* **Course Description:**

This course is a survey of the fundamental and advanced concepts of plane geometry and the related topics in three-dimensional geometry, coordinate geometry, and transformational geometry. The content begins with necessary introductory vocabulary and continues with algebraic and geometric proofs based on an axiomatic system. Applications of the theorems are utilized gain to help students grasp an understanding of how geometry is used in different careers. Successful completion prepares a student for further work in Algebra II. (Prerequisite: Algebra I with a grade of “C” or better recommended)

* **Hyperlink to State Standards:** [**http://www.tennessee.gov/assets/entities/education/attachments/std\_math\_geometry.pdf**](http://www.tennessee.gov/assets/entities/education/attachments/std_math_geometry.pdf)
* **Topics:**

###### 1. Essential Geometry Tools – reasoning and proof, parallel and perpendicular lines, and vocabulary.

###### 2. Understanding Transformations

###### 3. Triangles and Triangle Congruence

###### 4. Quadrilaterals

###### 5. Similarity

###### 6. Trigonometry

###### 7. Circles

###### 8. Extending to Three Dimensions

* **General Pacing:**

Module pacing will depend on content and mastery. Each module will be completed in 1-3 weeks, which includes two days for review and assessment.

* **Materials Needed:**

 1. Three-ring (1/2 or 1-inch) binder or folder

 2. Spiral notebook

 3. Pencils – please avoid using pens in class

 \*\*\*Students unprepared for class may borrow a pencil by providing their phone as collateral.

 4. TI-83 Plus or TI 84-Plus calculator. There will be a set of calculators available for in-class use only. \*\*\*Therefore, a student is *not* required to purchase his or her own calculator.

 5. Two white board markers for personal use

* **Fees:**

There is no fee for this course.

* **Resources**
	+ School-Based: Textbook - Prentice Hall Geometry, Tennessee Edition
	+ Outside: Discovery Education videos, Illuminations Lessons (<http://illuminations.nctm.org/>), <http://robertkaplinsky.com/lessons/> , Knox County suggested sites, and other math websites.

As a guardian of your student, if you do not approve of a specific resource listed in this syllabus, please make your request to me in writing and an alternative assignment and/or materials will be provided.

* **Grading Policy**
	+ Grading will be done on a total points system. Your grade will be calculated by dividing the number of points you have earned by the total points possible. Seventy five percent of your grade will be based on assignments, quizzes, and tests. The other twenty five percent will be the State-Wide End of Course Exam (TNReady).
	+ Rubric:
		- 25% State-Wide End of Course Exam – Please ensure your student’s attendance
		- 75% Determined by the Following Categories and Point Allocations:
			* Tests 50-100 points
			* Quizzes 10-20 points
			* Homework/In class work 2-3 points
* **All assignments will be completed with care and concern. Any work that is not done to the best of a students’ ability will NOT be accepted.**
* A student has three days to complete and turn in a *missing* assignment. After three days, the highest grade that may be earned for this assignment is a 50%.
	+ Grading Scale

A: 93-100%

B: 85-92%

C: 75-84%

D: 70-74%

F: Below 70%

* According to Knox County Policy, a grade of C or better is required at the end of the course to advance to the next sequential mathematics class.
* **Make-Up Work Policy/Late Work Policy**

You must make up all missed work promptly and come in during tutoring times for extra help and /or to make up tests or quizzes. The responsibility lies with the student to request any make-up assignments. Students have **three days** from the day they return to school to request *and* turn in make-up work. Any work that was collected on the day of the absence is due the day the student returns to school. After-school tutoring sign-up sheets will be available for students.

* **Re-Do Policy**

The redo policy applies to attempted work, not to be confused with missing work. If a student feels the need to re-do an assignment they will have that opportunity. A re-done assignment will have a maximum value of 90%. Before being allowed to re-do an assignment the student must first have tutoring of some type. The assignment may not be exactly like the original assignment and must be done outside of regular class time (such as during tutoring). There are some exclusions to this re-do policy, such as: End of Course Exams, labs, performances, or any other assignment specified by the teacher ahead of time.

* **Students:**
* **Expectations:**
	+ Be here, on time, and on task
	+ Be prepared
	+ Be respectful
	+ No food or drink is allowed in the classroom.
	+ Follow all Carter High School and Knox County Schools policies
* **Classroom Policy/Procedures**
* Time will be provided in class to ask questions on every homework assignment
* There will be times when there is an opportunity to study or work on homework during class – do not abuse this time.
* A limited number of bathroom passes are available during independent work time, so long as they are not abused. Unused bathroom passes may be used as extra credit at the end of the semester.
* You will be assigned a calculator to use during class time. You are responsible for it during that time. It is an expensive piece of equipment that requires careful handling.
* Cell phones or other electronic devices are not to be seen or heard during class time. By reading and signing the syllabus contract, you are accepting this as a first warning. If a cell phone or mp3 player is out or in use, I will assume you are using it and this will result in a write-up.
* Tardies will be handled according to school policy. A student will be considered tardy if he or she is not inside the classroom and in his or her seat before the tardy bell rings.
* Sleeping is not allowed in class. The first time is a warning, the second incident the student will stand for 5 minutes, and the third incident in a class period will result in a write-up.
* Please advise me of any information I may need to know about you.
* You are responsible for any books or supplies that are assigned to you.
* **Honor Code**
* Students are to be respectful of others, both fellow students and authority. To behave in such a way as to make discipline consequences unnecessary. Reminder – more than ten minutes late or leaving class early – makes an absence. Do not leave your seat until the bell rings and you are dismissed.
* Be responsible for taking notes and turning in all work on time. Assignments are to be dated. Assignments will be turned in when completed.
* Students caught cheating on quizzes and exams will receive a grade of 0 with no chance of re-doing the assignment. Students’ parent/guardian will also be notified and a discipline referral will be sent to the appropriate grade-level principal.
* **Teacher:**
* I may be contacted through school fusion, by email: marcia.fawver@knoxschools.org, or by phone 933-3434.
* Tutoring is available before school as well as during enrichment. A student only needs to let me know they are coming. Please ask for help immediately if your child seems confused or lost at any point during the semester
* Please use Parent Portal on the Carter website, <http://carterhs.knoxschools.org>. You can monitor your student’s grades, set up alerts, and email me. I will update grades at least once per week.

\*\*\*Please sign and have your student return the attached sheet stating that you have read and understand the classroom policies and procedures. Additionally, this sheet will provide me with the most convenient way to contact you. If you have any questions or concerns at this time, please feel free to list them at the bottom of this sheet, call, or e-mail me at any time. Thank you for your time and I look forward to a great semester here at Carter High School.

Sincerely,

Marcia Fawver, Ed.D.

Team Master Teacher

I, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (student name), have read and understand the classroom, Carter High and Knox County policies and the expectations of my students.

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(Student Signature)

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

(Parent/Guardian Signature)

Parent contact information:

Parent name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Phone \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Email address \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Best time for contact \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

List any concerns below: