MATHEMATICS

MATH DEPARTMENT PHILOSOPHY

The junior high math department believes that the study of mathematics reveals the character and nature of God. Through the understanding of mathematics, students recognize the mathematical precision that is God's world and more clearly understand the attributes of God's character through the window of mathematics. (Colossians 1:9-29; Malachi 3:6; Genesis 1:26; Psalm 9:1)
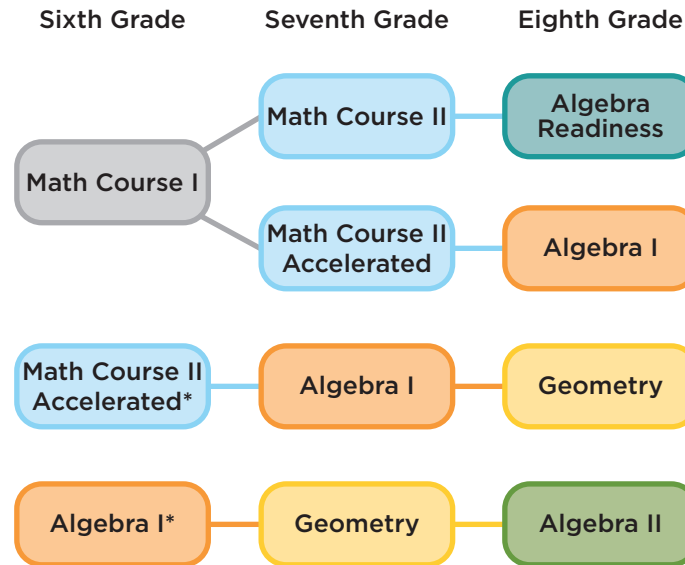
COURSE SELECTION

Math placement is based on the following parameters:

1. Successful completion of prerequisite course/s
2. Assessment scores
3. Teacher recommendation

Highly qualified students who have successfully completed the prerequisites may be offered advanced math courses. Students and parents are encouraged to consult with the Math Department Head and/or Academic Counselor about their mathematics goals.

MATH MAP

Valley Christian Junior High students take a mathematics course during each of their junior high school years. The Math Map illustrates the course offerings at the junior high in sequence.

Sixth Grade	Seventh Grade	Eighth Grade
Math Course I	Math Course II	Algebra Readiness
	Math Course II Accelerated	Algebra I
Math Course II Accelerated*	Algebra I	Geometry
Algebra I*	Geometry	Algebra II

1. Students are required to take Algebra I and Algebra II in person at an accredited school.
2. Math students attempting to skip ahead for Pre-Algebra or Geometry during summer must:
   - Find a summer course from an accredited school.
   - Gain permission from current math teacher and math Department Head.
   - Tell an Academic Counselor their intent.
   - Provide a transcript to VCJH upon completion of summer course.
   - May be required to pass a VCJH placement exam.
3. Outside transcripts for courses of Geometry or higher must be UC approved.

*This is an advanced math course and may require a placement exam.

