

Aviation Science

Aviation Science

The Aviation Science department is in the [College of Health and Public Service](#). To find the most up-to-date information from the Aviation Science department, visit their website.

[Aviation Science department](#)

DEPARTMENT CHAIR

JOHNSON, Randall *Associate Professor*

FACULTY

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HOLLISTER, Michael L. *Assistant Professor*

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LEY, Stephen *Associate Professor*

SILCOX, Fiona *Assistant Professor*

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TROUTT, Jack *Assistant Professor*

WILLIAMS, Brice *Associate Professor*

Degrees & Programs

Aviation Science, A.A.S.

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Requirements

The A.A.S. degree prepares the student by concentrating on aviation courses. It is commonly referred to as the job-ready degree, preparing the student for entry level positions in the industry.

Total Program Credits: 63

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| General Education Requirements: | | | 18 Credits |
| | ENGL 1010 | Introduction to Academic Writing | 3 |
| or | ENGL 1005 | Literacies and Composition Across Contexts (5) | |
| | MAT 1010 | Intermediate Algebra | 4 |
| | PHIL 2050 | Ethics and Values | 3 |
| or | Any other Humanities | | |
| | POLS 1000 | American Heritage | 3 |
| or | HIST 1700 | American Civilization (3) | |
| or | Any other Social Science | | |
| | Any approved Biology or Physical Science Distribution Course | | 3 |
| | HLTH 1100 | Personal Health and Wellness | 2 |
| Discipline Core Requirements: | | | 45 Credits |
| | AVSC 1010 | Survey of Aviation Science | 3 |
| | AVSC 1100 | Ground I - Private | 3 |
| | AVSC 1110 | Flight I - Private | 3 |
| | AVSC 1120 | Basic Aircraft Systems | 1 |
| | AVSC 1230 | Flight II - Instrument I | 2 |

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| AVSC 1240 | Ground II - Instrument | 3 |
| AVSC 1250 | Flight II - Instrument II | 3 |
| AVSC 1260 | 21st Century Avionics and Instrumentation | 1 |
| AVSC 2110 | Aviation Weather | 3 |
| AVSC 2130 | Aviation Safety | 3 |
| AVSC 2150 | Air Transportation Management | 3 |
| AVSC 2300 | Ground IV - Commercial | 3 |
| AVSC 2310 | Flight IV - Commercial | 3 |
| AVSC 2450 | Flight III - Multi Engine | 1 |
| AVSC 2440 | Ground III - Multi Engine | 1 |
| Complete one of the following sets of courses: | | 9 |
| Certified Flight Instructor: | | |
| AVSC 2400 | Ground Certified Flight Instructor (4) | |
| AVSC 2410 | Flight Certified Flight Instructor (1) | |
| AVSC 2420 | Ground CFI Instrument (1) | |
| AVSC 2430 | Flight CFI Instrument (1) | |
| AVSC 2500 | Ground Multi-Engine Instructor (1) | |
| AVSC 2510 | Flight Multi-Engine Instructor (1) | |
| First Officer: | | |
| AVSC 3300 | Jet Transport Systems (3) | |
| AVSC 3600 | Multi-piloted Operations (3) | |
| AVSC 4800 | Professional Pilot Capstone (3) | |
| Aviation Management: | | |
| AVSC 3020 | Aviation Insurance and Risk Management (3) | |
| AVSC 3060 | Airline Management (3) | |
| AVSC 3090 | Airline and Dispatch Operations (3) | |
| AVSC 3120 | Airport Management (3) | |

Graduation Requirements:

1. Completion of a minimum of 63 or more semester credits.
2. Overall grade point average of 2.0 (C) or above. C- or above required for all aviation major classes.
3. Residency hours--minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements
5. Completion of Commercial Pilot Certificate.
6. Students may count no more than 4 credit hours of total cooperative work experience (AVSC 281/285R) toward the degree requirements without department approval.

Aviation Science, A.S.

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Requirements

The A.S. degree is designed to prepare the student with all the ratings necessary to be qualified for entry-level jobs in the aviation field. Obtaining an associate degree helps the graduate prepare for a diversity of job-related responsibilities and prepares students to enter directly into the B.S. degree.

