## BAYLOR <br> Aviation Sciences Major AVIATION SCIENCES <br> Professional Pilot - Airplane <br> 

## Bachelor of Science in Aviation Sciences: Professional Pilot - Airplane Concentration

The Professional Pilot - Airplane Concentration of the Aviation Sciences Major is for students wanting a career as a pilot. Each student graduating with the Professional Pilot - Airplane Concentration will have flying qualifications to the Commercial Pilot level (including instrument and multi-engine ratings), along with a Certified Flight Instructor (CFI) certificate. Flight training is conducted by the Baylor University Flight Center at the Waco Regional Airport.

Aviation Sciences Major, Professional Pilot - Airplane Concentration............ 125 hrs total
I. Basic Requirements .42 hrs
A. Chapel

- Two semesters of CHA 1086, 1087, 1088, 1090, or 1091 (no credit hours)
B. Creative Arts Experience
- Attend 12 events (no credit hours)
C. English - 3 hrs
- ENG 2310 American Literary Cultures
D. History - 3 hrs
- HIS 1300 The United States in Global Perspective
E. Political Science - 3 hrs
- PSC 1387 The US Constitution
F. Religion - 6 hrs
- REL 1310 Christian Scriptures
- REL 1350 Christian Heritage
G. Courses Selected from Distribution Lists - 18 hrs
- Communication and Media Literacy - 3 hrs
- Contemporary Social Issues - 3 hrs
- Fine Arts - 3 hrs
- Formal Reasoning - met in Sec III
- Literature in Context - 3 hrs

- Research Writing - 3 hrs
- Scientific Method I: Course with Lab Experience - met in Sec III
- Scientific Method II: Grand Challenges in Science - 3 hrs


## H. Foreign Language and Culture - $\mathbf{8}$ to $\mathbf{1 2}$ hrs

- OPTION ONE: (two courses - 8 hrs )
- Complete intensive language courses 1412 and 2412 in German or Spanish
- Both courses must be from the same language and both must be completed in residence
- OPTION TWO: (three courses - 9 hrs )
- Complete one Modern or Classical language through third-semester level (2310)
- Choose from Arabic, Chinese, French, German, Greek, Hebrew, Italian, Japanese, Korean, Latin, Portuguese, Russian, Spanish, or Swahili
- 6 hours must be in residence
- OPTION THREE: (four courses - 12 hrs )
- Complete two Classical languages (Greek, Latin, Hebrew) 1301 and 1302
- 6 hours must be in residence


## I. Lifetime Fitness Activity Course (LF) - 1 hr

## II. Aviation Science courses.

## A. Ground and Flight Training Courses - $\mathbf{3 1}$ hrs

- AVS 1301 Air Navigation
- AVS 1302 Private Pilot Ground School
- AVS 1303 Instrument Ground School
- AVS 2304 Commercial Ground School
- AVS 3305 Instructor Ground School
- AVS 1331 Private Pilot Flight
- AVS 1332 Instrument Flight
- AVS 2333 Commercial Flight I
- AVS 2334 Commercial Flight II
- AVS 3236 Certified Flight Instructor (CFI)
- AVS 4237 Certified Flight Instructor - Instrument (CFII) OR 3235 Multi-Engine Flight
B. Aviation Science courses - $\mathbf{3 9}$ hrs
- Required Courses - $\mathbf{2 4}$ hrs
- AVS 1300 Introduction to Aviation
- AVS 1313 Introduction to Meteorology
- AVS 3310 Aviation Law
- AVS 3311 Aircraft Accident Investigation and Prevention
- AVS 3312 Aviation Safety
- AVS 3315 Aviation Meteorology
- AVS 4314 Advanced Aircraft Systems
- AVS 4315 Aerodynamics


## - Elective Courses - Choose 15 hrs

- AVS 3320 Flight Crew Career Development
- AVS 3350 Introduction to Space Weather
- AVS 3370 Aviation Leadership
- AVS 4376 Aviation Management
- AVS 4317 Aerospace Propulsion Systems
- AVS 4318 Avionics Systems Design (ELC 4318)
- AVS 4375 Crew Resource Management
- AVS 4390 Internship in Aviation
- AVS 4306 Instructor - Instrument Ground School
- AVS 4237 Certified Flight Instructor - Instrument (CFII)
- AVS 4238 MEI Flight


## III. Required courses in other fields

13 hrs

- Computer Science (CSI) 3303 or 3305 or 4301 Information Technology
- Math (MTH) 1321 Calculus I (Prereq: Grade of B or better in MTH 1320 or a score of 80 or better on the ALEKS)
- Math (MTH) 1322 Calculus II OR Statistics (STA) 2381 Introductory Statistical Methods (Prereq: Grade of C or better in MTH 1321)
- Physics (PHY) 1408 General Physics for Natural \& Behavioral Sciences I (Algebra Based) OR 1420 General Physics I (Calculus-based) (Prereq: MTH 1321 or concurrent enrollment)

