AVIATION SCIENCE

Rock Creek Campus
Building 2, Room 230
971-722-7256 or 971-722-7457
pcc.edu/avfy

CAREER AND PROGRAM DESCRIPTION

The traditional entry-level position for professional airplane and helicopter pilots is a certified flight instructor (CFI) or pilot for a small air carrier. These positions offer the opportunity to gain experience sought by companies that employ pilots in a variety of interesting and challenging positions. Career opportunities for airplane pilots include work in flight instruction, charter, corporate, cargo, and airline industries. Career opportunities for helicopter pilots include flight instruction, charter, corporate, air-ambulance and external load operations. Flight classes are conducted at Hillsboro Aero Academy, an accredited FAA Part 141 certified flight school, located at the Hillsboro and Troutdale Airports. Additional fees apply for these classes. Visit the department website for a list of fees.

DEGREES AND CERTIFICATES OFFERED

ASSOCIATE OF APPLIED SCIENCE DEGREE

Aviation Science Airplane without Flight Instructor
Aviation Science Airplane with Flight Instructor
Aviation Science Helicopter (also includes Flight Instructor)

Academic Prerequisites
- The Aviation Science program is a restricted entry program with limited enrollment.
- Applicants must take the placement test administered through the campus assessment centers. Minimum test scores:
  - Placement into MTH 65 or higher
  - Placement into WR 121 or higher

Academic Requirements
- None

Non-Academic Prerequisites
- Attendance at an aviation science orientation or individual advising required prior to beginning the program. Please see www.pcc.edu/avfy for dates or contact the Aviation Science Department for dates or appointments.
- Additionally, the FAA requires a Class II Medical Certificate prior to beginning flight training. See www.pcc.edu/avfy and click “Getting Started” for details.

Non-Academic Requirements
- None

ASSOCIATE OF APPLIED SCIENCE DEGREE

Aviation Science Airplane - Flight Instructor (p. 1)
Aviation Science Airplane - Without Flight Instructor (p. 1)
Aviation Science Helicopter (p. 2)

AVIATION SCIENCE - AIRPLANE WITHOUT FLIGHT INSTRUCTOR AAS DEGREE

Minimum 90 credits. Students must also meet Associate Degree Comprehensive Requirements and Associate of Applied Science Requirements. Students must complete a total of sixteen credits of General Education. Some courses specified within the program may be used as General Education. In addition to required courses in the program of study, students must satisfy MTH 58/65 competency. Students should consult with program advisors for course planning.

COURSE OF STUDY: FLIGHT INSTRUCTOR OPTION

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Credits</th>
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<tbody>
<tr>
<td>AVS 107A</td>
<td>Flight Preparation Lab - Private Airplane</td>
<td>1</td>
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<tr>
<td>AVS 107B</td>
<td>Flight Preparation Lab - Instrument Airplane</td>
<td>1</td>
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<td>AVS 107C</td>
<td>Flight Preparation Lab - Airplane Intro to Commercial</td>
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<td>AVS 125</td>
<td>Airplane: Private Pilot Flight</td>
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<td>AVS 127</td>
<td>Introduction to Aviation</td>
<td>4</td>
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<td>AVS 135</td>
<td>Airplane: Instrument Flight</td>
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<tr>
<td>AVS 137</td>
<td>Applied Aerodynamics</td>
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<td>AVS 145</td>
<td>Introduction to Commercial Airplane</td>
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<tr>
<td>AVS 157</td>
<td>Aircraft Systems &amp; Structures I: Airframe</td>
<td>3</td>
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<td>AVS 167</td>
<td>Aircraft Systems: Powerplant</td>
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<td>AVS 177</td>
<td>Pilot Human Factors and Safety Management</td>
<td>4</td>
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<td>AVS 207A</td>
<td>Flight Preparation Lab - Airplane Advanced Commercial</td>
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<td>AVS 207B</td>
<td>Flight Preparation Lab - Airplane Multi-Engine Instructor</td>
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<td>AVS 207C</td>
<td>Flight Preparation Lab - Airplane Instructor CFI/SEL</td>
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<td>AVS 217</td>
<td>Aviation Weather Services</td>
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<td>AVS 225</td>
<td>Airplane: Commercial Flight</td>
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<td>AVS 227</td>
<td>Aviation Careers</td>
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<td>AVS 236</td>
<td>Airplane MEI Flight</td>
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<td>AVS 237</td>
<td>Aviation Law and Regulations</td>
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<td>AVS 243</td>
<td>Airplane Single-Engine CFI Ground/Flight</td>
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<td>AVS 244</td>
<td>Airplane CFII Ground/Flight</td>
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<td>AVS 255</td>
<td>Multi-Crew Operations</td>
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<td>AVS 267</td>
<td>Economics of Flight Operations</td>
<td>4</td>
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<tr>
<td>GS 109</td>
<td>Physical Science (Meteorology)</td>
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<td>WR 121</td>
<td>English Composition</td>
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<td>Aviation Science Program Electives</td>
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<td>Total Credits</td>
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* Could be used as General Education

