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**Geometry Email:** [**dowda@wlwv.k12.or.us**](mailto:dowda@wlwv.k12.or.us)

**Room: B105 Office Hours: 7:45-8:15a, Lunch**

**Course Description:** This course covers the following concepts: parallel and perpendicular lines, properties and measurement of circles and polygons, transformations, similarity, basic trigonometry, and surface area and volume of 3-dimensional shapes.

**Major Units:**

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| Chapter 1/2 Tools of Geometry  Chapter 3 Parallel and Perpendicular  Lines  Chapter 4 Transformations  Chapter 5 Congruent Triangles  Chapter 6 Relationships Within Triangles    (Constructions) | Chapter 7 Quadrilaterals and Polygons  Chapter 8 Similarity  Chapter 9 Right Triangles and Trigonometry  Chapter 10 Circles  Chapter 11 Circumference, Surface Area, Volume  Chapter 12 Probability (Snow Days Permitting) |
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**Learning Goals and objectives:** Upon completion of this course, students will be able to

* Make and test conjectures, follow logical arguments, construct arguments and discuss the validity of those arguments.
* Communicate mathematical ideas using appropriate mathematical language and symbolism.
* Indirectly measure 1, 2, and 3 dimensional geometric figures.
* Determine if two geometric figures are similar, congruent or neither.
* Use sine, cosine, and tangent to solve right triangles.
* Use coordinate geometry in their analysis and proofs of geometric figures.

**Standards of Mathematical Practice:**

The student will:

* Make sense of problems and persevere in solving them.
* Reason abstractly and quantitatively.
* Construct viable arguments and critique the reasoning of others.
* Model with mathematics.
* Use appropriate tools strategically.
* Attend to precision.
* Look for and make sense of structure.
* Look for and express regularity in repeated reasoning.

*All math courses are designed to meet the requirements of the WLWV Mathematics Curriculum and the Common Core State Standards.*

**Grading Policy:** Grades will be assigned as follows:

**Grading Cutoffs: Grading Breakdown:**

## A: [100, 90] Tests 45%

## B: (90, 80] \*Quizzes/Projects 20%

C: (80, 70] Homework/Class work: 20%

D: (70, 60] Final Exam 15%

F: (59, 0]

**\*Quiz Policy: Quizzes will be taken the day that they are scheduled, regardless of prior absences. If you miss a quiz on the scheduled day, you may not make it up and it will be given a “no grade” in the grade book. Students who take the quiz on the scheduled day have the option to replace their quiz score with their test score in the same unit if their score is better on the test than on the quiz.**

**~ Late homework will be accepted on or before the chapter test day for 80% credit at most and will not be accepted after the chapter test for the unit has been given.**

**Class Preparedness/Supplies:** Students must come to class prepared to learn.

* Calculators are required for daily use (graphing calculators TI-84 are recommended)
* ***Graphing Spiral Notebook and pencils*** are required to complete daily notes and assignments.
* ***Colored pens and 6 different colored highlighters*** for note-taking.
* Books are provided for in class use only. A access code will be given for an online version of the textbook for at-home or mobile use.
* ***1-inch three-ring binder*** for organizational use of hand outs, assignment logs, and quizzes.
* ***Protractor, scissors (non-safety), plastic clear ruler to be donated to class supplies.***

**Homework:** Homework/classwork is assigned on a daily basis and will be corrected the next class period. In order to be successful, it is critical to practice new ideas and concepts. Homework is graded on a scale of 1 to 5 and will be graded on completion, effort, and demonstration of techniques rather than correctness. Homework must show complete work in order to earn full credit. *If an excused absence occurs, students have one day per missed class to turn in assignments.*

**Policies:** In order to have a successful and safe learning environment the following policies will be enforced:

* Act with kindness
  + Be respectful to each other, the teacher and to the things in the room. This includes putting cell phones away when entering the room and not taking them out until teacher allows.
  + Do not write or doodle on desks.
* Work together
  + This course emphasizes collaboration: class discussions, group work, and pair-sharing. There is a lot to be learned from your peers and having the opportunities to articulate, challenge, and defend ideas will strengthen every individuals mathematical understanding. We are all in this together, so let’s work together.
* Electronic Devices
  + Cell phones are a modern fact of life. I ask that you keep your phone in the cell phone holder unless instructed to use your phone for classroom purposes. I WILL USE THE CELL PHONE HOLDER TO TAKE ATTENDANCE, SO PLACE YOUR PHONE IN YOUR DESIGNATED NUMBERED SPACE UPON ARIVIAL TO THE CLASSROOM.
  + **Website:** If you miss class, please check the website calendar for the daily homework to see what you have missed. You will need to get a copy of the class notes the following day from either the teacher or another student, as well as check the class bin for required daily handouts.

**Additional Support:** Further academic support is offered through the academic center located in the ERC, above the counseling office, appointments are not needed. If at any point you wish to get a private tutor your guidance counselor can provide you with a district approved list.