Aerospace Engineering
Undergraduate Curriculum Model Change Request

The Aerospace Engineering Department is requesting that changes be made in their current undergraduate curriculum model. The requested changes are listed below.

1. Switch the positions of AERO 3610: Aerospace Structures I and AERO 3130: Aerodynamics Lab in the current curriculum model. AERO 3610 will move from the fall of the junior year to the spring of the junior year. AERO 3130 will move from the spring of the junior year to the fall of the junior year. This change is requested to allow our sophomore students more time to complete the prerequisite sequence necessary for enrollment in AERO 3610.

2. Change the title of AERO 4710: Aircraft Design I to AERO 4710: Aerospace Design I. Change the title of AERO 4720: Aircraft Design II to AERO 4720: Aerospace Design II. These changes are requested to broaden the scope of the class material to any type of aerospace vehicle.

3. Change the course designation “Design Option I” to AERO 4710: Aerospace Design I. Change the course designation “Design Option II” to AERO 4720: Aerospace Design II.

4. Delete AERO 4640: Aerospace Structures III from the curriculum model and reallocate the released two credit hours to AERO 4620: Aerospace Structures II and AERO 4630: Aerospace Structural Dynamics in the form of a one credit computer laboratory. This change would boost the credit hours of AERO 4620 from three to four credit hours and also boost the credit hours of AERO 4630 from three to four. The total credit hours in the curriculum model remains at the current level of 128 hours. This reallocation of credit hours will allow the students to directly work on computer analysis of structural designs associated with the lecture topics in a laboratory environment. The current configuration of these three courses artificially separates the lecture topics from AERO 4620 and 4630 with the computer laboratory projects of AERO 4640 and is not a very efficient arrangement for either the students or instructor. Bringing the laboratory component within the AERO 4620 and 4630 courses will create a better learning environment.