AVIATION SCIENCE - AIRPLANE WITH FLIGHT INSTRUCTOR AAS DEGREE

Minimum 90 credits. Students must also meet Associate Degree Comprehensive Requirements and Associate of Applied Science Requirements. Students must complete a total of sixteen credits of General Education. Some courses specified within the program may be used as General Education. In addition to required courses in the program of study, students must satisfy MTH 58/65 competency. Students should consult with program advisors for course planning.
COURSE OF STUDY: WITHOUT FLIGHT INSTRUCTOR OPTION

AVS 107A  Flight Preparation Lab - Private Airplane  1
AVS 107B  Flight Preparation Lab - Instrument Airplane  1
AVS 107C  Flight Preparation Lab - Airplane Intro to Commercial  1
AVS 125  Airplane: Private Pilot Flight  5
AVS 127  Introduction to Aviation  4
AVS 135  Airplane: Instrument Flight  4
AVS 137  Applied Aerodynamics  4
AVS 145  Introduction to Commercial Airplane  4
AVS 157  Aircraft Systems & Structures I: Airframe  3
AVS 167  Aircraft Systems: Powerplant  3
AVS 177  Pilot Human Factors and Safety Management  4
AVS 207A  Flight Preparation Lab - Airplane Advanced Commercial  1
AVS 207D  Flight Preparation Lab - Airplane Professional Pilot  1
AVS 217  Aviation Weather Services  4
AVS 225  Airplane: Commercial Flight  4
AVS 227  Aviation Careers  4
AVS 237  Aviation Law and Regulations  4
AVS 255  Multi-Crew Operations  1
AVS 265  Helicopter: CFI Flight  3
AVS 266  Helicopter CFII Flight  1
AVS 267  Economics of Flight Operations  4
GS 109  * Physical Science (Meteorology)  4
PHY 101  * Force, Motion, and Energy  4
or PHY 201  General Physics  4
WR 121  English Composition  4
Aviation Science Program Electives  11
General Education  8

Total Credits  90

* Could be used as General Education

AVIATION SCIENCE PROGRAM ELECTIVES

BA 101  Introduction to Business  4
BA 206  Management Fundamentals  3
BA 211  Principles of Accounting I  3
CAS 111D  Beginning Website Creation: Dreamweaver  3
CAS 133  Basic Computer Skills/Microsoft Office  4
CAS 170  Beginning Excel  3
CAS 171  Intermediate Excel  3
CAS 216  Beginning Word  3
CAS 217  Intermediate Word  3
CG 100  College Survival and Success  3
CG 105  Scholarships: $$ for College  2
CG 111A  Study Skills for College Learning  3
CG 111B  Study Skills for College Learning  2
CG 111C  Study Skills for College Learning  1
CG 114  Financial Survival for College Students  1
CG 145  Stress Management  1
CIS 120  * Computer Concepts I  4
CIS 121  * Computer Concepts II  4
EC 200  Introduction to Economics  4
EC 201  Principles of Economics: Microeconomics  4
EC 202  Principles of Economics: Macroeconomics  4
EMS 100  Introduction to Emergency Medical Services  3
EMS 105  EMT Part I  5
EMS 106  EMT Part II  5
FN 110  Personal Nutrition  3
G 207  Geology of the Pacific Northwest  3
HE 295 & PE 295  Health and Fitness for Life  2
& Health and Fitness for Life Lab  2
MSD 101  Principles of Management and Supervision  3
MSD 105  Workplace Communication Skills  3
MSD 110  Gender Conflict Resolution  1
MSD 115  Improving Work Relations  3
MSD 117  Customer Relations  3
MTH 111  * College Algebra  5
MTH 112  * Elementary Functions  5
MTH 241  * Calculus for Management, Life and Social Science  4
MTH 243  * Statistics I  5
PHY 101  * Force, Motion, and Energy  4

