

AVIATION, BACHELOR OF SCIENCE

Bachelor of Science in Aviation, Air Transport Administration Concentration:

The curriculum includes the University of Nebraska at Omaha's (UNO) general education requirements, departmental requirements, a core of aviation classes and specialized courses in air transport administration. All students in a degree program in the aviation department must meet the university general education requirements. Additional information on these requirements can be found in this catalog and on the University General Education website (<https://www.unomaha.edu/general-education/>). Please contact an academic advisor for recommended choices for the major. Certain majors/programs in the Aviation Institute require specific foundational coursework that may also count for General Education requirements. For further information and details, contact an academic advisor.

Bachelor of Science in Aviation, Professional Flight Concentration:

The curriculum includes the UNO's general education requirements, departmental requirements, a core of aviation classes and specialized courses in professional flight. All students in a degree program in the aviation department must meet the university general education requirements. Additional information on these requirements can be found in this catalog and on the University General Education website (<https://www.unomaha.edu/general-education/>). Please contact an academic advisor for recommended choices for the major. Certain majors/programs in the Aviation Institute require specific foundational coursework that may also count for General Education requirements. For further information and details, contact an academic advisor.

Bachelor of Science in Aviation, Unmanned Aircraft Systems Operations Concentration:

The curriculum includes the UNO's general education requirements, departmental requirements, a core of aviation classes and specialized courses in unmanned aircraft systems. All students in a degree program in the aviation department must meet the university general education requirements. Additional information on these requirements can be found in this catalog and on the University General Education website (<https://www.unomaha.edu/general-education/>). Please contact an academic advisor for recommended choices for the major. Certain majors/programs in the Aviation Institute require specific foundational coursework that may also count for General Education requirements. For further information and details, contact an academic advisor.

Requirements

A minimum of 120 credit hours is required for a Bachelor of Science in Aviation. Thirty of the last 36 hours must be courses taken from the University of Nebraska at Omaha (UNO). Registering for courses without having taken the stated prerequisites could result in administrative withdrawal.

To obtain a BSA, a student must fulfill the University, College, and Program requirements. Some courses may satisfy requirements in more than one area, but credit is awarded only once. Grades of C- or better are required in the University General Education courses and in the program, major and concentration hours.

- 40 to 46 hours of University General Education courses
- 19 hours of Program Requirements, courses can meet general education requirements
- 24 hours of Major Requirements

- 27-43 hours in required concentration
- Elective hours as needed to reach 120 total credit hours

TOTAL HOURS: 120

Writing in the Discipline Courses:

The writing in the discipline course in aviation is:

Code	Title	Credits
AVN 3060	WRITING IN AVIATION	3
Total Credits		3

Program Requirements (19 Credit Hours)

Code	Title	Credits
AVN 2510	DIVERSITY IN AVIATION	3
AVN 3600	INTERNATIONAL AVIATION	3
PA 3000	APPLIED STATISTICS AND DATA PROCESSING IN PUBLIC SECTOR	3
PHYS 1050	INTRODUCTION TO PHYSICS	4
PSCI 1100	INTRODUCTION TO AMERICAN NATIONAL GOVERNMENT	3
ECON 2200	PRINCIPLES OF ECONOMICS (MICRO)	3
Total Credits		19

Aviation Major (24 Credit Hours)

Code	Title	Credits
AVN 1000	INTRODUCTION TO AVIATION AND AEROSPACE	3
AVN 1020	PRIVATE PILOT THEORY	3
AVN 1040	HISTORY OF AVIATION AND AEROSPACE	3
AVN 1160	AVIATION SAFETY	3
AVN 2020	AIRLINE OPERATIONS	3
AVN 2050	INTRODUCTION TO AIRPORT ADMINISTRATION	3
AVN 2750	AVIATION METEOROLOGY	3
AVN 3150	AVIATION LAW	3
Total Credits		24

Air Transport Administration Concentration

A "C-" or better must be earned in all courses with in the concentration.

