Humanity and Social Science Electives

- Students are required to satisfactorily complete at least six H/SS elective courses, for a total of 18 units.
- H/SS electives must be on the approved list available online: [http://www.engr.pitt.edu/students/electives.html](http://www.engr.pitt.edu/students/electives.html)

Depth Requirement

- Must complete two or more courses (only one of which can be an introductory course designated by an asterisk [*]) from one of the departments or programs within the School of Arts and Sciences.
  - Example: ECON 0100* - Introduction to Microeconomic Theory
  - ECON 1100 - Intermediate Microeconomic Theory
- May also satisfy the depth requirement by completing two or more courses with a related theme, e.g., courses that focus on a geographic region, historic period, or ideological perspective.

Breadth Requirement

- Students must select courses from at least three different School of Arts and Sciences humanities and social science departments.

Writing Requirement

- All Swanson School of Engineering students must also complete at least one “W” – designated course in which the “W” indicates that a course has a substantial writing component, as approved by the School of Arts and Sciences. This requirement may alternatively be satisfied by completing ENGCMP 0400: Written Professional Communication for the Communication Skills Elective (see below).

Departmental Requirement

- Students must include PHIL 0300: Introduction to Ethics as one of the six Humanity/Social Science courses.

Communication Skills Elective

To satisfy the Communication Skills Elective requirement, students must satisfactorily complete one of the following courses:

- COMMRC 0500: Argument
- COMMRC 0520: Public Speaking
- COMMRC 0540: Discussion
- ENGCMP 0400: Written Professional Communication (this is a “W” – designated course)
- ENGR 1010: Communication Skills for Engineers

Engineering Elective

Students are required to complete one Engineering Elective course, for a total of at least three units. Any course offered by the Swanson School of Engineering may be used to satisfy this requirement.

Examples: ENGR 0020: Probability and Statistics for Engineers or IE 1040: Engineering Economic Analysis

It does not have to be an upper-level course. For students pursuing a minor from another department, one of the courses required for the minor can be used to fulfill this requirement.

Technical Electives

Technical electives are usually not offered during the Summer Term. Co-op students can earn three units for a written technical report on their co-op experience, which may be substituted for one of the technical electives.

Students in the **mechanical engineering** program are required to satisfactorily complete four technical electives, for a total of twelve units. At least one of the four must be a Dynamic Systems Technical Elective. Students in the **materials science & engineering** program are required to satisfactorily complete three technical electives, for a total of nine units.
Required Open Elective (1 Course)

Any course that is not of a similar nature to, or lower level than, a required or previously taken course can be used to fulfill the requirement.

- Three credits of physical education or three credits of band, ROTC, or chorus may be used to fulfill the Open Elective requirement.
- A second Engineering Elective of a seventh ME Technical Elective may be used to fulfill this requirement.
- Examples of courses that may not be used to fulfill the Open Elective requirement include:
  - ENGCMP 0200 Seminar in Composition
  - Any MATH course below MATH 0220 Analytic Geometry & Calculus 1
  - Any PHYS course below PHYS 0174 Physics for Science & Engineering 1