Aviation Science

Total Program Credits: 62

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| General Education Requirements: | | 35 Credits |
| | ENGL 1010 Introduction to Academic Writing | 3 |
| or | ENGL 1005 Literacies and Composition Across Contexts (5.0) | |
| | ENGL 2010 Intermediate Writing/Academic Writing and Research | 3 |
| Complete one of the following: | | 3 |
| | MAT 1030 Quantitative Reasoning (3.0) (recommended for Humanities or Arts majors) | |
| | MAT 1035 Quantitative Reasoning with Integrated Algebra (6.0) | |
| | STAT 1040 Introduction to Statistics (3.0) | |
| | STAT 1045 Introduction to Statistics with Algebra (5.0) | |
| | MATH 1050 College Algebra (4.0) (recommended for Business, Education, Science, and Health Professions majors) | |
| | MATH 1055 College Algebra with Preliminaries (5.0) | |
| | MATH 1090 College Algebra for Business (3.0) | |
| Complete one of the following: | | 3 |
| | HIST 2700 US History to 1877 (3.0) | |
| and | HIST 2710 US History since 1877 (3.0) ¹ | |
| | HIST 1700 American Civilization (3.0) | |
| | HIST 1740 US Economic History (3.0) | |
| | POLS 1000 American Heritage (3.0) | |
| | POLS 1100 American National Government (3.0) | |
| Complete the following: | | |
| | PHIL 2050 Ethics and Values | 3 |
| | HLTH 1100 Personal Health and Wellness (2.0) | |
| or | PES 1097 Fitness for Life | 2 |
| Distribution Courses: | | |
| | Biology | 3 |
| | Physical Science ² | 3 |
| | Additional Biology or Physical Science ³ | 3 |
| | Humanities Distribution ⁴ | 3 |
| | Fine Arts Distribution | 3 |
| | Social/Behavioral Science ⁵ | 3 |
| Discipline Core Requirements: | | 18 Credits |
| | AVSC 1010 Survey of Aviation Science | 3 |
| or | AVSC 1050 Introduction to Aviation Management (3.0) | |
| | AVSC 1100 Ground I - Private | 3 |
| | AVSC 2070 Communications for Aviation Professionals | 3 |
| or | MKTG 220G Written Business Communication WE (3.0) | |

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| AVSC 2110 | Aviation Weather | 3 |
| AVSC 2130 | Aviation Safety | 3 |
| AVSC 2150 | Air Transportation Management | 3 |
| Elective Requirements: | | 9 Credits |
| Elective credits | | 9 |

Graduation Requirements:

1. Completion of a minimum of 62 or more semester credits.
2. Overall grade point average of 2.0 (C) or above. Aviation courses require a C- or above. (Departments may require a higher GPA.)
3. Residency hours--minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements.

Footnotes

1. If student chooses HIST 2700 and HIST 2710 as the additional hours may be used towards a social science distribution requirement.
2. PHYS 1850 recommended
3. METO 1010 recommended
4. COMM 1020 and COMM 1025 recommended
5. PSY 1010 recommended

Aviation Science, Certificate of Proficiency

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Requirements

The Certificate of Proficiency in Aviation Science is available for all UVU students with a particular focus designed to provide high school students an opportunity to obtain a stackable certificate of proficiency with an emphasis in career and technical education while still enrolled in high school. This certificate is available from the University for college students/adults looking for basic entry-level skills leading to further academic advancement.

Total Program Credits: 16

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| Discipline Core Requirements: | | 16 Credits |
| | ENGL 1010 Introduction to Academic Writin | 3 |
| or | ENGL 1005 Literacies and Composition Across Contexts (5) | |
| | MAT 1010 Intermediate Algebra | 4 |
| | HIST 1700 American Civilization | 3 |
| | AVSC 1010 Survey of Aviation Science | 3 |
| | AVSC 1100 Ground I - Private | 3 |

Graduation Requirements:

1. Overall grade point average of 2.0 (C) or above.
2. Completion of 16 credit hours in subjects included in the course list.
3. All courses must be completed with a grade of C- or better.