Code	Title	Credits
AVN 3000	BUSINESS AND CORPORATE AVIATION	3
AVN 3090	AIRPORT ADMINISTRATION AND PLANNING	3
AVN 3700	TRANSPORTATION ANALYSIS	3
AVN 4050	GENERAL AVIATION OPERATIONS	3
AVN 4080	AIRPORT SAFETY AND SECURITY	3
AVN 4990	AIR TRANSPORTATION	3
Aviation Electives		6
AVN 3200 or AVN 4200	COOPERATIVE EDUCATION IN AVIATION INTERNSHIP IN AVIATION	3
Total Credits		27

Students must successfully complete 120 credit hours in order to graduate.

Professional Flight Concentration

A "C-" or better must be earned in all courses within the concentration.

Code	Title	Credits
AVN 1024	PRIVATE PILOT FLIGHT LABORATORY	1
AVN 1030	PRIVATE PILOT FLIGHT CERTIFICATE	2
AVN 2104	INSTRUMENT RATING 1	2
AVN 2170	INSTRUMENT FLIGHT THEORY	3
AVN 2114	INSTRUMENT RATING 2	1
AVN 2124	COMMERCIAL PILOT CERTIFICATE 1	2
AVN 2134	COMMERCIAL PILOT CERTIFICATE 2	2
AVN 2144	COMMERCIAL PILOT CERTIFICATE 3	2
AVN 2180	COMMERCIAL PILOT THEORY	3
AVN 3040	HUMAN FACTORS IN AVIATION SAFETY	3
AVN 3070	AIR TRAFFIC CONTROL	3
AVN 3190	CERTIFIED FLIGHT INSTRUCTOR THEORY	3
AVN 3194	CERTIFIED FLIGHT INSTRUCTOR I	2
AVN 3400	MULTI-ENGINE CERTIFICATION	2
AVN 4010	AERODYNAMICS AND AIRCRAFT PERFORMANCE	3
AVN 4020	AIRCRAFT SYSTEMS	3
AVN 4060	ADVANCED AIR TRANSPORT FLIGHT OPERATIONS	3
AVN 4080	AIRPORT SAFETY AND SECURITY	3
Total Credits		43

Unmanned Aircraft Systems

Code	Title	Credits
Requirements:		
AVN 1500	INTRODUCTION TO UNMANNED AIRCRAFT SYSTEMS	3
GEOG 1090	INTRODUCTION TO GEOSPATIAL SCIENCES	4
AVN 2500	UNMANNED AIRCRAFT SYSTEMS FLIGHT OPERATIONS	3
JMC 2320	VIDEO FIELD PRODUCTION	3
AVN 3040	HUMAN FACTORS IN AVIATION SAFETY	3
AVN 3700	TRANSPORTATION ANALYSIS	3
GEOG 4050	GEOGRAPHIC INFORMATION SYSTEMS I	4
AVN 4500	ADVANCED UNMANNED AIRCRAFT SYSTEMS PROCEDURES	3
GEOG 4630	ENVIRONMENTAL REMOTE SENSING	4
ENTR 3710	ENTREPRENEURIAL FOUNDATIONS	3
AVN 4990	AIR TRANSPORTATION	3
AVN 4200	INTERNSHIP IN AVIATION	1-6
Total Credits		39

Bachelor of Science in Aviation-Air Transport Administration

Freshman

Code	Title	Credits
Fall		
ENGL 1150	ENGLISH COMPOSITION I	3
MATH 1220	COLLEGE ALGEBRA ¹	3
AVN 1000	INTRODUCTION TO AVIATION AND AEROSPACE	3
AVN 1020	PRIVATE PILOT THEORY	3
PSCI 1100	INTRODUCTION TO AMERICAN NATIONAL GOVERNMENT	3
Credits		15
Spring		
ENGL 1160	ENGLISH COMPOSITION II	3
CMST 1110	PUBLIC SPEAKING FUNDS	3

AVN 1160	AVIATION SAFETY	3
AVN 2020	AIRLINE OPERATIONS	3
Humanities and Fine Arts		3
Credits		15

Sophomore

Fall		
AVN 2050	INTRODUCTION TO AIRPORT ADMINISTRATION	3
AVN 2750	AVIATION METEOROLOGY	3
AVN 2510	DIVERSITY IN AVIATION	3
PHYS 1050	INTRODUCTION TO PHYSICS	4
PHYS 1054	INTRODUCTION TO PHYSICS LABORATORY	1
Humanities and Fine Arts		3
Credits		17

