AVIATION SCIENCES DEGREE
The Bachelor of Science in Aviation Sciences (B.S.A) is a four-year undergraduate program with options that allow you to serve on the ground or take to the skies. While at Baylor, you will have exposure to all the energizing student life activities you would expect from a Big 12 University, inside a faith-based community that fosters personal and professional growth. Baylor prepares you for a FULL-THROTTLE career in the aeronautics industry.

AVIATION ADMINISTRATION MAJOR
In partnership with Baylor's Hankamer School of Business, the Aviation Administration major is for students who wish to pursue a career on the business side of the aviation industry. The degree focuses on a variety of courses in Aviation, Business, and Communication, merging the individual concepts into a strong foundation that prepares you for key operational and managerial positions within the aviation community.

AVIATION SCIENCES MAJOR
Our Aviation Sciences major propels you into the atmosphere as you attend classes THOUSANDS of feet off the ground! In the Professional Pilot - Airplane concentration, you will earn your Private Pilot’s License, Instrument Rating, Commercial License, Certified Flight Instructor (CFI-A) Certificate, and either a Certified Flight Instructor - Instrument (CFI-I) or Multi-Engine Rating by your senior year. You will then have the opportunity to work as a flight instructor in your final year.

Graduates from the airplane concentration are eligible for a 500 hour reduction in the amount of flight hours (required to fly for airlines) and students can benefit from our Airline Partnerships that offer signing bonuses, airline benefits, and accelerated employment after graduation.

In the Professional Pilot - Helicopter concentration earn a Private Pilot’s License, Instrument Rating, Commercial License, Certified Flight Instructor (CFI) and Certified Flight Instructor - Instrument (CFI-I) Certificates, and Night Vision Goggle Training.

All flight training is conducted at the Baylor University Flight Center located at the Waco Regional Airport and operated by Universal Flight Concepts - where safety is top priority.

WHAT TO DO AFTER COLLEGE?
- Airline Pilot
- Corporate Pilot
- Military Pilot
- Aerial Firefighter
- Aviation Analyst
- FBO Management
- Flight Instructor
- Cargo Pilot
- Airway Management
- Missionary Pilot
- Space Exploration/Astronaut
- Aerial Search & Rescue
- Weather Researcher
- Aviation Analyst
- Test Pilot
- Simulator Instructor

DISTINCTIVE ASPECTS OF THE PROGRAM
- FAA Part 141 certified FLIGHT TRAINING.
- LOWEST flight instructor-to-student ratio - you will fly as often as you need to!
- STATE-OF-THE-ART facility and equipment.
- Get to the AIRLINES faster with our FAA approved 500-hour reduction for the Restricted ATP license.
- PERSONAL ATTENTION of highly qualified, industry authenticated instructors and faculty.
- Nationally ranked, Carnegie-classified “RESEARCH 1” university.
- Immediate career opportunities with AIRLINE PARTNERSHIPS.
- UNIQUE blend of big-school opportunities at a Christian University where the CHRISTIAN PERSPECTIVE is valued and encouraged.

CONTACT INFORMATION
Mailing Address: One Bear Place #97413, Waco, Texas 76798-7413
Physical Address: Hankamer Academic Center
1428 S. 5th Street, Suite H040, Waco, TX 76708
Phone: 254-710-3563
Email: Aviation@baylor.edu
www.baylor.edu/aviation

FACULTY
The faculty and staff provide an outstanding support system throughout your Baylor experience. Our students are our top priority! Small class sizes mirror the unique community of pilots and the airline industry, and create an engaging learning environment offering personal first-name basis relationships with professors.

DIRECTOR
William B. (Trey) Cade III, Ph.D.
Baylor Institute of Air Science
B.S. in Meteorology, Texas A&M University

ASSISTANT DIRECTOR, CHIEF OF FLIGHT OPERATIONS, and CHIEF GROUND INSTRUCTOR
Timothy J. Compton, M.Sc.
Baylor Institute of Air Science
M.Sc. in Environmental Science, Baylor University
B.S in Aeronautical Science, Saint Louis University
Commercial Pilot and Certified Flight Instructor

LECTURER
Russell S. (Rusty) Sloane
Master of Business Administration, Baylor University
Bachelor of Arts - The Virginia Military Institute

