Rocky Mountain College Aviation Program
B.S. in Aeronautical Science
Student Achievement Data

December 2024

Rocky Mountain College Mission

Rocky Mountain College educates future leaders through liberal arts and professional programs that cultivate critical thinking, creative expression, ethical decision-making, informed citizenship, and professional excellence.

(The Mission, Vision and Values, immediately below, apply to all personnel associated with all aviation curriculum at RMC.)

Mission: To educate and train individuals to be professionals and leaders in the aviation industry.

Vision: To be the leader in Collegiate Aviation in the Western U.S., where our graduates are sought-after and where selective admissions and thoughtful growth insure high quality students who graduate at a rate well above that of a public university.

We Value…

- safety as our #1 priority.
- the education of the whole person and the development of independent thought—all based on a strong foundation in the liberal arts.
- being on the leading edge of educational techniques, curriculum content and technology in collegiate aviation.
- the professional development of all students and employees. We'll teach and model professionalism throughout our program and help our employees grow.
- marketability of our graduates and flight instructors.
- efficient and cost-effective flight training.

Mission: Aeronautical Science Major

The mission of the Rocky Mountain College Aeronautical Science major is to develop the next generation of highly qualified professional pilots to serve the aviation industry. Graduates will exhibit professionalism, leadership abilities, critical thinking skills and ethical decision-making.

Educational Goals: Aeronautical Science major

1. Educate students with a firm foundation in the liberal arts that will help them to be leaders in the aviation industry with strong skills in communication and team work.

2. Instill professionalism and ethics expected by the aviation industry.

3. Develop graduates who exhibit strong aviation technical abilities.

4. Graduate students in four years with a commercial certificate with instrument and multi-engine ratings.

Student Learning Outcomes: Aeronautical Science Major

Students who graduate with a major in aeronautical science will be able to:

AABI Core Outcomes

1. Demonstrate attributes of an aviation professional, career planning, and understanding certification;
2. Demonstrate understanding of aircraft design, performance, operating characteristics, and maintenance;
3. Demonstrate understanding of aviation operations in terms of aviation safety and human factors;
4. Demonstrate understanding of national and international aviation law, regulations, and labor issues;
5. Demonstrate understanding of design and operations of airports, airspace, and the air traffic control system;
6. Demonstrate understanding of meteorology and environmental issues;

AABI General Outcomes

7. Apply mathematics, science, and applied sciences to aviation-related disciplines;
8. Analyze and interpret data;
9. Work effectively on multi-disciplinary and diverse teams;
10. Make professional and ethical decisions;
11. Communicate effectively, using both written and oral communication skills;
12. Engage in and recognize lifelong learning;
13. Assess contemporary issues;
14. Use the techniques, skills, and modern technology necessary for professional practice;
15. Assess the national and international aviation environment;
16. Apply pertinent knowledge in identifying and solving problems;
17. Apply knowledge of business sustainability to aviation issues;

AABI Program Criteria

18. Meet FAA commercial pilot standards, with instrument and multi-engine ratings, and demonstrate the ability to operate in a crew environment;

Other Criteria

19. Demonstrate knowledge and application of aerodynamic principles.

Educational Goal #1

- Educate students with a firm foundation in the liberal arts that will help them to be leaders in the aviation industry with strong skills in communication and team work.

COLLECT EVIDENCE
Assessment of communication skills and teamwork are addressed in the Assessment Report for RMC Student Learning Outcomes (SLO). Communication skills are SLO 11. Evidence will be collected using a rubric in AVS 404 CRM class, a rubric in AVS 405 class, internship supervisor evaluations, senior exit survey and oral presentation in AVS 308, Aviation Safety.

Educational Goal #2

- Instill professionalism and ethics expected by the aviation industry.

COLLECT EVIDENCE
Assessment of professionalism and ethics are addressed in the Assessment Report for RMC Student Learning Outcomes. Professionalism is SLO 1 and ethics is SLO 10. Evidence will be collected using a rubric in AVS 400 on a professional interview, internship supervisor evaluations, senior exit survey. We continue to collect data of informal feedback from graduates, as was suggested to us during the AABI visit in 2014. Though not a rigorous survey, we gain a great deal of insight and encouragement from the number of graduates who are pleased with the level of professional training they received.

For ethics, we collect evidence for a rubric used in AVS 400 for a paper written by all students on a real-world ethical situation, from internship evaluations and from senior exit surveys.

