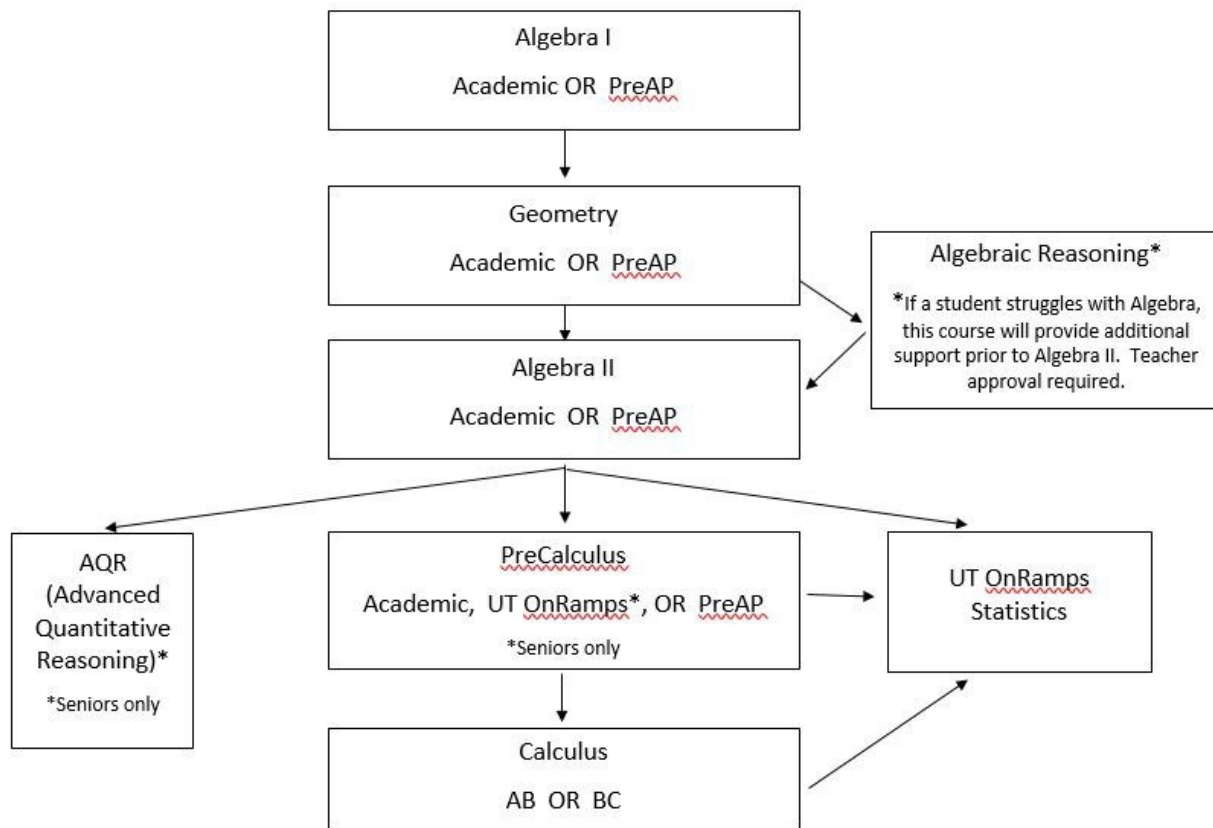


# Bowie Mathematics Course Offerings

$$\begin{array}{c} 2 > -3 \\ 0.999\dots = 1 \\ \pi \approx 3.14 \\ \sqrt{2} \\ 5(2 + 2) \end{array} \quad \begin{array}{c} \infty \\ \times \\ \div \\ 5^2 \\ (1 - 2) + 3 \end{array} \quad \begin{array}{c} + \\ - \end{array}$$
$$101_2 = 5_{10}$$

## Mathematics Options at Bowie High School



Senior students who have not passed the math portion of the TSI test by the end of the school year, may be placed into a TSI Math preparation class.

# Algebra I

## **Academic**

Algebra I is a STAAR/EOC tested subject. Students are expected to do regular assignments to practice the skills needed to be successful on the test and in future math classes. Students who need extra help are expected to come to FIT/tutorials outside of class.

