



LISLE SENIOR HIGH SCHOOL

Geometry

Department Contact Information

Teacher	Email	Phone Number
Ron Jaegle	rjaegle@lisle202.org	630.493.8335
Erik Anderson	eanderson@lisle202.org	630.493.8334
Greg Henrichs	ghenrichs@lisle202.org	630.493.8336
April Sanko	asanko@lisle202.org	630.493.8331
Justin Smith	jsmith@lisle202.org	630.493.8333
Eric Woyna	ewoyna@lisle202.org	630.493.8332

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 intended to apply and utilize skills learned in Algebra 1. The units of study are congruence and constructions, similarity and trigonometry, three dimensional figures, coordinate geometry, circles with and without coordinates, and probability with reasoning and proof integrated throughout the year. This course is a pillar in the understanding of mathematics as a spatial concept and is critical to understanding higher level mathematics. A graphing calculator is recommended for this course while a scientific calculator is required.

COURSE LEARNING STANDARDS

Students will:

Experiment with transformations in the plane, understand congruence in terms of rigid motions, prove geometric theorems, make geometric constructions, understand similarity in terms of similarity transformations, prove theorems involving similarity, define trigonometric ratios and solve problems involving right triangles, apply geometric concepts in modeling situations, apply trigonometry to general triangles, explain volume formulas and use them to solve problems, visualize the relation between two-dimensional and three-dimensional objects, apply geometric concepts in modeling situations, use coordinates to prove simple geometric theorems algebraically, translate between the geometric description and the equation for a conic section, understand and apply theorems about circles, find arc lengths and areas of sectors of circles, translate between the geometric description and the equation for a conic section, use coordinates to prove simple geometric theorems algebraically, apply geometric concepts in modeling situations, understand independence and conditional probability and use them to interpret data, use the rules of probability to compute probabilities of compound events in a uniform probability model, and use probability to evaluate outcomes of decisions.





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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 chapter 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.

