Dear Parents and Students:

The Mathematics Department would like to take this opportunity to welcome our students back to school and into our math classrooms. We would also like to take this opportunity to share information with you that is extremely important to your child's high school mathematics success!

The High School offers three programs/courses of study that provide students with the courses they need to meet their graduation requirements in math. These **courses of study** are:

1. **Applied Courses**
2. **Academic Courses**
3. **Accelerated/Honors Courses**

In order for each student to stay on track while working towards their mathematics requirements, it is **critical** that he/she take their math courses in the **correct sequence** and with **proper foundation. A detailed flow chart of course sequence and prerequisite grades requirements can be seen on the back of this letter.**

Your son/daughter is currently taking AP Calculus AB with Mr. Smoyer.

A final grade of 90% (B) or better was required in ACCELERATED Trigonometry in order to meet the prerequisites of AP Calculus AB. Any student who failed to meet this requirement coming into the course will be at a disadvantage. The prerequisite process is in place to help guide students to the proper course selection so they have the required skills to be successful in the course sequence.

Please feel free to contact your child's classroom teacher, Mr. Jeremy Smoyer (smoyerj@nwlehighsd.org) or the Mathematics Department Chairperson, Mrs. Kelly Bleam (bleamk@nwlehighsd.org) with questions or concerns regarding your child's course of study.

Have a great School Year!
Northwestern Lehigh High School Mathematics Department

"Typical" Sequence Through Math Program

Below is a "flow-chart" that you can use to help guide your student through the math sequences that lead to requirements for graduation. *Listed below each course is the prerequisites to be enrolled in that particular course.*

Applied Courses	Academic Courses	Accelerated Courses
Algebra A	Academic Algebra 1	Academic Algebra 1
Algebra B ***Prerequisite:** Algebra A w/ 70%	Academic Algebra 2 ***Prerequisite:** Acad. Algebra 1 w/ 77% or Algebra A/B w/ 90%	Accelerated Algebra 2 ***Prerequisite:** Acad. Algebra 1 w/ 90%
Practical Geometry ***Prerequisite:** Algebra A/B w/ 70%	Academic Geometry ***Prerequisite:** Acad. Algebra 2 w/ 77%	Honors Geometry ***Prerequisite:** Accel. Algebra 2 w/ 90% or Acad. Algebra 2 w/ 95% & Teacher Recommendation
Applied Trigonometry ***Prerequisite:** Practical Geometry w/ 70%	Academic Trigonometry ***Prerequisite:** Acad. Geometry w/ 77%	Accelerated Trigonometry ***Prerequisite:** Honors Geometry w/ 90% or Acad. Geometry w/ 95% & Teacher Recommendation

In addition to the core courses above students do have several options for electives in their math studies. These courses are listed below along with their prerequisites.

Academic Calculus
Academic Trig w/ 86%
        or
Accelerated Trig w/ 77%

College Math
Academic Geometry w/ 77%

AP Calculus AB
Accelerated Trig w/ 90%

Probability and Statistics
Academic Algebra 2 w/ 77%

Programming I
Algebra A/B or Algebra 1
(concurrent)

Programming II
Programming I w/ 77%

AP Computer Science
Programming II w/ 90%
        and
Academic Geometry w/ 77%