Changes in Curriculum

Department of Maritime Systems Engineering
B.S. Maritime Systems Engineering
29 January 2004

MEMORANDUM

TO: TAMUG Academic Advisory Committee
FROM: Victoria Jones, Lecturer
       Maritime Systems Engineering
THROUGH: Dr. Vijay Panchang, Department Head
         Maritime Systems Engineering
SUBJECT: Proposed Curriculum Changes for 2004-05 TAMUG Catalog

The following changes are proposed to the Maritime Systems Engineering curriculum starting with TAMUG catalog #127 (2004-05):

1. Course Changes

   - Delete MASE 213 – Principles of Materials Engineering (3 hrs) from Sophomore Spring
   - Add MASE 210 – Properties of Engineering Materials (new course – 1 hr) to Sophomore Spring
   - Delete MEEN 363 – Dynamics and Vibrations (3 hrs) from Sophomore Spring
   - Replace Directed Electives (3 hrs) with MEEN 363 – Dynamics and Vibrations (3 hrs) in Summer Session between Soph and Jr yrs
   - Add MASE 214 – Mechanics of Deformable Bodies (3 hrs) to Sophomore Spring
   - Delete OCEN 462 – Hydromechanics (3 hrs) from Junior Spring
   - Increase Technical Electives requirement to 6 hrs in Junior Spring
   - Add MASE 482 – Seminar (1 hr) to Senior Spring
   These changes result in a reduction in Total Hours from 134 to 133.

2. Changes to curriculum notes are as follows:

   - Delete Directed Electives note §§§

   - Note 2: A grade of C or better will be required for the Common Body of Knowledge (CKB) Courses (MATH 151, and 152; PHYS 208 and 218; CHEM 107, ENGL 104;

   *Please see combined changes to Sophomore year on next page*
ENGR 111 and 112. Failure to meet this requirement will prevent the student from continuing any sequence in which the course is a prerequisite.

- Note 3: MASE students are required to earn a grade of C or better in ENGR 211/221, CVEN 311, CVEN 345, OCEN 300 and MATH 308. Failure to meet this requirement will prevent the student from continuing any sequence in which the course is a prerequisite.

- Note 4: MASE students must complete all mathematics courses (MATH 151, 152, 251 and 308) before taking MASE 310 and MASE 405. and OCEN 462.

3. Course description change:

MASE 336. Flow Measurement Fundamentals (2-2). Credit 3. Introduction to the fundamental principles of measuring fluctuating fluid velocities in open channels, simple pipe flow systems, and surface waves. Laboratory includes experimental investigation of classic fluid dynamics and introduction to PIV systems.

Combined changes to Sophomore Spring and Summer Sessions

**Current Curriculum**

**Sophomore Year – Spring Semester**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CVEN 365</td>
<td>Intro. to Geotechnical Engineering</td>
<td>(2-2)</td>
</tr>
<tr>
<td>MASE 213</td>
<td>Principles of Materials Engineering</td>
<td>(2-2)</td>
</tr>
<tr>
<td>MEEN 363</td>
<td>Dynamics and Vibrations</td>
<td>(2-2)</td>
</tr>
<tr>
<td>MASE 215</td>
<td>Principles of Electrical Engineering</td>
<td>(2-2)</td>
</tr>
<tr>
<td>MATH 308</td>
<td>Differential Equations</td>
<td>(3-0)</td>
</tr>
</tbody>
</table>

Total 15

**SUMMER SESSION AT THE MITCHELL CAMPUS**

**Directed Electives §§§** 3

**Proposed Curriculum**

**Sophomore Year – Spring Semester**

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<td>(2-2)</td>
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<tr>
<td>MASE 210</td>
<td>Properties of Engineering Materials</td>
<td>(0-3)</td>
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<td>Mechanics of Deformable Bodies</td>
<td>(3-0)</td>
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Total 13

**SUMMER SESSION AT THE MITCHELL CAMPUS**

MEEN 363 Dynamics and Vibrations (2-2) 3