



Memo

To: Randy Smith, Vice Provost for Academic Programs, Office of Academic Affairs
From: Rosie Quinzon-Bonello, Assistant Dean for Curriculum and Assessment
Date: April 21, 2025

Re: Informational Item: UG Program Change – Aviation Minor

On April 21, 2025, the College Committee for Academic Affairs had no questions or concerns for the following informational items submitted by the BSc in Aviation program:

- retire AVIAASC-MN and reactivate AVIATION-MN
- revise core requirements to provide flexibility and increase elective credit hours

Current Requirements (17 hrs)	Proposed Requirements (15-17 hrs)
Aviation 2000 (3 hrs)	Aviation 2000 (3 hrs)
Aviation 2100 (5 hrs)	Aviation 2100 or 2150 (3-5 hrs)
Aviation 3000 (3 hrs)	
Electives (6 hrs)	Electives (9 hrs)
From a list of 20 Aviation courses	Any 2000, 3000, 4000, or 5000 level Aviation course

The background, rationale, as well as the transition plan are in the attached proposal.

Yours sincerely,

Rosie Quinzon-Bonello



April 8, 2025

SUBJECT: Aviation Minor Program Change

PROPOSAL: The Center for Aviation Studies, as steward of Aviation-related curriculum across the College of Engineering, College of Arts and Sciences, and Fisher College of Business, has some changes which it wishes to note, in relation to the aviation minor program:

- 1) Retire the Aviation-Social & Behavioral Sciences minor (AVIAASC-MN) and reactivate the Aviation minor (AVIATIO-MN).
- 2) The Aviation minor (AVIATIO-MN) curriculum will match the current Aviation-Social & Behavioral Sciences minor (AVIAASC-MN) with the following changes
 - a) The addition of AVIATN 2150 as an option to the required courses. Students need to complete either AVIATN 2100 or AVIATN 2150.
 - b) The removal of AVIATN 3000 from required courses.
 - c) Increase the Elective requirement from 6 to 9 hours.
 - d) Replace the current list of elective courses with the allowance of any 2000, 3000, 4000, or 5000 level Aviation course. Aviation interest areas will be added to help students choose the 9 hours of minor electives to complete the aviation minor.

Current Requirements (17 hrs)	Proposed Requirements (15-17 hrs)
Aviation 2000 (3 hrs)	Aviation 2000 (3 hrs)
Aviation 2100 (5 hrs)	Aviation 2100 or 2150 (3-5 hrs)
Aviation 3000 (3 hrs)	
Electives (6 hrs)	Electives (9 hrs)
From a list of 20 Aviation courses	Any 2000, 3000, 4000, or 5000 level Aviation course

BACKGROUND AND RATIONALE:

- 1) Retire the Aviation-Social & Behavioral Sciences minor (AVIAASC-MN) and reactivate the Aviation minor (AVIATIO-MN).
 - a) The "Social and Behavioral Sciences" addition to Aviation in the title no longer represents the curriculum and outcomes of this minor program. The Center for Aviation Studies wishes to name the minor simply "Aviation".
 - b) Both the AVIAASC-MN (Aviation-Social & Behavioral Sciences and earlier Aviation-Arts and Sciences) and AVIATIO-MN (Aviation) existed simultaneous until 2010 when AVIATIO-MN (Aviation) was inactivated. Instead of performing a name change on AVIAASC-MN to Aviation (which would then match the inactivated AVIATIO-MN), it is supported by EARI and OUR offices that the current AVIAASC-MN be inactivated and the AVIATIO-MN be reactivated. As the reactivated AVIATIO-MN is already named "Aviation" a name change would not be required.



