

Progression Requirement for Mechanical/Aerospace Majors

Issue: Many incoming transfer students from two year institutions fail to meet MAE's progression requirement because they have not completed MAE 204 (Thermodynamics). Except for this course, they have met all other progression requirement criteria as stated below:

To remain in Mechanical/Aerospace Engineering and to be permitted to take upper-level (300/400 level) Mechanical/Aerospace Engineering Courses, students must satisfy the following requirements:

- Successful completion of the following five courses with at least a 2.2 GPA: MTH 141(Calculus I), MTH 142 (Calculus II), PHY 107 (Physics I), MAE 204 (Thermodynamics), EAS 207 (Statics). If a course is repeated, the grade that is counted is the grade earned the second time, even if this grade is lower than the grade earned the first time.
- Minimum overall and UB GPA of 2.0 to be considered in academic good standing with the University.

Given that many incoming transfer students from two-year transfer institutions have all of the lower level course requirements, except for Thermodynamics, including the GPA requirements necessary for admission and progression, the MAE department will permit such students to enroll in advisor-recommended fall upper level courses with MAE 204 as a corequisite*.

It is imperative for such students to note that the maximum credit hours students are advised to take in the fall semester of their junior year is 15, and that by adding MAE 204, they will need to delay one of the standard upper level fall semester courses. Given the requisite structure of the curriculum, and fall-only/spring-only course offerings, it is essential to plan this out very carefully. In general, mechanical engineers are advised to take MAE 377 in the summer in between their junior and senior years and aerospace engineers are advised to take MAE 381 that summer.

* Only new transfer students who satisfy all of the progression criteria upon entry into UB except for an attempt in MAE 204 qualify. Students who have attempted, but not successfully completed MAE 204 do not qualify. All course requisites still apply.

When a new transfer student meets this criteria and has been advised by a senior academic advisor in 410 Bonner Hall with the use of this statement, office personnel will add a milestone to the student record thereby waiving the progression criteria on upper-level MAE course registration.

