**ISE Requirements and Prerequisite Map**

**Misc Required Courses**
- Engl 1
- Engl 2
- Eco 1
- Act 108 Sp
- ENGR 5
- ENGR 10
- ISE 112 Fa
- CSE 3 or 7
- Physics 11/12
- Physics 21/22
- Math 21
- Math 22
- Math 23
- Math 205
- Chem 30

**Choose One Path (Required)**
- Mat 33
- ISE 215/216 Fa
- ISE 240 Fa/Sp
- ISE 364 Fa
- ISE 224 Fa/Sp
- ISE 355 Sp
- ISE 316 Fa
- ISE 320 Fa
- ISE 321 Fa/Sp/Su
- ISE 334 Fa
- ISE 339 Sp
- ISE 356 Fa
- ISE 358 Fa/Sp
- ISE 362 Sp
- ISE 365 Fa/Sp
- ISE 305 Sp
- ISE 332 Sp

**ISE 1xx and 2xx are Required**
**ISE 3XX are Electives (except 305 – Required)**

**Technical Electives**
Choose at least 4, at least 2 must be ISE 3xx (Highlighted)
Examples: Math 230, CSE 2xx except 241/252, CSE 3xx, BIS 3xx, Math 251

**Engineering Elective Requirements:**
At least 3 courses of 3 or more credits associated with a departmental program from BIOE, CHE, CEE, CSE, ECE, MAT, ME, or MECH may be selected, with exceptions listed at https://ise.lehigh.edu/content/courses

**ISE 100 – Industrial Employment** – An internship experience that must be completed for zero credits

**Dashed lines are co-requisites**

**Minimum 130 Credits are Required to graduate**
**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. At least three of these credits must be at the 100-level or above, or at the intermediate level or above for a single modern foreign language.
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.

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**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.