Aerospace Technology Management, B.S.

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Requirements

The BS in Aerospace Technology Management from Utah Valley University is designed to prepare graduates for various technical aerospace professional roles across a products life cycle. Skills associated with air and space vehicle sustainability systems and risk management, customer management, project management, aftermarket services, business development, manufacturing and inspection processes, safety management systems, and process improvement will be learned and applied. The program will provide a completion degree for students who possess the Airframe and Powerplant ratings of an FAA issued Aircraft Maintenance Technician Certificate under the rules defined by FAR Part 65 or possess a license as an Aircraft Maintenance Engineer (Cat B1) issued under EASA Part 66 regulations.

Total Program Credits: 123

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| Matriculation Requirements: | | | |
| Completion of a Technical Specialty associated with FAA issued Airframe & Powerplant Maintenance Technician Certificate issued under rules of FAR Part 65 OR Completion of an Associates in Science or an Associates of Applied Science Degree from a regionally accredited institution of higher education with a designated technical specialty associated with FAA issued Airframe & Powerplant Maintenance Technician Certificate issued under the rules of FAR Part 147 OR possess a license as an Aircraft Maintenance Engineer (AME) (Cat B1) issued under EASA Part 66 regulations. A total not to exceed 45 credit hours will be awarded for evidence of the possession of the A&P or AME certificate. | | | |
| General Education Requirements | | | 35 Credits |
| | ENGL 1010 | Introduction to Academic Writing | 3 |
| or | ENGL 1005 | Literacies and Composition Across Context (5.0) | |
| | ENGL 2010 | Intermediate Writing Academic Writing and Research | 3 |
| Complete one of the following: | | | 3 |
| | MAT 1030 | Quantitative Reasoning (3.0) | |
| | MAT 1035 | Quantitative Reasoning with Integrated Algebra (6.0) | |
| | STAT 1040 | Introduction to Statistics (3.0) | |
| | STAT 1045 | Introduction to Statistics with Algebra (5.0) | |
| | MATH 1050 | College Algebra (4.0) | |
| | MATH 1055 | College Algebra with Preliminaries (5.0) | |
| | MATH 1090 | College Algebra for Business (3.0) | |
| Complete one of the following: | | | 3 |
| | POLS 1000 | American Heritage (3.0) | |
| | POLS 1100 | American National Government (3.0) | |
| | HIST 1700 | American Civilization (3.0) | |
| | HIST 1740 | US Economic History (3.0) | |
| | HIST 2700 | US History to 1877 (3.0) | |
| and | HIST 2710 | US History since 1877 (3.0) | |
| Complete the following: | | | |
| | PHIL 2050 | Ethics and Values | 3 |
| | HLTH 1100 | Personal Health and Wellness (2.0) | |
| or | PES 1097 | Fitness for Life | 2 |
| Distribution Courses: | | | |

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| Biology | | 3 |
| Physical Science (PHYS 1850 recommended) | | 3 |
| Humanities (ENGL 2310 recommended) | | 3 |
| Fine Arts | | 3 |
| Social/Behavioral Science | | 3 |
| Additional Biology or Physical Science (TECH 1010 or METO 1010 recommended) | | 3 |
| Technical Core Requirement | | 45 Credits |
| Completion of a Technical Specialty associated with FAA issued Airframe & Powerplant Maintenance Technician Certificate issued under rules of FAR Part 65 OR Completion of an Associates in Science or an Associates of Applied Science Degree from a regionally accredited institution of higher education with a designated technical specialty associated with FAA issued Airframe & Powerplant Maintenance Technician Certificate issued under the rules of FAR Part 147 OR possess a license as an Aircraft Maintenance Engineer (AME) (Cat B1) issued under EASA Part 66 regulations. A total not to exceed 45 credit hours will be awarded for evidence of the possession of the A&P or AME certificate. | | 45 |
| Discipline Core Requirements | | 30 Credits |
| TECH 3400 | Project Management WE | 3 |
| TECH 3850 | Quality Management in Technology | 3 |
| AVSC 2150 | Air Transportation Management | 3 |
| AVSC 3320 | Aviation Managerial Accounting | 3 |
| AVSC 4500 | Aerospace Aftermarket Support Services | 3 |
| AVSC 4550 | Aerospace Vehicle Certification-Reliability-Maintainability Systems | 3 |
| AVSC 4950 | Aerospace Technology Management Capstone Project | 3 |
| AVSC 410G | Global Ethical and Professional Issues in Aviation | 3 |
| Complete (2) of the following: | | 6 |
| AVSC 3100 | Corporate Aviation Management (3) | |
| AVSC 3020 | Aviation Insurance and Risk Management (3) | |
| AVSC 3090 | Airline and Dispatch Operations (3) | |
| AVSC 3310 | Aviation Logistics Management (3) | |
| AVSC 3150 | Principles of Aviation Management (3) | |
| AVSC 3350 | Aviation Labor and Human Resource (3) | |
| AVSC 4160 | Aviation Law (3) | |
| Elective Requirements | | 13 Credits |
| Complete 13 upper division credits | | 13 |

