

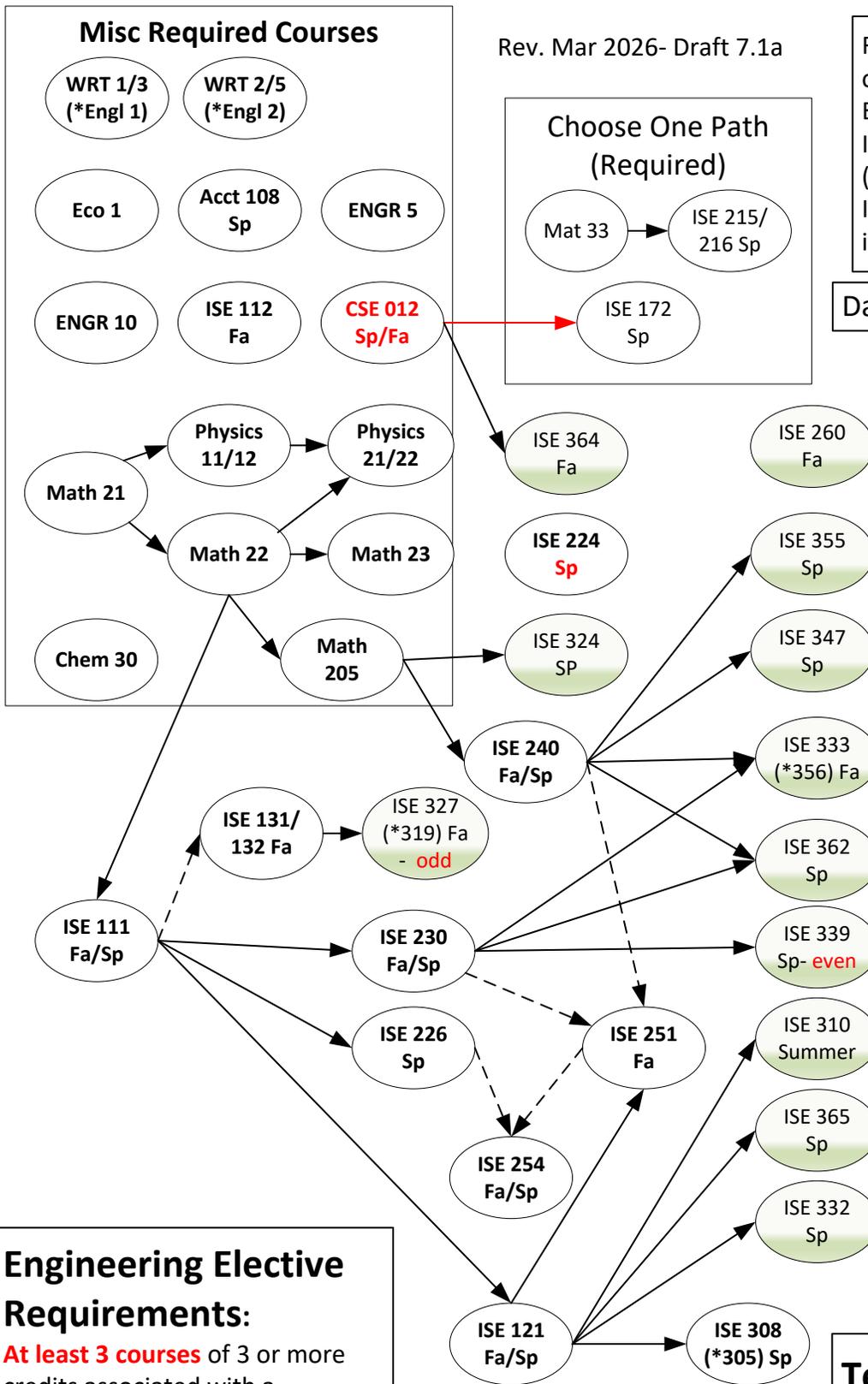
ISE Requirements and Prerequisite Map

Rev. Mar 2026- Draft 7.1a

Required courses are in unshaded ovals – Shaded ovals indicate Elective courses.
 ISE 1xx and 2xx are Required (except 260 is Elective).
 ISE 3XX are Electives (except 308 is Required).

Dashed lines are co-requisites

(*xxx) designates old number for the course (if any)



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

Minimum 130 Credits are Required to graduate.

12-18 cr is normal load per semester, can overload to 19 if gpa>2.5, to 20 if gpa>3.5

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

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.

NEW HSS Requirements (starting FALL 2025) check your audit for details:

A minimum of three courses and a minimum of **12 credits** in courses from the following four categories: HE, SW, AL, CGH, POPH

Breadth: At least one course of three credits or greater must be taken in each of two different categories.

Humanities: At least one course must have an HE or AL designation

None of the courses can be taken Pass/Fail.

All courses must be two credits or greater.

Note on Engineering Electives:

If ISE 215/216 is taken, Mat 33 is Required and no longer count as an Eng'g Elective.

CSE 012 is required and No longer count as an Eng'g Elective.

Pre 2026-Fall Students:

CSE 007 is a combination of CSE003+CSE 004, and is required for ISE 172. CSE 007 is NOT eligible as an Engineering elective since CSE003, which is 2 credits of the course is required for the ISE degree, and Eng'g Electives has to be 3 or more credit hours.

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 202 CEE Planning and Engineering Economics 3 Credits

CSE 042 (EMC 042) Game Design 3 Credits

CSE 252 (EMC 252, GCP 252, STS 252) Computers, the Internet, and Society 3 Credits

CSE 241 Database Systems and Applications 3 Credits

CSE 379 Senior Project 3 credits

MAT 020 Computational Methods in Materials Science 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