MATH 205: Geometry - Spring 2005

Class Meetings: MWF 3:00-3:50

Instructor: Andrew B. Perry, Ph.D.

Office: Schoo 118

Office Hours:

Mon/Wed/Fri 11-11:30 AM
Mon/Wed/Fri 2-3 PM
Tuesday 10-10:30 AM

Phone : 748-3193

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Course Description : This course is a introduction to geometry. Euclidean geometry is emphasized. The historical roots of the subject are considered.

Prerequisites: Permission of Instructor

Required Textbook: A. Berele and J. Goldman,Geometry, ISBN 0-13-087121-4

Grading Procedures: Final grades will be computed as follows:

Presentation of Euclidean Proof 5 %
Five (5) Quizzes . . . 60 % (each worth 12 %)
Final Exam . . . 25 %
Homework . . . 10 %

Students will be guaranteed minimum grades according to the following schedule: 94 % = A ; 90 % = A- ; 87 % = B+ ; 83 % = B ; 80 % = B- ; 77 % = C+ ; 73 % = C ; 70 % = C- ; 67 % = D+ ; 63 % = D ; 60 % = D-

Late Submission of Assignments: Students may submit up to three (3) assignments late during the semester for full credit, but only if these assignments are received by the beginning of the next class meeting after the due date. If more than three assignments are submitted one class period late, they may be subject to a small penalty at the discretion of the instructor (depending on extenuating circumstances). Any work submitted more than one class period late will receive a grade of ZERO PERCENT (0 %) unless prior arrangements had been made with the instructor in advance of the due date - or a lesser penalty at the instructor's discretion.

Classroom Format: Lecture, Problem Solving

Class Web Sites: We will use the Manhattan course management system from time to time. At the beginning of the semester please log on to this virtual classroom. If necessary, I can help you get started Please go to the Post Office module and send me (Andrew Perry) an email for practice. Go to www.springfieldcollege.edu - current students - manhattan online coursework and follows links to our section. I also have my own web site **www.professorperry.com** .

Attendance: Attendance at all classes is required, unless you have arranged an excused absence BEFORE the class in question. See the *Student Handbook* for examples of excusable absences. Generally I will be quite flexible and lenient IF YOU INFORM ME IN ADVANCE. In order for an absence to be excused, you must send me email through the Manhattan Post Office module including the date of the absence and the reason.

This Manhattan Post Office email should be sent as early as possible, but in any case no later than twenty-four (24) hours after the missed class.

Attendance will affect your final grade as follows:

- Zero unexcused absences and at most one excused absence ... increase final grade by 1 %
- At least 1 week equivalent (150 minutes) of unexcused absences (but less than 2 weeks or 300 minutes) ... decrease final grade by 5 %
- At least 2 weeks equivalent (300 minutes) of unexcused absences ... decrease final grade by 10 %

For example, if your course average is 91 % (ordinarily an A-) but you have 200 minutes of unexcused absences, you will have a net 86 % score and a B for the class.

Approximate Examination Dates:

- First quiz approx. February 14
- Subsequent quizzes every two to three weeks thereafter

Final exam: Friday May 6, 2:45 PM
Exact examination dates will be announced in class.

Course Outline:

1. Origins of Euclidean Geometry: Euclid's Elements
2. Axiomatic Mathematics
3. Euclidean Geometry and Proof (main topic of course)
4. Introduction to Non-Euclidean Geometry

Statement on Academic Honesty : Academic dishonesty of any sort will not be tolerated. Students cheating on exams or engaged in any other improper behavior will be reported to the Dean of Students for appropriate disciplinary action, and at the instructor's discretion, will normally receive a grade of F for the course.

Statement on Classroom Decorum : Students are expected to behave in an adult manner during class time. No eating or drinking is permitted. If students must talk to one another during a lecture, it should be very quiet. Students creating a disturbance will be asked to leave class.

Statement on Special Needs: If you have a documented physical, learning, or psychological disability on record with the Director of Student Support Services (748-3768), you may be eligible for reasonable academic accommodations to help you succeed in this course. It is your responsibility to request such accommodations in advance and to provide appropriate documentation to the Director of Student Support Services. Please let me know of your request as soon as possible, so that I can work with you and the director to arrange for reasonable accommodations.

College Policies on Attendance and Academic Honesty: See the *College Catalog* or the *Student Handbook* for the complete text of these policies.

Course Outcomes:

1. Students will be able to describe the origins of Euclidean geometry
2. Students will be able to do calculations involving lines,rays, line segments, circles, and polygons
3. Students will be able to prove theorems involving lines,rays, line segments, circles, and polygons
4. Students will be able to describe one or more theories of Non-Euclidean geometry

Assessment of Outcomes: Homework, Exams, Class Presentation