Graduation Requirements:

1. Completion of a minimum of 123 semester credits.
2. Overall grade point average of 2.0 (C) or above.
3. No grade lower than a C- in any AVSC or TECH course.
4. Residency hours - Minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
5. Completion of GE and specified departmental requirements.

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6. Successful completion of at least one (1) Global/Intercultural course.

Aviation Management, B.S.

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Requirements

This degree is designed to develop practical leadership skills for a variety of careers in the aviation industry. Courses are based on real world aviation needs and are developed through ties with industry experts. The curriculum will prepare students with a broad range of knowledge and skills, including airline and airport management, aviation security and safety, marketing, aviation finance, human resources, and many others.

Total Program Credits: 120

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| Matriculation Requirements: | | | |
| Students seeking admission to the program will be required to meet the following admissions requirements: | | | |
| 1. Completion of ENGL 1010 or ENGH 1005 and 25 aviation credits with a grade of C+ or higher | | | |
| 2. Overall GPA of at least 2.5 | | | |
| General Education Requirements: | | 35 Credits | |
| | ENGL 1010 | Introduction to Academic Writing | 3 |
| or | ENGH 1005 | Literacies and Composition Across Contexts (5) | |
| | ENGL 2010 | Intermediate Writing/Academic Writing and Research | 3 |
| Complete one of the following: | | 3 | |
| | MAT 1030 | Quantitative Reasoning (3) | |
| | MAT 1035 | Quantitative Reasoning with Integrated Algebra (6) | |
| | MATH 1050 | College Algebra (4) | |
| | MATH 1055 | College Algebra with Preliminaries (5) | |
| | MATH 1090 | College Algebra for Business (3) | |
| | STAT 1040 | Introduction to Statistics (3) | |
| | STAT 1045 | Introduction to Statistics with Algebra (5) | |
| Complete one of the following: | | 3 | |
| | POLS 1000 | American Heritage (3) | |
| | POLS 1100 | American National Government (3) | |
| | HIST 1700 | American Civilization (3) | |
| | HIST 1740 | US Economic History (3) | |
| | HIST 2700 | US History to 1877 (3) ¹ | |
| and | HIST 2710 | US History since 1877 (3) ¹ | |
| Complete the following: | | | |
| | PHIL 2050 | Ethics and Values | 3 |
| | HLTH 1100 | Personal Health and Wellness (2) | |
| or | PES 1097 | Fitness for Life | 2 |
| Distribution Courses: | | | |

