Syllabus For Math 222, Section 001
Spring 2015

Instructor: Ronda Sanders
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Office: 300G LeConte
Phone: 777-7449
Office Hours: MWF 9-10 AM, TTh 1-2 PM

Meeting Place and Time: LC 101 MWF 1:10PM-2:00PM

Course Webpage: http://people.math.sc.edu/sanders/222/

Prerequisites: Grade of C or better in Math 221 or Math 111/115 or placement above Math 111 on the Algebra Placement Test.


Required Materials: Textbook, scientific calculator, compass (a good one with a wheel), ruler, $10

Learning Outcomes: Upon successful completion of this course, students should be able to:

- Recall basic mathematical terms and definitions related to elementary algebra and geometry.
- Apply the methods of algebra and geometry to solve problems involving angles, polygons, similar triangles, right triangles, area, surface area, and volume.
- Make linear, area, and volume conversions using the metric and English systems of measurement. Be able to demonstrate these conversions using unit ratios or dimensional analysis.
- Utilize a compass and straight-edge to construct a congruent line segment, a congruent angle, a congruent triangle using the SSS, SAS, or ASA properties, an angle bisector, the perpendicular bisector of a line segment, perpendicular or parallel lines, and for a given triangle, construct an inscribed or circumscribed circle.
- Utilize paper-folding to construct an angle bisector, the perpendicular bisector of a line segment, perpendicular or parallel lines, and for a given triangle, construct an inscribed or circumscribed circle.

Note: This is NOT a methods course and while we may explore a few different methods for teaching geometry, the main purpose of this course is to provide a solid foundation of mathematical knowledge and content.

Tests: There will be three tests and a cumulative final exam. The tentative dates for these are as follows:
Test 1: Monday, February 16
Test 2: Monday, March 23
Test 3: Monday, April 20
Final: Friday, May 1

Note: The final exam schedule is set by the university.
12:30PM LC 101

Make-up exams will generally NOT be given. I may make exceptions for documented illness/family emergency. Those with acceptable excuses must contact me within 24 hours of the scheduled exam time to schedule a make-up.

Pen Pal Journals: Our pen pals will be local elementary students. We will be corresponding weekly, and you will be graded not only on content but also promptness of pick-up and return. You will not be able to turn in late journals. There will be a Pen Pal project at the end of the semester. (Your $10 will cover the cost of a T-shirt for your pen pal(s) and will be collected around Spring Break.)
Attendance and Participation: Regular attendance and participation is expected. In accordance with University policy, a letter grade may be deducted for each 10% of classes missed.

Withdrawal: Any student wishing to withdraw from class should do so by Thursday, March 5. Students dropping after this date will receive a WF for the course.

Homework, Worksheets, and Quizzes: Homework will be assigned daily and students are encouraged to complete (or at the very least attempt) every assignment. Homework solutions are posted on Blackboard. Worksheets will be collected and graded. Late worksheets will NOT be accepted. Quizzes will be given weekly and will be based on the homework and worksheets. No make-up quizzes will be given.

Note: Worksheets will be posted on Blackboard and the course webpage. It will be the student’s responsibility to print and complete the worksheet by the due date. If you do not attend class that day, you may scan and email your worksheet to me before solutions have been posted. The lowest quiz or worksheet grade will be dropped regardless of excuse. If you have legitimate excuses for missing more than one quiz or worksheet, please come talk to me.

Typical Weekly Schedule: A typical week will look like this:

- **Monday**: Worksheet distributed via Blackboard/Course Webpage
- **Friday**: Worksheet due at the beginning of class. Solutions posted on Blackboard at 5pm.
- **Monday**: Quiz

Grading:

<table>
<thead>
<tr>
<th>Component</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quizzes/Worksheets</td>
<td>100</td>
</tr>
<tr>
<td>Pen Pals</td>
<td>50</td>
</tr>
<tr>
<td>3 Tests</td>
<td>100 pts</td>
</tr>
<tr>
<td>Final</td>
<td>150</td>
</tr>
</tbody>
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Total: 600 pts

Letter grades will be given according to the following scale:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Percentage</th>
</tr>
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<tbody>
<tr>
<td>A</td>
<td>90-100</td>
</tr>
<tr>
<td>B+</td>
<td>85-89</td>
</tr>
<tr>
<td>B</td>
<td>80-84</td>
</tr>
<tr>
<td>C+</td>
<td>75-79</td>
</tr>
<tr>
<td>C</td>
<td>70-74</td>
</tr>
<tr>
<td>D+</td>
<td>65-69</td>
</tr>
<tr>
<td>D</td>
<td>60-64</td>
</tr>
<tr>
<td>F</td>
<td>below 60</td>
</tr>
</tbody>
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Additional Help: For (free!) additional assistance, visit the math lab on campus. Tutors will be there to answer most questions. The lab is located in LC 105 and the schedule should be posted on the door. I also encourage you to come by my office. Do not wait until you are completely lost to seek assistance!

Academic Honesty: Cheating in class on quizzes and tests is a serious offense. Any student caught cheating will receive an F for the course and may be suspended for one semester. For more information concerning academic dishonesty, you can find the University Honor Code online at http://www.sc.edu/academicintegrity/

Cell Phones: In accordance with CAS policy, I will ask that all cell phones be turned off (or at the very least be put on vibrate) during class. Also, please refrain from texting during class - it is disrespectful and distracting. **Your cell phone should not be out at any point during a test or quiz.**

Laptops: The use of any laptop during class is prohibited. (If you feel you can justify using your laptop during class, come talk to me.)