the Federal Aviation Regulations to qualify for the pilot certificates/ratings.
- Background checks and random drug screening can be expected in any aviation industry position.

## Sample Plan

First Term		Credits
AV 101	Introduction to Aviation	3
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
<b>Credits</b>		<b>13</b>

Second Term		Credits
AV 104	Introduction to Aircraft Systems	4
AV 108	Aviation Meteorology	5
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
<b>Credits</b>		<b>14</b>

Third Term		Credits
AV 200	Aviation Law	3
or AV 201	or Airport Management	
AV 215	Instrument Helicopter	5
AV 227D	Instrument Pilot I Helicopter Flight Lab	1
BA 214	Business Communications	3-4
or WR 121Z	or Composition I	
<b>Credits</b>		<b>12-13</b>

Fourth Term		Credits
AV 150	Aerodynamics	4
AV 227E	Instrument Pilot II Helicopter Flight Lab	1
AV 227N	Instrument Pilot III Helicopter Flight Lab	1
AV 245	Advanced Helicopter Operations	4
CIS 120	Computer Concepts (Computer Competency Test)	0-4
<b>Credits</b>		<b>10-14</b>

Fifth Term		Credits
AV 112	Technically Advanced Aircraft	3
AV 225	Commercial Pilot-Helicopter	4
AV 227F	Commercial Pilot I Helicopter Flight Lab	1
BA 101Z	Introduction to Business	4
or BA 206	or Management Fundamentals I	
<b>Credits</b>		<b>12</b>

Sixth Term		Credits
AV 227G	Commercial Pilot II Helicopter Flight Lab	1
AV 227H	Commercial Pilot III Helicopter Flight Lab	1
AV 235	Human Factors	4
COMM 218Z	Interpersonal Communication	3-4
or BA 285	or Business Human Relations	
<b>Credits</b>		<b>9-10</b>

Seventh Term		Credits
AV 246	Aviation Safety	4
AV 255	Certified Flight Instructor-Helicopter	5
AV 227I	Certified Flight Instructor I Helicopter Flight Lab	1
<b>Credits</b>		<b>10</b>

**Eighth Term**

AV 227J	Certified Flight Instructor II Helicopter Flight Lab	1
Discipline Studies Course		3
Discipline Studies Course		3
Discipline Studies Course		3
	<b>Credits</b>	<b>10</b>
	<b>Total Credits</b>	<b>90-96</b>