

Bachelor of Science Math Requirements & Resources

All Bachelor of Science students at Saint Mary's University must complete a minimum of 6 credit hours in Mathematics or Computing Science to fulfill their degree requirements. Certain programs require specific mathematics courses be taken while other programs have a few different options. The information below is a guideline of the different courses available, which programs require specific courses and resources available to help you decide which courses you should take.

Pre-Calculus I & II

- Equivalent to Pre-Calculus 12
- Offered through Saint Mary's Continuing Education
- Provides alternative pre-requisite to MATH 1190, MATH 1210 & MATH 1250 for those who have not taken Pre-calculus 12 or an equivalent course in high school
- Not a university credit course

MATH 1190 Pre-Calculus Review

- Pre-requisite: Pre-Calculus 12
- Preparatory course for Math 1210
- Counts as a general elective
- Students who pass MATH 1190 are exempt from writing MATH 1210 pre-test
- Students receiving a grade of less than 'C' are advised not to proceed to MATH 1210
- Math 1190 is not recommended as a preparatory course for MATH 1250, as Math 1250 includes a review of relevant pre-calculus material
- Note: you cannot get credit for Math 1190 if taken after or simultaneously with Math 1210

MATH 1210 & MATH 1211 Introductory Calculus I & II

- Pre-requisite: Pre-Calculus 12
- MATH 1210 requires you to pass a pre-test (normally on the first day of class) to remain in the course. If you do not receive the necessary grade on the test, you are required to drop MATH 1210, and strongly encouraged to take MATH 1190 before trying again
- Required by Science students interested in majoring in: Astrophysics, Computing Science, Chemistry, Engineering, Mathematics, & Physics

MATH 1250 & MATH 1251 Calculus for the Life Sciences I & II

- Pre-requisite: Pre-Calculus 12
- Recommended for students interested in pursuing Life Science programs: Biology, Environmental Science, Geography, Geology, and Psychology
- Note: You cannot receive credit for Math 1250 if taken after or simultaneously with Math 1210; or for Math 1251 if taken after or simultaneously with Math 1211

MATH 1216 Introduction to Mathematical Statistics

- Pre-requisite: MATH 1210 or MATH 1250
- Required by students interested in majoring in: Computing Science (including Computing Science & Business Administration)
- Can be used in certain Life Science programs (Environmental Science, Geology, Geography, Psychology) with MATH 1210 or MATH 1250 to fulfill 6 credit hours in Math / Computing Science requirement
- Fulfills 3 credit hour statistics admittance requirement for many health science programs although students majoring in Biology or Psychology are strongly recommended to take BIOL 2308 Biostatistics or PSYC 2350 Psychological Statistics

CSCI 1226 Introduction to Computing Science and Programming & CSCI 1227 Computer Programming and Problem Solving

- Required by Science students interested in majoring in: Computing Science (including Computing Science & Business Administration).
- Students interested in computers and programming can take CSCI 1226 / 1227 instead of math courses if majoring in: Environmental Science, Geology, Geography, or Psychology