Course Description Math 411: Advanced Euclidean Geometry

John T. Baldwin

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Spring 2008
3 OR 4 hours. 3 undergraduate hours. 4 graduate hours. Prerequisite(s): Grade of C or better in MATH 215. Departmental Approval Required

Office hours or T: 4-5 or Th at 3-5, after class if desired or by appointment in 327 SEO. (Subject to change)
Feel free to e-mail me at jbaldwin@uic.edu or phone to make an appointment to discuss any difficulties that arise.
Office: 327 SEO.
Office phone: 312-413-2149
e-mail: jbaldwin@uic.edu
WEBSITE: http://www2.math.uic.edu/~jbaldwin/mtht411/index
Most assignments will be made only on the website, so check it frequently.


Prerequisites: Grade of C or better in MATH 181 and approval of the department.

Description This course has a number of goals: developing proof skills and an understanding of the axiomatic method, obtaining an overview of Euclidean Geometry as well as a clear grasp of its foundations, and connecting this knowledge with the current tasks of a high school geometry teacher.
We will begin with chapter 6 of the text and hope to make chapter 15. But the pace and depth of the course will be adapted to the needs of the students.

Resources Material for this course will be disseminated via the text, the
classroom assignments and lectures, doing the problems and exams, and supple-
mental material handed out in class or on the web. These four modes are
supplementary and you are responsible for material presented in any of the
forms.

This text is much more formal than anything most of you have read before.
The key to learning from such a book is to work very hard the first week.
There is a lot of vocabulary that will be very strange to you. Make sure the
words means what you think.

**Reading Assignments** The weekly reading assignment is on the web. You
are expected to read the assignment before class and there may be quick quizzes
on the reading assignment.

**Problem Sets:** Doing problems is the way to learn mathematics!

There will be weekly problem sets that will be collected and graded. You are
welcome to come talk to me about these problems. The two lowest grades will
be dropped. Late homework will be accepted only in exceptional circumstances.
Most problem sets will consist of writing proofs. All proofs must be written in
complete grammatical sentences. Since learning to write proofs is the central
goal of the course you will be graded on the clarity of your writing.

You may discuss homework problems with other students, but you must
write up your solution independently.

**Grading:** Your overall performance will be evaluated by the instructor.
Contributing to that assessment, there will be 2 midterm exams, homework
and a final exam. Each midterm will count for 25% of your final grade. The
final will count for 35% and the problem sets will count for 15%. The lowest
two problem set grades will be dropped.

Midterm 1: Thursday March 6 Midterm 2: Tuesday April 4 (tentative) or
Thursday Apr. 17 Final Exam: Tuesday May 6
**Make up work:** A student who completes an assignment but gets a poor grade will be allowed to redo the assignment (possibly with some additional questions). The maximal score after redoing is the original grade plus half the remaining points. The maximum score for which one can redo the assignment will vary.

**Students with Disabilities:** Students with disabilities who require accommodations for access and participation in this course must be registered with the Office of Disability Services (ODS). Please contact ODS at (312)413-2103 (voice) or (312)413-0123 (TTY).

**MSCS POLICY ON INCOMPLETE GRADES:** The last day to drop the course without penalty is September 5. Incomplete grades are for hardships that occur at the time of the final. IN grades must be approved by the Department. IN grades are normally made up during the first two weeks of the next semester.

**LAS DROP POLICY:** Students not in LAS should consult their college for drop regulations. Undergraduate students in LAS may drop classes during the first two weeks of the semester without prior approval and with no academic penalty. Thereafter, students may drop classes between the 3rd and end of the 6th week for a total of four times over their entire UIC enrollment. Students must see an LAS advisor on the 3rd floor of UH or by appointment (996-3366) to process a drop. It is recommended that students be provided with some evaluative measures of performance prior to the drop deadline. Students with serious extenuating circumstances after the 6th week should be referred to the LAS Academic Advising Center for guidance.