Baylor Institute for Air Science is a member of the Aviation Accreditation International Board (AABI), the National Business Aviation Association (NBAA), Women in Aviation, International (WAI), and the University Aviation Association (UAA), a professional association that fosters excellence in collegiate aviation education.
US NEWS & WORLD REPORT RANKINGS (2024)
- National Universities #93 - in Collegiate Aviation #3
- Most Innovative Schools #38 - in Collegiate Aviation #4
- Best Undergraduate Teaching #22 - in Collegiate Aviation #2
- First Year Experiences #5 - in Collegiate Aviation #1

MORNING CONSULT (2023)
- Top 10 Most Trusted Universities - #2 Among Parents

WALL STREET JOURNAL IN STUDENT ENGAGEMENT (2022)
- Nationally #4

STUDENT TESTIMONIALS
BAYLOR AVIATION

"I've enjoyed the people I met, friends I made, and the amazing faculty who've impacted my life in numerous ways. I also enjoyed the unique opportunities that have been afforded to me at the academic and extracurricular environment." - Michael A.

"The small size of the program came with various benefits that wouldn't be there for us otherwise. All of the instructors know you and care about you, and the department makes us feel loved and treats us well." - Daniel A.

BAYLOR UNIVERSITY FLIGHT CENTER OPERATING BY UNIVERSAL FLIGHT CONCEPTS

"I have been a student at many flight schools, but Universal Flight Concepts has provided the best quality training and efficiency I have ever received. They worked well with my college schedule yet kept me flying consistently. I am a better pilot because of it today. "Universal Flight Concepts provides a level of training and efficiency that cannot be found anywhere else. Period!" - Patrick P.

"Thanks to Universal I was more than prepared for the airlines when I graduated. With rigorous training in a fast paced environment, I didn't feel quite as overwhelmed when I got to training for Skywest. In addition to the training I also can't thank Universal enough for giving me the opportunity to be able to have the required minimum hours only a month after I graduated."

"It was a great time learning at UFC. From the great instructors to the state-of-the-art aircraft, I always felt safe during every flight and always excited to come and fly. With that, it was a great honor when I was finished to be asked to come and instruct for UFC."- Dylan E.

"Universal for me was crucial in preparing me towards achieving my dream of becoming an airline pilot. In training I was held to a high standard and received excellent instruction on how to achieve that standard. As an instructor, I did my best to keep that standard for my students, and with myself. This helped me to understand and to strive for excellence and professionalism, crucial for any pilot, but especially for the airlines. I could not have made it without Baylor and UFC." - Lewis C.

"Thanks to Universal for me was crucial in preparing me towards achieving my dream of becoming an airline pilot. In training I was held to a high standard and received excellent instruction on how to achieve that standard. As an instructor, I did my best to keep that standard for my students, and with myself. This helped me to understand and to strive for excellence and professionalism, crucial for any pilot, but especially for the airlines. I could not have made it without Baylor and UFC." - Lewis C.

"To be blessed enough to train at UFC, is to experience growth, state-of-the-art equipment, and people who care so much about your safety and success. The number of aircraft available and set scheduling ensure that students are on track for a rating they desire within the short span of 4-5 months. The community and staff built at this special place make flight school not only a place to build a career, but a second home. If you believe in yourself, work hard, and stay organized, success will be the only option." - Lexi G.

"UFC is a strong, fast paced environment with high professional standards. Going to UFC I know I am getting the highest quality training there is, and I am proud to call it my flight school." - Garey L.
Careers in Aviation
Career Preparation Strategies

BACHELOR’S DEGREE – The first step in preparing for a successful career in aviation, is deciding to earn your bachelor’s degree at Baylor University. A four-year degree may not be required for some jobs in aviation, but some major airlines require it for their pilot positions, and it will most certainly give you an advantage over someone without one. The benefits of the increased confidence and knowledge a Baylor bachelor’s degree affords is calculable in future earnings, career longevity, and upward mobility.

PROFESSIONAL DEVELOPMENT - Some common strategies include taking advantage of the tools and resources provided by Baylor University’s Career Center (www.baylor.edu/careercenter), academic advisors, faculty, and administrative personnel. The Career Center can provide information and direction that will get you started and keep you on track. They offer mentorship programs with Baylor Alumni, resume building and cover letter resources, guidance with honing interviewing skills, an internship and employment database, Career Success Professionals that assist with career discovery and coaching, and more. Don’t shy away from reaching out for additional guidance.

