

**GREEN RIVER COLLEGE
BACHELOR OF APPLIED SCIENCE
AERONAUTICAL SCIENCE**



180 Credits

The Bachelor of Applied Science (BAS) in Aeronautical Science degree has two options: Flight Operations and Aviation Operations Management. The degree is designed for students pursuing careers in the field of aviation. Successful graduates of the program will have the knowledge and skills not only in their specific area of aviation interest, but also develop competencies in aviation from business and management perspectives. Students pursuing flight training through Green River College partner flight schools may enter this degree program in partial fulfillment of Federal Aviation Administration (FAA) requirements for the **Restricted Air Transport Pilot (RATP) Certification**.

The Aeronautical Science BAS builds on the following Green River College AAS degrees:

- Airline Dispatch
- Air Traffic Control
- Airport Management
- Air Transportation
- Unmanned Aerial Systems (UAS)
- Commercial Pilot Fixed-Wing

Students typically begin their studies in the BAS program at third-year (junior) standing, with credits earned during their first and second year applying towards the total 180 credits.

Entry Requirements

To enter this program, students must have an associate degree or higher from a regionally accredited institution in aviation. Students must have a minimum cumulative GPA of 2.0 or a waiver from the Program Director for entry into the program. Students who have completed some college coursework but do not have an associate degree or higher are encouraged to meet with an advisor in the Aviation Department to develop an educational plan to prepare for entry into the program.

Students pursuing flight training for the Restricted Air Transport Pilot (R-ATP) Certification must meet the requirements of the FAA under CFR Title 14, Part 61.123.

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Dept./No.	Course Title	Credits
General Education Requirements (60 credits)		
Communication Skills (15 credits)		
CMST& 210 or CMST & 220 or CMST& 230	Interpersonal Communication or Public Speaking or Small Group Communication	5
ENGL 335 and ENGL& 101 or ENGL 126 or ENGL 127 or ENGL 128	Advanced Technical Writing and English Composition I or Writing: Humanities or Writing: Social Sciences or Research Writing: Science/Engineering/Business	5

Quantitative/Symbolic Reasoning Skills (5 credits)

MATH 106 or	Essentials of PreCalculus Math or	
MATH& 107 or	Math in Society or	
MATH 108 or	Contemporary Math for Information Technology or	
MATH& 141 or higher	PreCalculus I or higher	5

Humanities/Fine Arts/English (10 credits)

CMST 338 or	Diversity in the Workplace or	
	Five credits of Humanities/Fine Arts/English courses from the AA-DTA degree	5
PHIL 412 or	Professional Ethics or	
	Five credits of Humanities/Fine Arts/English courses from the AA-DTA degree	5

Natural Sciences (15 credits)

Five credits of Natural Science courses with a lab from AA-DTA degree	5
Ten credits of Natural Science from List A or List B from AA-DTA degree	10

Social Sciences (10 credits)

Ten credits of Social Science courses approved from AA-DTA degree.	10
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Additional General Education (5 credits)

Five credits of courses from the Humanities, Social Science, and Natural Science from AA-DTA degree	5
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AVIA denotes an aviation academic class. FLT denotes an aviation flight training class. The asterisk (*) indicates a class requiring actual flight training. The carat sign (^) Indicates a course that satisfies an FAA Requirement for Restricted Air Transport Pilot (RATP) Certification.

Core Requirements (60 credits)**Core Requirements – Flight Operations (55 credits)**

*^ASIM 324	Turbine Operations Flight	2
*^ASIM 326	Advanced Cockpit Technologies Flight	2
^AVIA300	Certified Flight Instructor Ground School	5
^AVIA301	Certified Flight Instructor Instruments	3
AVIA 360	General Aviation Operations Management	5
^AVIA370	Aviation Safety Management	5
^AVIA 375	ICAO Operations Standards	5
AVIA 400	Airlines Operations Management	5
^AVIA401	Multi-Engine	3
^AVIA402	CFI Multi-Engine	3
^AVIA 410	Aviation and Aircrew Resource Management	5
^AVIA 490	Capstone: Aviation Research Projects	5
*^FLT 300	Certified Flight Instructor	3
*^FLT 301	Instrument Instructor Rating	1
*^FLT 401	Multi-Engine Operations Flight	2
*^FLT 402	Multi-Engine Instructor Rating	1

Core Requirements – Aviation Operations Management (45 credits)

AVIA 360	General Aviation Operations Management	5
^AVIA 370	Aviation Safety Management System	5
^AVIA 375	ICAO Operations Standards	5

AVIA 380	Aviation Career Development and Marketing	5
AVIA 385	Airport Planning and Operations Management	5
AVIA 400	Airlines Operations Management	5
^AVIA 410	Aviation and Aircrew Resource Management	5
AVIA 430	Aviation and the Global Economy	5
^AVIA 490	Capstone: Aviation Research Projects	5

Core Requirement Electives (5-15 credits to complete a minimum of 60 credits at the 300-400 level)

AVIA 305	Instructional Methods in Aviation	5
AVIA 307	Aviation Work Experience 4	1-5
AVIA 308	Aviation Work Experience 5	1-5
AVIA 365	Advanced Aircraft Systems	5
AVIA 390	Introduction to Terminal Instrument Procedures	5
AVIA 420	Methods of Aircraft Accident Investigation	5
NATRS 416	UAV Applications and Mapping	5

Required Additional Credits (60 credits)

The BAS requires 60 credits of 100 level or higher courses from an appropriate Associate Degree to total 180 credits

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