

## AVIATION - COMMERCIAL PILOT

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The Commercial Pilot Training program combines course work in flight training along with other ground school courses to prepare students for obtaining a commercial pilot certificate with instrument rating. To meet these requirements, most students require more than six quarters to complete the training. Because of this need, classes are scheduled each summer quarter. Additional ratings for flight instructor, instrument flight instructor, multi-engine, and seaplane may be earned through special arrangements. Special departmental rules and procedures stated in the BBCC Professional Pilot Course Handbook apply to this program.

Students desiring admission into the Commercial Pilot Training Program must meet appropriate admission requirements stated in section 1.1 of the BBCC Professional Pilot Course Handbook. Contact the Aviation Department 509.793.2241 or [aviation@bigbend.edu](mailto:aviation@bigbend.edu) for specific admission requirements. If some of the basic education requirements have pre-approved substitutions, and all course requirements are met, it is possible for the commercial pilot student to receive both the AA&S and the AAS degrees during the two-year program.

### Commercial Pilot AAS (90 credits)

BBCC offers a two-year Workforce program in aviation for students who wish to prepare for a career as a commercial pilot and not transfer to a four-year college.

Students are required to take all the courses listed below plus any electives necessary to meet quarterly and program credit totals. See the Associate in Applied Science section under Degrees and Certificates for substitutions if you desire both the AA&S and the AAS degrees.

The following schedule of courses is the recommended program for completing this degree. See a program advisor for substitute courses.

Program Learning Outcomes:

IO1 **Communication**

Students will be able to communicate clearly and effectively.

IO2 **Quantitative Reasoning**

Students will be able to reason mathematically.

IO3 **Human Relations/Workplace Skills**

Students will be able to demonstrate teamwork, ethics, appropriate safety awareness and/or workplace specific skills.

PO4 Students will be able to recognize or articulate personal/interpersonal aspects of, or connections between, diverse cultural, social, or political contexts.

PO5 Students will be able to solve problems by gathering, interpreting, combining and/or applying information from multiple sources.

PO6 The students will be able to demonstrate the technical aspects of aircraft control and operation of related systems at the FAA commercially certificated and instrument rated pilot level

PO7 The students will be able to interpret regulatory and legal issues which impact the industry at the FAA commercially certificated pilot level.

PO8 The student will be able to evaluate effective aeronautical decision making skills at the FAA commercially certificated pilot level.

First Year

Fall Quarter

BUS 120 Human Relations on the Job.....	4
OR PSYC& 100 General Psychology	
OR SOC& 101 Introduction to Sociology	
FAD 150 Industrial First Aid.....	2
AVF 111 Preflight Ground School.....	1
AVF 112 Private Pilot Ground School.....	5
AVF 141 Private Pilot Flight (Stage 1).....	4

Winter Quarter

ENGL 109 Applied Technical Writing.....	3
OR ENGL&101 English Composition I	
MAP 103 Applied Math (AVF).....	3
OR MAP 117 Applied Math for Workforce Programs I	
OR MATH& Any college-level SQR course	
AVF 113 Meteorology.....	5
AVF 142 Private Pilot Flight (Stage 2).....	4
AVF 117 Aviation Emergency Preparedness.....	1

Spring Quarter

AVF 114 Theory of Flight.....	5
AVF 143 Private Pilot Flight (Stage 3).....	4
CMST 100 Human Communications.....	4
OR AVF 225 Effective Communications in Flight Instruction	
OR CMST& 220 Public Speaking	

Second Year

Fall Quarter

AVF 223 Instrument Ground School.....	5
AVF 251 Commercial Pilot Flight (Stage 4).....	4
Advisor approved electives/transfer courses*	

Winter Quarter

AVF 221 Commercial Pilot Ground School.....	5
AVF 252 Commercial Pilot Flight (Stage 5).....	4
Advisor approved electives/transfer courses*	

Spring Quarter

AVF 253 Commercial Pilot Flight (Stage 7).....	4
AVF 254 Night Flying.....	1
AVF 261 Instrument Flight (Stage 6).....	4
Advisor approved electives/transfer courses/FAA rating courses*	

\*Electives needed to meet 90 total credits for the AAS. To meet AA&S degree requirements, see advisor for substitute courses.

NOTE: AVF 141, 142, 143, 251, 252, 253, 254, and 261 must be taken to complete the associated stage flight laboratory portion of the program.

### **Commercial Pilot Certificate of Achievement (67 credits)**

The Certificate of Achievement is designed to provide recognition for the student who does not plan to complete an Associate in Applied Science degree program.

Program Learning Outcomes:

**IO1    *Communication***

Students will be able to communicate clearly and effectively.

**IO2    *Quantitative Reasoning***

Students will be able to reason mathematically.

**IO3    *Human Relations/Workplace Skills***

Students will be able to demonstrate teamwork, ethics, appropriate safety awareness and/or workplace specific skills.

**PO4**    Students will be able to recognize or articulate personal/interpersonal aspects of, or connections between, diverse cultural, social, or political contexts.

