Revised System Engineering Courses

ENGR 2103 Engineering Mechanics-Statics and Dynamics Laboratory. One semester hours. Laboratory course to accompany ENGR 2303. Laboratory exercises reinforce ENGR 2303 lecture material and place importance on scientific communication and collaboration. Corequisite: ENGR 2303. Lab fee: $35.00.

Justification for Adding Lab Fee

A laboratory fee of $35 needs to be added for this course. This course/lab requires several Mechanical experiments such as Forces on a line of action, fixed pulley, idle pulley, Composition of forces, Resolution of Forces, Addition of forces, Force couple, bearing reactions, Hooke’s Law, Sliding and rolling friction, Forces acting on an inclined plane, Forces acting on pulleys and block-and-tackle units, Four-cord block and tackle, Six-cord block and tackle, Differential pulley block, Free fall, Moment of inertia, Pendulum, etc. These experiments required small parts like cables, rods, pulleys, torque discs, pivot bearings, Nylon cord, roller chain, Helical springs, etc. which require to be replaced and restore after several usage. Therefore, a laboratory fee of $35 needs to be added with course ENGR 2103 to replace and restore these mechanical parts.

Program: Add: _____ Change: _____ Attach new/changed Program of Study description and 4-year plan. If in current catalog, provide change and attach page with changes in red.

Minor: Add: _____ Delete: _____ Change: _____ Attach new/changed minor. If in current catalog, provide change and attach page with changes in red.

Faculty: Add: _____ Delete: _____ Change: _____ Attach new/changed faculty entry. If in current catalog, provide change and attach page with changes in red.

College Introductory Pages: Add information: _____ Change information: _____ Attach new/changed information. If in current catalog, provide change and attach page with
changes in red.

**Other**: Add information: _____ Change information: _____

Attach new/changed information. If in current catalog, provide change and attach page with changes in red.

<table>
<thead>
<tr>
<th>Approvals:</th>
<th>Signature</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chair</td>
<td>Qingwen Ni</td>
<td>![Signature Image]</td>
</tr>
</tbody>
</table>
| Department Curriculum Committee |            | Digitally signed by Qingwen Ni  
DN: CN = Qingwen Ni, O = TAMU, OU = TAMU  
Date: 2011.03.22 11:09:13 -06'00' |
| Chair      | Rafic Bachnak | ![Signature Image]                   |
| Department |     | Digitally signed by Rafic Bachnak  
DN: cn=Rafic Bachnak, o=TAMU, ou=Dept. of Mathematical and Physical Sciences, email=rbachnak@tamu.edu, c=US  
Date: 2011.03.22 11:53:44 -06'00' |
| Chair      | James A Norris | ![Signature Image]                   |
| College Curriculum Committee |           | Digitally signed by James A Norris  
DN: cn=James A Norris, o=Texas A&M International University, 
ou=Dept of Social Sciences, email=jnorris@tamu.edu, c=US  
Date: 2011.03.24 13:47:26 -06'00' |
| Dean       | Kevin Lindberg | ![Signature Image]                   |
|            |            | Digitally signed by Kevin Lindberg  
DN: cn=Kevin Lindberg, o=College of Arts and Sciences, ou=Texas A&M International University, email:klindberg@tamu.edu, c=US  
Date: 2011.03.24 14:03:05 -06'00' |