AEROSPACE CONCENTRATION
(12 Credits)

IMPORTANT: 1) For the latest and most accurate version of this concentration, please refer to the Dept. of Mechanical Engineering website. Earlier versions are invalid and will not be honored. 2) You MUST meet with the ME junior/senior advisor and arrange for the concentration code to be added to your record PRIOR to applying for graduation. This ensures that the concentration statement will appear on your final transcript. To make an appointment, call 517-355-3338.

A mechanical engineering degree with the aerospace engineering concentration recognizes the expertise of students in subjects related to aerospace applications and to the aerospace industry, which provides many career opportunities for mechanical engineering graduates. Students who meet the requirements of this concentration will have expertise in aerodynamics, propulsion, and structures, supplemented by other strengths in the core Mechanical Engineering degree program.

To complete a Bachelor of Science degree in mechanical engineering with an aerospace engineering concentration, students must complete the requirements for the B.S. degree, including:

- ME 440 Aerospace Propulsion 3 credits (Fall Only)
- ME 441 Aerodynamics and Aircraft Performance 3 credits (Spring Only)

Plus one course from the following list:

- ME 423 Intermediate Mechanics of Deformable Solids 3 credits (Fall Only)
- ME 426 Introduction to Composite Materials 3 credits (Spring Only)
- ME 456* Mechatronic System Design 3 credits (Spring Only)
- ME 475* Computer Aided Design of Structures 3 credits (Fall Only)

Plus one course from the following list:

- ME 422 Introduction to Combustion 3 credits (Fall Only)
- ME 433 Computational Fluid Dynamics 3 credits (Spring Only)
- ME 442* Turbomachinery 3 credits (Spring Only)

CREDIT DISTRIBUTION: The 12 credits in the concentration will be applied to the Senior Elective requirement (including the “design intensive” course component). Completion of the concentration will be noted on the final transcript.

The asterisk (*) signifies that the course is design intensive.