

## Math 411: Advanced Euclidean Geometry

### Contact Information

Office hours on 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](mailto:jbaldwin@uic.edu) or phone to make an appointment to discuss any difficulties that arise.

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### Unit 4

We now begin to study transformations. On Tuesday Feb. 19, we will discuss rigid motions with a number of hands-on activities. This will be connected with the book on Tuesday and in the DOUBLE PERIOD on Thursday Feb. 21. I am hoping to get half way through Chapter 10 this week and into chapter 12 in the week of Feb. 26.

#### Due Tuesday Feb 26

Problems to hand in: 9.31. Rewrite the proof in text of Theorem 9.34 in your own words and then prove the converse 9.35. Do 9.42, 9.57, 9.58, 10.14 and 10.29. Note that 9.57 is an exercise in mathematical induction, where 9.56 is the base step.

Note that there have several major mistakes in editing the book.

The top 4 inches of page 158 just repeats the bottom of page 157.

The proof of Theorem 7.46 (which is non-trivial) has been omitted. I will present it in class.

Line -4 on page 164 the reference should be to example 7.38. Again in Remark 7.59, the references to 7.37 should be to 7.38.