TO: The Faculty of the College of Engineering
FROM: The First-Year Engineering Curriculum Committee
RE: Change to the Requirements for Completion of First-Year Engineering

The First-Year Engineering Curriculum Committee (FYECC) has approved the following change to the requirements for completion of FYE. This action is now submitted to the Engineering Faculty with a recommendation for approval.

This action adds ENGR 16100 and ENGR 16200 (the new First-Year Honors Engineering courses) to the list of courses that will meet requirements 1, 2, and 6 in **Section I. Courses** of the currently published requirements for completion of FYE. The complete new requirements, with changes highlighted are given below. This represents a revision of the most recent EFD addressing FYE requirements, EFD 70-16. The change will be effective beginning with students with a Fall 2017 catalog term (registrar term 201810). There are no changes to sections II, III, or IV, nor to items 3-5 or 8 of section 1. For clarity purposes, requirement 7g has been removed (this allowed students to meet the Science Selective requirement using ENGR 14100 and ENGR 14200, by EFD 70-16; this option has expired for Fall 2017 catalog term students). Students with earlier catalog terms will use FYE requirements spelled out the appropriate previously approved EFD.

Proposed requirements: (for Fall 2017 entry to Purdue and beyond)

I. Courses: To complete FYE and be eligible for consideration for entry into an Engineering degree program, a student must complete the following courses:

1. ENGR 13100, ENGR 14100, ENGR 16100, or [EPCS 11100 **and** EPCS 12100]
2. ENGR 13200, ENGR 14200, ENGR 16200, or ENGR 13300
3. MA 16100 or MA 16500
4. MA 16200, MA 16600, or MA 17300
5. CHM 11500 or [CHM 11100 **and** CHM 11200]
6. PHYS 17200, or [ENGR 16100 **and** ENGR 16200]
7. A science selective course, chosen from:
    a. CHM 11600
    b. CS 15900
    c. BIOL 11000
    d. BIOL 11100
    e. BIOL 13100
    f. BIOL 12100 **and** BIOL 13500
8. Two of the following four courses:
    a. A course that meets the Written Communication foundational outcome (typically ENGL 10600 or ENGL 10800)
    b. A course that meets the Oral Communication foundational outcome (typically COM 11400)

Approved for the faculty of the Schools of Engineering by the Engineering Curriculum Committee
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Chairman ECC

c. GS 10000 (this option is available only for students who have a TOEFL score in their student record).
d. GS 10100 (this option is available only for students who have a TOEFL score in their student record).

II. Minimum Grades: Earned grades must be C– or better for any course used to meet the requirements above, if the grade posts to the Purdue transcript.

III. Grade Average: To complete FYE, the student's cumulative GPA must be of 2.00 or greater, and an Engineering Admissions Index (EAI) must be 2.00 or greater. Calculation of the EAI is equivalent to the calculation of GPA for courses used to meet all FYE requirements 1-8 above. If a student meets a requirement in more than one way, only one will be used to calculate the EAI. The FYE Curriculum Committee will be responsible for keeping an updated, clear, and universal set of rules for determining which course is used in EAI for these situations. The FYE Advising Office will make these rules available to students.

VI. Total Number of Credits: Students must earn a total of at least 30 credits.

Reason: The College of Engineering Honors Program is proposing a new sequence of first-year courses, ENGR 16100 and ENGR 16200, to replace the current ENGR 14100 and ENGR 14200. The FYECC believes that the new courses will continue to meet the desired FYE curricular outcomes related to introductory engineering design, teamwork, fundamental data handling and computer skills, an introduction to the disciplines of engineering, and fundamental physics. Therefore, these courses should meet requirements 1, 2, and 6 of the FYE curriculum.

For now, ENGR 14100 and ENGR 14200 will remain on the list of options for FYE requirements, in the case that the transition to ENGR 16100 and ENGR 16200 takes longer than planned. However, once ENGR 16100 and ENGR 16200 are firmly established, it is likely that a potential future EFD will remove ENGR 14100 and ENGR 14200 from the list.

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Chair, First-Year Engineering Curriculum Committee