

Independent Math Syllabus Outline

Ms. Jauregui – Lake Dallas High School

Fall 2025

Dear Parents and Guardians,

Welcome to Independent Math Studies at Lake Dallas High School! This syllabus outlines the course plan for your child's class this semester, including key topics, expectations, and how you can support their success. As required by Texas law (Senate Bill 12), this document serves as the instructional plan and is available for your review. I look forward to working with you and your child!

Contact Information

- **Teacher:** Ms. Jauregui
- **Email:** cjauregui@ldisd.net
- **Phone:** 940-497-4031
- **Conference Time:** 7th Period (1:25-2:10 PM) Monday - Friday
- **Best Way to Reach Me:** Email is always the best way to reach me on a consistent basis. I will respond by the end of the following school day.

Course Overview (Instructional Plan)

This course is set to be customized by students based on their interests and needs as students of mathematics. This semester your child will study the following topics in Mathematics, based on the standards set by the Texas State Board of Education in the Texas Essential Knowledge and Skills (TEKS):

- **Topic 1: Mathematicians**

- Learning topics: Various quotes from mathematicians and how they relate to students. (TEKS 1, 4, 6, 7)
- Activities: Quote reflection (Daily)
- **Topic 2: Basic Skills**
 - Learning topics: Exponent rules, factoring, rational expressions, radical expressions, solving equations (TEKS 1, 2, 3, 4, 5, 6, 7)
 - Activities: Delta Math activities, Test
- **Topic 3: Functions**
 - Learning topics: Domain and range, synthetic division, piecewise functions, function operations (TEKS 1, 2, 3, 4, 5, 6, 7)
 - Activities: Delta Math activities, test
- **Topic 4: Matrices**
 - Learning topics: Parts of a matrix, determinants and inverses, Cramer's Rule, matrix equations, augmented matrices, partial fraction decomposition (TEKS 1, 2, 3, 4, 5, 6, 7)
 - Activities: Delta Math activities, quiz, test
- **Topic 5: Sequences and Series**
 - Learning topics: Features of sequences, geometric sequences and series, arithmetic sequences and series (TEKS 1, 2, 3, 4, 5, 6, 7)
 - Activities: Delta Math activities, test
- **Topic 5: Trigonometry**
 - Learning topics: Trigonometric ratios, Law of Sines, Law of Cosines, trigonometric graphs, angle of elevation, angle of depression (TEKS 1, 2, 3, 4, 5, 6, 7)
 - Activities: Delta Math activities, test
- **Topic 6: Conic Sections**

- Learning topics: features of circles, features of ellipses, features of hyperbolas, features of parabolas, conic sections in the real world (TEKS 1, 2, 3, 4, 5, 6, 7)
 - Activities: Delta Math activities, test
 - **Topic 7: Mathematics in Future Careers**
 - Learning topics: Career exploration, mathematics use in different careers, math requirements for different degrees (TEKS 1, 2, 3, 4, 5, 6, 7)
 - Activities: Mini research project on how mathematics is used in different career fields
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Grading & Assignments

- **Grading:**
 - Major Grades (Quizzes and Tests): 40%
 - Minor Grades (Delta Math Assignments, quote reflections): 60%
 - **Assignments:**
 - Homework will be assigned regularly and will typically be due within a few days.
 - It is important for students to do their assignments on time as this course builds on prior knowledge every single day!
 - All assignments are intended to help students practice their skills or highlight connections between material we have learned or will be learning soon.
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Supporting Your Students

- **On a Regular Basis:**
 - Ask your student about what they learned in class
 - Check in with them to make sure they've completed all their daily assignments
 - Encourage them to try their best on all assignments and ask questions when they're stuck
- **If Their Grade is Less Than Ideal:**
 - Encourage and provide opportunities for your student to attend tutoring. This could include weekly tutorials or Falcon Library (more info about both can be found in my Canvas course).

- Check Skyward to see what grades may be lower or missing, and encourage your child to check in to see what can be done about them
- Make sure that any major grades (tests or quizzes) have been corrected and that corrections have been submitted on time
- Encourage your student to work through additional problems within their notes pages. I try to post fully-worked solutions to all note practice problems by the end of the day in Canvas.

Thank you for supporting your child's education! Feel free to contact me with questions.

Sincerely,
Ms. Jauregui