# Aviation Sciences Major Professional Pilot - Airplane



## 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.

<b>Aviation Sciences Major,</b>	<b>Professional Pilot – Airplane Concentration</b>	125 hrs tota
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 - 8 to 12 hrs

- OPTION ONE: (two courses 8 hrs)
  - o 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)
  - o 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
  - o 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......70 hrs

#### A. Ground and Flight Training Courses - 31 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 - 39 hrs

#### • Required Courses - 24 hrs

- o AVS 1300 Introduction to Aviation
- AVS 1313 Introduction to Meteorology
- AVS 3310 Aviation Law
- o AVS 3311 Aircraft Accident Investigation and Prevention
- o AVS 3312 Aviation Safety
- AVS 3315 Aviation Meteorology
- AVS 4314 Advanced Aircraft Systems
- o AVS 4315 Aerodynamics

#### • Elective Courses - Choose 15 hrs

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

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- 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)