

To: The Faculty of the College of Engineering

From: The First-Year Engineering Curriculum Committee

Re: Change to FYE requirements to include GS 10000 and GS 10100

The First Year Engineering Curriculum Committee (FYECC) has voted to change the requirements for completion of the First-Year Engineering (FYE) program. The new requirements will allow students to use earned credit in GS 10000 and/or GS 10100 to meet FYE requirements. The FYECC now forwards this document to the Engineering Curriculum Committee with a recommendation for approval.

The changes are in requirements 8 and 9 in **Section I. Courses** of the currently published requirements (see EFD 35-14 and amendments in EFD 09-15). There are no changes proposed to sections II, III, and IV, nor to items 1-7 of section I. Essentially, students will be allowed to apply one or both of GE 10000 and GE 10100 instead of the courses meeting the Written and Oral Communication Foundational Outcomes, *for the purposes of completing FYE and being evaluated for transition to a degree program*. Students will still need to meet the Written and Oral Communication Foundational Outcomes for graduation, but they will be able to do so after they leave FYE. Furthermore, as a Humanities Foundational Outcome course, GS 10000 will meet General Education requirements in all degree programs in Engineering. Schools have the option of accepting GS 10100 for General Education.

Current requirements: (for Fall 2014 entry to Purdue and later)

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, or (EPCS 11100 **and** EPCS 12100)
2. ENGR 13200, ENGR 14200, 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
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
 - g. ENGR 14100 **and** ENGR 14200 for students who entered Purdue prior to Fall 2016 only

8. A course that meets the Written Communication foundational outcome (typically ENGL 10600 or ENGL 10800)
9. A course that meets the Oral Communication foundational outcome (typically COM 11400)

Proposed requirements: (for Fall 2016 entry to Purdue)

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

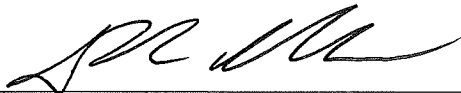
1. ENGR 13100, ENGR 14100, or (EPCS 11100 **and** EPCS 12100)
2. ENGR 13200, ENGR 14200, or ENGR 13300
3. MA 16100 or MA 16500
4. MA 16200, MA 16600, or MA 17300
5. CHM 11500 or [CHM 11100 **and** CHM 11200]
6. PHYS 17200
7. A science selective course, chosen from:
 - a. CHM 11600
 - b. CS 15900
 - c. 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)
 - 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).

Rationale:

The FYECC strongly believes that the addition of GS 10000 and GS 10100 to the plan of study for international students with weaker English language skills will be highly beneficial. Further, FYECC believes that the most appropriate time for students to take these courses is in the first year of study. Because GS 10000 satisfies General Education requirements for all programs in Engineering (as a Humanities Foundational Outcome), it will not represent an additional requirement placed on students beyond the current degree requirements. Students who choose to take GS 10100 as well, in preparation for Oral and Written Communication Foundational Outcome courses, will not, in some circumstances, be able to use the course to meet any degree requirement.

As stated in EFD 35-14, all courses used to meet FYE requirements may be used to calculate a student's EAI. Accordingly, if a student chooses to take the GS courses in place of the Communications Foundational Outcomes courses, the grades in those courses will be used to calculate EAI, and the student must earn a minimum grade of C-.

At this point the FYECC does not wish to *require* that any students follow the GS pathway. However, FYE will monitor student success for those students who choose to take the GS courses, and FYECC may consider instituting a requirement at a later date (via a new EFD), based on assessment data to be collected.



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