## **PreAP**

This course is for students who have been very successful in their previous math courses. The pace of this class is much faster than Academic Algebra I. Typically, students who are successful in this course complete their daily homework, are able to work independently, have near perfect attendance and are organized with good time-management.

# Geometry

## Academic

This course is for students who have passed Algebra I. There is regular homework and students are expected to take ownership of their learning by attending FIT and tutorials when needed.

## Prerequisite: Algebra I

## PreAP

This course is typically for students who were successful in PreAP Algebra I. There is a summer work component that is expected to be completed before school starts. The pace of this class is much faster than Academic Geometry. There is daily homework and students are expected to take ownership of their learning.

# Algebra II

## Academic

This course is for students who passed Academic Geometry. There is regular homework and students are expected to take ownership of their learning by attending FIT and tutorials when needed.

## Prerequisite: Geometry

## PreAP

This course is typically for students who were successful in PreAP Geometry. There is a summer work component that is expected to be completed before school starts. The pace of this class is much faster than Academic Algebra II. There is daily homework and students are expected to take ownership of their learning.

# Algebraic Reasoning

This course is for students who have completed Geometry but feel they are not ready for Algebra II quite yet. **Your teacher will let you know if they recommend Algebraic Reasoning for you.** Algebraic Reasoning will review Algebra I and Geometry concepts to give students a better foundation for Algebra II.

Prerequisite: Geometry

There is a large project component to this course. Students will be reviewing math concepts and applying them to real life scenarios. Students will be expected to present work.

***This course is NOT for students who already have Algebra II credit.***

# Pre-Calculus

Prerequisite: Algebra II

For students who intend to major in business, STEM, or have not decided on a college major yet.

## Academic

This course is typically for students who took Academic Algebra II. There is regular homework and students are expected to take ownership of their learning by attending FIT and tutorials when needed.

## PreAP

This course is for students who intend to take AP Calculus. PreAP Algebra II is highly recommended. The pace of this class is much faster than Academic PreCal. There is daily homework and students are expected to take ownership of their learning.

## OnRamps

**This course is for seniors only and Pre-AP Algebra 2 is recommended.** With this course, students can potentially earn college credit through UT Austin. This course is student driven. It is inquiry based, which means students will problem solve together to find solution strategies.

# AP Calculus

Prerequisite: PreCal

## AB Calculus

This course is for students who have been in an accelerated math course at some point in their math career.

This course covers the content of a 1-semester college Calculus course and prepares students for the AB Calculus AP test.

## BC Calculus

PreAP PreCal is highly recommended.

This course covers the content of a 2-semester college Calculus course and prepares students for the BC Calculus AP test.

Check with the college(s) you would like to attend to see what their Calculus requirements are for your intended major.



# OnRamps Statistics

Prerequisite: Algebra II

## What's expected?

Students will learn coding in R-Studio in this course. It is a flipped class which means students will read and watch videos for homework and come to class expected to be ready to apply the new content. Because the course is through UT Austin, deadlines are set by UT and aren't flexible. The entire course is online.

Students can potentially earn college credit through UT Austin.

This course is for students who intend to major in communications, a social science (psychology, sociology, government, etc.), education, or nursing. Most non-STEM majors have a statistics requirement so this may be a good option for students who know their future degree plans. Some business schools are now requiring Business Stats.

Check with the college(s) you would like to attend to see what their mathematics requirements are for your intended major.

# Advanced Quantitative Reasoning (AQR)

Prerequisite: Algebra II

## What's expected?

This course involves a great deal of student exploration and problem solving. It is an inquiry based course, which means students will problem solve together to find solution strategies. The extensive collaboration in this course includes small group and whole class discussion.

**Presentations are required in this class.**

This course is for seniors only.

This college level course exposes students to topics in networks, numerical reasoning (Fermi), probability, statistics, regression analysis, and finance.

Instruction is primarily lead by students and focuses on applications. Students typically major in social sciences, English, history, or Fine Arts.

# TSI Prep Course

Senior students who have not passed the math portion of the TSI test by the end of this school year may be placed into a TSI Math preparation class.

**You counselor will contact you about this course.**