- 2) The Aviation minor (AVIATIO-MN) curriculum will match the current Aviation-Social & Behavioral Sciences minor (AVIAASC-MN) with the following changes
- a) The addition of AVIATN 2150 as an option to the required courses. Students need to complete either AVIATN 2100 or AVIATN 2150.
 - i) AVIATN 2150 was offered for the first time AU24. It was created in part to be a better introductory course for students not planning on pursuing flight training. AVIATN 2100 leads to a private pilot license.
 - ii) Flight training is not an option for students in the aviation minor, so AVIATN 2150 is a more appropriate course. AVIATN 2100 is still an option in the aviation minor for students who may have started pursuing flight training but decided not to continue.
 - iii) AVIATN 2100 and 2150 are options in the aviation major as well. And these two courses are interchangeable as a prerequisite in many aviation courses.
 - b) The removal of AVIATN 3000 from required courses.
 - i) AVIATN 3000 was previously required in the aviation minor in part due to it being listed as a prerequisite for many upper-level aviation courses.
 - ii) The Center for Aviation Studies is updating prerequisites for many of its courses effective AU25 and AVIATN 3000 will no longer be a prerequisite for many aviation courses.
 - iii) The aviation minor not requiring AVIATN 3000 will allow students to tailor the aviation minor curriculum to different aviation interest areas.
 - iv) AVIATN 3000 can be completed as a minor elective now if desired.
 - c) Increase the Elective requirement from 6 to 9 hours.
 - i) This accounts for the reduction of 3 required hours when removing AVIATN 3000, repurposing the hours to the electives.
 - d) Replace the current list of elective courses with the allowance of any 2000, 3000, 4000, or 5000 level Aviation course. Aviation interest areas will be added to help students choose the 9 hours of minor electives to complete the aviation minor.
 - i) Over the past few years, the Center for Aviation Studies has created new courses that point towards different aviation careers and interest areas from drones/UAS, air traffic control, aircraft dispatching, etc.
 - ii) The addition of listing optional interest areas and the associated courses allows students to better tailor aviation minor for their own interests.

TRANSITION:

We request the Aviation-Social & Behavioral Sciences minor (AVIAASC-MN) be made inactive effective May 5, 2025 and the Aviation minor (AVIATIO-MN) be reactivated May 5, 2025. This in practice ends the old name and curriculum Spring 2025 and establishes the new name and curriculum Summer 2025. This aligns with the university reporting years such that all new Aviation minors will be awarded during the Summer 2025 – Spring 2026 academic year.

There are 27 students active in the Aviation-Social & Behavioral Sciences minor (AVIAASC-MN) for Summer 2025. As the curriculum change allows more options (old curriculum would fulfill new requirements), all students would be moved from AVIAASC-MN to AVIATIO-MN so that AVIAASC-MN can be inactivated effective the end of Spring 2025.

These proposed changes to the aviation minor curriculum will allow our students to be able to move more effectively through the program and complete course work that is related to their interests in aviation. Attached is the current aviation minor curriculum and the proposed aviation minor curriculum. Thank you for your time, and we are appreciative of any consideration that may be extended to this request, in order to better serve our students. Please let me know if there are any additional questions.

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Overview

The minor in Aviation consists of a minimum of 17 credit hours of required and elective course work as listed below.

The Aviation minor does not have an application process. Some courses in this minor may have pre-requisites. Please consult the course bulletin before enrolling in courses.

Required courses (11 credit hours)

Aviation 2000: Intro to the Aviation Industry (3) Aviation 2100: Private Pilot Fundamentals (5) Aviation 3000: Aviation Management & Marketing (3)

Elective course work (min 6 credit hours)

Select at least six (6) credit hours from:

Aviatn 2200: Aviation Communications (3)
Aviatn 2300: Aircraft Performance and Weather (3)
Aviatn 2400: Fundamentals in UAS (3)
Aviatn 2401: UAS Ground and Flight Operations (3)
Aviatn 2900: Air Traffic Control Fundamentals (3)
Aviatn 3193: Individual Studies in Aviation (2-5)
Aviatn 3194: Group Studies in Aviation (2-5)
Aviatn 3200: Aviation Regulations (3)
Aviatn 3300: Aviation Human Factors & Safety (3)
Aviatn 3400: Aviation Accident Investigation (3)
Aviatn 3600: Business and Corporate Aviation Management (3)
Aviatn 3700: Building a Diverse Workforce in Aviation (3)
Aviatn 4000: Air Transportation Analysis I (3)
Aviatn 4200: Aircraft Dispatch Fundamentals (3)
Aviatn 4201: Applied Dispatching (3)
Aviatn 4400: Airport Management (3)
Aviatn 4800: Professional Practice in Industry (2-5)
Aviatn 5000: Air Transportation Analysis II (3)
Aviatn 5193: Individual Studies in Aviation (2-5)
Aviatn 5194: Group Studies in Aviation (2-5)
Aviatn 5300: Airport Planning, Design, & Development (3)

Aviation minor program guidelines

Required for Graduation No

Credit Hours Required

A minimum of 17 credit hours. **At least 6 credit hours need to be at the 3000 level or above**

Transfer and EM Credit Hours Allowed

A student is permitted to count up to 6 total hours of transfer credit and/or credit by examination toward the minor.