Total Credits  90

* Could be used as General Education

AVIATION SCIENCE - HELICOPTER AAS DEGREE

Minimum 90 credits. Students must also meet Associate Degree Comprehensive Requirements and Associate of Applied Science Requirements. Students must complete a total of sixteen credits of General Education. In addition to required courses in the program of study, students must satisfy MTH 58/65 competency. Students should consult with program advisors for course planning.

COURSE OF STUDY

AVS 108A  Flight Preparation Lab - Private Helicopter  1
AVS 108B  Flight Preparation Lab - Helicopter Basic Comm Instrument  1
AVS 115  Helicopter Private Pilot Flight  5
AVS 127  Introduction to Aviation  4
AVS 137  Applied Aerodynamics  4
AVS 156  Helicopter Basic Commercial w/Instrument  5
AVS 157  Aircraft Systems & Structures I: Airframe  3
AVS 167  Aircraft Systems: Powerplant  3
AVS 177  Pilot Human Factors and Safety Management  4
AVS 208A  Flight Preparation Lab - Helicopter Advanced Commercial  1
AVS 208B  Flight Preparation Lab - Helicopter Flight Instructor  1
AVS 208C  Flight Preparation Lab - Helicopter Instrument Instructor  1
AVS 216  Helicopter Advanced Commercial  5
AVS 217  Aviation Weather Services  4
AVS 227  Aviation Careers  4
AVS 237  Aviation Law and Regulations  4
AVS 255  Multi-Crew Operations  1
AVS 265  Helicopter: CFI Flight  3
AVS 266  Helicopter CFII Flight  1
AVS 267  Economics of Flight Operations  4
GS 109  * Physical Science (Meteorology)  4
PHY 101  * Force, Motion, and Energy  4
or PHY 201  General Physics  4
WR 121  English Composition  4
Aviation Science Program Electives  11
General Education  8

Total Credits  90

* Could be used as General Education
AVIATION SCIENCE

PhY 201 General Physics 4
PSY 201A Introduction to Psychology - Part 1 4
PSY 101 * Psychology and Human Relations 4
WR 121 English Composition 4
WR 122 English Composition 4
WR 122H English Composition: Honors 4
WR 227 Technical and Professional Writing 1 4
PE Any 100 or 200 level course (up to 3 credits) 1

Foreign Language 1

Could be used as General Education.

Note: Other electives applicable to an aviation career may be approved on a case by case basis. In order to meet the credit minimum for the degree requirements, some courses may count toward Electives or General Education, but not both.

AVS 107A. Flight Preparation Lab - Private Airplane. 1 Credit.
Provides an opportunity for flight lesson preparation, study, and testing of knowledge that is directly related to AVS-125, Airplane Private Flight. Includes guided study and testing of Private Pilot knowledge areas in a collegial learning environment with other Aviation Science students of all levels. Explores current operational/safety issues related to flight training. Corequisite: AVS 125.

AVS 107B. Flight Preparation Lab - Instrument Airplane. 1 Credit.
Provides an opportunity for flight lesson preparation, study, and testing of knowledge that is directly related to AVS-135, Airplane Instrument Flight. Includes guided study and testing of Airplane Instrument Pilot knowledge areas in a collegial learning environment with other Aviation Science students of all levels. Explores current flight operation/safety issues. Corequisite: AVS 135.

AVS 107C. Flight Preparation Lab - Airplane Intro to Commercial. 1 Credit.
Provides opportunity for flight lesson preparation, study, and testing of knowledge that is directly related to AVS-145, Airplane Intro to Commercial Flight. Includes guided study and testing of Airplane Commercial Pilot knowledge areas in a collegial learning environment with other Aviation Science students of all levels. Explores current operational/safety issues related to flight training. Corequisite: AVS 145.

