

MATH 1030, Honors MATH
Spring 2014 MWF, 11:30-12:20 HU 173A

Instructor: Dr. Larry Smith SCNCE 111 283-7520 Larry.Smith@snow.edu <http://www.snow.edu/larrys>

Texts: *The Heart of Mathematics: An Invitation to Effective Thinking* by Burger and Starbird 4e
(Textbook ISBN: 9781118156599, CourseSmart e-textbook ISBN: 9781118581186)
Zero: The Biography of a Dangerous Idea by Charles Seife
(ISBN-10: 0140296476 or ISBN-13: 978-0140296471)

Prerequisite: MATH 1010 or Algebra II with a C or better or ACT Math score of 23+. Also expected: an insatiable desire to learn.

Objectives: We will wander across the mathematical landscape, stopping to explore in greater depth the wonders that tickle our fancy. Students will learn some history of mathematics and its current state. Students will be able to demonstrate General Education Outcomes 3) Speak and write effectively, and 4) Reason quantitatively in a variety of contexts.

The Math GE learning outcomes further include:

1. Know when and how to apply mathematical knowledge to real world problems.
2. Interpret and critique quantitative information or arguments.
3. Construct quantitative, logical arguments.
4. Understand and use mathematics as a language to communicate.
5. Explore and analyze mathematical concepts, using technology as appropriate.
6. Estimate, reason through, and make sense of mathematical processes.

Homework: Because this class counts as Quantitative Literacy General Education, we will do regular homework problems.

Participation and Help: Participation in class discussions is very important. Answer and ask lots of questions. Also subscribe to the class e-mail list, LS-Blue. You are encouraged to see me during my regular office hours (MWRF 10:30-11:20), and at other times by appointment or by e-mail (either to me privately or to the class list). Students with medical, psychological, learning or other disabilities desiring accommodations or services under ADA must contact the Accessibility Resource Center (ARC). The ARC determines eligibility for and authorizes the provision of these accommodations and services for the college. For assistance, please contact the Accessibility Services Coordinator at 241 Greenwood Student Center, or (435) 283-7321, or Katie.larsen@snow.edu. For more detail see <http://www.snow.edu/larrys/ADA.html>.

Reading: Honors students are expected to keep up with the reading assignments and be prepared to discuss them in class. Quizzes may assess preparedness.

Homework: Because this class counts as Quantitative Literacy General Education, we will do regular homework problems from the Burger/Starbird book. There may be some assignments through e-mail or on the web.

Class Presentation and Poster: Study a mathematical topic in depth and give a presentation on it to the class. The topic should not be merely historical or biographical, but should be some real mathematical topic. Also make a conference-grade poster on it for display at our class poster session. This is an important and large part of the course.

Final Exam: The final is scheduled for Thursday, May 1, 12:00-2:00 p.m. in our classroom.

<u>Grading:</u>	Participation	10%	Homework	20%	Tests	20%
	Class Presentation	15%	Poster	15%	Final Exam	20%