Winter 2016: MATH 13200  
Elementary Functions and Calculus II  
MWF, 8:30-9:20am; Eckhart 202

Instructor: Drew Moore  
Email: drewmoore@uchicago.edu  
Office: GHJ 205  
Office Hours: TBD  
Required Tutorials: TR, 9:00-10:20am  
Course website: Chalk or [http://math.uchicago.edu/~drewmoore/Math132/](http://math.uchicago.edu/~drewmoore/Math132/)

Course Description: The Math 130’s sequence aims to give a thorough introduction to calculus as a working tool, with a more solid mathematical foundation than found in a typical AP high school calculus course. Time will be allocated in both lectures and tutorials to address necessary algebra and pre-calculus. This last point is really the only difference between Math 130’s and Math 150’s. We will cover all the things in the Math 150 sequence, but in addition review necessary precalculus skills. For more information see the department’s explanation ([http://www.math.uchicago.edu/undergraduate/calculus_guide.shtml](http://www.math.uchicago.edu/undergraduate/calculus_guide.shtml)).

Text: Calculus, 9th Edition  
Authors: Varberg, Purcell, Rigdon; ISBN-13: 978-0132306331

Outline of Course:

Week 1 Trigonometry and Calculus  
Week 2 Monotonicity, Concavity, Derivative Tests  
Week 3 Optimization Problems  
Week 4 Review for Midterm 1; Graphing using Calculus  
Week 5 Mean Value Theorem; Antiderivatives  
Week 6-7 Fundamental Theorem of Calculus  
Week 8 Review for Midterm 2; Area  
Week 9-10 Logarithm and Exponential

Grade Distribution:  
Homework 10%  
Quizzes 10%  
Better Midterm 25% (for the midterm you score higher on)  
Other Midterm 15%  
Final Exam 40%
Homework Policy:
Homework should be neatly written up or typed, and stapled. The graders are free to penalize (within reason) for disorganized homework. You may work on homework together (and in fact are encouraged to do so. Homework must be turned in at the beginning of class. Late homework is not accepted. The lowest percentage homework score will be dropped.

Tutorials and Quizzes:
Tuesday and Thursday morning tutorials are required. The first tutorial will be on Thursday of the first week. A 10-20 minute quiz will be given once a week in the tutorials. These quizzes are meant as feedback for your progress, and so that you can understand my grading style and what to expect on exams. The lowest quiz score will be dropped.

Midterms:
The first midterm will be on **Wednesday, January 27**. The second midterm will be on **Wednesday, February 24**. Make-up exams will be given very rarely and only in cases of serious circumstances. The midterm which you score better on will be worth 25%, the other will be worth 15%.

Final Exam:
The Final Exam will be on **Monday March 14 at 8-10am** in Eckhart 202.

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<th>It is the policy of the Department of Mathematics that the following rules apply to final exams in all undergraduate mathematics courses:</th>
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<tr>
<td>1. The final exam must occur at the time and place designated on the College Final Exam Schedule. In particular, no final examinations may be given during the tenth week of the quarter, except in the case of graduating seniors.</td>
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<td>2. Instructors are not permitted to excuse students from the scheduled time of the final exam except in the case of an Incomplete.</td>
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Message from Student Disability Services:
“**If you require any accommodations for this course, as soon as possible please provide your instructor with a copy of your Accommodation Determination Letter (provided to you by the Student Disability Services office) so that you may discuss with him/her how your accommodations may be implemented in this course.**

*The University of Chicago is committed to ensuring the full participation of all students in its programs. If you have a documented disability (or think you may have a disability) and, as a result, need a reasonable accommodation to participate in class, complete course requirements, or benefit from the University’s programs or services, you are encouraged to contact Student Disability Services as soon as possible. To receive reasonable accommodation, you must be appropriately registered with Student Disability Services. Please contact the office at 773-702-6000/TTY 773-795-1186 or disabilities@uchicago.edu, or visit the website at disabilities.uchicago.edu. Student Disability Services is located at 5501 S. Ellis Avenue.”*