NETWORK - Growing your professional network is essential in career preparation and Baylor University is the perfect place to start. You will be side by side every day with others who share your interests and all the positive interactions you have, experiences you share, relationships you build, and friendships you forge can make an enormous impact on your future. Aviation is a small but far-reaching community and it’s highly probable that as a member of that community and the Baylor family, you will not only be exposed to networking opportunities with industry professionals who you will encounter again in the future, but who will add depth and substance to your college experience. Attending Aviation Conferences and joining Professional Aviation Organizations as a student member (such as the University Aviation Association, Women in Aviation International, or the American Association of Airport Executives) can provide additional networking opportunities.

INTERNSHIPS & VOLUNTEER OPPORTUNITIES – Building your resume with experience in the aviation field is vital to your future success. You will have ample exposure to the aviation industry at Baylor with local opportunities to explore entry-level jobs or opportunities to volunteer in the aviation field. Carve out the time in your schedule, but never at the risk of your grades.

WORK EXPERIENCE – No job or volunteer opportunity in aviation is too small, unimportant, or “beneath you”. While you are still a student, work on building the traits of a strong employee. Become the kind of employee that employers value and exercise those skills in the classroom. Manage your time well, show up early and be prepared, have a strong work ethic, sharpen your communication skills, be versatile and adaptable, show enthusiasm and good judgement, display confidence.

The sky is NOT the limit!

<table>
<thead>
<tr>
<th>Types of Pilots</th>
<th>Other Aviation-Related Fields</th>
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<tbody>
<tr>
<td>Airline</td>
<td>Airport Operations</td>
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<td>Corporate</td>
<td>Resource Management</td>
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<tr>
<td>Military</td>
<td>Consulting</td>
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<tr>
<td>Missionary</td>
<td>Fixed Base Operations Management</td>
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<tr>
<td>Law Enforcement</td>
<td>Safety Management</td>
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<tr>
<td>Flight Test</td>
<td>Commercial Space Operations</td>
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<tr>
<td>Air Tour/Sight-Seeing</td>
<td>Aviation Insurance</td>
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<tr>
<td>Search and Rescue</td>
<td>Flight Operations Analyst</td>
</tr>
<tr>
<td>Aerial Firefighter</td>
<td>Aviation Advocacy and Policy Organizations</td>
</tr>
<tr>
<td>Flight or Simulator Instructor</td>
<td>Airport Planning</td>
</tr>
<tr>
<td>Cargo</td>
<td>Revenue Management</td>
</tr>
<tr>
<td>Agriculture</td>
<td>Aircraft Manufacturing &amp; Sales</td>
</tr>
<tr>
<td>Unmanned Aircraft</td>
<td>Aircraft Dispatcher</td>
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<tr>
<td></td>
<td>Ramp Controller</td>
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<tr>
<td></td>
<td>Research (alternative fuels, atmosphere, aeronautics, aerodynamics, climate, navigation, etc.)</td>
</tr>
</tbody>
</table>
We offer majors in *Aviation Administration* and *Aviation Sciences* with a concentration in *Professional Pilot – Airplane or Helicopter*.

### PROFESSIONAL PILOT CONCENTRATION – AIRPLANE OR HELICOPTER

- The capacity for the Professional Pilot concentration is limited and highly competitive. An application process for new pilot students is integrated into Baylor’s GoBaylor application system. Once students declare their intended concentration, they must follow all outlined steps in GoBaylor and meet each of the posted deadlines to be accepted into the program and be offered and retain a flight slot.

- To review specific degree requirements and current cost estimates associated with the Professional Pilot concentration, please refer to the Student Information tab on our website at [www.baylor.edu/aviation](http://www.baylor.edu/aviation).

- Fixed-Wing (airplane) flight training courses required for the degree include Private Pilot, Instrument, Commercial, and Certified Flight Instructor (CFI-A) and will have the option of earning either Certified Flight Instructor – Instrument (CFI-I) or the Multi-Engine certificate. Additional fees are associated with all flight courses.

- Rotary-Wing (helicopter) flight training courses required include Private Pilot, Instrument, Commercial, Certified Flight Instructor (CFI), Certified Flight Instructor – Instrument (CFII), and Night Vision Goggle training. Additional fees are associated with all flight courses.

- Pilot licenses and ratings earned outside of Baylor can be transferred for academic credit, but after starting at Baylor, all Part 141 flight training will be completed at Baylor University’s Flight Center operated by Universal Flight Concepts at the Waco Regional Airport – 7727 Karl May Drive, Waco, TX 76708.

### FAA Medical Certificate Requirement

- All Professional Pilot students are required to obtain a Class I (Airplane Concentration) or Class II (Helicopter Concentration) Medical Certificate from an FAA Aviation Medical Examiner (AME). Class III certificates will not be accepted for the purpose of flight training.

- Class I or Class II medical certificates must be presented to Baylor Institute for Air Science within 45 days of advising with an Aviation Science Advisor or by August 1 (whichever comes first) otherwise the flight slot may be forfeited.

**Instructions for Obtaining Medical Certificate:**

- Build a profile and complete an application through the [FAA MedXPress](http://www.faa.gov/pilots/amelocator) website prior to making an appointment with an Aviation Medical Examiner - profile and application are only good for 60 days.

- Use the interactive tool at the [www.faa.gov/pilots/amelocator](http://www.faa.gov/pilots/amelocator) website to select an AME by location.

### Pilot Flight Slots

- Applications for the Professional Pilot concentration are reviewed by the Institute for Air Science and flight slots are offered to accepted students.

- Once a flight slot is offered, the student is given a brief window to decline or commit to accepting the slot, otherwise it will be forfeited and offered to the next eligible student.

### Enrolling Students

- Must monitor GoBaylor and respond to email requests within the specified timeframe.

- Should have a plan to have their own transportation to Baylor University Flight Center at the Waco Regional Airport.
Must have an FAA Class I (Airplane) or Class II (Helicopter) Medical Certificate and present to the program no later than August 1. Not doing so will result in a drop from any registered flight course.

Must have the following original (NO PHOTOCOPIES) documentation readily available to present to Baylor University Flight Center:

- Original, unexpired passport OR
- Current, unexpired driver’s license, military identification card, or other government issued identification, PLUS an official birth certificate.

VETERAN ADMINISTRATION EDUCATION BENEFITS

Anyone intending to use Veteran's Administration educational benefits should be aware that, because of the VA's rules, the GI Bill cannot be used to pay for costs associated with the Aviation Sciences Major. Please contact the Baylor Veteran Coordinator at 254-710-8241 or an Aviation Sciences Advisor at (254-710-3563) for specific questions or other available options.

CAMPUS VISITS

Schedule a tour of the Baylor campus through Baylor Undergraduate Admissions Visit Experience. Select the style of visit that best suits your preference and be sure to request a meeting with the Aviation Sciences Department and a tour of the flight school facilities while you're in town.

BAYLOR CHANGE-OF-MAJOR STUDENTS

Students should contact the Aviation Sciences department before requesting a change of major to discuss potential graduation delays, 3.0 minimum GPA requirement, additional costs, medical requirements, and space availability.

Upon acceptance of the terms and cost of the program, Change-of-Major students can request to be placed on the waitlist if space becomes available. Students on the waitlist are not guaranteed a spot in the program.

FRESHMEN & TRANSFER APPLICANTS

Apply to Baylor University through GoBaylor and monitor student account and Baylor email for any messages, required tasks or deadlines.

Applicants must complete a separate Aviation Sciences or Aviation Administration application which will be linked on their GoBaylor account.

Applicants will be notified via GoBaylor if they have been accepted to Baylor and the Aviation Sciences Program.

All students who are offered a flight slot in the program must “ACCEPT” the flight slot offer by the established deadline using the flight slot confirmation form on GoBaylor.
Baylor Bachelor of Science in Aviation Sciences (BSA) Degree
Fall 2024 – Summer 2025 Cost Estimate

- Additional costs and fees may apply. Please explore the Student Financial Services website at [www.Baylor.edu/sfs](http://www.Baylor.edu/sfs) for cost of attendance calculator and other pertinent information.
- Baylor calculates tuition/fees at a flat rate per academic year (Fall and Spring) for students taking 12 hours or more (full-time) per semester.

### 2024 - 2025 BAYLOR TUITION COSTS

<table>
<thead>
<tr>
<th>Tuition Fee per Spring Semester (Full-Time)</th>
<th>Full-Time Student Tuition Estimate for Four Years</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tuition &amp; Required Fees</td>
<td>$29,050</td>
</tr>
<tr>
<td>Total</td>
<td>$232,400</td>
</tr>
</tbody>
</table>

### FLIGHT COURSE FEES - FALL 2024 - SUMMER 2025

<table>
<thead>
<tr>
<th>Flight Course Name</th>
<th>Course Number AVS Prefix</th>
<th>Aircraft</th>
<th>Estimated Flight Hours</th>
<th>Flight Course Fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fixed Wing Flight Courses - Aircraft Model Options - Tecnam P2006, P2008 &amp; P2010</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Private Pilot</td>
<td>1331</td>
<td>P2010</td>
<td>64</td>
<td>$32,550</td>
</tr>
<tr>
<td>Instrument</td>
<td>1332</td>
<td>P2010</td>
<td>64</td>
<td>$32,950</td>
</tr>
<tr>
<td>Commercial I</td>
<td>2333</td>
<td>P2010</td>
<td>50</td>
<td>$23,825</td>
</tr>
<tr>
<td>Commercial II</td>
<td>2334</td>
<td>P2010</td>
<td>54</td>
<td>$26,175</td>
</tr>
<tr>
<td>Certified Flight Instructor (CFI)</td>
<td>3236</td>
<td>P2010</td>
<td>29</td>
<td>$16,790</td>
</tr>
<tr>
<td>Certified Flight Instructor - Instrument (CFII)</td>
<td>4237</td>
<td>P2010</td>
<td>19</td>
<td>$11,060</td>
</tr>
<tr>
<td><strong>Total Estimate Airplane</strong></td>
<td></td>
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<td><strong>$143,350</strong></td>
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<thead>
<tr>
<th>Rotary Wing Flight Courses - Aircraft Model Options Robinson R22 &amp; R44</th>
</tr>
</thead>
<tbody>
<tr>
<td>Private Pilot</td>
</tr>
<tr>
<td>Commercial/Instrument - I</td>
</tr>
<tr>
<td>Commercial/Instrument - II</td>
</tr>
<tr>
<td>Certified Flight Instructor</td>
</tr>
<tr>
<td>Certified Instrument Instructor - Part 61</td>
</tr>
<tr>
<td>Night Goggle Vision Flight - Part 61</td>
</tr>
<tr>
<td><strong>Total Estimate Helicopter</strong></td>
</tr>
</tbody>
</table>

The fees below are assigned to the required courses for either concentration (airplane or helicopter) of the Aviation Sciences degree. For a complete picture of the estimated total cost, you would add each of the required course fees to the total four-year Baylor tuition estimate.

- Flight course fees are applied once students are registered for flight courses and are automatically factored into the student's total cost of attendance for the purpose of calculating financial need at Baylor. This figure will not change the award package from Baylor University, but an increased cost of attendance can change outside award packages and loan eligibility. Additional external funding may be necessary to complete the degree.
- Approximately 90% of students attending Baylor qualify for merit or need-based scholarships, grants, student loans, and/or part-time student employment, but it is incumbent upon the student to search and apply for them. Many aviation-related scholarships and grants are listed on our website at [www.Baylor.edu/aviation](http://www.Baylor.edu/aviation).
- Costs are based on the number of hours estimated to complete each course at UFC and may vary depending on each student's individual progress and the type of aircraft used.
- Included in the flight course estimates are plane usage, fuel expenses, additional fuel surcharge, flight instruction, ground instruction, FAA Knowledge Test, and FAA Examiner Fee with the required number of check rides. The use of a flight simulator may take the place of hours in the airplane as allowed per FAA regulations. All unused flight account funds are fully reimbursed.
From Hankamer Academic Center – Baylor University

Follow S. 5th Street to Bagby Avenue – make LEFT on Bagby

Follow Bagby to S. University Parks Drive - make LEFT at traffic light onto S. University Parks Drive

