Mathematical Sciences

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 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
DATA 11800 Introduction to Data Science I 100
MATH 11200-11300 Studies in Mathematics I-II 200
One of the following courses: 6 100
STAT 20000 Elementary Statistics
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 15250, 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%2022000) Statistical Methods and Applications. Students may not receive credit for more than one of STAT 20000, STAT 20010, and STAT 22000.

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.