# MATH 1110 — Calculus I (Lecture 002)

**Instructor:** Iian Smythe
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www.math.cornell.edu/∼ismythe/

**Office hours:** W 9:00-10:00am, R 3:00-4:00pm in 218 Malott (or by appointment)

**Course assistant:** Liang Zhang
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**Time/place:** MWF 8:00am–8:50am
224 Malott Hall

**Textbook:** *Thomas' Calculus Early Transcendentals, Single Variable.* 12e. Addison-Wesley, 2009. (*Student's Solutions Manual* is optional.)

**Course website:** www.math.cornell.edu/∼vcollins/math1110/home.html

**Section website:** www.math.cornell.edu/∼ismythe/FA13_1110.html

**Course description:** MATH 1110 can serve as a one-semester introduction to calculus or as part of a two-semester sequence in which it is followed by MATH 1120 or MATH 1220. Topics include functions and graphs, limits and continuity, differentiation and integration of algebraic, trigonometric, inverse trig, logarithmic, and exponential functions; applications of differentiation, including graphing, max-min problems, tangent line approximation, implicit differentiation, and applications to the sciences; the mean value theorem; and antiderivatives, definite and indefinite integrals, the fundamental theorem of calculus, substitution in integration, the area under a curve.

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**Evaluation:** Evaluation of student performance will be based upon completion of weekly homework assignments, participation during class, three preliminary exams, and a final exam. Letter grades (A+ through F) will be assigned based on the breakdown below.

**Breakdown:**

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| Participation | 40 |
| Homework | 60 |
| Prelim exam 1 | 100 |
| Prelim exam 2 | 100 |
| Prelim exam 3 | 100 |
| Final exam | 200 |
| Total | 600 |

**Participation:** This portion of the grade will be based upon participation during class time, which may include asking questions, answering questions, solving occasional problems in front of the class, and attendance (you can't participate if you aren't there).

**Homework:** Problems from the text will be assigned on a weekly basis, and **due at the beginning of lecture on Fridays**, with exceptions during weeks which are shortened by holidays. **Late homework will not be accepted.**

Submitted homework should be on 8 1/2" by 11", or similar, paper, with your **full name** written in the upper right hand corner of the front page. **All pages must be stapled together**. Writing should be legible and in pencil or dark ink, but it is not necessary to type solutions (nor is it recommended). Solutions should be written clearly, in complete sentences, with all necessary work and justification shown. If the grader cannot read a solution, it will be worth zero points. (It is strongly advised that you first do homework on scrap paper, or in rough draft, and then write a clean, final draft for submission.)

Partial solutions to problems will be accepted, and will be worth partial credit, provided they are clear, and explain where you "got stuck".

You are welcome to work with other students on homework, but it is recommended that you try to work out a problem on your own first. However, **solutions must be written in your own words**, not verbatim from another student's work.

On each assignment, a select set of problems will be graded in detail, while the remainder will be graded for "completeness". **Your lowest scoring homework assignment will be dropped from your final grade.**

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**Important dates:**

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| Start of classes | Wednesday, August 28 |
| Labor Day (no classes) | Monday, September 2 |
| **Last day to add a course** | **Wednesday, September 11** |
| **Preliminary exam 1** | **Tuesday, October 1 (at 7:30pm)** |
| Fall Break begins | Saturday, October 12 |
| Classes resume | Wednesday, October 16 |
| **Last day to drop a course*** | **Friday, October 18** |
| **Preliminary exam 2** | **Tuesday, November 5 (at 7:30pm)** |
| Thanksgiving Recess begins | Wednesday, November 27 (at 1:10pm) |
| Classes resume | Monday, December 2 |
| **Preliminary exam 3** | **Thursday, December 5 (at 7:30pm)** |
| Last day of classes | Friday, December 6 |
| **Final exam** | **Friday, December 13 (at 9:00am)** |

If you have a conflict with a scheduled exam, you must notify the instructor at least **two weeks** before the exam, in order for alternate arrangements to be made.

***Classes dropped up to and on this date will not appear on students' transcripts, nor will any grade penalty be incurred.

From **October 19–November 22**, withdrawal from courses can occur by petition only, and will appear on the official transcript with the notation of "W". For more information see www.math.cornell.edu/m/Courses/add-drop.