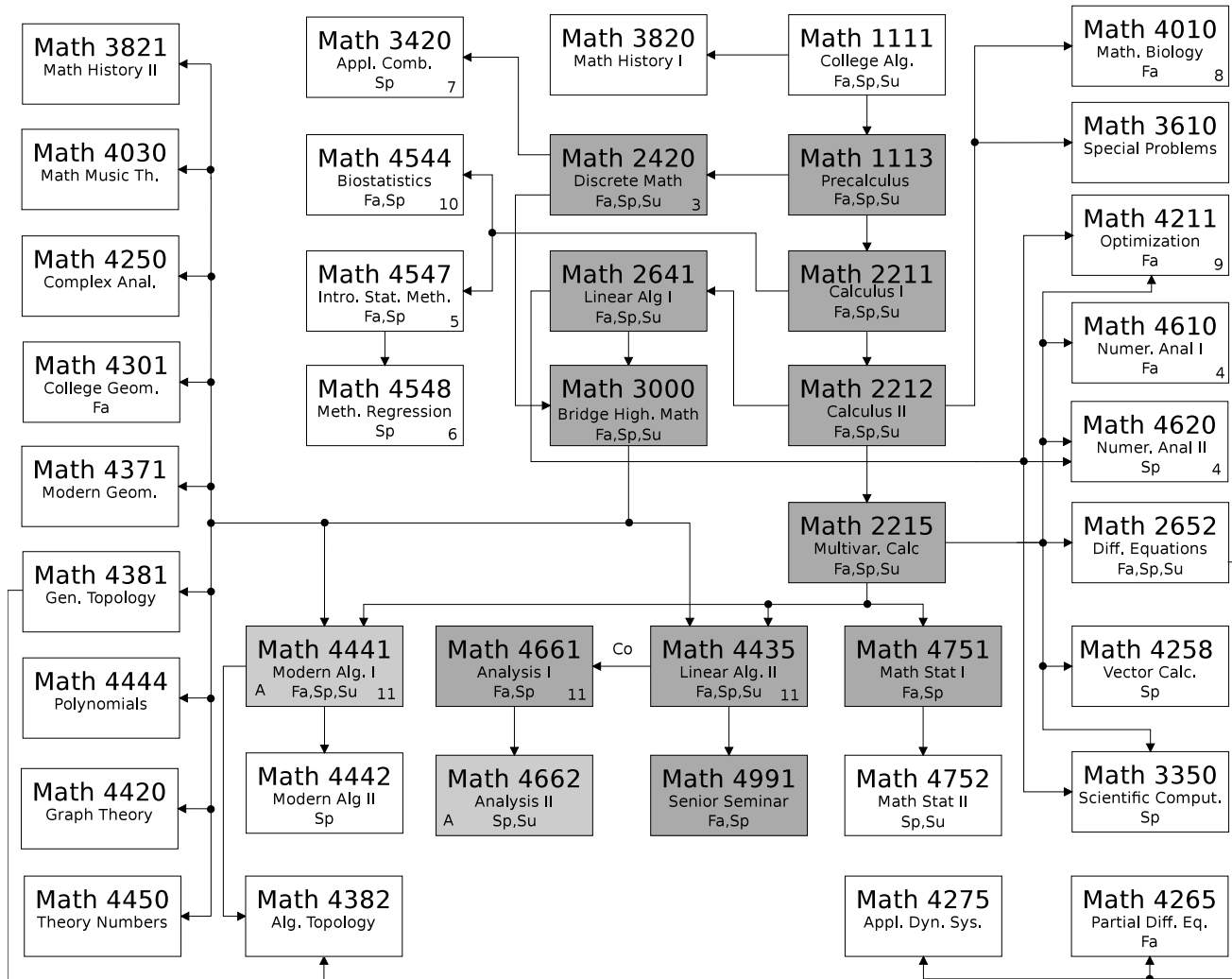


# Mathematics and Statistics Course Chart (BS with Concentration in Computer Information Systems)

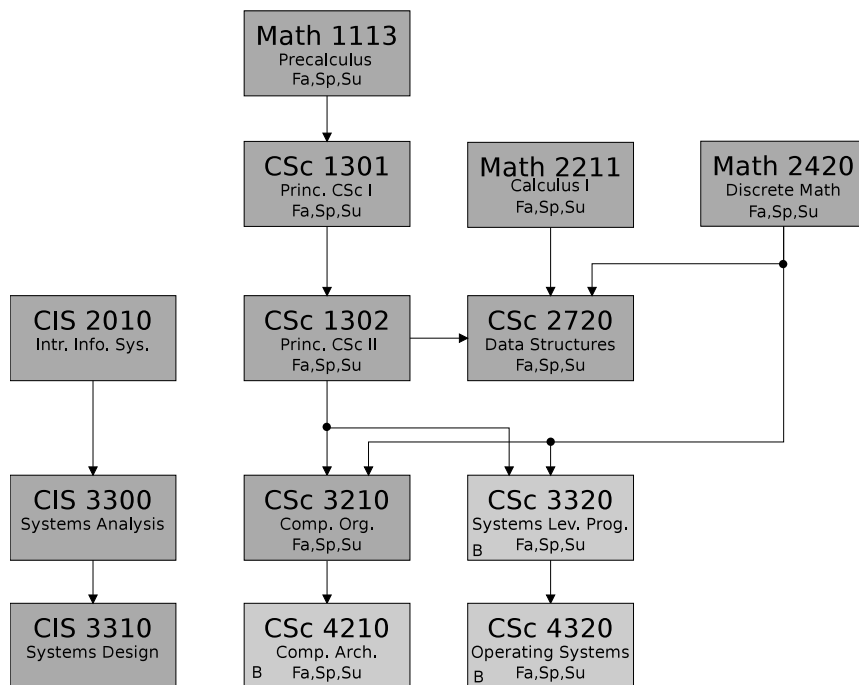


1. Prerequisites always require a grade of C or higher.
2. Corequisites are marked with “Co.”
3. Courses that have Math 1113 as a prerequisite can also use Math 2211 as a prerequisite.
4. Math 4610 and 4620 also require the ability to program in a high level language. Math 3030 can satisfy the prerequisite of Math 4620.
5. For Math 4547, Math 1220 can replace Math 2211 as the prerequisite.
6. For Math 4548, Math 4752 can replace Math 4547 as the prerequisite.
7. For Math 3420, Math 2212 can serve as the prerequisite instead of Math 2420.
8. For Math 4010, Math 1220 can serve as the prerequisite instead of Math 2212.
9. For Math 4211, Math 3030 can serve as the prerequisite instead of Math 2215 and Math 2641.
10. Math 4544 also requires Biol 1104K, 1108K, or 2108K with a grade of C or higher.
11. Math 2215, Math 2641, and Math 3000 are all prerequisites of Math 4435, 4441, and 4661. These are not all shown on the chart when they are enforced implicitly by another prerequisite or corequisite.

## Notes on Degree Requirements:

- Shaded courses are required for the Math BS with concentration in Computer Information Systems.
- Majors in this concentration should take one course from group A.
- One additional upper level math course is also required.
