

TO: Undergraduate Curriculum Committee

FROM: K. E. Crooks  
College of Aeronautics

DATE: November 20, 2007

SUBJECT: **AERONAUTICAL SCIENCE/FLIGHT (7102) CURRICULUM CHANGES**

Request Undergraduate Curriculum Committee approval for the attached curriculum changes. These revisions are the result of a thorough curriculum review incorporating recommendations from the aviation industry, AABI (Aviation Accreditation Board International), the COA Board of Advisors, alumni and faculty.

The package consists of four new courses, the enhancement of one existing course, and some modification of the 7102 curriculum.

### **New Courses**

|          |  |             |
|----------|--|-------------|
| AVT 1303 | Aviation History                           | (1 Credit)  |
| AVT 2303 | Aviation Career Planning                   | (1 Credit)  |
| AVM 4303 | General Aviation Operations and Management | (3 Credits) |
| AVS 4304 | Aviation Security                          | (3 Credits) |

These courses were recommended by AABI, alumni in the industry and faculty.

**Credit Hour Change** for AVT 4203, Airline Operations, from 3 to 4 credit hours.

- This is the capstone course for the major.
- Classroom hours are increased by 13 hours to adequately cover essential topics and to add a module on international operations.
- Topics added (indicated by italics in syllabus):
  - International aerospace operations.
  - International flight plans and dispatch.
  - Re-dispatching.
  - Crew management aspects of dispatching.

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Aeronautical Science/Flight (7102) Curriculum Changes

### **Curriculum Change**

- To make the program more competitive, so as to enhance recruitment of new students and to better reflect the stated needs of the industry for professional pilot education.
- The calculus and physics requirements of the existing program are not required for any subsequent courses in the curriculum, do not appear in any competitor's aeronautical science degree program, and (according to input from the industry) are not utilized by graduates in the field.
- They are replaced by existing applied calculus and non-calculus physical science courses. Four other courses are replaced by new or existing courses.
- The three credit, AVX restricted elective will be used to fulfill the QEP requirement.

This proposed curriculum modification was endorsed by the College of Aeronautics Board of Advisors on October 17, 2007.

KEC/sy