1) **Departmental Course Information (DCI) spreadsheets**: DCI spreadsheets will be sent to Department Chairs and Department Admins following today’s SoE Faculty Meeting. Spreadsheets should be reviewed by the Departments, updated, and submitted to Kat Mor by February 17. Instructions for reviewing spreadsheets are included as a separate document. The DCI spreadsheets will help SoE answer the question: *If we were to make no changes to today’s degree programs, will the degree programs meet the minimum requirement of 120 credit hours?*

2) **Math 36**: The Curriculum Committee has been looking into the Math 36 requirement for our undergraduate degrees. The Math Department is planning to change Math 36 – worth 1.0 course credits – into a course that meets 50 minutes, 3 times per week. Currently, the course meets a nonstandard 75 minutes, 3 times per week.

   History: An executive decision (no SoE Faculty meeting discussion or vote) was made in 2012 to substitute Math 50 (combined Calculus 1 and Calculus 2) for Math 12 (standard calculus 2) on all SoE Degree Sheets. This substitution was not widely understood because the Math course numbers were changed in the same year. (Math 50 became Math 36; Math 12 became Math 34.) The intent was to move toward a compressed math sequence, with engineers eventually dropping Calculus I (Math 32) and going directly into Math 36. This experiment was never completed. In the meantime, Math 36 has evolved, and the current syllabus has largely dropped review of Calculus I material. The content of Math 36 now largely mirrors that of Math 34, supplemented by some additional application material.

   Note that Kim Knox has allowed an exception to the Math 36 requirement since the numbering change, allowing internal transfer students (LA -> EN) to substitute Math 34 for Math 36, since most students in liberal arts take Math 34 as their second calculus course.

   Summary: The Math 36 requirement is problematic in that it was instated without a faculty vote and in that its original intent of condensing the math sequence has not been realized. Furthermore, the course causes significant scheduling challenges for the Math department.

   Curriculum Committee Recommendation: The Curriculum Committee recommends that the SoE Faculty vote on the following resolution.

   *Undergraduate engineers will be allowed to take either Math 34 or Math 36 to fulfill their second-level introductory math requirement. Class of 2020 degree sheets will be updated to replace “Math 36” with “Math 34 or Math 36.” Starting with the 2017 degree sheet year (current juniors), a substitution of Math 34 for Math 36 will be allowed by pro forma petition.*

   The intent is to introduce this resolution today (12/16/2015) and vote on the resolution at the beginning of next term. In the meantime, engineering and math representatives on the SoE Curriculum Committee will continue to discuss how application topics might be enhanced in all introductory Math Courses (Math 32, Math 34, Math 42, Math 51).
3) **Prematriculation Credits:** In the past, SoE (and Tufts) process has been to allow departments to determine AP credit for courses in their disciplines. (For example, the Economics department determines AP credit for the Economics AP.) This practice is closely related to our policy on transfer of credit, where proposed transfer courses are evaluated by a representative from the discipline most closely aligned with the transfer course. In recent years, the Bulletin Prematriculation tables for Engineering have not been updated to track changes made by departments. A better mechanism is needed to make sure that the tables are continuously updated.

One notable exception to the standard practice is the Math AP. The SoE Faculty Meeting on March 4, 2009 included an extensive discussion on this exam (see excerpt below). SoE voted to set their own policy regarding the Math AP exam, distinct from the policy set by the Math Department.

Next Steps:
1) To ensure that the Bulletin remains compliant with existing SoE practice, next year’s Bulletin (2016-2017 academic year) will be updated so that prematriculation exam credits for all disciplines, except Math, are determined by the department most closely aligned with the exam. This will be implemented by consolidating the LA and EN prematriculation tables for all topics except Math. This consolidation will have no impact on AP credit offered for core technical disciplines (Bio, Chem, Physics, Statistics, Computer Science).

2) The Outcomes and Assessment Committee (OAC) will review data related to the March 4, 2009 decision regarding the Math AP, to obtain a quantitative analysis of the impact of this decision.

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The SOECC put forth the following proposal for the School of Engineering:

- To have a cap of eight (8) AP credits: this is based on the count of our top students, and would allow maximum flexibility while limiting credits to a total of one semester (students would still be required to complete at least seven semesters at Tufts)
- **To recommend to the Math department that they consider changing score requirements for course credits for Engineers: a minimum score of 4 (on Calculus BC exam) and a required score of 5 (on Calculus AB exam) to be given credit for Math 11, and a required score of 5 (on Calculus BC exam) to be given credit for Math 11 and 12.**

A lively discussion ensued. Concerns that were voiced included possible negative perceptions by prospective students and their families or unfavorable comparisons to peer institutions, and the pros and cons of requiring higher scores instead of capping the number of credits. Arguments for allowing more pre-matriculation credits included allowing our Engineering students, who take 38 required courses compared to the 34 courses in Liberal Arts, to take more electives. The two counterproposals were voted on separately: the motion to make **recommendations to the Math department passed unanimously**, while the vote on capping the number of AP credits was split. The motion passed with 16 “yes” votes, 3 “no” votes, and 4 abstentions. (Side note: in response to Proposal #1 of the EPC’s resolution regarding greater clarity in the Bulletin, Ryder reported that next year’s publication will have separate sections for A&S and Engineering to better detail the different requirements for each.) This SOE Pre-Matriculation Credit Policy will be brought to the AS&E faculty for a vote at their April meeting.