Schedule-Fall 2008

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Article Reflection Guidelines

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Journal Entries

Glossary of Geometry Terms

Constructions

Rubric for Geometry in ________________________

Review Sheets

Test 1
Test 2
Test 3
Test 4
Final Exam

MATH 3703

Fall 2008

Course Name: Geometry for P-8 Teachers
Instructor: Dr. Sheila Rivera

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Office Number: 210 Boyd Bldg.
Office Hours: Given in class

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H: 770-920-2177

Course Objectives: Students will demonstrate:

1. A better understanding of standard vocabulary and symbols of elementary mathematics;
2. An ability to reason logically and to provide justifications and coherent arguments for the plausibility of conjectures;
3. An ability to use geometry in real-world problem-solving;
4. Well-developed spatial sense including both two- and three-dimensional figures (tessellations, symmetry, congruence, similarity, polygons and other curves, polyhedra);
5. A better understanding of geometry and measurement from a historical perspective;
6. A better understanding of measurement including the metric system;
7. An ability to solve measurement problems involving perimeter, circumference, area, volume, temperature, and mass;
8. A better understanding of synthetic, coordinate, and transformational geometry with an emphasis on problem-solving;
9. A better understanding of the uses of a variety of manipulatives, technology, and other materials for the P-8 level;
10. A better understanding of the vision of mathematics education as put forth in NCTM’s Principles and Standards (2000);
11. A better understanding of the scope and sequence of elementary school mathematics programs;
12. A knowledge of current professional literature in the field of mathematics education.


Additional Supplies: You will need to have a ruler, a compass, a protractor, a pair of scissors, and a package of 3X5 index cards. Also, a packet of course handouts is available at the bookstore.

Evaluation:

<table>
<thead>
<tr>
<th>Test</th>
<th>Points</th>
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<tbody>
<tr>
<td>Test 1</td>
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<td>Test 2</td>
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<td>Test 3</td>
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<td>Test 4</td>
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<tr>
<td>Portfolio</td>
<td>180</td>
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Grading Policy: A (657-730 pts.), B (584-656 pts.), C (511-583 pts.), D (438-510 pts.), F (0-437 pts.)

Late Assignments Policy: Hard copies of all assignments, journal entries, etc. are due at the beginning of class on the specified date (see course schedule). Late assignments will not be accepted unless prior approval has been given by the instructor. In the event that a late assignment is accepted, the grade on the assignment will be lowered.

Attendance Policy: Students are expected to attend all classes. This term a student may withdraw with a grade of W through ???, regardless of grades, absences, etc. This deadline has been established by the University. After this deadline, if a student has accumulated more than three absences throughout the semester, he/she will normally receive a grade of WF (which counts as an F). The three absences should be saved for sickness and other emergencies. Late arrivals and early exits count one-half of an absence. If a student is absent for a test and has an excuse from someone in authority, then the final exam grade will be used for the missed test in the calculation of the final course grade. No make-up exams will be given. This means no early tests/no late tests under any circumstance.

Suggested Problems: For each section covered in class there will be a set of problems provided. These are not homework problems in the sense that they will be taken up and graded. Instead, these are problems that are recommended for you to work in order to be successful in the class. If you have questions concerning the suggested problems, you should address these questions to the instructor during office hours, before or after class, or during the review session prior to the test.
Conferences: Conferences can be beneficial and are encouraged. All conferences should occur during the instructor’s office hours, whenever possible. If these hours conflict with a student’s schedule, then appointments should be made. The conference time is not to be used for duplication of lectures that were missed; it is the student’s responsibility to obtain and review lecture notes before consulting with the instructor. The instructor is very concerned about the student’s achievement and well-being and encourages anyone having difficulties with the course to come by the office for extra help. Grades will be based on coursework, not on Hope Grant needs, GPA, or any other factors outside the realm of coursework.