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. 125 hrs total

I. Basic Requirements ..................................................................................................................48 to 49 hrs

A. Chapel (CHA)
   - Two semesters of CHA 1088 (no credit hours)

B. Cultural Events Experience (CEE)
   - Four semesters of CEE 1001 (no credit hours)

C. English (ENG) - 3 hrs
   - ENG 2310 American Literary Cultures

D. History (HIS) - 3 hrs
   - HIS 1300 The United States in Global Perspective

E. Political Science (PSC) - 3 hrs
   - PSC 2302 The US Constitution

F. Religion (REL) - 6 hrs
   - REL 1310 Christian Scriptures
   - REL 1350 Christian Heritage

G. Courses Selected from Distribution Lists - 18 hrs
   - Communications and Media Literacy – 3 hrs
   - Contemporary Social Issues – 3 hrs
   - Fine Arts and Performing 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 9 hrs

- OPTION ONE: (two courses) 8 hours selected from intensive language courses in German or Spanish (both courses must be from the same language and both must be completed in residence): 1412 and 2412.

- OPTION TWO: (three courses)
  - 3 hours from: 2310 level course (or equivalent) from Arabic, Chinese, French, German, Greek, Hebrew, Italian, Japanese, Korean, Latin, Portuguese, Russian, Spanish, or Swahili
  - 6 additional hours from the Foreign Language and Culture distribution list.

- OPTION THREE: (three courses)
  - 6 hours from 1302 courses from Latin, Greek, Hebrew, or Aramaic
  - 3 additional hours from the Foreign Language and Culture distribution list.

I. Lifetime Fitness (LF) - 1 hr

- Any activity course

J. Electives - 6 hrs

II. Air Pilot and Aviation Science courses.................................................................63 hrs

A. Air Pilot (AIRP) courses from TSTC - 10 hrs

- AIRP 1215 Private Pilot Flight
- AIRP 2250 Instrument Flight
- AIRP 1175 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 1301 Air Navigation
  - AVS 1313 Introduction to Meteorology
  - 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)
  - AVS 3320 Flight Crew Career Development
  - AVS 3350 Introduction to Space Weather
  - AVS 3370 Aviation Leadership
  - AVS 4310 Aviation Management
  - AVS 4318 Avionics Systems Design (ELC 4318)
  - AVS 4375 Crew Resource Management
  - AVS 4390 Internship in Aviation
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 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)