1. Approval of minutes for the meeting of January 12, 2016

2. Updates from Undergraduate Studies Committee (Zoubeida Ounaies)

3. Updates from Graduate Studies Committees (Esther Gomez)

4. Updates from Engineering Technology Committee (Ron Land)

5. Updates from Faculty Senate (Doug Wolfe)

6. Dean’s Report (Amr Elnashai)

7. Other Business

   7.1. Revisions to Graduate School Policies (Peter Butler)
Meeting Minutes

1. Approval of minutes for the meeting of November 10, 2015
   Unanimously approved.

2. Updates from Graduate Studies Committees (Esther Gomez)
   No items to report.

3. Updates from Undergraduate Studies Committee (Chris Giebink)
   Add a new Course ESC 412 (Nanotechnology: Materials, Infrastructure, and Safety).
   Unanimously approved.

4. Updates from Engineering Technology Committee (Ron Land)
   No changes.

5. Updates from Faculty Senate (Doug Wolfe)
   Nothing to report.

6. Dean’s Report (Anthony Atchley)
   - Needs timeline for studying the problem of current entrance to major (ETM) and report on
     changes to ETM. Methods for controlling enrollment are imprecise because we make changes
     to ETM GPAs 2 years before they take effect. Need to propose two or three changes in ETM and
     assess the pros and cons.
   - Launch internal/external search for the position of Associate Dean for Research. Currently need
     faculty help with specific projects such as seed grant proposals. Dean Atchley will take care of
     the administrative work for Teresa’s position for now. The search will be announced soon. Seek
     suggestions on the Interim.
   - Launch the search for frontier faculty lines. Will try to fill 2 positions.
   - A committee on the online program at COE was assembled. A white paper has been presented
     to Dean Elnashai, including revenue sharing with the world campus. The report will be
     presented to the college in about a month. It affects groups that start online programs now.
     The ultimate goal is to have a professional office of digital learning that all departments can go
     to for online programs.
   - The new ChemE/BME building (129,000 square feet) is making progress. The expected opening
     date is late fall of 2018. Faculty will have to move out of Fenske by September. There will be a
     large fund-raising component.
   - There will be an emphasis on assessment of graduate programs. Strong statement about the
     importance of accreditation. There are reports at ACG for grad education. They’ve come out
     with template of what they need for grad program assessment. For doctoral programs, there
     are clear assessment methods for candidacy exams, comprehensive exams and defenses.
     Master program will need more clear-cut assessment method. An implementation plan is
     requested.

7. Other Business
   None.
A total of 3 items were reviewed:
- 0 Course Proposals
- 1 Program Proposal
  o ESMCH_MS_OYM_NEW_REVISED – Unanimously Approved
- 2 Graduate Faculty Nominations
  o Mohamed Almekkawy – Unanimously Approved
  o Daniel Finke – Unanimously Approved
# EFC Proposal Report

**Recommendation of Proposal Actions**

from the GS&R Committee

Prepared for February 16, 2016 EFC Meeting

*Approve U = Unanimously Approved

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## Proposals Submitted to EFC

