The following requirements must be fulfilled:

The general requirements stated under Columbian College of Arts and Sciences, Graduate Programs (http://bulletin.gwu.edu/arts-sciences/#Graduate_Degree_Requirement).

30 credits in approved courses divided between mathematics and one of the following areas of application: physics, computer science, statistics, operations research, economics, engineering (civil, electrical, mechanical, or systems). No more than 12 credits may be in non-MATH courses. Students must petition and obtain the approval of the graduate committee in order to register for courses outside the department.

Subject to the approval of the graduate committee (requested via petition) and the agreement of the instructor, mathematics graduate students may take the following undergraduate courses for graduate credit: MATH 3710 Introduction to Mathematical Logic, MATH 3720 Axiomatic Set Theory, MATH 3730 Computability Theory, MATH 3740 Computational Complexity, MATH 3613 Introduction to Combinatorics, MATH 3632 Introduction to Graph Theory, MATH 4239 Real Analysis I, MATH 4240 Real Analysis II, MATH 3848 Differential Geometry, and MATH 4981 Seminar: Topics in Mathematics. Graduate students in such courses must be assigned appropriate additional work to bring the courses up to the graduate level. No more than 6 credits may be satisfied through approved upper-level undergraduate courses.

Students must petition and obtain the approval of the graduate committee in order to register for MATH 6995 Reading and Research.

Up to one-quarter of the work required for the degree may be taken via courses offered by other institutions in the Consortium of Universities of the Washington Metropolitan Area. (https://registrar.gwu.edu/consortium/) Students wishing to take such courses must petition and obtain the approval of the graduate committee.