Spring

AVN 3060	WRITING IN AVIATION	3
AVN 1040	HISTORY OF AVIATION AND AEROSPACE	3
ECON 2200	PRINCIPLES OF ECONOMICS (MICRO)	3
Natural/Physical Science		3
Humanities and Fine Arts		3
Credits		15

Junior

Fall		
AVN 3000	BUSINESS AND CORPORATE AVIATION	3
AVN 3150	AVIATION LAW	3
PA 3000	APPLIED STATISTICS AND DATA PROCESSING IN PUBLIC SECTOR	3
Open Elective ²		3
Open Elective ²		3
Credits		15

Spring

AVN 3090	AIRPORT ADMINISTRATION AND PLANNING	3
AVN 4050	GENERAL AVIATION OPERATIONS	3
Aviation Elective ³		3
Open Elective ²		3
Open Elective ²		3
Credits		15

Senior

Fall		
AVN 3700	TRANSPORTATION ANALYSIS	3
AVN 4200	INTERNSHIP IN AVIATION	3
Aviation Elective ³		3
Open Elective ²		3
Open Elective ²		3
Credits		15

Spring

AVN 3600	INTERNATIONAL AVIATION	3
AVN 4990	AIR TRANSPORTATION	3
AVN 4080	AIRPORT SAFETY AND SECURITY	3
Open Elective ²		3
Open Elective ²		1
Credits		13
Total Credits		120

¹ Student could potentially test out of Math 1220 or based off testing need a lower level math course.

² It is highly recommended that a student consider a Minor to fill open Electives

³ Aviation Electives are classes a student chooses within the aviation department based on their specified interests. Each Administration student must complete 6 credit hours.

This roadmap is a suggested plan of study and does not replace meeting with an advisor. Please note that students may need to adjust the actual sequence of courses based on course availability. Please consult an advisor in your major program for further guidance.

This plan is not a contract and curriculum is subject to change

Additional Information About this Plan:

University Degree Requirements: The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year.

Placement Exams: For Math, English, Foreign Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

**Transfer credit or placement exam scores may change suggested plan of study

Bachelor of Science in Aviation-Professional Flight

Freshman

Fall		Credits
ENGL 1150	ENGLISH COMPOSITION I	3
MATH 1220	COLLEGE ALGEBRA ¹	3
AVN 1000	INTRODUCTION TO AVIATION AND AEROSPACE	3
AVN 1020	PRIVATE PILOT THEORY	3
PSCI 1100	INTRODUCTION TO AMERICAN NATIONAL GOVERNMENT	3
AVN 1024	PRIVATE PILOT FLIGHT LABORATORY	1
Credits		16

Spring

ENGL 1160	ENGLISH COMPOSITION II	3
CMST 1110	PUBLIC SPEAKING FUNDS	3
AVN 1160	AVIATION SAFETY	3
AVN 1030	PRIVATE PILOT FLIGHT CERTIFICATE	2
AVN 2750	AVIATION METEOROLOGY	3
Credits		14

Sophomore

Fall		Credits
AVN 2050	INTRODUCTION TO AIRPORT ADMINISTRATION	3
AVN 2170	INSTRUMENT FLIGHT THEORY	3
AVN 2104	INSTRUMENT RATING 1	2
PHYS 1050	INTRODUCTION TO PHYSICS	4
PHYS 1054	INTRODUCTION TO PHYSICS LABORATORY	1
Humanities and Fine Arts		3
Credits		16

Spring

AVN 1040	HISTORY OF AVIATION AND AEROSPACE	3
AVN 2020	AIRLINE OPERATIONS	3
AVN 2114	INSTRUMENT RATING 2	1
ECON 2200	PRINCIPLES OF ECONOMICS (MICRO)	3
Natural/Physical Science		3
Humanities and Fine Arts		3
Credits		16

Junior

Fall

AVN 2124	COMMERCIAL PILOT CERTIFICATE 1	2
AVN 2180	COMMERCIAL PILOT THEORY	3
AVN 2510	DIVERSITY IN AVIATION	3
AVN 3150	AVIATION LAW	3
PA 3000	APPLIED STATISTICS AND DATA PROCESSING IN PUBLIC SECTOR	3
Credits		14

