

**TO:** The Faculty of the College of Engineering

**FROM:** The First-Year Engineering Curriculum Committee

**RE:** Addition of the Vertically Integrated Program (VIP) courses to the requirements for completion of First-Year Engineering (FYE) and other updates to FYE requirements

The First-Year Engineering Curriculum Committee (FYECC) has approved the following changes for completion of FYE.

This action updates the FYE requirements to reflect:

- The removal of ENGR-14100 and ENGR-14200 (under sections I.1 and I.2 in EFD 31-17) as accepted courses for completion of FYE. This course sequence is no longer offered and it was replaced by the ENGR-16100 and ENGR-16200 option.
- The removal of the number of credits requirement (numeral IV in EFD 31-17). The requirement stated 30 credits but the program can be completed with 29-33 credits. As long as the requirements are met there is no need to explicitly state the number of credits required.
- The change in the name of requirement I.7. from “Science selective” to “FYE selective” in section I.7 of EFD 31-17. ABET does not consider CS courses to be science courses, so the word “science” in the name “science selective” is incorrect.
- The removal of BIOL 13100 and BIOL 12100 from the list of FYE selectives. Usually, FYE students cannot register for those courses.
- The correction of the name of the ENGL 11100 course in numeral I.8.d. of the document.
- The addition of ENGR 17911 and ENGR 17912 (in addition to one semester of ENGR 13300) as courses which will, fulfill the course requirements in sections I.1 and I.2. ENGR 17911 and ENGR 17912, First Year Participation in Vertically Integrated Projects (VIP) I & II, are new 1-credit hour courses that provide an opportunity for First-Year Engineering students “to engage in authentic and extended research and design projects” in any engineering discipline. These additions to the FYE requirements will be effective with the Fall 2020 catalog term (registrar term 202010).

The new courses (ENGR 17911 and ENGR 17912) have already been approved and are part of the Purdue catalog.

This EFD is an edit of EFD 31-17, the current document outlining FYE requirements.

The full requirements are listed below, with the changes highlighted.

**Proposed requirements (for Fall 2020 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. ENFY 13100, ~~ENGR-14100~~, ENGR 16100, or [EPCS 11100 and EPCS

- 12100] or [ENGR 17911 and 17912]
2. ENFY 13200, ~~ENGR 14200~~, ENGR 16200, or ENFY 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~~ FYE selective course, chosen from:
    - a. CHM 11600
    - b. CS 15900
    - c. CS 17700
    - d. BIOL 11000
    - e. BIOL 11100
    - ~~f. BIOL 13100~~
    - ~~g. 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. ENGL 11000 (this option is available only for students who have a TOEFL score in their student record).
    - d. ~~ENGL~~ ENGL 11100 (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.~~



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