Bachelor of Science in Aviation Sciences – Professional Pilot Concentration

The Professional Pilot concentration of the Bachelor of Science in Aviation Science degree is for students wanting a career as a pilot. Each student graduating with a Professional Pilot Concentration of the Bachelor of Science in Aviation Sciences degree will have flying qualifications to the Commercial Pilot level (including an instrument rating), along with a Certified Flight Instructor (CFI) certificate. This program is offered in conjunction with Texas State Technical College (TSTC) in Waco.

Bachelor of Science in Aviation Sciences - Professional Pilot Concentration ..................................................126 hrs total

I. Basic Requirements ................................................................................................................................. 40 to 45 hrs

A. English Requirements (ENG) - 12 hrs
   - ENG 1302 Thinking & Writing or FAS 1302 Freshman Academic Seminar
   - ENG 3300 Technical and Professional Writing (Prereq: ENG/FAS 1302)
   - ENG 2301 British Literature (Prereq: ENG/FAS 1302 and ENG 1304/3300)
   - ENG 2306 World Literature (or 3 hours of “2000” level or above Great Texts (GTX)) (Prereq: ENG/FAS 1302 and ENG 1304/3300)

B. Foreign Language - 3 to 8 hrs
   - Any foreign language through two semesters or above. A placement test may be taken to place out of one semester, with only the second 4 hr course needing to be taken OR a proficiency exam may be taken for a fee to place out of both semesters. The proficiency exam will count as a 3 hr credit.

C. Political Science (PSC) - 3 hrs
   - PSC 2302 American Constitutional Development

D. Religion (REL) - 6 hrs
   - REL 1310 Christian Scriptures or FAS 1310 Freshman Academic Seminar: Religion
   - REL 1350 Christian Heritage or FAS 1308 Freshman Academic Seminar: Religion

E. Psychology (PSY) or Sociology (SOC) - 3 hrs
   - PSY 1305 Introductory Psychology
   OR
   - SOC 1305 Introduction to Sociology
F. History (HIS) - 6 hrs (Choose 2 courses)

- HIS 1305 World History to 1500
- HIS 1307 World History since 1500
- HIS 2365 History of the United States to 1877
- HIS 2366 History of the United States since 1877

G. Communication Studies (CSS) - 3 hrs

- CSS 1301 Public Communication
  OR
- CSS 1302 Speech for Business/Professional Students

H. Lifetime Fitness (LF) - 4 hrs

- Any four activity courses

I. Chapel (CHA)

- Two semesters of CHA 1088 (required, but worth no credits)

II. Air Pilot and Aviation Science courses.................................................................64 hrs

A. Air Pilot (AIRP) courses from TSTC - 11 hrs

- AIRP 1215 Private Pilot Flight
- AIRP 2250 Instrument Flight
- AIRP 1255 Intermediate Flight
- AIRP 2239 Commercial Flight
- AIRP 2236 Certified Flight Instructor
- AIRP 2151 Multi-engine flight

B. Aviation Science (AVS) courses from Baylor - 53 hrs

- Required Courses – 38 hrs
  - AVS 1300 Introduction to Aviation
  - AVS 1313 Introduction to Meteorology
  - AVS 1301 Air Navigation
  - AVS 1417 Private Pilot Ground
  - AVS 1451 Instrument Ground School
  - AVS 2337 Commercial Ground School
  - AVS 2349 Instructor Ground School
  - AVS 3310 Aviation Law
  - AVS 3311 Aircraft Accident Investigation and Prevention
  - AVS 3315 Aviation Meteorology
  - AVS 4314 Advanced Aircraft Systems
  - AVS 4315 Aerodynamics
• Elective Courses – 15 hrs (Choose 5 courses)
  o AVS 3320 Flight Crew Career Development
  o AVS 3350 Introduction to Space Weather
  o AVS 3370 Aviation Leadership
  o AVS 4310 Aviation Management
  o AVS 4318 Avionics Systems Design (ELC 4318)
  o AVS 4375 Crew Resource Management
  o AVS 4390 Internship in Aviation

III. Required courses in other fields..................................................................................................................17 hrs

• Computer Science (CSI) 3303 or 3305 or 4301 Information Technology
• Math (MTH) 1321 Calculus I (prereq: Grade of C or better in MTH 1320 (Pre-calculus) or satisfactory performance on departmental placement exam)
• MTH 1322 Calculus II OR Statistics (STA) 2381 Introductory Statistical Methods (Prereqs: C or better in MTH 1321)
• Physics (PHY) 1408 General Physics for Natural Sciences I (Algebra Based) OR 1420 General Physics I (Calculus-based)

• Laboratory Science with appropriate lab – 4 hrs (Choose one of the following options)
  o BIO 1305 & 1105
  o BIO 1306 & 1106
  o BIO 1405
  o BIO 1406
  o CHE 1301 & 1101
  o CHE 1302 & 1102
  o ENV 1301 & 1101
  o ENV 1303 & 1103
  o GEO 1401
  o GEO 1402
  o GEO 1403
  o GEO 1405
  o GEO 1406
  o GEO 1408
  o NSC 1306 & 1106
  o PHY 1409
  o PHY 1430