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Page 1 of 4

CULLEN COLLEGE OF ENGINEERING
OFFICE OF THE DEAN

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October 20, 2008

To: Undergraduate Council

From: David P. Shattuck
Associate Dean for Undergraduate Programs

EFFECTIVE FALL 2009

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 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.


Matthew A. Franchek
Professor and Chair of Mechanical Engineering
Director of the Biomedical Engineering Program
Cullen College of Engineering
University of Houston


David P. Shattuck
Associate Dean, Undergraduate Programs
Associate Professor, Electrical & Computer Engineering
Cullen College of Engineering
University of Houston



N207 Engineering Building 1
Houston, Texas 77204-4006
713-743-4500

September 25, 2008

Lesley Sisk
Cullen College of Engineering
University of Houston
Houston, Texas 77204-4006

Dear Lesley,

As per Dr. Dalton's email on September 19, I support reducing the number of degree program hours from 127 hours to 124 hours by reducing our senior electives from five to four.

The recommended catalog wording should be:

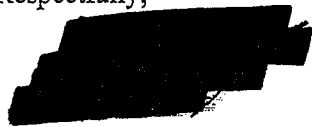
Students with senior standing in ME would be required to take three MECE 5000-level courses and one non-MECE 3000+-level course from other departments in engineering or math or science. Exceptions are allowed to satisfy requirements for a minor and for a Senior Honors thesis. In each exception, one MECE 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.

If you have any other questions, please work with Dr. Dalton directly.

Respectfully,



Matthew A. Franchek
Professor and Chair of Mechanical Engineering
Director of the Biomedical Engineering Program
The Cullen College
University of Houston

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 courses other than the five MECE courses just cited, a student must pass a course within two attempts. Any enrollment in which the student receives a grade of W, I, or Q 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 MECE courses (except MECE 3400).

A drafting requirement (for no credit toward graduation) may be satisfied by completing CNST 1330 or MECT 3341. (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 Year¹

Fall Semester		Hours
<u>CHEM 1117</u>	Fundamentals of Chemistry Laboratory	1
<u>CHEM 1372</u>	Fundamentals of Chemistry	3
<u>ENGL 1303</u> or	Freshman Composition I	3
<u>ENGL 1309</u>	English Composition for Nonnative Speakers I	3
<u>MATH 1431</u>	Calculus I ²	4
<u>POLS 1336</u>	U.S. and Texas Constitution and Politics ¹	3
Total		14

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

SECOND YEAR

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

Spring Semester		Hours
<u>ENGI 2304</u>	Technical Communications	3
<u>MATH 3321</u>	Engineering Mathematics	3
<u>MECE 2334</u>	Thermodynamics I	3
<u>MECE 3336</u>	Mechanics II	3
<u>POLS 1337</u>	U.S. Government	3

Total 15

THIRD YEAR

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

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

FOURTH YEAR

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

Spring Semester		Hours
<u>MECE 4334</u>	Capstone Design	3
<u>MECE 4371</u>	Thermal/Fluids Laboratory	3
<u>MECE 53xx</u>	Mechanical Engineering Elective ¹⁷	3
<u>MECE 53xx</u>	Mechanical Engineering Elective ¹⁷	3
<u>MECE 53xx</u>	Mechanical Engineering Elective ¹⁷	3
	Visual/Performing Arts Core course	3
Total		15

Degree Total 124