SoE Consent Agenda, October 7, 2015

School of Engineering Curriculum Committee (SoECC)

The SoECC is pleased to unanimously recommend the following curricular change:

1. **ME 130 Mechanics of Materials at the Micro & Nano Scale**
   
   Request for Action (RFA): New course
   
   Proposed Bulletin description:
   
   Mechanics of materials, in particular, soft materials when studied at the micro and nanoscale. Classical approaches to mechanics of materials, both static and dynamic properties. Extension of classical knowledge to the micro and nanoscale, with methods to measure the material mechanics at those scales. Practical examples of biological tissues, cells, and polymers in different environments. Recommendations: ME 37, ME 42, or Senior standing.
   
   Rationale: This has previously been taught as a special topics course (ME 149). It will now be given a designated course number and description in the Bulletin.

2. **ME 230 Mechanics of Materials at the Micro & Nano Scale**
   
   Request for Action (RFA): New course
   
   Proposed Bulletin description:
   
   Mechanics of materials, in particular, soft materials when studied at the micro and nanoscale. Classical approaches to mechanics of materials, both static and dynamic properties. Extension of classical knowledge to the micro and nanoscale, with methods to measure the material mechanics at those scales. Practical examples of biological tissues, cells, and polymers in different environments. Assignments identical to ME 130 with additional project paper.
   
   Rationale: This course would be scheduled concurrently with ME 130, but would provide a more intensive experience for advanced graduate students.