Marshall University Syllabus (Amended)

Course Title/Number	MTH 405: History of Math
Semester/Year	Spring 2015
Days/Time	Monday and Wednesday, 5:00pm – 6:15pm
Location	Smith Hall 516
Instructor	Carl Mummert
Office	Smith Hall 742E
Phone	304 696-6156
Email	mummertc@marshall.edu
Office/Hours	MWF 9:00am – 11:30am, and by appointment
University Policies	By enrolling in this course, you agree to the University Policies listed below. Please read the full text of each policy be going to www.marshall.edu/academic-affairs and clicking on "Marshall University Policies." Or, you can access the policies directly by going to http://www.marshall.edu/academic-affairs/policies/. Policies: Academic Dishonesty, Excused Absence Policy for Undergraduates, Computing Services Acceptable Use, Inclement Weather, Students with Disabilities, Academic Dismissal, Academic Probation and Suspension, Academic Rights and Responsibilities of Students, Affirmative Action/ Sexual Harassment.

Important note

Because of an unanticipated change in instructor, the syllabus for Math 405 (Spring 2015) has been amended as of March 2, 2015. Students will not be penalized for any activities before this date, and will receive credit for low stakes assignments before this date.

Course Description: From Catalog

A study of the history of mathematics from the time of the ancient Greeks to the end of the nineteenth century.

Required Text

Journey Through Genius, William Dunham, 1990. Reprint, Penguin, ISBN 014014739X

Course Student Learning Outcomes

The table below shows how each student learning outcome will be practiced and assessed in the course.

Student Learning Outcome	**How students will practice this outcome**	**How student achievement of this outcome will be assessed**
Students will write more effectively by regularly using writing as a means to investigate problems and to learn mathematical concepts.	Discussion, in-class tasks with and without technology, response sheets (low-stakes writing), discussion questions, homework	Exam questions, mathematician presentation, mathematician poster
Students will read and interpret mathematical ideas independently.	Discussion, in-class tasks with and without technology, response sheets (low-stakes writing), discussion questions, homework	Exam questions, mathematician presentation, mathematician poster
Students will use their exploration of the historical struggle to find an effective system of notation in order to more effectively communicate mathematical ideas in written and oral forms.	Discussion, in-class tasks with and without technology, response sheets (low-stakes writing), discussion questions, homework	Exam questions, mathematician presentation, mathematician poster
Students will examine the changes that have taken place in the standards of proof in order to address issues related to representation including what technology is appropriate to solve a problem and to present a topic.	Discussion, in-class tasks with and without technology, response sheets (low-stakes writing), discussion questions, homework	Exam questions, mathematician presentation, mathematician poster
Students will learn to mathematically model situations and creatively solve problems for which they may never have seen examples and be able to pass such strategies on to their own students by doing the related mathematics associated with historically important developments	Discussion, in-class tasks with and without technology, response sheets (low-stakes writing), discussion questions, homework	Exam questions, mathematician presentation, mathematician poster

Students will learn to use their knowledge of the history of mathematics as a resource for the learning and teaching of mathematics.	Discussion, in-class tasks with and without technology, response sheets (low-stakes writing), discussion questions, homework	Exam questions, mathematician presentation, mathematician poster
Students will enhance their writing skills and strategies	In-class tasks with and without technology, response sheets (low-stakes writing), homework	Exam questions, mathematician presentation, mathematician poster

Course Schedule

- ❍ March 4 - Assign presentations. Discuss Chapter 3.
- ❍ March 9 - Discuss Chapter 4.
- ❍ March 11 - Discuss Chapter 5
- ❍ March 23 - Discuss Chapter 6. Presentation drafts due.
- ❍ March 25 - Exam
- ❍ March 30 - Discuss Chapter 7
- ❍ April 1 - Discuss Chapter 8. Poster drafts due.
- ❍ April 6 - Presentations. Discuss one poster.
- ❍ April 8 - Presentations. Discuss one poster.
- ❍ April 13 - Presentations. Discuss one poster.
- ❍ April 15 - Presentations. Discuss one poster.
- ❍ April 20 - Presentations. Discuss chapter 9.
- ❍ April 22 - Presentations. Discuss chapter 9.
- ❍ April 27 - Presentations. Discuss chapter 10.
- ❍ April 29 - Presentations. Discuss chapter 10.
- ❍ May 4 - Final Exam

Course Requirements / Due Dates

Activity/Deliverable	Due Date
Homework	Various dates (weekly)
Presentation draft	March 23
Presentations	Various dates in April
Poster draft	April 1
Poster final	One week after discussion
Midterm exam	March 25
Final exam	May 4

Grading Policy

Your overall grade is a weighted average of assignments and exams.

Activites and weights

Activity	Weight
Participation (low stakes writing)	10%
Homework (medium stakes)	10%
Exam 1	20%
Exam 2	20%
Presentation and slides	20%
Poster (group assignment)	20%

Grading Scale

Score	Letter Grade
90 – 100	A
80 – 90	B
70 – 80	C
60 – 70	D

Attendance Policy

Attendance will be taken each time the class meets. If you are absent when a response sheet, participation points, or an announced quiz is given, it cannot be made up. You are responsible for all notes and assignments given during any absence. If you are aware that you will be missing a class, make arrangements to find out the assignment before you leave. If some emergency forces you to miss class, contact me before the next class. The Academic Affairs policy for excused absences can be accessed at http://www.marshall.edu/academic-affairs/policies/ as well as other university-wide policies. If you have an excused absence for a class assignment that cannot be made up, an alternate assignment will

muOnline

It is important to visit muOnline regularly for up-to-date information about the course.

Policy for Students with Disabilities

Marshall University is committed to equal opportunity in education for all students, including those with physical, learning and psychological disabilities. University policy states that it is the responsibility of students with disabilities to contact the Office of Disabled Student Services (DSS) in Prichard Hall 117, phone 304-696-2271, to provide documentation of their disability. Following this, the DSS Coordinator will send a letter to each of the student's instructors outlining the academic accommodation he/she will need to ensure equality in classroom experiences, outside assignment, testing and grading. The instructor and student will meet to discuss how the accommodation(s) requested will be provided. For more information, please visit http://www.marshall.edu/disabled or contact Disabled Student Services Office at Prichard Hall 117, phone 304-696-2271.