

BACHELOR OF SCIENCE IN AVIATION SCIENCE

Web Site: <https://twu.edu/aviation/>

Degree Requirements

Total Semester Credit Hours Required

Students must earn a grade of B or higher in all AVS courses that lead to certifications and/or ratings. Students must earn a C or higher in all other AVS courses that count toward the major.

Texas Core Curriculum

Code	Title	SCHs
ENG 1013	Composition I (10)	3
ENG 1023	Composition II (10)	3
Mathematics (20)		3
Life & Physical Sciences (30)		6
Language, Philosophy, & Culture (40)		3
Creative Arts (50)		3
HIST 1013	History of the United States, 1492-1865 (60)	3
HIST 1023	History of the United States, 1865 to the Present (60)	3
POLS 2013	U.S. National Government (70)	3
POLS 2023	Texas Government (70)	3
Social & Behavioral Sciences (80)		3
CAO: Multicultural-Women's Studies (90)		3
CAO: First Year Seminar, Wellness or Mathematics (91)		3
Total SCHs		42

Code	Title	SCHs
Requirements		
ENG 3253	Technical Writing	3

Aviation Science FAR Part 141 Courses

AVS 1012	Private Pilot Ground I	2
AVS 1021	Private Pilot Ground II	1
AVS 1112	Private Pilot Flight Lab I	2
AVS 1121	Private Pilot Flight Lab II	1
AVS 1133	Instrument Flight Lab	3
AVS 2033	Instrument Ground	3
AVS 2044	Commercial Ground	4
AVS 2112	Commercial Flight Lab I	2
AVS 2123	Commercial Flight Lab II	3
AVS 2131	Multi-Engine Flight Lab	1

Aviation Science Non-Part 141 Courses

AVS 1213	Aircraft Systems I	3
AVS 1223	Aerodynamics and Aircraft Performance	3
AVS 1233	Aviation Weather and Meteorology	3
AVS 2213	Air Traffic Control and the National Airspace System	3
AVS 2223	Aviation Safety	3
AVS 2233	Aviation Law and Regulations	3
AVS 3213	Aircraft Systems II	3

AVS 3223	Human Factors	3
AVS 3233	Advanced Power Plant and Turbine Engine Systems	3
AVS 3243	Advanced Autoflight and Flight Management Systems	3
Total SCHs		55

Departmental Requirements

Code	Title	SCHs
PHYS 1133 & PHYS 1131	Principles of Physics I and Principles of Physics Laboratory I	4
MATH 1303 or MATH 1703	College Algebra or Elementary Statistics I	3

Aviation Management Option

Code	Title	SCHs
AVS 3313	Flight Operations Management	3
AVS 3323	Global Navigation and Flight Planning	3
MGT 3003	Principles of Management	3
MGT 3273	Human Resource Management (Electives (6 SCH must be 3000 or 4000-level))	3
Electives (must be 3000 or 4000-level)		7
Global Perspectives Requirement (must be 3000 or 4000-level)		3
Total SCHs		22

Professional Pilot Option

Code	Title	SCHs
AVS 3112	Certified Flight Instructor Flight Lab	2
AVS 3013	Certified Flight Instructor Ground	3
AVS 3022	Certified Flight Instructor-Instrument Ground	2
AVS 3121	Certified Flight Instructor-Instrument Flight Lab	1
Electives (must be 3000 or 4000-level)		11
Global Perspectives Requirement (must be 3000 or 4000-level)		3
Total SCHs		22