UNIVERSITY of HOUSTON

CULLEN COLLEGE OF ENGINEERING
OFFICE OF THE DEAN

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November 14, 2008

To: Undergraduate Council

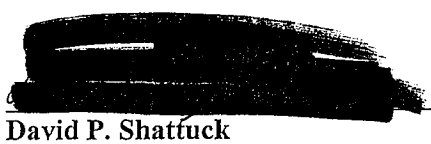
From: David P. Shattuck
Associate Dean for Undergraduate Programs

RE: Mechanical Engineering Degree Plan, Fall 2009

The Mechanical Engineering Department requests a reduction in the number of degree program hours from 127 hours to 124 hours by reducing the senior electives from five to four.

Recommended catalog wording:
Students with senior standing in Mechanical Engineering would be required to take four MECE electives which would be selected from the following; three MECE 5000-level courses and one non-MECE 3000+ - level course from other departments in engineering or math or science. Exceptions are allowed to satisfy requirements for a minor and for a Senior Honors thesis. In each exception, one MECE 5000-level course and the non-MECE course would be used to satisfy the requirements.

Exceptions:
Students in the Fast Track Program can substitute 6000-level MECE courses for the 5000-level MECE courses. Students doing an Honors thesis would have to take an extra three hours to satisfy the requirements for a Math Minor. One MECE 4398 course (Individual Study) can be used in place of a 5000-level MECE course.



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DEGREE PLAN

Engineering majors must earn a grade of C- or better in all engineering, mathematics and science courses. No grade lower than C- will be accepted on any course transferred to the University of Houston.

Students must earn a 2.25 grade point average in all courses and in MECE major courses (MECE 1331, 2334, 2336, 2361 and 3336) in order to enroll in 3000-level and above MECE courses. For all MECE courses, a student must pass a course within two attempts. Any enrollment in which the student receives a grade of W or I also counts as an attempt. A major grade point average of 2.000 is required for graduation. The major grade point average is calculated using all attempts at MECE courses (except MECE 3400).

A drafting requirement (for no credit toward graduation) may be satisfied by completing MECT 3341 or MECT 1330. (This requirement may be met using other courses, high school drafting completed in the tenth, eleventh, or twelfth grade, or industrial experience by filing a petition with the department).

FIRST YEAR [4]

Fall Semester			Hours
CHEM 1117	Fundamentals of Chemistry Laboratory		1
CHEM 1372	Fundamentals of Chemistry		3
ENGL 1303 or ENGL 1309	English Composition I English Composition for Nonnative Speakers I		3
MATH 1431	Calculus I [2]		4
POLS 1336	US and Texas Const/Politics [1]		3
		Total	14

Spring Semester			Hours
MECE 1331	Computing for Engineers		3
ENGL 1304 or ENGL 1310	English Composition II English Composition for Nonnative Speakers II		3
MECE 1100	Introduction to Mechanical Engineering		1
MATH 1432	Calculus II		4
PHYS 1321	University Physics I		3
		Total	14

SECOND YEAR

Fall Semester			Hours
MECE 2336	Mechanics I		3
MECE 2361	Mechanical Design I		3
MATH 2433	Calculus III		4
PHYS 1322	University Physics II		3
	Humanities Core Course		3
		Total	16

Spring Semester			Hours
ENGI 2304	Technical Communications		3
MATH 3321	Engineering Mathematics		3
MECE 2334	Thermodynamics I		3
MECE 3336	Mechanics II		3
POLS 1337	US Govt: Congress, Pres & Crts		3
		Total	15

THIRD YEAR

Fall Semester		Hours
ECE 3336	Introductions to Circuits and Electronics	3
MATH 3363	Introduction to Partial Differential Equations	3
MECE 3334	Thermodynamics II	3
MECE 3369	Solid Mechanics	3
MECE 3345	Materials Science	3
HIST 1377	The United States to 1877	3
	Total	**18**

Spring Semester		Hours
MECE 3371	Computational Methods in Mechanical Engineering	3
MECE 3360	Experimental Methods	3
MECE 3363	Introduction to Fluid Mechanics	3
MECE 3245	Materials Science Laboratory	2
MECE 3338	Mechanical Design II	3
HIST 1378 or 1379	The United States Since 1877[1]	3
	Total	**17**

FOURTH YEAR

Fall Semester		Hours
MECE 4364	Heat Transfer	3
MECE 4372	Mechanics-Controls/Vibration Laboratory	3
MECE 53xx	Mechanical Engineering Elective[17]	3
MECE 53xx	Mechanical Engineering Elective[17]	3
	Social Sciences Core Courses	3
	Total	**15**

Spring Semester		Hours
MECE 4334	Capstone Design	3
MECE 4371	Thermal/Fluids Laboratory	3
MECE 53xx	Mechanical Engineering Elective[17]	3
XXXX xxxx	Engineering, Mathematics or Science Elective[17]	3
~~MECE 53xx~~	~~Mechanical Engineering Elective[17]~~	~~3~~
	Visual/Performing Arts Core course	3
	Total	**15**
	Degree Total	**124**