# 2016-2017 COURSE SYLLABUS
**GSE GEOMETRY**

**Teacher:** Ms. V. E. Watts
**Room Number:** 341
**Semester:** Fall 2016
**Textbook: Geometry**

**Phone Number:** 404.802.3100
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**Tutorial Days**: Wednesdays
**Tutorial Hours**: 3:45pm – 4:45pm
**Tutorial Location**: Room 341

**Course Description:**
Geometry is the second course in a sequence of three required high school courses designed to ensure career and college readiness. The course represents a discrete study of geometry with correlated statistics applications. It is a state requirement for graduation.

**Prerequisite:** Successful completion of Algebra.

**Course Content Standards:**
Please refer to the following link for all of the course standards.
https://www.georgiastandards.org/Georgia-Standards/Frameworks/Geometry-Standards.pdf

**Course Outline:**

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| **Unit 1** | **Transformation in the Coordinate Plane**<br>Building on standards from middle school, students will perform transformations in the coordinate plane, describe a sequence of transformations that will map one figure onto another, and describe transformations that will map a figure onto itself. Students will compare transformations that preserve distance and angle to those that do not. |
| **Unit 2** | **Similarity, Congruence, and Proofs**<br>Building on standards from Unit 1 and from middle school, students will use transformations and proportional reasoning to develop a formal understanding of similarity and congruence. Students will identify criteria for similarity and congruence of triangles, develop facility with geometric proofs (variety of formats), and use the concepts of similarity and congruence to prove theorems involving lines, angles, triangles, and other polygons. |
| **Unit 3** | **Right Triangle Trigonometry**<br>Students will apply similarity in right triangles to understand right triangle trigonometry. Students will use the Pythagorean Theorem and the relationship between the sine and cosine of complementary angles to solve problems involving right triangles. |
| **Unit 4** | **Circles and Volumes**<br>Students will understand and apply theorems about circles, find arc lengths of circles, and find areas of sectors of circles. Students will develop and explain formulas related to circles and the volume of solid figures and use the formulas to solve problems. Building on standards from middle school, students will extend the study of identifying cross-sections of three-dimensional shapes to identifying three-dimensional objects generated by rotations of two-dimensional objects |
| **Unit 5** | **Geometric and Algebraic Connections**<br>Students will use the concepts of distance, midpoint, and slope to verify algebraically geometric relationships of figures in the coordinate plane (triangles, |

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| | quadrilaterals, and circles). Students will solve problems involving parallel and perpendicular lines, perimeters and areas of polygons, and the partitioning of a segment in a given ratio. Students will derive the equation of a circle and model real-world objects using geometric shapes and concepts. |
| **Unit 6** | **Applications of Probability**<br>Students will understand independence and conditional probability and use them to interpret data. Building on standards from middle school, students will formalize the rules of probability and use the rules to compute probabilities of compound events in a uniform probability model. |

**Evaluation and Grading:**

| Course Components | Weights |
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| **Learning Skills** (interactive notebook and executive function skills including, timely assignment completion, organization, sustained attention) | 10% |
| **Classwork and Participation** | 30% |
| **Homework** | 10% |
| **Lesson Quizzes** | 20% |
| **Unit Tests (or Performances)/Projects** | 30% |
| **TOTAL** | **100%** |

| Grading Scale | |
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| 100-90 | **A** |
| 89-80 | **B** |
| 79-70 | **C** |
| 69-0 | **F** |
| Not Evaluated | **NE** |

**Campus Portal for Parents and Guardians:** Visit https://ic.apsk12.org/portal to view class schedules, attendance records and grades. To activate your account, visit the school to receive your login (activation key).

**Required Materials:**
100 page composition book, pencils, scientific calculator, lined paper, graph paper, highlighters, markers, colored pencils, and tape.

**Classroom Expectations**:

| **Behavioral Expectations** |
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| 1. Follow all school and class directives |
| 2. Come to class on time. |
| 3. Come to class with all materials to be successful. |
| 4. No disrespectful behavior. |

**Important Notes**

1. **NO food, candy, sugary drinks etc. are to be consumed during class.**
2. **Personal electronic devices should neither be seen nor heard. (see the Student Handbook)**

**Positives**
For students that exemplify exceptional behavior, attendance, and academics you will be given an Astro Coupon that may be submitted for prizes and treats.