Follow S. University Parks to Franklin Avenue – make RIGHT at traffic light onto Franklin

Follow Franklin across river to traffic light on S. Martin Luther King Jr. Blvd – make LEFT onto S. MLK

Follow MLK Blvd. past traffic light on Lake Shore Drive and continue STRAIGHT on Steinbeck Bend Drive

Follow Steinbeck Bend Drive to Karl May Drive and make a RIGHT at stop sign towards Waco Airport

Continue on Karl May Drive and look for the green Baylor University Flight Center sign on the right
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 rating), 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 (minimum)

A. Chapel

- Two semesters of CHA 1086, 1087, 1088, 1089, 1090, 1091, or 1093 (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 – 19 to 21 hrs

- Communication and Media Literacy – 3 hrs
- Contemporary Social Issues – 3 hrs
- Engaged Learning – 1 to 3 hrs
- Fine Arts & 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 Languages and Culture – 8 to 12 hrs

• OPTION ONE: (two courses – 8 hrs)
  o Complete intensive language courses 1412 and 2412 in German or Spanish
  o 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 proficiency (2310)
  o 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)
  o Complete two Classical languages (Greek, Latin, Hebrew, Aramaic) 1301 and 1302
  o 6 hours must be in residence

II. Aviation Science courses ........................................................................................................................................73 hrs

A. Ground and Flight Training Courses – 34 hrs

• AVS 1301 Air Navigation
• AVS 1302 Private Pilot Ground School
• AVS 1303 Instrument Ground School
• AVS 2304 Commercial Ground School
• AVS 3304 Fundamentals of Instruction
• AVS 3305 Flight Instructor Ground School
• AVS 1331 Private Pilot Flight
• AVS 1332 Instrument Rating Flight
• AVS 2333 Commercial Flight I
• AVS 2334 Commercial Flight II
• AVS 3236 Certified Flight Instructor – Airplane Flight (CFI-A)
• AVS 4237 Certified Flight Instructor – Instrument Flight (CFI-I) OR 3235 Multi-Engine Flight

B. Aviation Science courses – 39 hrs

• Required Courses – 24 hrs
  o AVS 1300 Introduction to Aviation
  o AVS 1313 Introduction to Meteorology
  o AVS 3310 Aviation Law
  o AVS 3311 Aircraft Accident Investigation and Prevention
  o AVS 3312 Aviation Safety
  o AVS 3315 Aviation Meteorology
  o 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
  o AVS 3370 Aviation Leadership
  o AVS 4375 Crew Resource Management
  o AVS 4376 Aviation Management
  o AVS 4390 Internship in Aviation
  o AVS 4237 Certified Flight Instructor – Instrument Flight (CFI-I) OR 3235 Multi-Engine Flight (whichever one is not taken under paragraph II.A.)
  o AVS 4238 MEI Flight

III. Required courses in other fields.................................................................................................10 hrs

• 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)
# Baylor University - Aviation Sciences
## Suggested Four Year Program Planner
### PROFESSIONAL PILOT - AIRPLANE

#### FIRST YEAR

<table>
<thead>
<tr>
<th>Summer</th>
<th>Course name</th>
<th>cr</th>
<th>Fall</th>
<th>Course name</th>
<th>cr</th>
<th>Spring</th>
<th>Course Name</th>
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**Total credits** 15  

#### SECOND YEAR

<table>
<thead>
<tr>
<th>Summer</th>
<th>Course name</th>
<th>cr</th>
<th>Fall</th>
<th>Course name</th>
<th>cr</th>
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**Total credits** 0  

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**Total credits** 0  

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**Notes:**

Please be advised that Fall-only courses Spring-only courses are only available in the semesters listed.

* Extra flight fees apply

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**Credits to complete the BSA:** 125
Bachelor of Science in Aviation Sciences: Professional Pilot – Helicopter Concentration

The Professional Pilot – Helicopter Concentration of the Aviation Sciences Major is for students wanting a career as a helicopter pilot. Each student graduating with the Professional Pilot – Helicopter Concentration will have flying qualifications to the Commercial Pilot level (including instrument rating), along with Night Vision Goggle Training and Certified Flight Instructor (CFI) and Certified Flight Instructor – Instrument (CFI-I) certificates. Flight training is conducted by the Baylor University Flight Center at the Waco Regional Airport.

