Ursuline Academy of Dallas Math Placement Process for Class of 2025

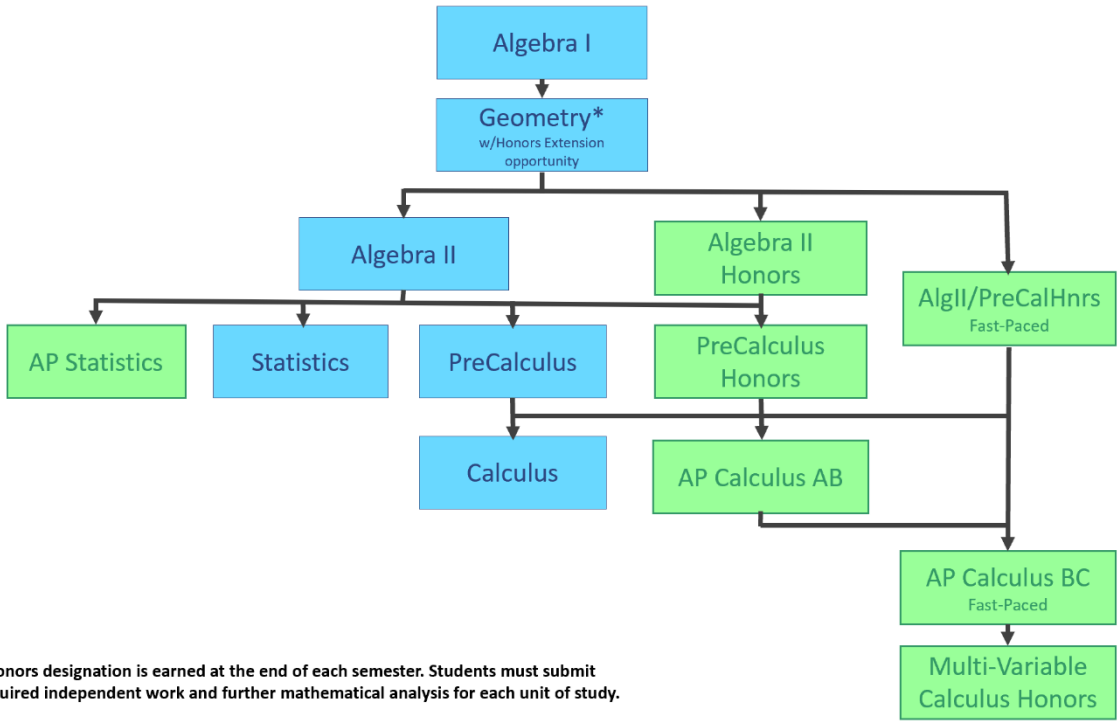
Beginning with the **Class of 2025**, Freshmen Math course placements will follow the options outlined below.

1. **Algebra I**
    a. For students who have completed Pre-Algebra or 8th grade math
    b. For students who would like to build a stronger Algebra I foundation

2. **Geometry**
    a. For students who have completed Algebra I
    b. For students who enjoy structured activities and explorations
    c. An **optional honors extension** is available for students who have a genuine curiosity in mathematics and a desire to delve deeper into mathematical analysis.
        i. Students earn honors credit at the end of each semester when the required independent honors extension work is completed at a mastery level.
        ii. Submittal of work does not guarantee an Honors designation.

3. **Algebra II and Above**
    a. These higher course placements are possible for students that have completed both Algebra I and Geometry.
    b. Students will be asked to demonstrate mastery via a summative assessment.
    c. Contact the math department chair, Tammy Yung, tyung@ursulinedallas.org to schedule an interview.

Ursuline Academy – Mathematics Course Progression 2021-2022



*Honors designation is earned at the end of each semester. Students must submit required independent work and further mathematical analysis for each unit of study.

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3130 Algebra I

(Freshmen) Linear and non-linear functions are studied through the lens of multiple representations: mathematical symbols, geometric drawings/graphs, and verbal and written words. Students will solve problems by applying mathematical principles to algebraic equations including rational numbers and will build upon this algebraic foundation to solve increasingly complex problems**.** Technology is introduced as a tool to analyze problems and study the art of transformations.

Prerequisite: None — 2 semesters — 1 credit

3211 Geometry

(Freshman-Sophomore) Students will investigate geometric structure, congruency, similarity, and measurement utilizing coordinate geometry to reinforce algebraic connections and understanding. Solutions will include both geometric and algebraic representations. Proper use of mathematical language and technology is emphasized.

Prerequisite: Algebra I — 2 semesters — 1 credit

3212 Geometry Honors

(Freshman-Sophomore) This course includes a more in-depth examination of the Geometry course content. Students will provide an extension to each unit culminating in a portfolio of individual work that extends concepts with additional analysis, more complex applications, and/or creation of real-life problem solutions. For example, students may develop proofs to more complex relationships, extend geometric patterns to the Fibonacci Sequence or Pascal's Triangle, use circle properties to delve into the creation of an orthocenter, and much more. Critical thinking and analysis are emphasized through this independent work.

Prerequisite: Departmental Approval — 2 semesters — 1 credit