Euclidian Geometry (Math 45021/55021)  
Section 010, Summer I 2014  
Professor Oana Mocioalca

Contact Info: Office: MSB 308; E-mail: oana@math.kent.edu; Phone: 672-9083.  
Lectures: MTWRF, 12:30 to 2 PM, in room MSB 114.  
Office hours: Tuesdays, and Wednesdays from 11:00 to 12:00 AM; Mondays and Wednesdays from 2:00 to 2:30 PM.  
Textbook: Geometry, Theorems and constructions, by A. Berele and J. Goldman.  
Read the textbook and notes! All material covered is there, with thorough explanations and examples. Work out examples and exercises on your own! Active work is the only way to master the subject. Use my office hours! I will be there to help you.

Grading Policies

You can earn up to a total of 1000 points, as follows:

\[
\begin{align*}
1000\text{pts.} &= \left\{ \begin{array}{l}
\text{Four midterm exams: } 4 \times 100 \text{ pts. } = 400 \text{ pts} \\
\text{Final Exam: } 300 \text{ pts.} \\
\text{Homeworks: } 200 \text{ pts.} \\
\text{Class Participation: } 100 \text{ pts.}
\end{array} \right. \\
\end{align*}
\]

Your grade will be determined by the following table:

<table>
<thead>
<tr>
<th>Total Points</th>
<th>Grade</th>
<th>Total Points</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>921–1000</td>
<td>A</td>
<td>741–780</td>
<td>C+</td>
</tr>
<tr>
<td>891–920</td>
<td>A−</td>
<td>701–740</td>
<td>C</td>
</tr>
<tr>
<td>851–890</td>
<td>B+</td>
<td>671–700</td>
<td>C−</td>
</tr>
<tr>
<td>811–850</td>
<td>B</td>
<td>631–670</td>
<td>D+</td>
</tr>
<tr>
<td>781–810</td>
<td>B−</td>
<td>601–630</td>
<td>D</td>
</tr>
<tr>
<td>0–600</td>
<td></td>
<td>0–600</td>
<td>F</td>
</tr>
</tbody>
</table>

All exams: During class time. No notes, books, or calculators allowed.  
Final Exam: Comprehensive.  
Midterm exams: Given each Tuesday, covering the material from the previous week.  
50 min. long.  
Homeworks: Two kinds: One will be collected on Fridays; the other will not be collected or graded, but you are strongly encouraged to do it (exams and class participation will be based on it). Complete explanations are required; copying the answer from the back of the book will not earn you any credit.

Learning Outcomes for Euclidean Geometry, MATH-45021  
Knowledge

The students should learn the geometry of Euclid extended to advanced topics of the triangle, quadrilaterals and circles: cross-ratio, groups, constructions, geometric generalizations; inversion.  
Comprehension
Students should gain understanding of key aspect of formulation and analysis of the Euclidean Geometry.

**Application**
The main and most important application is to solve many different problems related to the subject.

**Analysis**
Should develop the ability to connect the geometric problems with number theory, analysis, and algebra.

**Synthesis**
Should continue developing abstract thinking.

**Evaluation**
Should complete homeworks, pass midterm tests and a final exam.

**Class Activities**
To solve problems in class and discuss theorems.

**Out of class Activities**
To submit homework assignments.

**Disability:**
In accordance with University Policy, if you have a documented disability and require accommodations to obtain equal access in this course, please contact the instructor at the beginning of the semester or when given an assignment for which an accommodation is required. Students with disabilities must verify their eligibility through the Office of Student Disability Services (SDS) in the Michael Schwartz Student Services Center (672-3391).

**Registration Requirement:**
University policy requires all students to be officially registered in each class they are attending. Students who are not officially registered for a course by published deadlines should not be attending classes and will not receive credit or a grade for the course. Each student must confirm enrollment by checking his/her class schedule (using Student Tools in FlashFast) prior to the deadline indicated. Registration errors must be corrected prior to the deadline.