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| | Biology (BIOL 1010 recommended) | 3 | |
| | Physical Science ² | 3 | |
| | Additional Biology or Physical Science ³ | 3 | |
| | Humanities Distribution ⁴ | 3 | |
| | Fine Arts Distribution | 3 | |
| | Social/Behavioral Science ⁵ | 3 | |
| Discipline Core Requirements: | | 85 Credits | |
| | AVSC 1010 | Survey of Aviation Science | 3 |
| | AVSC 1100 | Ground I - Private | 3 |
| | AVSC 2070 | Communications for Aviation Professionals | 3 |
| or | MKTG 220G | Written Business Communication WE (3) | |
| | AVSC 2090 | Air Transport Economics | 3 |
| or | ECON 2020 | Principles of Economics II (3) | |
| | AVSC 2110 | Aviation Weather | 3 |
| | AVSC 2130 | Aviation Safety | 3 |
| | AVSC 2150 | Air Transportation Management | 3 |
| | AVSC 2180 | Managing Technology in Aviation | 3 |
| | AVSC 2250 | Aviation Business Statistics | 3 |
| | AVSC 2710 | Aviation Marketing | 3 |
| | AVSC 3020 | Aviation Insurance and Risk Management | 3 |
| | AVSC 3030 | Air Traffic Control I | 3 |
| | AVSC 3060 | Airline Management | 3 |
| | AVSC 3090 | Airline and Dispatch Operations | 3 |
| | AVSC 3100 | Corporate Aviation Management | 3 |
| | AVSC 3120 | Airport Management | 3 |
| | AVSC 3150 | Principles of Aviation Management | 3 |
| | AVSC 3320 | Aviation Managerial Accounting | 3 |
| | AVSC 4020 | Applied Aviation Finance | 3 |
| | AVSC 410G | Global Ethical and Professional Issues in Aviation | 3 |
| | AVSC 4160 | Aviation Law | 3 |
| | AVSC 4700 | Aviation Professional Seminars | 3 |
| | AVSC 4710 | Aviation Career Preparation | 1 |
| | AVSC 4900 | Strategic Aviation Management Capstone | 3 |
| Elective Requirements: | | 15 Credits | |
| Must complete 15 credits. | | 15 | |

Graduation Requirements:

1. Completion of a minimum of 120 or more semester credits, with a minimum of 40 upper division semester credits.
2. Overall grade point average of 2.0 (C) or above. Aviation courses require a C- or above. (Departments may require a higher GPA.)
3. Residency hours--minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Students may count no more than 8 credit hours of total cooperative work experience (AVSC 281R/AVSC 285R /AVSC

481R/AVSC 485R toward the degree requirement without department approval.

5. Successful completion of at least one Global/Intercultural course.

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| Footnote: |
| 1- If student chooses HIST 2700 and HIST 2710, the additional hours may be used towards a social science distribution requirement. |
| 2-PHYS 1010 Elementary Physics PP recommended |
| 3-METO 1010 Introduction to Meteorology PP recommended |
| 4-COMM 1020 Public Speaking and COMM 1025 Public Speaking Lab recommended |
| 5-PSY 1010 General Psychology SS recommended |

Professional Pilot, B.S.

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Requirements

The Bachelor of Science in Professional Pilot prepares students to enter the work force as a certified flight instructor and commercial, multi-engine rated pilot. Students receive specific training under Federal Aviation Administration (FAA) 14 CFR Part 141 and Restricted Air Transport Pilot (R-ATP) regulations to qualify for specialized employment requirements with a regional airline. Delivery focuses on technical training and applied exercises providing the knowledge and skills required for several licenses and ratings.

Total Program Credits: 120

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| Matriculation Requirements: | | | |
| Students seeking admission to the program will be required to meet the following admission requirements: | | | |
| <ol style="list-style-type: none"> 1. Hold a second class FAA medical certificate from an FAA designated Medical. 2. An overall GPA of at least 2.5. 3. Due to limited availability of flight training resources, flight student admission into the on-campus AVSC 1110 Flight I - Private Pilot course, when necessary, may require selection through a competitive point based application. | | | |
| General Education Requirements: | | | 35 Credits |
| | ENGL 1010 | Introduction to Academic Writing | 3 |
| or | ENGL 1005 | Literacies and Composition Across Contexts (5) | |
| | ENGL 2010 | Intermediate Writing/Academic Writing and Research | 3 |
| Complete one of the following: | | | 3 |
| | MAT 1030 | Quantitative Reasoning (3.0) (recommended for Humanities or Arts majors) | |
| | MAT 1035 | Quantitative Reasoning with Integrated Algebra (6.0) | |
| | MATH 1050 | College Algebra (4.0) (recommended for Business, Education, Science, and Health Professions majors) | |
| | MATH 1055 | College Algebra with Preliminaries (5.0) | |
| | STAT 1040 | Introduction to Statistics (3.0) | |

