Math 3703: Geometry for P-8 Teachers
Section 91; Summer Semester 2017

Instructor: Brian Brodsky
Office: Boyd 106 C
Phone Number: 678-839-5313
Email: bbrodsky@westga.edu (Please do not send email via CourseDen)
Office Hours: TR 9:30am – 10:30am
Class Meetings: TR 11:00am – 1:30pm

Courses Description: This course has a special emphasis for teachers of grades P-8. It broadens understanding of logic, real numbers, basic and transformational geometry, measurement, including the metric system, problem solving, methods and materials for teaching at the P-8 level.


Learning Outcomes: Students will:

- Deepen their understanding of geometric vocabulary, notation, and symbols.
- Expand their understanding of fundamental geometric concepts including geometric shapes & figures, measurement, similarity & symmetry, non-Euclidean geometries, and fractals.
- Use geometry to problem solve in multiple contexts.
- Communicate geometric ideas and concepts effectively and successfully.
- Become familiar with mathematics education journals and other resources.
- Establish personalized reform-based visions for promoting geometric reasoning.

Grade Composition:
- 15%: Individual Presentations
- 35%: Daily Portfolio Entries
- 25%: Midterm Portfolio Check
- 25%: Final Portfolio Check
- A ≥ 90 > B ≥ 80 > C ≥ 70 > D ≥ 60 > F

CourseDen: Course materials will be posted on CourseDen. Please check CourseDen often for updates. You may log in to CourseDen at www.westga.edu or http://webct.westga.edu. If you are having problems logging into CourseDen, please go to http://uwgonline.westga.edu/students.php or call 678-839-6248

Disabilities: Students with documented disabilities (through West Georgia’s Accessibility Services) will be given all reasonable accommodations. Students must take the responsibility to make their disability known and request academic adjustments or auxiliary aids. Adjustments needed in relation to test-taking must be brought to the instructor's attention well in advance of the test (at least one week prior).
**Academic Honesty:** You are expected to achieve and maintain the highest standards of academic honesty and excellence as described in the Undergraduate Catalog. In short, be responsible and do your own work.

**Classroom Conduct:** Students are expected to be respectful and mindful of each other. Students disturbing or interfering with instruction will be asked to leave.

---

**Math 3703; Geometry for P-8 Teachers**  
**Summer 2017**  
**Course Schedule**

**June**

<table>
<thead>
<tr>
<th>Class Meeting</th>
<th>Topics</th>
<th>Assignments</th>
</tr>
</thead>
<tbody>
<tr>
<td>6/01</td>
<td>Course Introduction</td>
<td>50 Curiosities/Inquiries</td>
</tr>
<tr>
<td>6/06</td>
<td>Right Triangle Trigonometry</td>
<td>Daily Portfolio Entry</td>
</tr>
</tbody>
</table>
| 6/08          | Problem Solving  
|               | Basic Notions (11.1) | Daily Portfolio Entry |
| 6/13          | Curves, Polygons, and Symmetry  
|               | More about Angles | Daily Portfolio Entry |
| 6/15          | Geometry in Three Dimensions | Daily Portfolio Entry |
| 6/20          | Congruence through Constructions  
|               | Additional Theorems | Daily Portfolio Entry  
|               | Submission for Class-Wide Annotated Bibliography  
|               | Midterm Portfolio Check |
| 6/22          | Additional Constructions  
|               | Similar Triangles | Daily Portfolio Entry |
| 6/27          | Translations and Rotations  
|               | Reflections and Glide Reflections | Daily Portfolio Entry |
| 6/29          | Dilations  
|               | Tessellations of the Plane | Daily Portfolio Entry |
The instructor reserves the right to make changes to this course schedule. It is the student’s responsibility to make note of these changes as announced in class or to be aware of these changes as they are posted on the instructor’s web page.

Students, please carefully review the following information at this link [http://www.westga.edu/assetsDept/vpaa/Common_Language_for_Course_Syllabi.pdf](http://www.westga.edu/assetsDept/vpaa/Common_Language_for_Course_Syllabi.pdf) It contains important material pertaining to your rights and responsibilities in this class. Because these statements are updated as federal, state, university, and accreditation standards change, you should review the information each semester.