I. Title: MAT 510 Foundations of Geometry

Catalog Description: Study of postulate systems for geometry, critical examination of Euclid's elements, introduction to non-Euclidean geometry. Prerequisite: MAT 309 or consent of instructor.

Grading: Grades will be determined by performance on the following:

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Exam 1</td>
<td>28 %</td>
</tr>
<tr>
<td>Exam 2</td>
<td>28 %</td>
</tr>
<tr>
<td>Exam 3</td>
<td>28 %</td>
</tr>
<tr>
<td>Assignments &amp; Participation</td>
<td>16 %</td>
</tr>
</tbody>
</table>

Final grades will be based on the usual scale: 90-100, A; 80-89, B; 70-79, C; etc. Please note that the grading policies are subject to change. You will be informed in advance of any changes. Also, the assignment and participation grade will not count for those with a failing exam average. In other words, you must have a passing exam average to pass the course. As with all 500 level courses, students taking MAT 510 for graduate credit will be required to complete additional assignments and/or exam questions.

Assignments & Participation: We will have an assignment due each class period. These assignments will usually include reading and working problems from the book. A major part of the assignments will involve you presenting problems or material from the book to the rest of the class.

Each assignment will be graded credit/no credit based on whether you:

- complete the entire assignment in a legitimate manner
- Attend class and participate fully the day the assignment is due. This includes being attentive to class discussion, taking part in all group activities, and staying the entire class period.

Although they may not always be collected at this time, assignments are due at the beginning of class.

Exams: There will be three exams. Each will concentrate on approximately one third of the material for the course and will be spaced approximately evenly throughout the semester. The third exam will be given the Monday of finals week at the regular class time. The content of the exams will come from the book and class discussions. The types of problems on the exams may vary but most will involve proof. The exact format of the exams is yet to be determined. You will be given prior notification of the format of the exams. Part of the exams may be oral.
Audit Policy: Mid-semester changes to audit will not be approved.

Academic Honesty Policy: Any instance of academic dishonesty, as described by the instructor (in compliance with Board of Regents policy on Academic Integrity - Feb. 1975) will result in zero points for the assignment or a grade "E" for the course.

Text: Roads to Geometry (3rd Edition) by Wallace and West

Statement of Affirmative Action/Equal Opportunity: See Undergraduate Catalog.

Prerequisites: MAT 309 or consent of instructor.