**Consequences**

| **These consequences apply for each infraction. All infractions will be addressed according to APS and Georgia Department of Education guidelines** |
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| 1. Verbal warning. |
| 2. Teacher-student mini-conference. |
| 3. Alternate Setting, and/or Last One Out with parent contact and detention. |
| 4. Administrative referral. |

**Severe Infractions**

*These infractions warrant immediate removal from the classroom and an administrative referral.*

1. Verbal/Physical harassment or assault.
2. Bullying or "picking on" a classmate(s).
3. Intentional defiance or disruptions of the class progress.
4. Chronic behavioral disruptions

**Other Expectations**

1. During class time you are responsible for your own work.
2. You must ask three before me.
3. When you have a question it must be specific, and directly related to where you have a mathematical cognitive disconnect. Questions similar to "how do you do this?" and "is this right?" are unacceptable because all assignments follow directly from previously covered or exemplified problems. More appropriate questions would be "Can I walk you through my mathematical process?", "Could you show me the method I should use to complete…?", "Is there another mathematical method I can use to solve this problem?

**Classroom Procedures**

1. Must be seated within five minutes of class starting.
2. Warm Up must be completed within the first ten minutes of class
3. "If I write, you write!" If I think it is important enough to write on the board or display on the Promethean Board then it is important enough to put in your notes.
4. You must do all math work in pencil.
5. You must box all final math answers.
6. If you are absent then it is your responsibility to determine what you missed and what to turn in to me.
7. Make up work is handled via the APS Board of Education policy. (see the Student Handbook)
8. Extra credit is often awarded randomly via the course of the class time for various assignments or activities. There will be no mass make up package.

**Resources:**

Students are encouraged to study and maintain an interactive student notebook (1 or 2 inch binder) for future reference. Students, as well as, parents and guardians are encouraged to visit the state website for a detailed list of objectives and indicators of mastery www.doe.k12.ga.us. Please go to www.aleks.com for extended practice, teacher will issue usernames and passwords.

**LATE ASSIGNMENTS:** It is important that students are responsible and meet established due dates for assignments. Late is defined as anytime work is submitted after the assignment has already been collected by the teacher.

**MAKE-UP AND MISSING ASSIGNMENTS:** Students with an excused absence will be expected to submit missed work on or before the third class meeting after the absence. Pre-announced assignments are due upon return to school.

**School-wide Expectations**:

**DEFICIENCY REPORTS:** Parents and guardians are informed when students are making unsatisfactory progress in classes. Poor performance will be reported to parents and guardians as soon as problems are evident. Deficiency reports with plans for remediation will be written for all students making unsatisfactory progress, and parent-guardians conferences must be scheduled. Unsatisfactory grades should never come as a surprise to parents, guardians, or students. Teachers will:

- Contact parents and guardians early in the semester if academic, attendance, or behavioral difficulties are apparent.
- Notify the counselor, SST/RTI Chair, and the academy leader of serious problems that are affecting classroom performance.

**ATHLETIC ELIGIBILITY:** Students wanting to participate in athletic programs governed by the GHSA and extracurricular activities must meet eligibility requirements to participate. The Athletic Director (and the Extracurricular Activities sponsors) will collaborate with teachers to monitor and to identify students in danger of failing courses. All faculty members will be given a master list of students participating in extracurricular activities and athletics under the auspices of the GHSA.

Students are encouraged to study and maintain an interactive student notebook for future reference. Students, as well as, parents and guardians are encouraged to visit the state website for a detailed list of objectives and indicators of mastery www.doe.k12.ga.us. Please go to www.aleks.com for extended practice, teacher will issue usernames and passwords.

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**Student Signature and Date** **Parent-Guardian Signature and Date**

Please email me with a subject of "Syllabus Returned".

ktatum@atlanta.k12.ga.us