AVS 108A. Flight Preparation Lab - Private Helicopter. 1 Credit.
Provides an opportunity for flight lesson preparation, study, and testing of knowledge that is directly related to AVS-115, Helicopter Private Flight. Includes guided study and testing of Private Pilot knowledge areas in a collegial learning environment with other Aviation Science students of all levels. Explores current operational/safety issues related to flight training. Corequisite: AVS 115.

AVS 108B. Flight Preparation Lab - Helicopter Basic Comm Instrument. 1 Credit.
Provides an opportunity for flight lesson preparation, study, and testing of knowledge that is directly related to AVS-156, Helicopter Basic Commercial w/ Instrument. Includes guided study and testing of Commercial cross-country and Instrument rating knowledge areas in a collegial learning environment with other Aviation Science students of all levels. Explores current operational/safety issues related to flight training. Corequisite: AVS 156.

AVS 115. Helicopter Private Pilot Flight. 5 Credits.
Covers the operation of helicopters. Explores fundamentals of flight, emergency procedures, air traffic control and operational procedures. Provides the flight and ground instruction required to qualify to take the FAA Private Pilot Rotorcraft knowledge and practical tests. Flight training fees apply and cover a specific amount of training. Additional funds may be required. Corequisite: AVS 108A. Prerequisite/concurrent: AVS 127. Prerequisites: Placement into MTH 65 and WR 121.

AVS 125. Airplane: Private Pilot Flight. 5 Credits.
Covers operation of single-engine airplanes as it applies to FAA certified Private Pilot operations. Explores fundamentals of flight, air traffic control, operational procedures, and aeronautical decision making. Provides the required ground and flight instruction and experience in preparation for FAA Knowledge and practical tests. Flight training fees cover a specific amount of training; additional fees may be required. Prerequisites: Placement into MTH 65 and WR 121 or higher. Prerequisite/concurrent: AVS 127. Corequisite: AVS 107A.

AVS 127. Introduction to Aviation. 4 Credits.
Examines the aviation industry from early flight to future potentials. Introduces the career opportunities in a variety of fields of aviation, with focus on professional airplane or helicopter pilot careers. Provides a general overview of pilot flight training including certificates, ratings and training aircraft used. Open to the general public. Audit available.

AVS 135. Airplane: Instrument Flight. 4 Credits.
Covers training in instrument flight operations. Includes basic attitude instrument skills, radio navigation, departure and approach procedures and instrument cross-country planning and flying. Provides required flight and ground instruction in preparation for the FAA Instrument Rating – Airplane knowledge and practical tests. Flight training fees apply and cover a specific amount of training; additional fees may be required. Prerequisite: AVS 125. Corequisite: AVS 107B.

AVS 137. Applied Aerodynamics. 4 Credits.
Introduces aerodynamics. Explores various concepts and theories relevant to modern aviation. Audit available.

AVS 145. Introduction to Commercial Airplane. 4 Credits.
Introduces beginning commercial pilot training activities. Includes cross-country flight operations and a review of previous items learned during private and instrument pilot training. Explores how to plan and execute a cross-country flight as a commercial pilot. Provides ground training required to take the FAA Commercial Airplane knowledge test. Flight training fees apply and cover a specific amount of training; please see the Course Curriculum and Outcome Guide for detailed information. Prerequisite: AVS 115. Corequisite: AVS 108B.

AVS 157. Aircraft Systems & Structures I: Airframe. 3 Credits.
Designed to give students the background in aircraft systems and structures, with an emphasis on airframe components, that will enable them to progress into more advanced aircraft. Provides understanding of the safe and efficient operation of aircraft systems. Prior flight experience recommended. Audit available.

AVS 167. Aircraft Systems: Powerplant. 3 Credits.
Designed to give students the background in aircraft systems and structures, with an emphasis on powerplant components, that will enable them to progress into more advanced aircraft. Provides understanding of the safe and efficient operation of aircraft systems. Prior flight experience recommended. Audit available.

