

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.

Name: _____

MECHANICAL ENGINEERING

Person Number: _____ Expected Graduation: _____

Expected Graduation:

UNIVERSITY AT BUFFALO

Finish in 4 Plan:

Program date Fall 2010 or later

Previous Colleges Attended:



Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring
4 MTH 141 Calculus 1	4 MTH 142 Calculus 2	4 MTH 241 Calculus 3	4 MTH 306 Diff Eq	3 MAE 335 Fluid Mech	3 MAE 311 Machines 1	3 MAE 451 Des Proc & Meth	3 MAE 494 Design Proj
4 CHE 107 Chem 1	4 PHY 107 Physics 1	4/1 PHY 108/158 Physics 2	3 EAS 208 Dynamics	3 MAE 381 Materials I	3 MAE 364 Man Process	3 MAE TE	3 Appl Mth Elec ***
3 EAS 140 Eng Princ	2 MAE 177 Eng Draw	3 EAS 207 Statics	3 EAS 209 Mech. of Sol	3 MAE 340 ^ Dynamic Sys	3 MAE 336 Heat Transfer	3 MAE TE	3 MAE TE
*EAS 202 is required for students entering UB Engineering as freshman beginning with the fall 2011	3 EAS 230 Eng Computation	3 MAE 204 Thermo	3 EE 200 or EE 202	3 MAE 376 App Mth for MAE	2 MAE 334 ^ MAE Lab I	2 MAE 338 ^^ MAE Lab II	***EAS 305, CIE 308, MAE 425, MAE 428, MTH 309, MTH 411, MTH 417, or MTH 418
1 EAS 202*	3 MAE 277			3 MAE 377	1 MAE 385	3 Prof/Sc 2	

*EAS 202 is required for students entering UB Engineering as freshman beginning with the fall 2011 catalog year

***EAS 305,
CIE 308,
MAE 425,
MAE 428,
MTH 309,
MTH 411,
MTH 417, or
MTH 418

2 Gen Eds	1 Gen Ed	1 Gen Ed	1 Gen Ed	1 Gen Ed	2 Gen Eds
17 credits	17 credits	18 credits	16 credits	15 credits	15 credits

Gen Ed ¹	Writing Skills			Humanities			Request Sr Yr Review by Oct 1	Submit App for Degree by Feb 15
	3		3		3			
A ²	ENG 101		ENG 201					
B ²	ENG 102							
C ²	ESL 407		ESL 408					

3		3		3		3		3	
UGC 111 ³ World Civ. I	UGC 112 ³ World Civ. II	Am. Plural. ³		Arts ³		Soc/Behav Sc.			

Appointments:

Appellations								
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Academic Good Standing in Engineering:

2.2 Progression Criteria in MAE

Academic Good Standing in Engineering:

Yes	No	Yes	No	Yes	No	Yes	No	Yes	No
Still Qualified for Finish in Four:									
Yes	No	Yes	No	Yes	No	Yes	No	Yes	No