



Memo

To: Randy Smith, Vice Provost for Academic Programs, Office of Academic Affairs
From: Cory Matyas, Assistant Dean for Curriculum and Assessment
Date: January 2, 2026
Re: Informational Item – Chemical & Bimolecular Engineering Program Update

The Center for Aviation Studies proposes updates to the Aviation major curriculum, impacting both the standard program and the Professional Pilot Certification (PPC) subplan. These changes maintain the total degree requirement of 121 credit hours while improving career readiness and compliance with accreditation and FAA standards.

- New Courses: AVIATN 1201 & 1202 (Seminar I & II) added; AVIATN 2200 replaced by AVIATN 2220.
 - Electives: Free electives reduced to 15 hours; total degree hours remain 121.
- PPC Subplan: Adds 15-hour Restricted ATP elective; technical electives cut from 20 to 5.

Effective: Autumn 2026.

The Engineering College Committee on Academic Affairs met on December 4, 2025 and reviewed this proposal as an informational item. There were no questions or concerns and a College-level record of support for this proposal was created.

Sincerely,

Cory Matyas



November 3, 2025

SUBJECT: Aviation Major 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 major program:

For the Aviation Program – non-PPC and PPC

- 1) The addition of AVIATN 1201 (1) and 1202 (1) – Aviation Seminar Course I and II as required courses
- 2) The removal of AVIATN 2200 (3) – Air Transportation Organization Analysis and Writing
- 3) The addition of AVIATN 2220 (3) – Aviation Organization Analysis and Writing
- 4) Free electives/specialization credit hours reduced from 17 to 15
- 5) Minimum credit hours to degree remain at 121

For the Aviation Program – PPC only

- 1) The addition of a Restricted Air Transport Pilot Elective (RATP) section from which 15 credit hours of RATP approved courses must be completed
- 2) The reduction of technical elective hours from 20 to 5
- 3) Free elective/specialization credit hours reduced from 17 to 15
- 4) Minimum credit hours to degree remain at 121

BACKGROUND AND RATIONALE:

For the Aviation Program – non-PPC and PPC

- 1) The addition of AVIATN 1201 (1) and 1202 (1) – Aviation Seminar Course I and II as required courses
 - For a while now, the Center for Aviation studies has been considering a course or two to better prepare students for pursuing a career in the aviation industry. There is a need to expose students to the breadth of different career options in the aviation industry and to the multiple paths and career options. And to be prepared to find, apply for, and accept these jobs. Also, with the possible move to dissolve engineering survey into the engineering fundamental course there was a need to continue to provide aviation students specific aviation curriculum content and process. These two new courses do exactly this. Each course is 1 credit hour and the 2 credit hours will decrease the free elective hours by 2 to keep the total hours of the degree the same.
- 2) The removal of AVIATN 2200 (3) – Air Transportation Organization Analysis and Writing
- 3) The addition of AVIATN 2200 (3) – Aviation Organization Analysis and Writing
 - AABI accreditation has suggested that the air transportation and aviation majors should be more separate. This started with the capstone course and we seek to continue doing so with AVIATN 2200 and 2220. AVIATN 2220 is similar to AVIATN 2200 but specifically designed for aviation majors.

For the Aviation Program – PPC only

- 1) The addition of a Restricted Air Transport Pilot (RATP) section from which 15 credit hours of RATP approved courses must be completed
 - Aviation majors pursuing the PPC subplan are studying to become professional pilots. One major benefit of doing this at Ohio State has to do with Ohio State's part 141 designation with the FAA. After graduation and

completion of a commercial rating, to get a professional pilot job students need 1500 flight hours known as Air Transport Pilot or ATP. Part 141 designation allows Ohio State to offer restricted ATP (RATP). Students who complete their instrument and commercial ratings at Ohio State and complete at least 60 hours of RATP approved coursework before graduation get a 500 hours reduction in the flight hour requirement to get ATP known as restricted ATP. So adding 15 hours of RATP elective to the PPC requirements allows students to track progress towards 60 RATP hours in a way they have not been able to do before. 15 hours of RATP elective plus the other RATP approved courses already required by the major guarantees any student completing PPC will make the 60 RATP hour threshold. The total degree hours will remain the same as the 15 hours will come from the technical elective requirement which is already how aviation majors completed RATP hours.

TRANSITION PLAN:

For the Aviation Program – non-PPC and PPC

- 1) The addition of AVIATN 1201 (1) and 1202 (1) – Aviation Seminar Course I and II as required courses
 - The effective term/year of this change would be AU26. Requiring these additional credits is offset by reducing the number of free electives to keep total hours of degree at 121.
 - This new version of curriculum will be the new default. Students who have credit for ENGR 1100.02 will not need to take AVIATN 1201. Student will be heavily encouraged to take these two new courses and complete this new version of the curriculum. On a case by case basis the Center for Aviation Studies may decide to waive the AVIATN 1202 for students with a requirement term prior to AU26.
- 2) The removal of AVIATN 2200 (3) – Air Transportation Organization Analysis and Writing
- 3) The addition of AVIATN 2200 (3) – Aviation Organization Analysis and Writing
 - The effective term/year of this change would be AU26. AVIATN 2220 will replace AVIATN 2200 in the curriculum and have no effect on total hours of the degree.
 - This new version of the major will be the default. On a case by case basis the Center for Aviation Studies may decide to still accept AVIATN 2200 for students with a requirement term prior to AU26.