**PO5**    Students will be able to solve problems by gathering, interpreting, combining and/or applying information from multiple sources.

AVF 111 – AVF 261 .....	51
BUS 120 Human Relations on the Job.....	4
OR PSYC& 100 General Psychology	
OR SOC& 101 Introduction to Sociology	
CMST 100 Human Communications.....	4
OR AVF 225 Effective Communications in Flight Instruction	
OR CMST& 220 Public Speaking	
ENGL 109 Applied Technical Writing.....	3
OR ENGL&101 English Composition I	
MAP 103 Applied Math (AVF) .....	3
OR MAP 117 Applied Math for Workforce Programs I .....	
OR MATH& Any college-level SQR course.....	
FAD 150 Industrial First Aid.....	2

### **Certificate of Accomplishment**

Students who are interested in training in specialized areas of flight will be awarded Certificates of Accomplishment from BBCC as follows:

#### **Aircraft Solo Certificate of Accomplishment (5 credits)**

Program Learning Outcomes:

**IO3    *Human Relations/Workplace Skills***

Students will be able to demonstrate teamwork, ethics, appropriate safety awareness and/or workplace specific skills.

AVF 111 Preflight Ground School.....	1
AVF 141 Private Pilot Flight (Stage 1).....	4

#### **Private Pilot Certificate Certificate of Accomplishment (18 credits)**

Program Learning Outcomes:

**IO3 *Human Relations/Workplace Skills***

Students will be able to demonstrate teamwork, ethics, appropriate safety awareness and/or workplace specific skills.

AVF 112 Private Pilot Ground School ..... 5  
AVF 113 Meteorology ..... 5  
AVF 142 Private Pilot Flight (Stage 2)..... 4  
AVF 143 Private Pilot Flight (Stage 3)..... 4

**Commercial Pilot Certificate of Accomplishment (23 credits)**

Program Learning Outcomes:

**IO3 *Human Relations/Workplace Skills***

Students will be able to demonstrate teamwork, ethics, appropriate safety awareness and/or workplace specific skills.

AVF 114 Theory of Flight ..... 5  
AVF 221 Commercial Pilot Ground School ..... 5  
AVF 251 Commercial Pilot Flight (Stage 4)..... 4  
AVF 252 Commercial Pilot Flight (Stage 5)..... 4  
AVF 253 Commercial Pilot Flight (Stage 7)..... 4  
AVF 254 Night Flying ..... 1

**Instrument Pilot Certificate of Accomplishment (19 credits/2 quarters)**

Program Learning Outcomes:

**IO3 *Human Relations/Workplace Skills***

Students will be able to demonstrate teamwork, ethics, appropriate safety awareness and/or workplace specific skills.

AVF 223 Instrument Ground School..... 5  
AVF 261 Instrument Flight Instruction (Stage 6)..... 4

**Flight Instructor (CFI) Certificate of Accomplishment (9 credits)**

Program Learning Outcomes:

**IO1 *Communication***

Students will be able to communicate clearly and effectively.

AVF 225 Effective Communication in Flight Instruction ..... 5  
AVF 270 Flight Instructor..... 4

**Flight Instructor Instrument (CFII) Certificate of Accomplishment (2 credits)**

Program Learning Outcomes:

**IO3 *Human Relations/Workplace Skills***

Students will be able to demonstrate teamwork, ethics, appropriate safety awareness and/or workplace specific skills.

AVF 271 Flight Instructor Instrument Airplane ..... 2

**Sea Plane Certificate of Accomplishment (2 credits)**

Program and Certificate Learning Outcomes:

**IO3 Human Relations/Workplace Skills**

Students will be able to demonstrate teamwork, ethics, appropriate safety awareness and/or workplace specific skills.

AVF 272 Sea Plane Flight ..... 2

**Multi-Engine Certificate of Accomplishment (2 credits)**

Program Learning Outcomes:

**IO3 Human Relations/Workplace Skills**

Students will be able to demonstrate teamwork, ethics, appropriate safety awareness and/or workplace specific skills.

AVF 275 Multi-Engine Flight ..... 2

**Simulator Training Certificate of Accomplishment (1 credit)**

Program Learning Outcomes:

**IO3 Human Relations/Workplace Skills**

Students will be able to demonstrate teamwork, ethics, appropriate safety awareness and/or workplace specific skills.

AVF 276 Simulator Training/Instrument Training ..... 1

**Multi-Engine Instructor (MEI) Certificate of Accomplishment (2 credits)**

Program Learning Outcomes:

**IO3 Human Relations/Workplace Skills**

Students will be able to demonstrate teamwork, ethics, appropriate safety awareness and/or workplace specific skills.

AVF 291 Multi-Engine Instructor ..... 2

**ATP: Multi-Engine Certificate of Accomplishment (1 credit)**

Program Learning Outcomes:

**IO3 Human Relations/Workplace Skills**

Students will be able to demonstrate teamwork, ethics, appropriate safety awareness and/or workplace specific skills.

AVF 292 ATP: Multi-Engine ..... 1