Educational Goal #3
- Develop graduates who exhibit strong aviation technical abilities.
Because we have examining authority, we are particularly sensitive to check ride pass rates, and set a goal of keeping rates for both practical tests and written tests above 85% in each syllabi.

COLLECT EVIDENCE
This is largely about check ride pass rates and is address in SLOs Assessment Report, SLO 18.
We analyze pass rates for both airplane practical tests and written FAA tests.
We gather evidence for first time pass rates for each flight course and each FAA written exam.
We also gather evidence from AVS 404 CRM instructor and senior exit survey.

ANALYZE EVIDENCE

2019-2020
100% of graduating seniors have passed all 4 required check rides. 15 graduates
Flight evaluations
Private: 83%
Instrument: 67%
Commercial: 64%
Multi Engine: 80%

Written Test Pass Rate:
Private: 97%
Instrument: 96%
Commercial: 100%

2020-2021
100% of graduating seniors have passed all 4 required check rides. 10 graduates
Flight evaluations
Private: 94%
Instrument: 91%
Commercial: 80%
Multi Engine: 100%

Written Test Pass Rate:
Private: 96%
Instrument: 100%
Commercial: 100%

2021-2022
100% of graduating seniors have passed all 4 required check rides. 20 graduates
Flight evaluations
Private: 56%
Instrument: 64%
Commercial: 86%
Multi Engine: 89%

Written Test Pass Rate:
Private: 83%
Instrument: 100%
Commercial: 97%

2022-2023
100% of graduating seniors have passed all 4 required check rides. 24 graduates
Flight evaluations
Private: 82%
Instrument: 60%

Commercial: 81%
Multi Engine: 92%

Written Test Pass Rate:
Private: 88%
Instrument: 98%
Commercial: 98%

2023-2024
100% of graduating seniors have passed all 4 required check rides. 30 graduates
Flight evaluations
Private: 88%
Instrument: 61%
Commercial: 81%
Multi Engine: 94%

Written Test Pass Rate:
Private: 92%
Instrument: 100%
Commercial: 100%

Educational Goal #4
- Graduate students in four years with a commercial certificate with instrument and multi-engine ratings.

COLLECT EVIDENCE
We will continue to document graduation rates and number of students who start out in aeronautical science and switch to aviation management. When a freshman student is not selected in competition for a flight slot to begin in the spring semester, that student will not count against our retention rates if the student leaves RMC to pursue flying elsewhere.

Program assessment measures employed include:

- End of year surveys from all students
- Exit surveys from each graduating senior
- Formal survey of graduates, conducted approximately every four years
- Informal survey of graduates, conducted in an on-going manner
- Surveys and evaluations from internship supervisors
- Evaluations from outsider aviation professionals who conduct mock interviews with each graduating senior as part of AVS 400 class
- Data from Safety Program, including student inputs to SHORT reports and tracking safety reports
- Feedback on student performance in AVS 405 course, Air Transportation Management, a senior capstone course

- Feedback on student performance in individual required courses directly relating to specific outcomes, such as Aviation Law, and ethics

Graduation and retention rates

	2020	2021	2022	2023	2024	5-year average
Freshmen retention from previous year in Aviation Program	61%	59%	69%	66%	77%	66%
Freshmen retention from previous year, remained at RMC, includes changed major	70%	61%	69%	77%	81%	72%
Aviation program 4-year grad rate	55%	34%	59%	56%	77%	54%
Aeronautical Science 4-year grad rate	48%	30%	47%	50%	47%	44%
Number of Graduates						
Aeronautical Science	15	10	20	24	30	20
Aviation Management	3	3	5	4	3	4
Employment in Aviation industry this grad year, Aeronautical Science	100%	95%	100%	92%	97%	97%

Employment for Aeronautical Science Graduates last 5 years

SkyWest Airlines
Horizon Airlines
Republic Airlines
Endeavor Airlines
PSA Airlines
Alpine Air
Cape Air
Atlas Air
Neptune Aviation
U.S. Navy pilot
U.S. Army Guard helicopter pilot

Billings Flying Service
Richland Aviation
Ryan Air, AK
NetJets
Williams Aerial and Mapping, pilot
Rampart Air
Rocky Mountain College Flight Operations, leadership position
Choice Aviation
Red Rock Aviation, Mesa, AZ
Alliance Flight Training
Overland Aviation flight instruction
Cloud Catcher Aviation, flight instruction
Venture North Aviation, flight instruction
Private party, Corporate pilot