For the Aviation Program – PPC only

- 1) The addition of a Restricted Air Transport Pilot (RATP) section from which 15 credit hours of RATP approved courses must be completed
 - The effective term/year of this change would be AU26. Requiring these additional credits is offset by reducing the number of tech electives to keep total hours of degree at 121.
 - This new version of the PPC subplan will be the new default. Students who do not wish to complete the new elective requirement will have the PPC subplan removed and complete the aviation major without the PPC subplan.

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Bachelor of Science

• Aviation

Students in this major will complete a minimum of 121 hours outlined as follows.

General Education Requirements		
Requirement	Course Options	Hours
GE Launch Seminar	GENED 1201	1
Foundations: Writing and Information Literacy	<i>Student Choice</i>	3
Foundations: Mathematical & Quantitative Reasoning/Data Analysis	<i>Student Choice*</i>	College requirement
Foundations: Literary, Visual and Performing Arts	<i>Student Choice</i>	3
Foundations: Historical & Cultural Studies	<i>Student Choice</i>	3
Foundations: Natural Science	<i>Student Choice*</i>	College requirement
Foundations: Social & Behavioral Sciences	<i>Student Choice</i>	3
Foundations: Race, Ethnic and Gender Diversity	<i>Student Choice</i>	3
Theme: Citizenship for a Diverse & Just World ^b	<i>Student Choice</i>	4
Theme: Student Choice	<i>Student Choice</i>	4
GE Reflection	GENED 4001	1
Total		25

Major Coursework		
Course	Title	Hours
Major Core		
AVIATN 1201	Aviation Seminar Course I	1
AVIATN 1202	Aviation Seminar Course II	1
AVIATN 2000	Introduction to the Aviation Industry	3
AVIATN 2150	Introduction to Flight Operations	3
AVIATN 2220	Aviation: Organization Analysis and Writing	3
AVIATN 2300	Aviation Weather	3
AVIATN 3000	Aviation Management & Marketing	3
AVIATN 3200	Aviation Regulations	3
AVIATN 3300	Human Factors and Safety	3
AVIATN 4520	Aviation Capstone	3
Aviation Electives		15
Total		3941
Technical, Free, or Specialization Electives		
Technical Electives		20
Free Electives or Specialization		1715
Total		3735

College / Degree Requirements		
Requirement	Course Options	Hours
MATH 1151*, 1172*, (Math & Quantitative Reasoning / Data Analysis)		10
PHYSICS 1250* (Nat Sci)		5
ENGR 1181.0x, 1182.0x		4
ENGR 1100.02		1
Total		20

General Education	25
College / Degree	20
Major Core	3941
Technical, or Specialization Electives	3735
Minimum Total Credit Hours for Degree	121

Bachelor of Science

• Aviation with Professional Pilot Certification (PPC)

Students in this major will complete a minimum of 121 hours outlined as follows.

General Education Requirements		
Requirement	Course Options	Hours
GE Launch Seminar	GENED 1201	1
Foundations: Writing and Information Literacy	<i>Student Choice</i>	3
Foundations: Mathematical & Quantitative Reasoning/Data Analysis	<i>Student Choice*</i>	College requirement
Foundations: Literary, Visual and Performing Arts	<i>Student Choice</i>	3
Foundations: Historical & Cultural Studies	<i>Student Choice</i>	3
Foundations: Natural Science	<i>Student Choice*</i>	College requirement
Foundations: Social & Behavioral Sciences	<i>Student Choice</i>	3
Foundations: Race, Ethnic and Gender Diversity	<i>Student Choice</i>	3
Theme: Citizenship for a Diverse & Just World ^b	<i>Student Choice</i>	4
Theme: Student Choice	<i>Student Choice</i>	4
GE Reflection	GENED 4001	1
Total		25

College / Degree Requirements		
Requirement	Course Options	Hours
MATH 1151*, 1172*, (Math & Quantitative Reasoning / Data Analysis)		10
PHYSICS 1250* (Nat Sci)		5
ENGR 1181.0x, 1182.0x		4
ENGR 1100.02		1
Total		20

Major Coursework		
Course	Title	Hours
Major Core		
AVIATN 1201	Aviation Seminar Course I	1
AVIATN 1202	Aviation Seminar Course II	1
AVIATN 2000	Introduction to the Aviation Industry	3
AVIATN 2100	Private Pilot Fundamentals	5
AVIATN 2220	Aviation: Organization Analysis and Writing	3
AVIATN 2300	Aviation Weather	3
AVIATN 3000	Aviation Management & Marketing	3
AVIATN 3200	Aviation Regulations	3
AVIATN 3300	Human Factors and Safety	3
AVIATN 4520	Aviation Capstone	3
PPC students will add the following courses which will taken in place of Aviation Electives (15) . Technical Elective and Free Elective hours are adjuste so that the total number of credit hours for the degree remain the same		25
RATP Electives	AVIATN 2850(3), 2900(3), 2901(1), 3400(3), 3600(3), 3850(3), 3900(3), 4000(3), 4200(3), 4201(3), 5102(1), 5200(2), 5201(1), ATMOSC 2940(3), AEROENG 2200(4), 2201(4), GEOG 5900(3)	15
Total		5468
Technical, Free or Specialization Electives		
Technical Electives		205
Free Electives or Specialization requirements		53
Total		258

General Education	25
College / Degree	20
Major Core	5468
Technical, Free or Specialization Electives	258
Minimum Total Credit Hours for Degree	121