

**MAED 548**  
**An Exploration of the Historical Development of Mathematics**

The purpose of this assignment is to give you a chance to explore the people and events that have played significant roles in the historical development of the mathematics you have been studying. In addition, you will be examining ways in which classroom instruction can be enhanced by using this knowledge in instruction.

Elements of the Exploration:

1. Read *Journey Through Genius* by William Dunham and write a 2 to 3 page reflection that identifies the two events and/or people you found most significant and why.
2. For each of the following high school mathematics courses identify 2 events and/or people you could share with your students and why these fit into the curriculum for that course. (Courses to address: Algebra I, Geometry, Algebra II, Probability and Statistics, and Pre Calculus) The expectation is that you will use the Common Core Standards to identify specific links between historical topics and the state curriculum.
3. Read at least five of the articles in the bibliography below concerning the use of mathematics history in the classroom. Create (or find and modify) a lesson plan that meets Common Core expectations for mathematics content and incorporates the history of mathematics in a meaningful way.
4. Write a 2 page reaction that uses ideas from the articles you have read to discuss the role of mathematics history in the classroom. Citations for the ideas used are required in APA form.

**Bibliography of Readings**

- Edwards, B., Kinzel, M., & Liu, P. (2003) Do teachers need to incorporate the history of mathematics in their teaching? *Mathematics Teacher*, 96(6), 416-421.
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- Marshall, G. L., & Rich, B. S. (2000) The role of history in a mathematics class. *Mathematics Teacher*, 93(8), 704.
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- Shirley, L. H. (2000) A visit from Pythagoras-Using costumes in the classroom. *Mathematics Teacher*, 93(8), 652.
- Wilson, P. S., & Chauvot, J. B. (2000) Who? How? What? A strategy for using history to teach mathematics, *Mathematics Teacher*, 93(8), 642.