Honors Algebra II/Trigonometry

Department Contact Information

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DEPARTMENT MISSION

The mission of the Lisle mathematics department is to provide students with the mathematical concepts and skills necessary for success in college and the workplace. The instruction, tasks, and assessments are aligned with the Common Core State Standards and mathematical practices. Students will be encouraged to think and to make conjectures while persevering through challenging problems. They will be educated to be critical thinkers and collaborative problem solvers.

COURSE DESCRIPTION

This course is designed to build on algebraic and geometric concepts from Algebra 1 and Geometry, through student explorations and small group problem solving. The units of study are polynomials, rational and radical relationships, trigonometric functions, modeling with functions, inferences and conclusions from data. It also introduces matrices and their properties. The content of this course is essential for those who plan to continue their study of mathematics in both high school and college. A graphing calculator is required for this course.

COURSE LEARNING STANDARDS

Students will:

Perform arithmetic operations with complex numbers, use complex numbers in polynomial identities and equations, interpret the structure of expressions, write expressions in equivalent forms to solve problems, perform arithmetic operations on polynomials, understand the relationship between zeros and factors of polynomials, use polynomial identities to solve problems, rewrite rational expressions, understand solving equations as a process of reasoning and explain the reasoning, represent and solve equations and inequalities graphically, analyze functions using different representations, extend the domain of trigonometric functions using the unit circle, model periodic phenomena with trigonometric functions, prove and apply trigonometric identities, create equations that describe numbers or relationships, interpret functions that arise in applications in terms of a context, analyze functions using different representations, build a function that models a relationship between two quantities, build new functions from existing functions, construct and compare linear, quadratic, and exponential models and solve problems, summarize, represent, and interpret data on single count or measurement variable, understand and evaluate random processes underlying statistical experiments, make inferences and justify conclusions from sample surveys, experiments and observational studies, use probability to evaluate outcomes of decisions.

COURSE GRADING POLICY

Course Grade
85% - Summative Assessment
15% - Formative Assessment

Final Semester Grade
80% - Course Grade
20% - Semester Exam

Grading Scale
100-90 A   89-80 B   79-70 C   69-60 D   59-50 F

LATE WORK POLICY

Late work is accepted up until the unit assessment. The student shall receive no more than 50% credit for submitting late work.

COMMUNICATION WITH COURSE TEACHER(S)

Communication is vitally important. Teachers make every effort to respond to emails within 48 hours during the work week. If you have not received a response within 48 hours please resend your email and/or call their voicemail.

OTHER SUPPORT

Students should come in before or after school to get help from their teacher. The Learning Lions Center in the library is available before or after school or during their study hall period. This service is available Monday, Tuesday, and Thursday. Parents should actively monitor your student's grade on PowerSchool. Please talk to your child about their school work. Check with your individual teacher to learn more about classroom procedures and schedules.