### ISE Requirements and Prerequisite Map

#### Misc Required Courses

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<td>Eco 1</td>
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<td>ENGR 5</td>
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<td>Eng 2</td>
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</table>

#### 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

#### Engle 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

### 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.

### ISE Requirements and Prerequisite Map

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

Minimum 130 Credits are Required to graduate

#### 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.

### List of courses excluded from consideration as an Engineering Elective:

- CHE 171 (CEE 171, EMC 171, ES 171) Fundamentals of Environmental Technology 4 Credits
- CEE 010 (ARCH 010) Engineering/Architectural Graphics and Design 3 Credits
- CEE 022 Survey of Computer Science 0-3 Credits
- CSE 042 (EMC 042) Game Design 3 Credits
- CSE 126 (EMC 126, GCP 126) Computers, the Internet, and Society 3 Credits
- CSE 252 Database Systems and Applications 3 Credits
- CSE 379 Sensor Project 3 credits
- MAT 020 Computational Methods in Materials Science 3 Credits
- MAT 221 (STS 221) Materials in the Development of Man 3 Credits
- ME 010 Graphics for Engineering Design 3 Credits
- ME 240 Manufacturing 3 Credits

A student may take one of the courses in the following course sets for use as an Engineering Elective:

- CEE 003 Engineering Statics or MECH 2 Elementary Engineering Mechanics or MECH 3 Fundamentals of Engineering Mechanics 3 Credits
- CEE 059 Strength of Materials or MECH 12 Strength of Materials 3 Credits

List of courses excluded from consideration as an Engineering Elective: