ISE Requirements and Prerequisite Map

Requirements:
- Engineering CHE, departmental exceptions
- Math 21
- Math 12

Choose One Path (Required)
- Mathematics
- Chemistry
- Materials Science
- Chemical Engineering

Technical Electives
Choose at least 4, at least 2 must be ISE 3xx (Highlighted) Examples:
- Math 230, CSE 2xx except 241, 251, CSE 3xx, BIS 3xx, Math 251

Note on Engineering Electives:
If ISE 172 is taken, CSE 4 or CSE 7 is Required and no longer count as an Eng’g Elective.
Similarly, if ISE 215/216 is taken, Mat 33 is Required and no longer count as an Eng’g Elective.
Both courses are otherwise acceptable Engineering electives.

HSS Requirements:
- A minimum of four multi-credit courses and a minimum of 13 credits in courses designated as HU (humanities) or SS (social science), with the following restrictions:
  1. Depth: At least eight credits must be in a common discipline and from the same department or program.
  2. Breadth: At least three credits in a discipline different from, and not cross-listed with, the discipline employed to satisfy the depth requirement.
  3. At least three credits must be designated as HU.
  4. None of the courses used for HSS can be taken Pass/Fail.
  5. None of the course can be one credit courses.