

Engineering (B.S.E.)

This document is a tool approved by the department as a complete and accurate checklist for 2017- 18 Catalogue. Students who are meeting requirements with other courses than listed below must ask their advisor to file the waiver/substitution form (<http://www.cornellcollege.edu/registrar/gb-resources-faculty>). Students are expected to complete the major and minor requirements that were in effect at the time of Spring registration for their second year of courses. Transfer students who are admitted with sophomore or higher standing satisfy the requirements in effect when they begin their first course at Cornell. Students who have withdrawn from Cornell and are later readmitted follow the requirements in effect at the time of their readmission. Exceptions may be made by the department concerned in response to the student's petition, provided that such changes are feasible for and agreeable to the department.

General Requirements for the B.S.E. Degree:

_____ A minimum of 31 course credits. No more than two 100-level courses may be taken in the senior year without the permission of the Academic Standing Committee. No more than two All-College Independent Study course credits (280/380, 290/390/490, 296/396/496) may be counted toward satisfying the minimum credit requirement for this degree. No more than two full credits in 500-level adjunct courses may be counted toward satisfying the minimum 31 credits.

_____ A cumulative grade point average of 2.0 or higher.

_____ A major in Engineering

_____ First-Year Seminar (FYS)

_____ First-Year Writing Course (W)

Distribution Requirements:

_____ **Eight** courses outside Mathematics and Statistics, Engineering, Computer Science, and the Natural Sciences, including the following general education requirements:

_____ One Fine Arts course chosen from the following disciplines: Art, English, Music, Dance and Theatre

_____ Two Humanities courses chosen from two of the following disciplines: English, Foreign Language, History, Philosophy, Religion, Art History, Music, Theatre, or Education

_____ One Social Science course chosen from the following disciplines: Anthropology, Economics and Business, Education, Kinesiology, Politics, Psychology, or Sociology.

_____ Credit in French, German, Greek, Japanese, Latin, Russian, or Spanish 102; international students whose native language is other than English satisfy this requirement through completion of or exemption from the English as a Second Language program

Engineering Major: A minimum of 20 course credits distributed in the following areas:

a. NATURAL SCIENCE:

_____ PHY 161

_____ PHY 162

_____ CHE 121 or 161

_____ One additional science course chosen from one of the following departments or majors: Biology, Chemistry, Environmental Studies, Geology, or Physics. All of the courses used to fulfill the requirement must be designated Science, Laboratory Science, or Mathematics and be acceptable for the minimal major in the offering department.

b. MATHEMATICS:

_____ Completion of the calculus sequence (through MAT 122),

_____ MAT 221

_____ MAT 236.

c. ENGINEERING: A minimum of twelve EGR courses, including:

1. _____ EGR 131

2. _____ EGR 231

3. _____ EGR 271

4. _____ EGR 270

5. _____ EGR 311

6. 3 Four additional 300-level courses

7. 3

8. 3

9. 3

10. _____ EGR 385 (Capstone course)

11. _____

12. _____