Aviation Sciences Major, Professional Pilot – Helicopter Concentration……..125 hrs total

I. Basic Requirements……………………………………………………………………………………………………..42 hrs (minimum)

A. Chapel

• Two semesters of CHA 1086, 1087, 1088, 1089, 1090, 1091, or 1093 (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 – 19 to 21 hrs

• Communication and Media Literacy – 3 hrs
• Contemporary Social Issues – 3 hrs
• Engaged Learning – 1 to 3 hrs
• Fine Arts & 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 Languages and Culture – 8 to 12 hrs

• OPTION ONE: (two courses – 8 hrs)
  o Complete intensive language courses 1412 and 2412 in German or Spanish
  o 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 proficiency (2310)
  o 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)
  o Complete two Classical languages (Greek, Latin, Hebrew, Aramaic) 1301 and 1302
  o 6 hours must be in residence

II. Aviation Science courses

A. Ground and Flight Training Courses – 34 hrs

• AVS 1301 Air Navigation
• AVS 1302 Private Pilot Ground School
• AVS 1303 Instrument Ground School
• AVS 2304 Commercial Ground School
• AVS 3304 Fundamentals of Instruction
• AVS 3305 Flight Instructor Ground School
• AVS 1361 Private Pilot Helicopter Flight
• AVS 2362 Instrument/Commercial 1 Helicopter Flight
• AVS 2363 Instrument/Commercial 2 Helicopter Flight
• AVS 3364 CFI Helicopter Flight
• AVS 4265 CFI-I Helicopter Flight
• AVS 4266 Night Vision Goggle Helicopter Flight

B. Aviation Science courses – 39 hrs

• Required Courses – 24 hrs
  o AVS 1300 Introduction to Aviation
  o AVS 1313 Introduction to Meteorology
  o AVS 3310 Aviation Law
  o AVS 3311 Aircraft Accident Investigation and Prevention
  o AVS 3312 Aviation Safety
  o AVS 3315 Aviation Meteorology
  o AVS 4314 Advanced Aircraft Systems
  o 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 4376 Aviation Management
  o AVS 4317 Aerospace Propulsion Systems
  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..................................................................................10 hrs

• 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)
## Baylor University - Aviation Sciences
### Suggested Four Year Program Planner
#### PROFESSIONAL PILOT - HELICOPTER

### FIRST YEAR

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<td>MTH 1321</td>
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<td>AVS 2362 *</td>
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<td>Research Writing</td>
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<td>AVS 3364 *</td>
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**Notes:**  
Please be advised that Fall-only courses Spring-only courses are only available in the semesters listed.  
† Selected from AVS 3320, 3350, 3370, 4376, 4390, and either 4237 or 4238  
* Extra flight fees apply  
Credits to complete the BSA 125
Bachelor of Science in Aviation Sciences – Aviation Administration

The Aviation Administration Major of the Bachelor of Science in Aviation Sciences degree is for students wanting a career in the business side of the aviation industry. This major combines aviation courses with courses from Baylor's Hankamer School of Business.

Bachelor of Science in Aviation Sciences – Aviation Administration………………124 hrs total

I. Basic Requirements………………………………………………………………………………46 hrs (minimum)

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 – 23 to 25 hrs

- Communication and Media Literacy – 3 hrs
- Contemporary Social Issues – 3 hrs
- Engaged Learning – 1 to 3 hrs
- Fine Arts & Performing Arts – 3 hrs
- Formal Reasoning – met in Sec IV
• Literature in Context – 3 hrs
• Research Writing – 3 hrs
• Scientific Method I: Course with Lab Experience – 4 hrs
• 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
  o 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)
  o 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)
  o Complete two Classical languages (Greek, Latin, Hebrew) 1301 and 1302
  o 6 hours must be in residence

II. Aviation Science (AVS) courses.................................................................45 hrs

A. Required Courses - 36 hrs

• AVS 1300 Introduction to Aviation
• AVS 1301 Air Navigation
• AVS 1302 Private Pilot Ground School
• AVS 1303 Instrument Ground School
• 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 3370 Aviation Leadership
• AVS 4376 Aviation Management
• AVS 4377 Airport Management