Overlap with the Major and Additional Minor(s)

- The minor must be in a different subject than the major.
- The minor must contain a minimum of 12 hours distinct from the major and/or additional minors.

Grades Required

- Minimum C- for a course to be listed on the minor.
- Minimum 2.00 cumulative point-hour ratio required for the minor.
- Course work graded Pass/Non-Pass cannot count on the minor.
- No more than 3 credit hours of course work graded Satisfactory/Unsatisfactory may count towards the minor.

X193 Credits

No more than 3 credit hours

Variation From Program

Any variation from the program described above needs the approval from the Center for Aviation Studies. For questions regarding the Aviation Minor, please contact Emily Castellucci.5.

PROPOSED

The Ohio State University College of Engineering Aviation Minor (AVIATIO-MN)

Overview

The aviation minor consists of 15-17 credit hours of required and elective course work as listed below.

The aviation minor does not have an application process. Some courses in this minor may have pre-requisites. Please consult the course catalog before enrolling in courses.

Required courses (6-8 credit hours)

AVIATN 2000: Intro to the Aviation Industry (3)
Choose one of the following:
AVIATN 2100: Private Pilot Fundamentals (5)
AVIATN 2150: Intro Flight Ops (3)

Elective course work (9 credit hours)

The remaining credit hours are to be chosen from any AVIATN courses at the 2000, 3000, 4000 or 5000 level. Some of these courses have prerequisites. Students would need to consider whether they meet the prerequisites before selecting the electives that are most appropriate for their interests. Possible interest areas and corresponding courses are listed below. Completion of all courses from an interest area is not required and may not be sufficient to meet minor requirements.

Drones and UAS

AVIATN 2400: Fundamentals in Unmanned Aircraft Systems (3)
AVIATN 2401: UAS Ground and Flight Operations (3)
AVIATN 3800: Advanced Uncrewed Aviation Operations Beyond Visual Line of Sight (3)

Air Traffic Control

AVIATN 2900: Air Traffic Control Fundamentals (3)
AVIATN 2901: Air Traffic Control Fundamentals Lab (1)
AVIATN 3900: Air Traffic Management Systems and Environment (3)

Aviation Management

AVIATN 3000: Aviation Management and Marketing (3)
AVIATN 3600: Business and Corporate Aviation Management (3)
AVIATN 4000: Air Transportation Analysis I (3)
AVIATN 5000: Air Transportation Analysis II (3)

Weather and Performance

AVIATN 2300: Aircraft Performance and Weather (3)
AVIATN 2850: Applied Aircraft Performance I (3)
AVIATN 3850: Applied Aircraft Performance II (3)

Aircraft Dispatching

AVIATN 2300: Aircraft Performance and Weather (3)
AVIATN 4200: Aircraft Dispatch Fundamentals (3)
AVIATN 4201: Applied Dispatching (3)

Safety and Human Factors

AVIATN 2300: Aircraft Performance and Weather (3)
AVIATN 3300: Aviation Human Factors and Safety (3)
AVIATN 3400: Aviation Accident Investigation (3)

Aviation Minor Program Guidelines

Required for Graduation: No

Credit Hours Required

A minimum of 15 credit hours. **At least 6 credit hours need to be at the 3000 level or above**

Transfer and EM Credit Hours Allowed

A student is permitted to use up to 6 total hours of transfer credit and/or credit by examination toward the minor.

Overlap with the Major and Additional Minor(s)

The minor must be in a different subject than the major. The minor must contain a minimum of 12 hours distinct from the major and/or additional minors.

Grades Required

Minimum C- for a course to be listed on the minor. Minimum 2.00 cumulative point-hour ratio required for the minor. Coursework graded Pass/Non-Pass cannot count on the minor. No more than 3 credit hours of course work graded Satisfactory/Unsatisfactory may count towards the minor.

X193 Credits

No more than 3 credit hours

Variation from Program

Any variation from the program described above needs the approval of the Center for Aviation Studies. For questions regarding the aviation minor, please contact Emily Castellucci.5