The courses that satisfy the general education requirement in the mathematical sciences present broadly applicable techniques for formulating, analyzing, and solving problems, and for evaluating proposed solutions. Options to complete this requirement include some Computer Science, Statistics, and Mathematics offerings, including calculus.

Students may select from the following lists of courses.

**NON-CALCULUS COURSES**

All non-calculus options may be taken individually or, when available, as a sequence. These courses may also be combined to fulfill 200 units of general education requirements (i.e., MATH 11200 and STAT 20000). Students who satisfy the requirement with something other than calculus will take 100 or 200 units of approved non-calculus course work. If only 100 units are used for the mathematical sciences requirement, an additional 100 units will be taken in either the physical or biological sciences categories (for a total of 300 units).

- **CMSC 11000** Multimedia Programming as an Interdisciplinary Art I 100
- **CMSC 11111** Creative Coding 100
- **CMSC 11800** Introduction to Data Science I 100
- **CMSC 11900** Introduction to Data Science II 100
- **CMSC 12100-12200** Computer Science with Applications I-II * 200
- **CMSC 14100** Introduction to Computer Science I 100
- **CMSC 14200** Introduction to Computer Science II 100
- **CMSC 14300** Systems Programming I 100
- **CMSC 14400** Systems Programming II 100
- **CMSC 15100-15200** Introduction to Computer Science I-II * 200
- **CMSC 16100-16200** Honors Introduction to Computer Science I-II * 200
- **MATH 11200-11300** Studies in Mathematics I-II 200

One of the following courses: ^

- **STAT 20000** Elementary Statistics 100
- **STAT 20010** Elementary Statistics Through Case Study
- **STAT 22000** Statistical Methods and Applications

^ Credits for MATH 15100-15200 may be earned by the completion of a higher-level MATH course (MATH 15200, MATH 15300, MATH 15910, MATH 18300, or higher).

^ * Statistics AP credit may not be used in combination with a calculus course, with STAT 20000 (http://collegecatalog.uchicago.edu/search/?P=STAT%2020000) Elementary Statistics, or with STAT 22000 (http://collegecatalog.uchicago.edu/search/?P=STAT%22000) Statistical Methods and Applications. Students may not receive credit for more than one of STAT 20000, STAT 20010, and STAT 22000.

* CMSC 12100-12200-12300, CMSC 15100, AND CMSC 16100-16200 will no longer be offered after academic year 2021–22. To allow students who have completed CMSC 15100 to finish the sequence, CMSC 15200 will be offered in Autumn Quarter 2022. CMSC 15400 will be offered in Autumn Quarter 2022 and Winter Quarter 2023. These courses will not be offered again after Winter Quarter 2023.

**CALCULUS SEQUENCES**

Students must meet the mathematical sciences requirement with the first two quarters of a calculus sequence if they are preparing for the health professions or if they anticipate majors in the Physical or Biological Sciences, Economics, Psychology, or Public Policy Studies. Other restrictions may apply. Students should consult their College adviser or departmental counselor about course choices. Those who take calculus must earn credit for the first two quarters of a calculus sequence (200 units).

Further information regarding calculus credit and placement can be found on the Examination Credit (http://collegecatalog.uchicago.edu/thecollege/examinationcreditandtransfercredit/) page.

- **MATH 13100-13200** Elementary Functions and Calculus I-II 200
- **MATH 15100-15200** Calculus I-II * 200
- **MATH 16110-16210** Honors Calculus I-II (IBL) 200
- **MATH 16100-16200** Honors Calculus I-II 200
Credit may be granted by examination.