- Courses that cannot count toward a math major are excluded from the chart. Note that the upper level courses Math 3030, 3050, 3070, and 3090 are specifically excluded from the major and minor. At most one of Math 4544 or 4547 can count toward a math major or minor.
- The courses in the calculus sequence, Math 2420, Math 2641, and Math 3000 should be as taken soon as prerequisites are satisfied in order to avoid a delay in starting upper level courses that might result in a delay in graduation. Pay attention to course sequencing and scheduling when planning for graduation.

## Required Computer Science and Computer Information Systems Courses, with Prerequisites



1. CIS 3300 also has a corequisite of CIS 3260. CIS 3310 also has a prerequisite of CIS 3270. The sequence CIS 3260 and CIS 3270 is a programming sequence. Students should request a prerequisite waiver for CIS 3300 and CIS 3310 after completing the computer science programming sequence CSc 1301 and CSc 1302.

### Notes on Degree Requirements:

- Computer Science and Computer Information Systems courses that are required for the Math BS with concentration in Computer Information Systems are shaded.
- Majors in this concentration should take one course from group B.
- Majors in this concentration should take two additional CIS courses, preapproved by the director of undergraduate studies. (The 2017/18 catalog specifies CIS 3210, which is no longer offered, and just one additional preapproved CIS course; the additional preapproved course is to substitute for CIS 3210 until the catalog is updated).