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**SUBJECT:** 2011-12 Undergraduate Committee Work

Since the Fall of 2011, the Ocean & Mechanical Engineering Undergraduate Committee has made a number of adjustments and improvement to the Ocean Engineering and Mechanical Engineering Programs. They are: creation of four common courses between OE and ME programs, OE and ME syllabus updates, Innovation, Leadership and Honors Program (ILHP), Laboratory Equipment purchase, and creation of a Research Laboratory.

The four common courses are: EGN 3321 (Dynamics), EGN 3331 (Strength of Materials), EGN 3343 (Engineering Thermodynamics), and EGN 3365 (Engineering Materials). These courses were combined in order to provide OE and ME students more options and flexibility in completing these courses and avoiding delay for graduation. We are currently examining an additional course for combination, and they are EOC4620 (Dynamic Systems) and EML4538 (System Dynamics). We will carefully evaluate the necessary pre-requisites needed for both courses, and whether they can be made the same.

In addition to the four common courses created, we have also revised the syllabi that are related to these common courses to reflect the changes in the course title and numbers, and the changes that comply to the new university standard. All the paperwork has been processed, and the new syllabi are now in place.

In 2011, the OME Department merged the OE machine shop with the ME machine shop, leaving the old OE machine shop available for other use. In the Fall of 2011, the department decided to create a new Undergraduate Research Laboratory in old OE machine shop location. We are currently placing orders renovating that space and purchasing equipment and systems so that research projects can be carried out by both OE and ME undergraduate students either as part of OE or ME course requirements or special Directed Independent Studies (DIS) courses. This newly established laboratory will enable students to gain valuable professional and technical skills via projects.

In the Spring of 2012, the OME UG Committee has revised the ILHP program that better meets the students' needs. The previous requirements for the ILHP consist of a total of 18 credit hours in addition to the student's individual departmental credit requirements. With the new requirements, each ILHP student in the OME Department is required to complete a total of six College credit hours, and three credit hours as part of the Honors DIS course. In particular, students taking the DIS course will be involved in a semester long projects working in the new Research Laboratory.

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