

AVIATION PROGRAM

PREREQUISITES, STANDARDS AND REQUIREMENTS

PROGRAM DESCRIPTION

The Aviation program trains individuals to work as professional pilots in the air transportation industry. The opportunities in the pilot career field are fascinating and many, and include piloting a commercial airliner, flying for a corporation providing a service to the leaders of the company, flying as a charter pilot taking passengers point-to-point, and providing flight instruction to new pilot students.

Students in the AAS Aviation degree program must earn FAA pilot certificates and ratings which require flight and simulator training as outlined below. Students in the airplane track will earn FAA Private Pilot and Commercial Pilot certificates (single and multiengine), the Instrument rating, and the Multiengine rating. The final step in the training is to earn the FAA Certified Flight Instructor certificate/ratings (CFI, CFII, MEI).

Students in the helicopter track will earn the FAA Private Pilot and Commercial Pilot certificates, the Instrument rating, and Certified Flight Instructor certificate/rating (CFI, CFII).

Additionally, an Unmanned Aerial Systems degree is available within the Aviation Program. The Aviation Unmanned Aerial Systems Operations (UAS) track trains individuals to work as professional UAS operators in the national/international arena. Students will learn to operate UAS to include: conducting mission/preflight planning, mission briefings, and programming. They will learn how to obtain and evaluate weather forecasts, Notice to Airmen (NOTAMs), Special Instructions (SPINs) and airspace requirements. Students will be taught to perform limited UAS and ground support equipment testing, troubleshooting and maintenance.

The AAS degree will only be awarded when the required courses have been successfully completed and the following certificates and ratings are obtained: Commercial Pilot certificate, and Instrument and Multiengine (airplane) ratings.

COST OF PROGRAM

In addition to standard tuition, student fees and textbooks, students should anticipate the following program costs:

- Current cost of approximately 285 airplane or 200 helicopter hours of flight training, 50 hours of training time in our FAA-approved flight simulator, and up to 80 hours in UAS simulator. See the Aviation program director, call 541-318-3702 or go online at www.cocc.edu, for the current estimated cost of training.
- Students who do not become proficient in the time covered by the flight fees charged may incur additional flight training fees.
- All fees for the term must be paid in full by 5 p.m. on Friday of the second week of the term. Students will be dropped from flight lab course(s) if fees are not paid on time.
- Unless under unusual, nonacademic and documented circumstances simulator fees are non-refundable.
- Used portions of flight fees are non-refundable.
- Pilot headset, approximately \$350.
- FAA airman knowledge exams, \$150 per flight certificate/rating (\$1,350).

Airplane

- FAA Designated Pilot Examiner fees, approximately \$400 per flight certificate/rating (\$3,200).

Helicopter

- FAA Designated Pilot Examiner fees, approximately \$750 per flight certificate/rating (\$3,750).

PROGRAM PREPARATION AND PREREQUISITES

Pilots are credentialed by the Federal Aviation Administration (FAA) based on Title 14 Code of Federal Regulations. Specific requirements for each pilot certificate/rating are listed in Part 61: Certification: Pilots and Instructors, and may be found in a current copy of the Federal Aviation Regulations/Aeronautical Information Manual (FAR/AIM), or online at www.faa.gov.

Pilots are required to meet specific medical requirements and must possess an appropriate class of medical certificate obtained from an FAA-approved Aviation Medical Examiner (AME) before exercising the privileges of a pilot in command for the level of pilot certificate required. Specific requirements for class and duration of medical certificates may be found in the FAR Part 61, Paragraph 61.23, or online at www.faa.gov.

Students who enroll in this course of study must have a valid FAA Medical Certificate and a student pilot certificate. The medical exam must be conducted by a doctor designated by the FAA as an Aviation Medical Examiner. Incoming students in the professional pilot program are encouraged to obtain at least a second-class medical certificate prior to entry into the program to ensure that they can eventually pursue a career in commercial aviation. The medical application form will ask the applicant's prior medical history, prior DUI/DUII, any record of alcohol or substance abuse, and any history of non-traffic misdemeanors or felonies.

MINIMUM GPA OR GRADE REQUIREMENTS

- All FAA airman knowledge exams must be passed with a minimum score of 70 percent.
- All aviation program courses must be completed with a "C" grade or higher.
- Graduates must have an overall 2.0 GPA or higher.

REGISTRATION INFORMATION

The Aviation program accepts new students every term. Applicants should contact the Aviation program director, 541-318-3702, or other aviation advisor before applying.

Applicants must arrange their finances to ensure they can pay for the flight training. Financial aid is available, but it will not cover the total cost of the program. The Aviation program is approved for veterans benefits and other federal financial aid.

PROGRAM STANDARDS

Students must maintain a minimum 2.0 GPA while enrolled in the program. Students who do not maintain this standard may be dismissed from the program. Reinstatement to the program is never automatic. A student must apply for re-determination of eligibility by completing a training plan with their COCC advisor.

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. Students who fall behind without justifiable reasons may be dismissed from the program and their flight training fees will be returned to whomever paid the fees, i.e., the financial aid office, the Department of Veterans Affairs or the individual (for private-pay students). Students using veterans benefits who fail to complete a flight lab may be required to repay the Department of Veterans Affairs for the entire cost of the course.

