

MA 062: Geometry II
Alabama School of Math and Science
Classroom/Office: S201
Web site: mathemartiste.com
Office Hours: Mon, Tue, Wed, Fri 10:00-10:55 (3rd per), Mon 3:45-4:40 (9th per), Tue 1:45-2:40 (7th per)
Math Lab (free tutoring): Sunday-Thursday 6:30-8:30pm in S305
Khan Academy Coach Code: JH534ZNG

Spring 2018 Syllabus
Instructor: Sarah Brewer
Office Phone: 251.441.2127
Email: sbrewer@asms.net (best way to contact me)

Course Description: Geometry II involves Euclidean Geometry of the circle and associated concurrence theorems, the study of analytic geometry of the various conic sections, and an investigative approach to the study of elementary topology, fractal geometry and non-Euclidean geometry. Prerequisite: MA061.

Text: Harold R. Jacobs, *Geometry: Seeing, Doing, Understanding*, 3rd ed.

Coverage: Chapters 9-16

Grade determination: Grades will be assigned based on total points earned out of total points possible. Homework assignments and tests will be posted on Netclassroom. Khan Academy assignments will be given regularly. It is the student's responsibility to check these daily to make sure they are not missing anything. Grades will be posted on Netclassroom.

Tests/Exams are worth approximately 100 points each, and may include questions from any of the material covered prior to the test date. For test dates, see schedule on last page (tests are roughly every 2 weeks at the end of each week; plan accordingly). The final exam is worth 200 points.

Homework assignments typically range in point value from 5-20 points, and should be labeled neatly with your name, date, textbook chapter & section and/or video title as relevant, and problem numbers. Since many textbook problems assigned will be odd-numbered, students should check their own work for accuracy and ask the instructor or Math Lab proctors to check even-numbered problems. Credit will not be given for answers copied from the back of the book or from another student. Show all of your own work.

Quizzes will be given almost daily during the first five minutes of class, and will be a combination of theory (rules, definitions, and formulas) and problems similar to and/or directly from homework assignments.

Make-up policy: Any homework, quizzes, or tests missed due to unexcused absences will receive a grade of zero. Homework assigned during a student's absence must be turned in within three days of the student returning to class. If a student misses a quiz or test with an excused absence and a make-up assignment is available, it must be made up within 3 days of a student's return to class. Arrangements to make-up tests must be done BEFORE the test is missed. In case of unexpected illness, this can be done via email. Note: make-up assignments will, in general, be more difficult than the original.

Cell phone policy: Phones should be SILENT or OFF (not on vibrate) and away. I reserve the right to confiscate any phone that I deem a distraction. Use of cell phones during quizzes or tests will be considered academic dishonesty and result in a grade of zero. Cell phones, along with other personal belongings (including smart watches), will be placed at the front of the classroom during tests/exams. Occasionally, we may use smartphone apps in class, but phones should remain away unless otherwise specified.

Attendance and Tardiness Policy: Three tardies count as one unexcused absence. A student with three unexcused absences may be assigned a grade of WF for the course. Students are responsible for acquiring any missed notes and assignments.

Calculators: Calculators will not be allowed at all on most assignments in this class. When calculators are allowed, students will have in-class access to both scientific (TI-36 X Pro) and graphing (TI-nSpire CX CAS) calculators, and will be assigned a number corresponding to the calculators they are to use throughout the term. For any out-of-class assignments requiring calculator use, students are encouraged to utilize wolframalpha.com and desmos.com.

Tutoring: All students are encouraged to attend my weekly Office Hours and the evening student-run Math Lab for help with homework and studying. Even if you do not have a specific question about the material, come by and work on your homework free from distractions and with math experts nearby to help. When you come, make sure you have both your notebook and textbook with you, and that you have at least attempted the problems and/or tried to read the relevant section of your textbook. The primary goal of tutoring is to help you figure out the answers for yourself, not to give you the answer, but if you get stuck, please speak up, even if a Math Lab proctor or myself are helping another student.

Geometry II - Tentative Schedule

Week 1 – Feb 25 – Mar 01 (3/01 is short day)

- Ch 9 – Area

BREAK – Mar 4-8

Week 2 – Mar 11-15

- Ch 10 – Similarity

Week 3 – Mar 18-22 (Jury Duty)

- **Test #1**
- Ch 11 – The Right Triangle

Week 4 – Mar 25-29

- Ch 12 - Circles

Week 5 – Apr 1-5

- Ch 13 – The Concurrence Theorems
- **Test #2**

Week 6 – Apr 8-12 (4/10 is 2nd grade posting)

- Ch 14 – Regular Polygons and the Circle

BREAK – Apr 15-19

Week 7 – Apr 22-26 (4/24 is ACT for Juniors)

- Ch 14 – Regular Polygons and the Circle
- **Test #3**

Week 8 – Apr 29 – May 3

- Ch 15 – Geometric Solids

Week 9 – May 6-10 (5/08 is 3rd grade posting)

- Ch 15 – Geometric Solids
- **Test #4**

Week 10 – May 13-17 (5/17 is short day/last day of classes)

- Ch 16 – Non-Euclidean Geometries

FINAL EXAMS – May 20-22