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Spring 2-1-2022

M 429.01: History of Mathematics

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HISTORY OF MATHEMATICS
MATHEMATICS 429 SECTION 1
CRN 30197

INSTRUCTOR   Matt Roscoe
Office: Math 213
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WEBPAGE   http://umonline.umt.edu/

GOALS   1. To imbue a sense of the development of mathematical ideas over time.
2. To develop a knowledge of the times and places where ideas developed, and the ways in which such ideas were transmitted across cultures and time.
3. To learn about the people behind mathematics that is taught today, and to understand the contributions of other cultures to mathematics.
4. To improve the students ability to write in the context of mathematics.

TEXT   Burton, D. M. (2011). *The history of mathematics: An introduction* (7th ed.). New York, NY: McGraw Hill.

GRADING

Homework	10	%
Reading Journal	10	%
Quizzes	20	%
Essay 1	30	%
Essay 2	30	%

SCALE   Let S be your average weighted percentage of graded items in the course, then, you letter grade is determined by the following scale:

$$
\begin{array}{rcccccl}
93 & \leq & S & < & 100 & \Rightarrow & \text{A} \\
90 & \leq & S & < & 93 & \Rightarrow & \text{A-} \\
87 & \leq & S & < & 90 & \Rightarrow & \text{B+} \\
83 & \leq & S & < & 87 & \Rightarrow & \text{B} \\
80 & \leq & S & < & 83 & \Rightarrow & \text{B-} \\
77 & \leq & S & < & 80 & \Rightarrow & \text{C+} \\
73 & \leq & S & < & 77 & \Rightarrow & \text{C} \\
70 & \leq & S & < & 73 & \Rightarrow & \text{C-} \\
67 & \leq & S & < & 70 & \Rightarrow & \text{D+} \\
62 & \leq & S & < & 67 & \Rightarrow & \text{D} \\
60 & \leq & S & < & 63 & \Rightarrow & \text{D-} \\
0 & \leq & S & < & 60 & \Rightarrow & \text{F}
\end{array}
$$

HOMEWORK   You will be assigned homework problems from each chapter of the text. Note that answers to selected problems are given in the text. A subset of homework will be graded for accuracy, the remainder for completion.

JOURNAL   You will be assigned reading questions for each chapter of the text. You should record your answers to these questions in a reading journal. Use the reading journal as an environment where you can practice writing about mathematics. Write in complete sentences. Use correct grammar. Your reading journal will be collected and graded for completion.

QUIZZES   There will be 5 quizzes over the course of the semester. Quizzes will assess your knowledge of mathematical content and its history which will be explored in lectures, assigned in homework and assigned as reading questions. Quizzes are closed book but open to the use of lecture notes, homework problems and reading journal. Calculators are allowed.

ESSAYS   There will be two essay papers. Each is to be an argumentative piece of writing that aims to *convince* the reader of a particular position on a topic of mathematics history. Essays should have an identifiable introduction that includes a thesis statement, a presentation of supporting evidence and a summarizing conclusion. Each essay should be supported by a minimum of 5 outside sources. Each essay must be at least 2500 words. The topic of each essay is open to your choosing as long as it argues a thesis about some aspect of mathematics history. For each essay, you will be asked to submit work that demonstrates your preparation, your first draft and your final draft. You will also be asked to engage in peer review.

HONESTY   All students need to be familiar with the Student Conduct Code. The Code is available at: `http://life.umt.edu/vpsa/student_conduct.php`.

ODE   The University of Montana assures equal access to instruction through collaboration between students with disabilities, instructors, and the Office for Disability Equity (ODE). If you anticipate or experience barriers based on disability, please contact the ODE at: (406) 243-2243, ode@umontana.edu, or visit http://www.umt.edu/disability for more information. Retroactive accommodation requests will not be honored, so please, do not delay. As your instructor, I will work with you and the ODE to implement an effective accommodation, and you are welcome to contact me privately if you wish.

DATES   February 7th is the last day to drop the course using Cyberbear. March 29th is the last day to drop with instructor and advisor signatures (W appears on transcript). May 6th is the last day to drop the course or change grading option using a late drop form (WP/WF appears on transcript).

SEMESTER SCHEDULE

Monday	Wednesday	Friday
	19-Jan CH 1	21-Jan CH 1
24-Jan CH 2	26-Jan CH 2	28-Jan CH 2
31-Jan CH 2	2-Feb CH3	4-Feb QUIZ 1: CH1-2
7-Feb CH3	9-Feb CH3	11-Feb CH4
14-Feb CH4	16-Feb CH4	18-Feb CH4
21-Feb President's Day	23-Feb CH5	25-Feb QUIZ 2: CH3-4
28-Feb CH5	2-Mar CH5	4-Mar CH6
7-Mar CH6	9-Mar CH6	11-Mar CH7
14-Mar CH7	16-Mar CH7	18-Mar QUIZ 3: CH5-7
21-Mar Spring Break	23-Mar Spring Break	25-Mar Spring Break
28-Mar CH8	30-Mar CH8	1-Apr CH8
4-Apr CH8	6-Apr CH9	8-Apr CH9
11-Apr CH9	13-Apr CH10	15-Apr QUIZ 4: CH8-9
18-Apr CH10	20-Apr CH10	22-Apr CH11
25-Apr CH11	27-Apr CH11	29-Apr CH12
2-May CH12	4-May CH13	6-May CH13
FINAL QUIZ 5: CH10-13 10:10 - 12:10 Monday, May 9th		

RESEARCH PAPER SCHEDULE

Essay	Preparation	Draft	Revision
1	February 9	March 2	March 16
2	April 6	April 20	April 29