<table>
<thead>
<tr>
<th>Proposal Type (course/program) or Grad Faculty Nom</th>
<th>Program Name</th>
<th>One Year Masters (OYM)</th>
<th>Number or Degree</th>
<th>Action Requested (Add/Change/ New)</th>
<th>Vote</th>
<th>GS&amp;R**</th>
<th>Justification (Why/What for)</th>
<th>Summary of Discussion Points</th>
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<tbody>
<tr>
<td>Degree Proposal to Add a One-Year Residence-Based Non-Thesis Master of Science Degree: Engineering Science and Mechanics (M.S. ESMCH)</td>
<td>ESMCH</td>
<td>OYM</td>
<td>MS</td>
<td>Add</td>
<td>Approved-U</td>
<td></td>
<td>The Department of Engineering Science and Mechanics (ESM) in the College of Engineering is proposing a one-year, residence-based, non-thesis, Master of Science track in Engineering Science and Mechanics (M.S. ESMCH). This intensive interdisciplinary and multidisciplinary one-year, 32-credit program requires completion of a residential research experience and a scholarly paper. The current Master of Science Degree (M.S.) in Engineering Science and Mechanics requires a total of 32 credits, including 2 credits of seminar and 6 credits of thesis research, culminating in a written thesis with oral defense. This track typically requires at least four semesters to complete. The proposed track is aimed at preparing tomorrow’s engineers in a very broad sense and is structured so that resident, full-time, students can complete the degree in 12 months. The proposed M.S. track requires a minimum of 32 course credits, including two seminar credits and 3 credits of a residential research experience and a scholarly paper. This interdisciplinary program is ideal for individuals with a bachelor's degree in physics, engineering, mathematics, or related fields who wish to gain a deeper knowledge of engineering science and mechanics fundamentals and applications and to explore research opportunities. The focus of the 1-year degree is on full-time resident students. It is expected to appeal to engineers and scientists interested in a variety of fields such as, but not limited to aeronautical engineering, agricultural and biological, architectural, biomedical, civil, mechanical, nuclear, and petrochemical engineering, engineering mechanics, engineering science, materials science, physics, chemistry, biology and medicine. Due to its inherent breadth and depth, students will be able to choose from a very wide range of courses in four concept areas: Mathematics, Mechanics, Materials, and Engineering Science. Since the fusion of these concept areas represents the essence of Engineering Science and Mechanics, students are required to take a minimum of one course in each area. Given the interdisciplinary nature of the proposed program and its broad application to many fields, we anticipate that this one-year degree will significantly increase our competitiveness in attracting high performing, domestic and international M.S. students.</td>
<td>The proposal looks good. Specific criticisms from two department chairs and the EFC have been addressed. The number of credits for the thesis and non-thesis options are now equal.</td>
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R:\CURRICULUM\GS&R - Graduate Studies and Research Committee\Proposals\Summaries and Reports GS&R Chair\2015-16 Summary and Reports_Proposals
<table>
<thead>
<tr>
<th>Type and Description of Change</th>
<th>Description or Rationale for Curricular Actions</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGR 408 – Leadership Principles</td>
<td>currently, ENGR 408 (two credits) and 493 (one credit) are separate courses. ENGR 408 builds knowledge on the theories, principles, skills, and relevant literature germane to leadership within the engineering context. ENGR 493 provides the practical application of these items through a semester-long, team based project. The two courses are designed to be completed at the same time and are required to be accepted into the minor. However, some students enrolling in 408 fail to sign up for 493 making course communication and coordination difficult. In addition, some students who may be performing poorly in 493 choose to drop but remain in 408 making completion of the totality of the learning objectives in both courses difficult to meet. Combining the courses into one three-credit course will allow the learning objectives for both 408 and 493 to be achieved. The SEDTAPP curriculum review committee reviewed this information and provided changes that were implemented into this submission.</td>
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<tr>
<td>A E Retention and Transfer Proposal</td>
<td>For a typical qualified student, the entrance to pre-major process will take place at the beginning of spring semester of the first year. The student will have completed the number of credits in the credit-window whether the student began in the fall or summer semester. The students will have the ETM courses in-progress during the spring semester. At the end of the spring semester, Lion-path will verify that the conditions are satisfied. Lion-path may issue a message to the student and the department. If a student fails to satisfy the requirements, the student returns to ENGR status. (if a student qualifies for entrance to pre-major based on AP and first semester courses, the GPA will not be checked until the end of the declaring semester.) With this process, both the student and department are put on notice one semester earlier than the student intends to enter the pre-major. The department may advise the student accordingly. The student may register for fall courses in the major. More importantly, a commonwealth campus student may register for University Park courses and take appropriate steps to secure housing at University Park. Establishing a similar process for both the entrance to pre-major and entrance to major process avoids confusion, streamlines the process and identifies the student’s intention earlier.</td>
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