1. Chemical engineering students must complete a minimum of **12 credits of technical electives** from mathematics, natural sciences, and engineering courses not included in the required chemical engineering curriculum. All technical electives are subject to approval by the student’s academic advisor and program director. Courses not included in the description above may be approved by petition if found to have sufficient technical content. **At least one technical elective must be in chemical engineering.**

2. Chemical engineering students must complete a minimum of **18 credits in the Social Science or Humanities** disciplines using any one of the following options:

   **Option 1:** Complete the Social Sciences Division* (minimum of 12 credits) AND complete 6 credits of courses from the Humanities List or 6 credits of a foreign language sequence (must not be student’s native language).

   **Option 2:** Complete the Humanities Division* (minimum of 12 credits) AND complete 6 credits of courses from the Social Sciences List or 6 credits of a foreign language sequence (must not be student’s native language).

   **Option 3:** Petition to complete an established non-technical minor of at least 18 credits or the Engineering and Computer Science Management minor.

   **Option 4:** Petition to complete 18 credits of Social Sciences and Humanities courses with a unifying theme. **Students pursuing this option must petition by the end of their third year.** A petition for this option will not be approved simply because care has not been taken to follow another acceptable option in prior course selection.

   Students may petition to substitute **ECS 392- Engineering Ethics** for three (3) Division credits under Option 1 or Option 2.

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*The Social Sciences Division and Humanities Division are drawn from the College of Arts and Sciences policy, which includes the Humanities List and Social Sciences List of appropriate courses and approved sequences in the Undergraduate Catalog for Advising (coursecatalog.syr.edu).

- A Division is defined as a collection of four 3- or 4-credit courses from the Social Sciences List or the Humanities List, as appropriate for the Division type.

- Two of the courses from the Division must constitute a sequence: a pair of courses with related content. If a student follows Option 1, the sequence must be in the Social Sciences List; if a student follows Option 2, the sequence must be in the Humanities List. Pre-approved sequences are designated in the Social Sciences and Humanities Lists by hyphens (–).

- Sequences composed of a pair of thematically related courses not specifically approved of in the Social Sciences or Humanities Lists may be approved by petition.

- Foreign language courses only count toward the Humanities Division (Option 2) if numbered 202 or above. Sequential foreign language courses of lower number count as a foreign language sequence, which does not replace the Divisional sequence.