Scan QR Code to View the Course Catalog or Visit vcs.net/jhcoursecatalog

MATHEMATICS

"Great is our Lord and mighty in power – His understanding is infinite!" **(Psalm 147:5).**
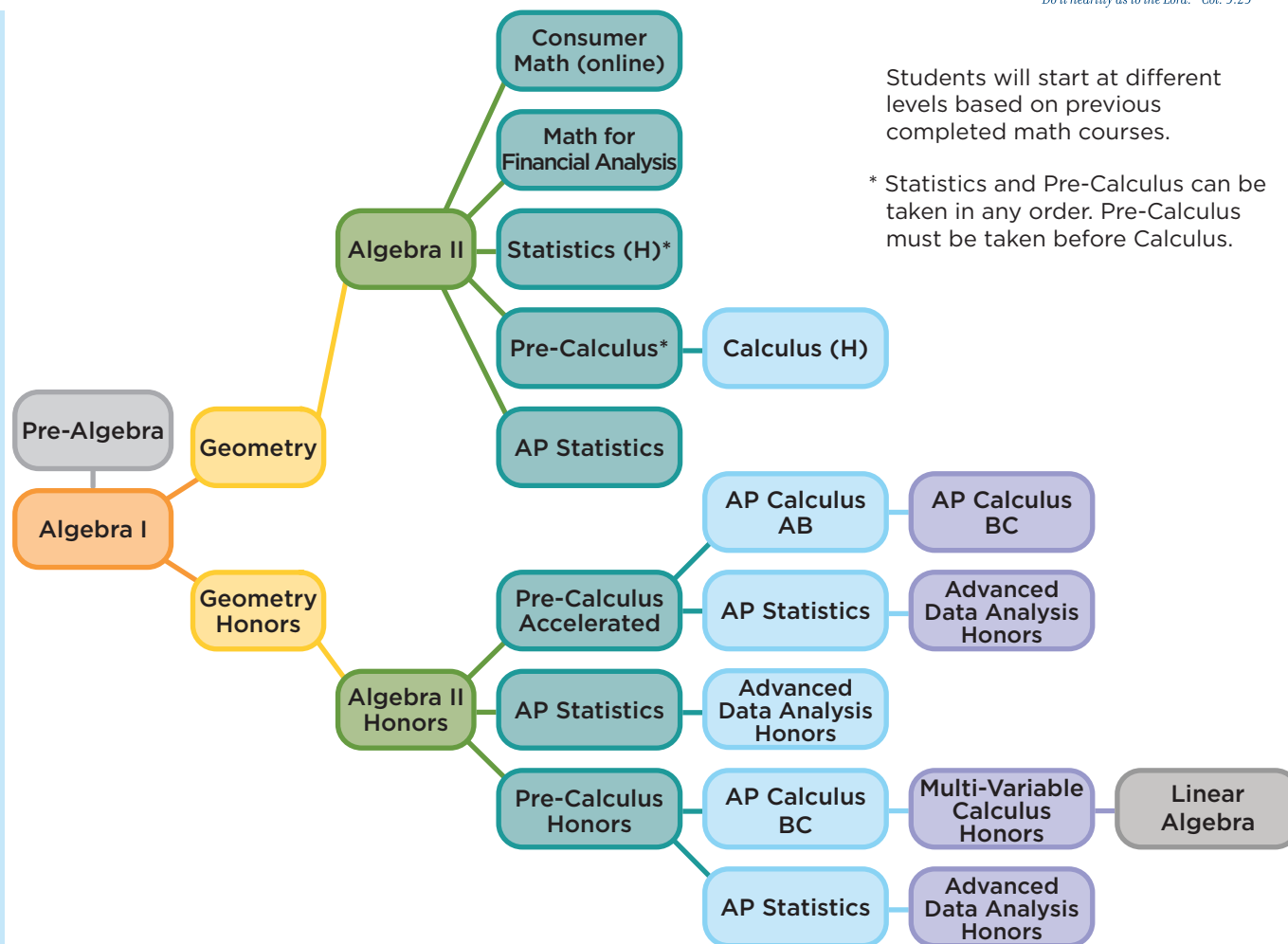
DESCRIPTION OF EXCELLENCE

The Math Department's comprehensive program is designed to create successful academic opportunities for all ability levels, training students to be analytical, logical, and thinkers while exploring how mathematics reveals God's perfection, beauty, and logic.

MATH DEPARTMENT FACULTY

Our Math Department faculty includes fourteen teachers with master's or doctoral degrees; the average instructor has taught at VCS eight years.

MATH DEPARTMENT DISTINCTIVES

- Through persistence, effort, and practice, our students outperform the national average.
- A variety of different technology programs are used in our classrooms, including: TI Navigator, iPads with apps, ALEKS, Moodle, TI Presenter, Java, Core, Webassign, JMP, and R language. Students are trained to solve problems with and without technology to prepare for exams prohibiting the use of calculators.
- VCHS offers an active math honors club that is a chapter of Mu Alpha Theta, the National Mathematics Honor Society. The VCHS Math Team placed first at the 2019, 2021, and 2022 Math League National Championships, and Best Overall in the Nation at the American Statistical Association Fall Data Challenge two years in a row.
- The Math Department participates in VCHS' Dual Credit Program, which allows students selecting certain classes to take for college credit.
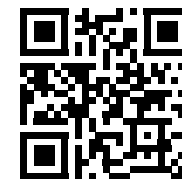-

Students will start at different levels based on previous completed math courses.

* Statistics and Pre-Calculus can be taken in any order. Pre-Calculus must be taken before Calculus.

Course flowchart:

- Pre-Algebra → Algebra I
- Algebra I → Geometry → Algebra II
  - Algebra II → Consumer Math (online)
  - Algebra II → Math for Financial Analysis
  - Algebra II → Statistics (H)*
  - Algebra II → Pre-Calculus* → Calculus (H)
  - Algebra II → AP Statistics
- Algebra I → Geometry Honors → Algebra II Honors
  - Algebra II Honors → Pre-Calculus Accelerated
    - Pre-Calculus Accelerated → AP Calculus AB → AP Calculus BC
    - Pre-Calculus Accelerated → AP Statistics → Advanced Data Analysis Honors
  - Algebra II Honors → AP Statistics → Advanced Data Analysis Honors
  - Algebra II Honors → Pre-Calculus Honors
    - Pre-Calculus Honors → AP Calculus BC → Multi-Variable Calculus Honors → Linear Algebra
    - Pre-Calculus Honors → AP Statistics → Advanced Data Analysis Honors

MATH COURSES

Three years of mathematics are required to graduate from VCHS. Students should be able to reach Algebra II in order to be college eligible. VCHS highly recommends four years of mathematics to compete in the college market.

This map is a general planning tool, intended to show the course and typical student tracks. Students may deviate from the map and should consult with the counselors and teachers to find the best classes to meet their academic and spiritual goals. Courses offered may vary year to year.

Scan QR Code to View the Course Catalog or Visit vcs.net/hscoursecatalog