Spring

AVN 2134	COMMERCIAL PILOT CERTIFICATE 2	2
AVN 2144	COMMERCIAL PILOT CERTIFICATE 3	2
AVN 3040	HUMAN FACTORS IN AVIATION SAFETY	3
AVN 3060	WRITING IN AVIATION	3
AVN 3070	AIR TRAFFIC CONTROL	3
Open Elective ²		3
Credits		16

Senior

Fall

AVN 3400	MULTI-ENGINE CERTIFICATION	2
AVN 4010	AERODYNAMICS AND AIRCRAFT PERFORMANCE	3
AVN 4020	AIRCRAFT SYSTEMS	3
Humanities and Fine Arts		3
Open Elective		3
Credits		14

Spring

AVN 3190	CERTIFIED FLIGHT INSTRUCTOR THEORY	3
AVN 3194	CERTIFIED FLIGHT INSTRUCTOR I	2
AVN 3600	INTERNATIONAL AVIATION	3
AVN 4080	AIRPORT SAFETY AND SECURITY	3
AVN 4060	ADVANCED AIR TRANSPORT FLIGHT OPERATIONS	3
Credits		14
Total Credits		120

¹ Student could potentially test out of Math 1220 or based off testing need a lower level math course.

* Students typically fly in summer months, labs could run in summer.

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Bachelor of Science in Aviation-Unmanned Aircraft Systems

Freshman

		Credits
Fall		
ENGL 1150	ENGLISH COMPOSITION I	3
MATH 1220	COLLEGE ALGEBRA ¹	3
AVN 1000	INTRODUCTION TO AVIATION AND AEROSPACE	3
AVN 1020	PRIVATE PILOT THEORY	3
GEOG 1090	INTRODUCTION TO GEOSPATIAL SCIENCES	4
Credits		16

Spring

AVN 1500	INTRODUCTION TO UNMANNED AIRCRAFT SYSTEMS	3
AVN 1160	AVIATION SAFETY	3
ENGL 1160	ENGLISH COMPOSITION II	3
CMST 1110	PUBLIC SPEAKING FUNDS	3
PSCI 1100	INTRODUCTION TO AMERICAN NATIONAL GOVERNMENT	3
Credits		15

Sophomore

Fall		
AVN 2500	UNMANNED AIRCRAFT SYSTEMS FLIGHT OPERATIONS	3
JMC 2320	VIDEO FIELD PRODUCTION	3
AVN 1040	HISTORY OF AVIATION AND AEROSPACE	3
AVN 2750	AVIATION METEOROLOGY	3
PHYS 1050	INTRODUCTION TO PHYSICS	4
Credits		16

Spring

AVN 2020	AIRLINE OPERATIONS	3
ECON 2200	PRINCIPLES OF ECONOMICS (MICRO)	3
AVN 3040	HUMAN FACTORS IN AVIATION SAFETY	3
AVN 2050	INTRODUCTION TO AIRPORT ADMINISTRATION	3
Humanities and Fine Arts		3
Credits		15

Junior

Fall		
AVN 3060	WRITING IN AVIATION	3
PA 3000	APPLIED STATISTICS AND DATA PROCESSING IN PUBLIC SECTOR	3
ENTR 3710	ENTREPRENEURIAL FOUNDATIONS	3

GEOG 4050	GEOGRAPHIC INFORMATION SYSTEMS I	4
Humanities and Fine Arts		3
Credits		16

Spring

AVN 4500	ADVANCED UNMANNED AIRCRAFT SYSTEMS PROCEDURES	3
AVN 3150	AVIATION LAW	3
AVN 3600	INTERNATIONAL AVIATION	3
Humanities and Fine Arts		3
Open Elective		3
Credits		15

Senior

Fall		
AVN 3700	TRANSPORTATION ANALYSIS	3
AVN 2510	DIVERSITY IN AVIATION	3
AVN 4200	INTERNSHIP IN AVIATION	3
Open Elective		3
Open Elective		3

Credits		15
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Spring

AVN 4990	AIR TRANSPORTATION	3
GEOG 4630	ENVIRONMENTAL REMOTE SENSING	4
Open Elective		3
Open Elective		2

Credits		12
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Total Credits		120
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¹ Math courses depend on the ACT subscore, students could need a lower level math or test out completely as well.

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