

Mathematics Undergraduate Core Requirements

Declaring the Mathematics Major

Students seeking to major in mathematics are first designated as “pre-mathematics majors” until they have completed both MATH 1900 and MATH 2000 or equivalent courses. Upon successful completion of these two courses with grades of C or better, students will be allowed to declare mathematics as their major. Each of these courses must be completed successfully within two attempts.

Degree Requirements in Mathematics

All mathematics majors in all undergraduate programs must complete the mathematics core requirements.

Core Requirements

1. The following courses are required:

CMP SCI 1250	Introduction to Computing	3
MATH 1320	Introduction to Probability and Statistics	3
MATH 1800	Analytic Geometry And Calculus I	5
MATH 1900	Analytic Geometry And Calculus II	5
MATH 2000	Analytic Geometry And Calculus III	5
MATH 2020	Introduction to Differential Equations	3
MATH 2450	Elementary Linear Algebra	3
MATH 3250	Foundations of Mathematics	3
or CMP SCI 3130	Design and Analysis of Algorithms	
MATH 4100	Real Analysis I	3
Total Hours		33

2. The related area requirements as described below must be satisfied. Students seeking a double degree, either within this department or with another department, do not have to fulfill the related area requirements.

Sign-offs from other departments affected by this proposal

None

Rationale

Students passing CMP SCI 3130 must also complete MATH 3000. Math 3130 is similar to MATH 3000 but it is for Math majors as opposed to CS majors. This change will allow double majors to take only one of 3000/3250