### MC306 DYNAMICS

<table>
<thead>
<tr>
<th>Credit Hours</th>
<th>3.0 Credit Hours (BS=0.0, ET=3.0, MA=0.0)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scope:</td>
<td>2012-1</td>
</tr>
</tbody>
</table>

Dynamics examines the motion of particles, systems of particles, and rigid bodies under the influence of forces. It focuses on the use of Newton’s Second Law, in three major, progressive blocks of instruction from scalar, then vector, treatments of rectilinear and curvilinear motion of single particles; through vector motion of systems of particles; to general three-dimensional motion of rigid bodies. The course also provides brief introductions to energy methods: work-energy and impulse-momentum.

**Lessons:** 40 @ 55 min (3.000 Att/wk)  
**Labs:** 0 @ 0 min

**Special Requirements:** Homework problems are assigned.

**Prerequisite(s):**  
- PH201  
- Or-  
- PH251  
- Or-  
- PH205  
- Or-  
- PH255

**Corequisite(s):**  
- CE300  
- Or-  
- MC300

**Disqualifier(s):** ME306