AVS 177. Pilot Human Factors and Safety Management. 4 Credits.

AVS 207A. Flight Preparation Lab - Airplane Advanced Commercial. 1 Credit.
Provides an opportunity for flight lesson preparation, study, and testing of knowledge that is directly related to AVS-225, Airplane Commercial Flight. Includes guided study and testing of Airplane Commercial Single- and Multi-engine Pilot knowledge areas in a collegial learning environment with other Aviation Science students of all levels. Explores current operational/safety issues related to flight training. Corequisite: AVS 225.

AVS 207B. Flight Preparation Lab - Airplane Multi-Engine Instructor. 1 Credit.
Provides an opportunity for flight lesson preparation, study, and testing of knowledge that is directly related to AVS-236, Airplane Multi-engine (MEI) Instructor. Includes guided study and testing of the initial Multi-engine Flight Instructor knowledge areas in a collegial learning environment with other Aviation Science students of all levels. Explores current operational/safety issues related to flight training. Corequisite: AVS 236.

AVS 207C. Flight Preparation Lab - Airplane Instructor CFII/SEL. 1 Credit.
Provides an opportunity for flight lesson preparation, study, and testing of knowledge that is directly related to AVS-243, Airplane Single-engine Ground/ Flight and AVS-244 Airplane CFII Ground/Flight. Includes guided study and testing of the Flight Instructor SEL add-on and CFII add-on knowledge areas in a collegial learning environment with other Aviation Science students of all levels. Explores current operational/safety issues related to flight training. Prerequisite/concurrent: AVS 243 and AVS 244.
AVS 207D. Flight Preparation Lab - Airplane Professional Pilot. 1 Credit.
Provides an opportunity for flight lesson preparation, study, and testing of knowledge that is directly related to AVS-275, Airplane Professional Pilot. Includes guided study and testing of advanced commercial cross-country knowledge areas in a collegial learning environment with other Aviation Science students of all levels. Explores current operational/safety issues related to flight training. Corequisite: AVS 275.

AVS 208A. Flight Preparation Lab - Helicopter Advanced Commercial. 1 Credit.
Provides an opportunity for flight lesson preparation, study, and testing of knowledge that is directly related to AVS-216, Helicopter Advanced Commercial Flight. Includes guided study and testing of Commercial Pilot knowledge in a collegial learning environment with other Aviation Science students of all levels. Explores current operational/safety issues related to flight training. Corequisite: AVS 216.

AVS 208B. Flight Preparation Lab - Helicopter Flight Instructor. 1 Credit.
Provides an opportunity for flight lesson preparation, study, and testing of knowledge that is directly related to AVS-225. Helicopter Flight Instructor. Includes guided study and testing of initial helicopter Flight Instructor knowledge areas in a collegial learning environment with other Aviation Science students of all levels. Explores current operational/safety issues related to flight training. Corequisite: AVS 225.

AVS 208C. Flight Preparation Lab - Helicopter Instrument Instructor. 1 Credit.
Provides an opportunity for flight lesson preparation, study, and testing of knowledge that is directly related to AVS-266. Helicopter CFII Flight. Includes guided study and testing of Helicopter Instrument Instructor knowledge areas in a collegial learning environment with other Aviation Science students of all levels. Explores current operational/safety issues related to flight training. Corequisite: AVS 266.

AVS 216. Helicopter Advanced Commercial. 5 Credits.
Continues commercial pilot rotorcraft helicopter training activities. Includes review of previous items learned as well as advanced commercial maneuvers. Includes training focused on specialty commercial operations appropriate to the desired career. Provides flight and ground training to qualify to take the FAA knowledge and practical helicopter commercial pilot tests. Flight training fees apply and cover a specific amount of training; Additional funding may be required. Prerequisite: AVS 156. Corequisite: AVS 208A.

AVS 217. Aviation Weather Services. 4 Credits.
Provides detailed exposure to, and practice with, aviation weather products that are used to make pre-flight and in-flight decisions, including forecasts, observations, maps and charts. Prerequisite: AVS 127 and GS 109. Audit available.

