



Geometry at Deerstream

Geometry is a building block of higher-level mathematics and it is also a prerequisite for entry to the Durham Tech Middle College program. From the Saxon Geometry curriculum, which is used in this course, “Geometry includes all topics in a high school geometry course, including perspective, space, and dimension associated with practical and axiomatic geometry. Students learn how to apply and calculate measurements of lengths, heights, circumference, areas, and volumes. Geometry introduces trigonometry and allows students to work with transformations. Students will use logic to create proofs and constructions and will work with key geometry theorems and proofs.” Students will be expected to complete homework throughout the week and take initiative to ask questions and seek help as needed. Geometry is a high school level course, and parents will be provided with a course description for the child’s transcript.

Curriculum: Saxon Geometry

Schedule: Geometry will meet on **Monday and Wednesday afternoons from 1-2:15** at the Chapel Hill Bible Church from September 11-May 8 (minus scheduled breaks) each week for lecture, explanations, and practice. An optional Zoom session (recorded for those who cannot attend) will be provided midweek for students to ask questions and get help and clarification.

Attendance and Pacing: Each class will cover a large amount of material, so attendance is crucial for student success. Barring exceptional circumstances, students who miss 5 or more sessions over the course of the year will not be assigned a final grade. Students who miss class are expected to make up missed work.

Student Expectations: Geometry is a high school level class, and students must be able to function with high school level maturity in their academics as well as in organization, class participation, and work completion. In class, they will be expected to attend carefully to instruction, participate actively, and take notes as needed. Middle school students may take this course for high school credit provided they display readiness in all areas.

Students are expected to complete 4-5 hours of work at home throughout the week. They will be responsible to check their own answers, identify the need for help, and seek out that help. The ability to work independently and with persistence is a crucial key to success in this course.

Parent Expectations: Parents agree to provide supervision as needed throughout the course. Some students will need more assistance than others. In most cases, parents should be prepared to begin the year with a high level of involvement that may decrease as the year progresses. Parents may purchase a published series of video lectures that will provide review and reinforcement throughout the week if desired.

Prerequisites and Placement: In general, **students entering Geometry should be 13 by August 31.** Students considering Geometry should be currently participating successfully in an Algebra 1 curriculum.

Please consider carefully whether your student is ready for this course, as the annual tuition is nonrefundable. If you are unsure about your child’s placement, contact the instructor before you register.

Grades and High School Credit: Algebra 1 is a one credit high school level class, so formal assessments will be conducted and students will receive grades that take into account homework, classwork, and tests.

Instructor: *Lara Hall will begin her tenth year at Deerstream. After receiving her Bachelor’s in Physics and 9-12 Education at UNCA, she taught high school science for several years in Asheville, including various levels of Physical Science and Earth Science. Later, she completed her Masters in grades 6-9 mathematics. She moved to this area in 1999 where she taught Physics and Physical Science in Chatham County. She began the homeschooling journey after having children and has loved it! She started at Deerstream in 2006 and both of her sons went all the way through. She’s grateful to have many treasured memories from the perspective of both parent and teacher.*