**STATEMENT ON ACADEMIC DISHONESTY**
Excerpted from the University’s Administrative policy and procedures regarding student cheating and plagiarism. Policy #3342-3-07

(A) Policy statement. It is the policy of the university that:
(1) Students enrolled in the university, at all its campuses, are to perform their academic work according to standards set by faculty members, departments, schools and colleges of the university; and
(2) Cheating and plagiarism constitute fraudulent misrepresentation for which no credit can be given and for which appropriate sanctions are warranted and will be applied.

(B) Intent and scope of the policy.
(1) In providing this policy, the university affirms that acts of cheating and plagiarism by students constitute a subversion of the goals of the institution, have no place in the university and are serious offenses to academic goals and objectives, as well as to the...
(2) It is the intent of this policy to provide appropriate sanctions, to provide fair and realistic procedures for imposing those sanctions, to provide safeguards for any student suspected of cheating or plagiarism, and to coordinate the policy with procedures of the code of student conduct, rule 3342-4-15 of the Administrative Code and of this register.

(3) This policy applies to all students of the university, graduate and undergraduate, full or part-time, whose conduct is of such a nature prohibited by the policy. Other offenses of a nonacademic nature are covered by the code of student conduct, rule 3342-4-15 of the Administrative Code and of this register.

(C) Definitions. As used in this rule:

(1) "Cheat" means intentionally to misrepresent the source, nature, or other conditions of academic work so as to accrue undeserved credit, or to cooperate with someone else in such misrepresentation. Such misrepresentations may, but need not necessarily, involve the work of others. As defined, cheating includes, but is not limited to:
   (a) Obtaining or retaining partial or whole copies of examination, tests or quizzes before these are distributed for student use;
   (b) Using notes, textbooks or other information in examinations, tests and quizzes, except as expressly permitted;
   (c) Obtaining confidential information about examinations, tests or quizzes other than that released by the instructor;
   (d) Securing, giving or exchanging information during examinations;
   (e) Presenting data or other material gathered by another person or group as one’s own;
   (f) Falsifying experimental data or information;
   (g) Having another person take one’s place for any academic performance without the specific knowledge and permission of the instructor;
   (h) Cooperating with another to do one or more of the above; and
   (i) Using a substantial portion of a piece of work previously submitted for another course or program to meet the requirements of the present course or program without notifying the instructor to whom the work is presented.
   (j) Presenting falsified information in order to postpone or avoid examinations, tests, quizzes, or other academic work.

(2) "Plagiarize" means to take and present as one’s own a material portion of the ideas or words of another or to present as one’s own an idea or work derived from an existing source without full and proper credit to the source of the ideas, words, or works. As defined, plagiarize includes, but is not limited to:
   (a) The copying of words, sentences and paragraphs directly from the work of another without proper credit;
   (b) The copying of illustrations, figures, photographs, drawings, models, or other visual and nonverbal materials, including recordings, of another without proper credit; and
   (c) The presentation of work prepared by another in final or draft form as one’s own without citing the source, such as the use of purchased research papers.

**Academic Sanctions, From Section D**
The following academic sanctions are provided by this rule for offenses of cheating or plagiarism. Kent campus instructors shall notify the department chairperson and the student conduct office each time a sanction is imposed. Regional campus instructors shall notify the regional campus dean and the student conduct officer each time a sanction is imposed. Regional campus student conduct officer shall notify the Kent student conduct office each time a sanction is imposed by a regional campus Instructor. The following academic sanctions are provided by this rule for offenses of cheating or plagiarism. In those cases the instructor may:
1. Refuse to accept the work for credit; or
2. Assign a grade of "F" or zero for the project, test, paper, examination or other work in which the cheating or plagiarism took place; or
3. Assign a grade of "F" for the course in which the cheating or plagiarism took place; and/or;
4. Recommend to the department chair or regional campus dean that further action specified in the rule be taken. The department chairperson or regional campus dean shall determine whether or not to forward to the academic dean or to the vice president for the extended university a recommendation for further sanction under this rule.