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| | STAT 1045 | Introduction to Statistics with Algebra (5.0) | |
| Complete one of the following: | | | 3 |
| | HIST 2700 | US History to 1877 (3.0) | |
| and | HIST 2710 | US History since 1877 (3.0) ¹ | |
| | HIST 1700 | American Civilization (3.0) | |
| | HIST 1740 | US Economic History (3.0) | |
| | POLS 1000 | American Heritage (3.0) | |
| | POLS 1100 | American National Government (3.0) | |
| Complete the following: | | | |
| | PHIL 2050 | Ethics and Values | 3 |
| | HLTH 1100 | Personal Health and Wellness (2.0) | |
| or | PES 1097 | Fitness for Life | 2 |
| Distribution Courses: | | | |
| | Biology | | 3 |
| | Physical Science ² | | 3 |
| | Additional Biology or Physical Science ³ | | 3 |
| | Humanities Distribution ⁴ | | 3 |
| | Fine Arts Distribution | | 3 |
| | Social/Behavioral Science ⁵ | | 3 |
| Discipline Core Requirements: | | | 68 Credits |
| | AVSC 1010 | Survey of Aviation Science | 3 |
| | AVSC 1100 | Ground I - Private | 3 |
| | AVSC 1110 | Flight I - Private | 3 |
| | AVSC 1240 | Ground II - Instrument | 3 |
| | AVSC 1250 | Flight II - Instrument II | 3 |
| | AVSC 2070 | Communications for Aviation Professionals | 3 |
| | AVSC 2110 | Aviation Weather | 3 |
| | AVSC 2130 | Aviation Safety | 3 |
| | AVSC 2150 | Air Transportation Management | 3 |
| | AVSC 2300 | Ground IV - Commercial | 3 |
| | AVSC 2310 | Flight IV - Commercial | 3 |
| | AVSC 2440 | Ground III - Multi Engine | 1 |
| | AVSC 2450 | Flight III - Multi Engine | 1 |
| | AVSC 3030 | Air Traffic Control I | 3 |
| | AVSC 3090 | Airline and Dispatch Operation | 3 |
| | AVSC 3200 | Flight Physiology | 3 |
| | AVSC 3300 | Jet Transport Systems | 3 |
| | AVSC 3400 | International Flight Operations | 3 |
| | AVSC 3530 | Flight Aerodynamic | 3 |
| | AVSC 3600 | Multi-piloted Operations | 3 |
| | AVSC 410G | Global Ethical and Professional Issues in Aviation | 3 |
| | AVSC 4160 | Aviation Law | 3 |
| | AVSC 4700 | Aviation Professional Seminars | 3 |
| | AVSC 4800 | Professional Pilot Capstone | 3 |

Aviation Science

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| Elective Requirements: | 17 Credits |
| Upper division elective credits | 9 |
| 1000+ Electives | 8 |

Graduation Requirements:

1. Completion of a minimum of 120 or more semester credits, with a minimum of 40 upper division semester credits.
2. Overall grade point average of 2.0 (C) or above. Aviation courses require a C- or above. (Departments may require a higher GPA.)
3. Residency hours--minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of Commercial Pilot Certificate.
5. Students in the Professional Pilot degree should obtain an FAA Class I or II Medical Certificate prior to beginning flight training.
6. Students may count no more than 8 credit hours of total cooperative work experience (AVSC 281R/285R/481R/485R) toward the degree requirements without department approval.
7. Successful completion of at least one Global/Intercultural course.

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| Footnote: |
| 1- If student chooses HIST 2700 and HIST 2710, the additional hours may be used towards a social science distribution requirement. |
| 2- PHYS 1850 recommended |
| 3- METO 1010 recommended |
| 4- COMM 1020 and 1025 recommended |
| 5- PSY 1010 recommended |