AVS 225. Airplane: Commercial Flight. 4 Credits.
Concludes commercial pilot training activities. Includes complex flight operations, multi-engine operations, advanced systems and performance maneuvers. Covers preparation for taking the commercial pilot multi-engine land practical test and the single-engine land additional class rating practical test. Flight training fees apply and cover a specific amount of training; please see the Course Curriculum and Outcome Guide for detailed information. Prerequisite: AVS 145. Corequisite: AVS 207A.

AVS 227. Aviation Careers. 4 Credits.
Designed to prepare students for a career in aviation. Explores aviation employment opportunities. Includes interview and resume preparation. Intended for second year AVS students. Audit available.

AVS 236. Airplane MEI Flight. 3 Credits.
Explores how to present, explain, demonstrate, and assess flight-related skills and knowledge related to all levels of airplane multi-engine training, while flying from the instructor’s seat. Provides training required to prepare for the initial FAA Certified Flight Instructor knowledge and practical tests, and the FAA Fundamentals of Instructing knowledge test. Flight training fees apply and cover a specific amount of training; additional funding may be required. Prerequisite: AVS 225. Corequisite: AVS 207B.

AVS 237. Aviation Law and Regulations. 4 Credits.
Explores the applicable Federal Aviation Regulations through case law and current events. The FAA’s role in the development and regulation of the industry is examined. Covers how to reference, interpret and explain aviation law and regulations. Auditors OK.

Covers subject areas for a single-engine land (SEL) airplane additional rating on a Flight Instructor certificate. Covers the aeronautical skill and knowledge necessary to apply for the FAA Flight Instructor – SEL (additional rating) practical test. Flight training fees apply and cover a specific amount of training; additional funds may be required. Prerequisites: AVS 236. Prerequisite/concurrent: AVS 207C.

AVS 244. Airplane CFII Ground/Flight. 2 Credits.
Covers subject areas for an instrument airplane rating on a flight instructor certificate. Presents sufficient information to prepare for the Certified Flight Instructor - Instrument knowledge test. Includes preparation to obtain the aeronautical skill and knowledge necessary to apply for the FAA Flight Instructor - Instrument practical test. Flight training fees apply and cover a specific amount of training; please see the Course Curriculum and Outcome Guide for detailed information. Prerequisites: AVS 236. Prerequisite/concurrent: AVS 207C.

AVS 255. Multi-Crew Operations. 1 Credit.
Designed to expose students to cockpit resource management and issues related to multi-crew environments. Focuses on workload management and checklist usage. Prerequisites: AVS 145 or AVS 156.

AVS 265. Helicopter: CFII Flight. 3 Credits.
Provides the opportunity to present, explain, demonstrate, and assess flight-related skills and knowledge related to all levels of helicopter training, while flying from the Instructor’s seat. Provides training required to prepare for the initial FAA Certified Flight Instructor knowledge and practical tests, and the FAA Fundamentals of Instructing knowledge test. Flight training fees apply and cover a specific amount of training. Additional funding may be required. Prerequisite: AVS 216. Corequisites: AVS 208C.

AVS 266. Helicopter CFII Flight. 1 Credit.
Covers subject areas required to add an Instrument Helicopter rating to a Flight Instructor certificate. Presents sufficient information to prepare for the Certified Flight Instructor - Instrument knowledge test. Includes preparation to obtain the aeronautical skill and knowledge necessary to apply for the FAA Flight Instructor - Instrument practical test. Flight training fees apply and cover a specific amount of training; please see the Course Curriculum and Outcome Guide for detailed information. Prerequisite: AVS 265. Corequisite: AVS 208C.

AVS 267. Economics of Flight Operations. 4 Credits.
Examines management philosophies and accounting procedures as they apply to general aviation. Includes business aspects of maintaining and flying aircraft, operating airport facilities, and managing passenger/cargo activities. Guest speakers from the industry may be featured. Audit available.

AVS 275. Airplane: Professional Pilot. 3 Credits.
Provides further post-commercial instruction and pilot-in-command flight time in single- and multi-engine aircraft for those not selecting the flight instructor option. Flight training fees apply and cover a specific amount of training. Please see the Course Curriculum and Outcome Guide for detailed information. Prerequisite: AVS 225. Corequisites: AVS 207D.