

UNIVERSITY OF DELAWARE
DEPARTMENT OF MATHEMATICAL SCIENCES

M540 - COLLEGE GEOMETRY
FALL 2009

Time and Place: MW 3:30-4:45, Ewing 210

Instructor: G. Ebert

Office: Ewing 510

Office Hours: T 1:30-3:00, R 2:30-4:00

Phone: 831-1870

Email: ebert@math.udel.edu

Text: *Geometry, Theorems and Constructions* (Prentice Hall)

Authors: A. Berele and J. Goldman

Syllabus:

- High School Geometry Review, Chapters 1-5: 3 weeks
- More Euclidean Geometry, Chapters 7-10: 4 weeks
- Non-Euclidean Geometries, Chapters 14-15: 1 1/2 weeks
- Projective and Affine Geometry, Classroom Notes: 3 weeks
- Group Projects: 1 1/2 weeks

Grading:

- Homework: 120 points
- Group Projects: 100 points
- Two In-Class Exams: 200 points
- Three Hour Final: 180 points

Your semester grade will be determined by the percentage of the 600 total points you earn.

Remarks:

1. Most, but not all, collected homework will be problems from the book. More problems will be suggested than collected. Homework will be collected three or four times during the semester. You should work independently on the collected homework.
2. Group projects will be presented at the end of the semester, during class. Each group presentation should last about 30 minutes, and every member of the group should participate in the oral presentation. Groups will consist of three or four students, and will be determined by me. Possible projects will be announced at least six weeks in advance, and will be assigned on a first come - first served basis. A (single) written report should accompany each presentation. This report should be typed and of approximately 10 pages.
3. In-class exams will be announced at least one week in advance. The exams will be closed-book. The final will be a three-hour comprehensive exam and will be scheduled during the normal period for final exams.
4. I will try to schedule some time in the PC Lab to illustrate software packages such as the Geometer's Sketchpad. Attendance at these sessions will be optional.
5. Those enrolled in the honors section will have an additional (individual) written project, worth 60 points, and some additional (more theoretical) homework, worth an extra 60 points. Thus your total points sum to 720. The same percentage cutoffs will be used.