



Memo

To: Randy Smith, Vice Provost for Academic Programs

From: Rosie Quinzon-Bonello, Assistant Dean for Curriculum and Assessment

Date: January 11, 2024

Re: Informational Item – Curriculum Change to the BS Aviation Engineering Program

On December 4, 2023, the College of Engineering Committee for Academic Affairs approved the curriculum change proposal for students not pursuing the Professional Pilot Specialization. This change consists of

1. The creation of Aviation 2150 (3) *Introduction to Flight Operations*
2. Changing the aviation core **FOR NON-PILOT** students, from AVN 2100 Private Pilot (5) to Aviation 2150 (3).

The reduction of two credit hours in the major core for this group of students (41 to 39) will result in the increase of two credit hours to the “Free Elective or Specialization” category from 15 to 17. There is no change to the total number of credit hours for the degree.

Yours sincerely,


Rosie Quinzon-Bonello



November 2, 2023

SUBJECT: Aviation Engineering Program Changes

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 two changes which it wishes to note, in relation to the Aviation Engineering program:

1. The creation of Aviation 2150: Introduction to Flight Operations
2. Changing the aviation core **FOR NON-PILOT** students, from AVN 2100 Private Pilot Fundamentals to AVN 2150 Introduction to Flight Operations.

BACKGROUND AND RATIONALE:

Historically all students completing the Aviation Engineering major have been required to complete Aviation 2100: Private Pilot Fundamentals. This course is required for all students, but the content is specifically directed at students who desire to complete the Professional Pilot Specialization.

We are proposing the creation of Aviation 2150: Introduction to Flight Operations to replace Aviation 2100 in the Core for students who do not wish to pursue the Professional Pilot Specialization. This three-credit hour course will reduce the core for non-pilot students by 2 credit hours. The course is also designed to give students a much more comprehensive background on flight operations, beyond what they are currently introduced to in Aviation 2100.

Our intent is to offer this course in Autumn 2024 for engineering students who wish to take this course instead of 2100. For students entering the major Fall 2025, this will be the new core requirement for non-pilot, or students not pursuing the professional pilot specialization.

Students pursuing the Professional Pilot Specialization will still be required to take Aviation 2100. If for some reason they change their mind and remove the specialization from their degree, the Center for Aviation Studies will accept AVN 2100 in place of AVN 2150.

However, if a student changes their mind and elects to pursue the Professional Pilot Specialization, AVN 2100 is required and cannot be substituted per FAA regulations and our status as a Part 141 program.

We believe this change to our core will significantly benefit our Aviation Engineering students who are not pursuing the Professional Pilot Specialization by introducing them to a significantly greater number of topics related to flight operations, which will serve these students in their future careers.

These proposed changes to the Aviation Engineering curriculum will allow our students to be able to move more effectively through the program and complete course work that is related to aviation technical concepts. Attached is an updated curriculum sheet with track changes, as well as a clean copy of the document. I have



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also attached the syllabus for AVN 2150, and a new course has been proposed to the committee as well. 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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Center for Aviation Studies
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Proposed Bachelor of Science

• Aviation Non-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 2000 | Introduction to the Aviation Industry | 3 |
| AVIATN 2150 | Introduction to Flight Operations | 3 |
| AVIATN 2200 | AVN Org, 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: Aviation Engineering | 3 |
| Aviation Electives | | 15 |
| Total | | 39 |
| Technical, Free, or Specialization Electives | | |
| Technical Electives | | 20 |
| Free Electives or Specialization | | 17 |
| Total | | 37 |

| | |
|--|------------|
| General Education | 25 |
| College / Degree | 20 |
| Major Core | 39 |
| Technical, or Specialization Electives | 37 |
| Minimum Total Credit Hours for Degree | 121 |