AVIATION PROGRAM *(continued)*

PREREQUISITES, STANDARDS AND REQUIREMENTS

NATIONAL/STATE LEGAL ELIGIBILITY OR UNIQUE REQUIREMENTS FOR LICENSURE AND/OR ENTRY INTO OCCUPATION, OR ADVANCEMENT IN THE OCCUPATION

- Pilots are credentialed by the Federal Aviation Administration and must meet the requirements of the Federal Aviation Regulations to qualify for the pilot certificates/ratings.
- FAA medical certificate required prior to beginning flight training.
- Student Pilot certificate required prior to beginning flight training.
- The FAA requires applicants pass an airman knowledge exam for pilot certificates/ratings. Those exams are administered by a third-party company and a \$150 testing fee is required.
- Pilot certificates/ratings are issued after an applicant passes a practical exam (ground oral exam and flight check) administered by a Designated Pilot Examiner (DPE) who will charge a fee for that exam.
- Background checks and random drug screening can be expected in any aviation industry position.

PILOT CERTIFICATES/RATINGS AVAILABLE:

- Private Pilot (Airplane or Helicopter)
- Instrument (Airplane or Helicopter)
- Multiengine (Airplane) • Commercial (Airplane or Helicopter)
- Single engine (Airplane) • Multiengine (Airplane)
- Certified Flight Instructor • CFI (Airplane or Helicopter)
- CFII (Airplane or Helicopter) • MEI (Airplane)
- Air Transport Pilot (ATP) (Not currently offered at COCC)

TRANSFER INFORMATION

Airplane students in particular should plan to transfer to an institution granting bachelor's degrees to enhance employment opportunities. Therefore, the program works with several universities for transfer options. The AAS degree is designed to train the student as a professional pilot. Universities that have an aviation bachelor's degree (Utah Valley University, Embry-Riddle Aeronautical University, etc.) will often accept the majority of these credits toward their degree.

Those wishing to transfer to Oregon Institute of Technology, should use the Associate of Science (AS) degree program. For information about transfer requirements at other institutions, contact the Aviation program director, 541-318-3702.

AVIATION – UAS OPERATIONS

Associate of Applied Science (AAS) Degree

100-104 credits

DEGREE AS AWARDED ON TRANSCRIPT

Associate of Applied Science, Aviation – UAS

This degree is intended to prepare students for a fast growing industry with many civilian applications including agriculture, search and rescue, monitoring environment and wildlife, border security, fire mapping, surveying structures after natural disasters, real estate photography and police surveillance.

PROGRAM COURSE REQUIREMENTS

All courses must be completed with a "C" grade or better.

General Education/ foundational requirements

Communication

WR 121	English Composition	4
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Computation

MTH 085	Technical Mathematics	4
or MTH 111	College Algebra (or higher)	

Human Relations

SP 219	Small Group Communications	3
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PROGRAM REQUIREMENTS

All aviation courses must be completed with a "C" grade or better.

AV 101	Introduction to Aviation ¹	3
AV 104	Introduction to Aircraft Systems ¹	4
AV 108	Meteorology I ¹	4
AV 110	Private Pilot Airplane ²	5
or AV 115	Private Pilot Helicopter ²	
AV 112	Technically Advanced Aircraft	1
AV 112A	Technically Advanced Aircraft Lab	1
AV 150	Aerodynamics ¹	4
AV 210	Instrument Airplane ²	5
or AV 215	Instrument Helicopter ²	
AV 220	Commercial Pilot Airplane ⁴	5
or AV 225	Commercial Pilot Helicopter ⁴	
AV 271	Introduction to UAS	3
AV 272	Unmanned Aerial Systems Operations	5
AV 273	Unmanned Aerial Systems Operations/ Maintenance	5
CIS 120	Computer Concepts	0-4
or Computer Competency Test, see page 25		
CIS 140	A+ Essentials I	4
CIS 145	A+ Essentials II	4
CIS 179	Networking Essentials	4
GEOG 265	Geographic Information Systems	4
GEOG 266	ARC GIS	5
GEOG 273	Spatial Data Collection	5
GEOG 286	Remote Sensing	5
GEOG 287	Analysis of Spatial Data	5

UAS FLIGHT LABS

AV 222A ³		1
or AV 227A ³		
AV 222B ³		1
or AV 227B ³		
AV 222C ³		1
or AV 227C ³		
AV 222D ³		1
or AV 227D ³		
AV 222E ³		1
or AV 227E ³		
AV 222G ³		1-2
or AV 227F and AV 227G ³		
AV 222N ³		1
or AV 227N ³		

FOOTNOTES

- 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. Students will be dropped at that time for nonpayment of fees. Used portions of flight and simulator fees are not refundable. The fee structure is available on the Aviation website www.cocc.edu/Aviation/. Contact the Aviation program director at 541-318-3702 for more information.
- ⁴ Can be taken next in any sequence, together or separately, in any term. Earning the commercial pilot certificate is not dependent upon the instrument and multiengine ratings; however, pilots commonly include those ratings inside the total hours required for the commercial certificate in order to reduce the cost.