Math major substitutions¹

CS related substitutions

- For past or present CS majors, we allow MTH 225 + MTH 325 to replace MTH 210 + MTH 315 in the math major.
- For math majors with a CS major or minor, the School of Computing and Information Systems will allow MTH 210 to replace MTH 225 in the CS major/minor.
- For math majors with a CS major or minor, the School of Computing and Information Systems will allow MTH 315 to replace MTH 325 in the CS major/minor (this is unusual).
- **Math majors** can use EGR 106 and EGR 107 in place of the cognate (for secondary) or CS cognate (for others) (this is primarily for previous Engineering majors).
- **Math majors** can use EGR 112 and CIS 159 in place of the cognate (for secondary) or CS cognate (for others) (this is primarily for previous Engineering majors).

Stats related substitutions

- Math majors in applied emphasis can use any of STA 216, STA 312, STA 318, STA 412 or STA 418 as the stats cognate. (See note about STA 412 for elective below.)
- Math majors in theoretical emphasis can use either of STA 312 or STA 412 as the stats cognate. (See note about STA 412 for elective below.)
- Math majors can use STA 220 and EGR 220 in place of STA 312 (this is primarily for previous Engineering majors).

Substitutions for electives

- Math majors in applied and theoretical emphasis can use STA 412 as a math elective course, but may *not* count it as both a stats cognate and elective.
- Math majors in applied or theoretical emphasis with a double major can use a class from the non-math major as a math elective, as long as it has a substantial math prerequisite (MTH 201, MTH 204, or above) and substantial math component. See this <u>list of examples</u>. Before sending this substitution in, the student either must have completed a 400-level MTH course as an elective or must be currently enrolled in one (past drop date).
- Math majors in applied emphasis can use MTH 300, 350, 450 as a math elective as long as there is at least one 400-level elective in the major. Both MTH 300 and 401 cannot be used as an elective. (Note: Before sending this substitution in, the student either must have completed a 400-level MTH course as an elective or must be currently enrolled in one (past drop date).
- Pre-2019 non-certification math majors can use MTH 305 as an elective or sequence completer, and MTH 498 as an elective or capstone option in the non-certification math major.
- Independent studies or other unlisted MTH courses (e.g. MTH 399, 499, 380, 480) may be used in the major with prior approval by the unit head.

¹ Document updated September 2022, prepared June 2022 (Mathematics Engagement and Advising Coordinators)