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

#### A Suggested Sequence of Required Courses (2016-2017 Catalog)

#### Freshman Year

<table>
<thead>
<tr>
<th>Fall</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 Chapel (CHA 1088)</td>
<td>0 Chapel (CHA 1088)</td>
</tr>
<tr>
<td>3 AVS 1300</td>
<td>3 ENG 1302</td>
</tr>
<tr>
<td>3 AVS 1313</td>
<td>3 MTH 1321 (see reverse)</td>
</tr>
<tr>
<td>2 AVS 1301</td>
<td>3 HIS 1305/1307/2365/2366</td>
</tr>
<tr>
<td>3 AVS 1417</td>
<td>3 Lab Science (see below)</td>
</tr>
<tr>
<td>4 AIRP 1215* (See TSTC Below)</td>
<td>3 AVS 3315</td>
</tr>
<tr>
<td><strong>Total:</strong> 15</td>
<td><strong>Total:</strong> 16</td>
</tr>
</tbody>
</table>

#### Sophomore Year

<table>
<thead>
<tr>
<th>Fall</th>
<th>Spring</th>
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</thead>
<tbody>
<tr>
<td>4 Foreign Language (see reverse)</td>
<td>4 Foreign Language (see reverse)</td>
</tr>
<tr>
<td>3 MTH 1322/STA 2381</td>
<td>3 REL 1310</td>
</tr>
<tr>
<td>3 PSC 2302</td>
<td>3 CSS 1301 or 1302</td>
</tr>
<tr>
<td>4 AVS 1451</td>
<td>3 CSI 3303 (spring only) or 3305 or 4301</td>
</tr>
<tr>
<td>2 AIRP 2250* (See TSTC Below)</td>
<td>3 AVS 3311</td>
</tr>
<tr>
<td><strong>Total:</strong> 16</td>
<td><strong>Total:</strong> 18</td>
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</tbody>
</table>

#### Junior Year

<table>
<thead>
<tr>
<th>Fall</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Lifetime Fitness</td>
<td>1 Lifetime Fitness</td>
</tr>
<tr>
<td>3 REL 1350</td>
<td>3 HIS 1305, 1307, 2365 or 2366</td>
</tr>
<tr>
<td>3 PSY/SOC 1305</td>
<td>4 PHY 1408 or 1420</td>
</tr>
<tr>
<td>3 AVS 3310</td>
<td>3 ENG 3300</td>
</tr>
<tr>
<td>3 AVS 2337</td>
<td>3 AVS 2349</td>
</tr>
<tr>
<td>2 AIRP 2239* (See TSTC below)</td>
<td>2 AIRP 2236* (See TSTC below)</td>
</tr>
<tr>
<td><strong>Total:</strong> 15</td>
<td><strong>Total:</strong> 16</td>
</tr>
</tbody>
</table>

#### Senior Year

<table>
<thead>
<tr>
<th>Fall</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 AVS 4315</td>
<td>3 AVS 4314</td>
</tr>
<tr>
<td>3 AVS Advanced Elective</td>
<td>3 AVS Advanced Elective</td>
</tr>
<tr>
<td>3 AVS Advanced Elective</td>
<td>3 AVS Advanced Elective</td>
</tr>
<tr>
<td>3 AVS Advanced Elective</td>
<td>3 AVS Advanced Elective</td>
</tr>
<tr>
<td>3 ENG 2301</td>
<td>3 ENG 2304, 2306 or 2000-4000 GTX</td>
</tr>
<tr>
<td>1 Lifetime Fitness</td>
<td>1 Lifetime Fitness</td>
</tr>
<tr>
<td><strong>Total:</strong> 16</td>
<td><strong>Total:</strong> 14</td>
</tr>
</tbody>
</table>

All students must graduate with a minimum of 124 hours, 36 of which must be at the 3000/4000 level.

### Notes about major requirements:
- Baylor Institute for Air Sciences offers a four-year undergraduate program developed specifically for people who wish to pursue careers in aviation. Each graduating student will receive a Bachelor of Science in Aviation Sciences in one of three concentrations: Professional Pilot, Aircraft Dispatch or Air Traffic Control.
  1. **Professional Pilot:** Those students who select the Professional Pilot concentration will have flying qualifications to the Commercial Pilot level (including instrument rating and multiengine rating), along with a Certified Flight Instructor (CFI) license.
  2. **Aircraft Dispatch:** Those students who select the Aircraft Dispatch concentration will have completed the necessary requirements to complete the FAA Dispatch Written Exam and the oral practical exam. Successful completion of these exams leads to FAA Aircraft Dispatcher certification.
  3. **Air Traffic Control:** The Air Traffic Control concentration is for students wanting a career as an Air Traffic Controller. In order to meet the requirements for the FAA's Air Traffic Collegiate Training Initiative Program and be eligible to become an FAA Air Traffic Controller, students must obtain an Associate's Degree from TSTC (requirements for the TSTC degree can be met by taking the classes required for the Baylor degree). Also, in order to meet the FAA's age requirements, students in the Air Traffic Control concentration should graduate by age 29.
- This program is offered in conjunction with the Texas State Technical College (TSTC) at Waco and requires students to apply to TSTC.
- **English requirement:** Freshman Academic Seminars (FAS) may be substituted for ENG 1302. These seminars introduce first year students to the world of academics and the scholarly community through exploration of topics of significant cultural/social importance. Emphasizes critical inquiry and thinking, research, writing, and problem solving. May substitute for a basic requirement on certain degrees only in the College of Arts and Sciences.
- **Lab Science:** Please refer to your audit for a list of appropriate lab sciences. Not all lab science classes will fulfill this requirement.
- Not all classes are offered every semester, therefore, the AVS and AIRP classes are listed under the particular fall or spring semesters they are offered.
- **TSTC - these classes will be taken at the TSTC campus.**
- * - the asterisk denotes flying classes (special flight fees apply)
- Check your degree audit often through Bearweb to ensure that you are making timely progress toward your degree.
- For more information, see the undergraduate catalog.

Please see reverse side for important information on general requirements.
Notes about General Requirements:
• Course selection is subject to availability within each semester.
• Please keep in mind that this is only a suggested sequence. Actual sequence will vary according to possible second major, minor, other program of study (including pre-health), and individual circumstances (ex., transfer credit, dual credit, and credit by exam).
• In order to complete your degree, you must fulfill all requirements in your major and general requirements for the Bachelor of Science; refer to your audit for specific details.
• To complete a double major, you may not count any courses toward both majors.
• For more specific information on general requirements, see your undergraduate catalog.
• Check your degree audit often through Bearweb to ensure that you are making timely progress toward your degree.

Foreign Language:
- **Option A:** One modern language through 1402 level:
  Arabic, Chinese, French, German, Italian, Japanese, Korean, Portuguese, Russian, Spanish, and Swahili
- **Option B:** One classical language through 1302 or 1402 level:
  Latin, Greek, Hebrew (If available, Akkadian, Aramaic, Syriac, and/or Ugaritic may be used)

Math: You may need to take MTH 1320 (Pre-Cal) as a prerequisite to MTH 1321 (Calculus) if you do not already have an equivalent credit for Pre-Cal or cannot register for Calculus based on SAT/ACT scores. You will need to contact the Math Department (254-710-3561) about the Math Placement Exam (MPE) if you cannot register for MTH 1321 based on any of the above methods of entrance.

Biology/Chemistry Prerequisite Policies:
- **Biology:** In order to register for BIO 1305 and 1306 students must have either a satisfactory math score on the ACT or SAT OR have completed MTH 1320 (Pre-Calculus) with a grade of B or better.
- **Chemistry:** In order to register for CHE 1301, students must have either a satisfactory math score on the ACT (24) or SAT (550). If you do not meet one of these requirements, you will be asked to complete the ALEKS (Assessment and Learning in Knowledge Spaces) course and earn 85% mastery or higher.