B. Elective Courses - 9 hrs (Choose 3 courses)

• AVS 3350 Introduction to Space Weather
• AVS 4305 Special Topics in Aviation
• AVS 4323 The Environment and Economic Analysis (ENV 4323)
• AVS 4375 Crew Resource Management
• AVS 4386 Remote Sensing (GEO 4386)
• AVS 4390 Internship in Aviation
• AVS 4315 Aerodynamics
• AVS 4485 Introduction to Geographic Information Systems (GEOG 4485)
• AVS 4487 Advanced GIS Analysis (GEOG 4487)
III. Business Courses.................................................................................................................. 24 hrs

- BUS 1305 Software Applications for Business Productivity and Decision Making
- ECO 1305 Issues in Economics for Non-Business Majors
- ACC 2301 Survey of Accounting
- MGT 3301 Managing People in Organizations
- MKT 3301 Marketing Concepts
- BUS 3302 Personal Financial Decisions
- ENT 3315 Starting and Managing a Business
- ENT 4325 Entrepreneurial Leadership

IV. Required courses in other fields......................................................................................... 9 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)
- Statistics (STA) 1380 Elementary Statistics
# Suggested Four Year Program Planner

## FIRST YEAR

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## SECOND YEAR

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## THIRD YEAR

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## FOURTH YEAR

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### Notes:
- (f) Fall only course; (s) Spring only course
- * Selected from AVS 3350, 4305, 4315, 4323, 4375, 4386, 4390, 4485, and 4487.
- † Chosen from a list of qualifying courses

Credits to complete the BSA: 124
The Federal Aviation Administration (FAA) has recently awarded Baylor University Aviation Science the authority to certify our “Professional Pilot” degree graduates for an Airline Transport Pilot (ATP) certificate with reduced aeronautical experience (R-ATP). In order to be certified for the **500-hour reduction via 14 CFR §61.160(b)**, the student must:

1. Complete all requirements of the Bachelor of Science in Aviation Science (BSA) degree.
2. Complete FAA approved ground and flight training. Specifically:
   - **Required FAA Part 141 Ground School** (6 credit hours)
     - AVS 1303 Instrument Rating Ground School w/ a minimum grade of “C” earned
     - AVS 2304 Commercial Pilot Ground School w/ a minimum grade of “C” earned
   - **Required FAA Part 141 Flight Training** (6 credit hours)
     - AVS 1332 Instrument Rating Flight w/ a minimum grade of “C” earned
     - AVS 2334 Commercial Pilot Flight II w/ a minimum grade of “C” earned
3. Complete an additional forty-eight (48) credit hours of FAA-approved collegiate aviation coursework from the following list of courses:

   **Additional Course Work**
   - AVS 1300 Intro to Aviation
   - AVS 1301 Air Navigation
   - AVS 1302 Private Pilot Ground
   - AVS 1313 Introduction to Meteorology
   - AVS 1331 Private Pilot Flight
   - AVS 2333 Commercial Pilot I
   - AVS 3235 Multi-Engine Flight
   - AVS 3236 CFI-A Flight
   - AVS 3304 Fundamental of Instruction
   - AVS 3305 CFI-A Ground
   - AVS 3310 Aviation Law
   - AVS 3311 Aircraft Accident Investigation
   - AVS 3313 Introduction to Meteorology
   - AVS 3314 Intro to Space Weather
   - AVS 3315 Aviation Meteorology
   - AVS 3320 Flight Crew Career Development
   - AVS 3330 Fundamentals of Instruction
   - AVS 3340 CFI-A Flight
   - AVS 3350 Intro to Space Weather
   - AVS 3370 Aviation Leadership
   - AVS 4237 CFI-I Flight
   - AVS 4238 Multi-Engine Instructor Flight
   - AVS 4314 Transport Category Aircraft Systems
   - AVS 4315 Aerodynamics
   - AVS 4316 Crew Resource Management
   - AVS 4375 Aviation Management
   - AVS 4390 Internship

A student who completes all requirements from paragraphs 1 and 2 and completes at least 30 credit hours but less than 60 credit hours of additional coursework from paragraph 3 can be certified for a **250 hour reduction via 14 CFR §61.160(d)**.