MATH 122: CALCULUS 1, PART 2
Section 2: TR 2:40 PM - 4:00 PM, Exley 109
Spring 2016

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<u>**Text.**</u> *Essential Calculus*, James Stewart, 2nd edition.

<u>**Prerequisites.**</u> Math 121 or equivalent covering the first four chapters of our textbook.

<u>**Syllabus.**</u> The course will cover Chapters 5 through 8 of the text.

A <u>*tentative*</u> weekly breakdown is as follows:

	Week of	Sections	Topics
1	Jan 25	5.1, 5.2, 5.3,	Inverse Functions*, Natural Log and Exponential Functions
		5.4, 5.5	General Log and Exponential Functions; Exponential Growth*
2	Feb 1	5.6, 5.7	Inverse Trig and Hyperbolic Functions
3	Feb 8	5.8, 4.3-4.4	L'Hospital's Rule, Review on Integration
4	Feb 15	4.5, 6.1	Substitution; Integration by Parts
5	Feb 22	6.2	MIDTERM 1 on February 23, Trig Integrals
6	Feb 29	6.2, 6.3	Trig Substitution; Partial Fractions
7	Mar 7		Spring break
8	Mar 14		Spring break
9	Mar 21	6.6, 7.1	Improper Integrals; Areas between curves
10	Mar 28	7.2, 7.4, 7.5	Volumes; Arc Length; Surface Area*
			MIDTERM 2 March 29
11	Apr 4	7.6, 7.7	Hydrostatic Force and Work*; Differential Equations*
12	Apr 11	8.1, 8.2	Sequences; Series
13	Apr 18	8.3, 8.4	Integral and Comparison Tests; Convergence Tests
			MIDTERM 3 April 19
14	Apr 25	8.5, 8.6, 8.7	Power Series, Taylor & Maclaurin Series
15	May 2	8.8	Taylor Polynomials (if time permits)

<u>**Homework Assignments.**</u> We will have semi-weekly assignments, usually consisting of an average of 7-8 problems from the textbook. I may occasionally supplement the textbook questions with my own. Problem sets will be assigned at the end of class and due the following class. If for whatever reason you are unable to hand in your assignment in class, you have until 5 PM that day to place it in the box outside of my office door (643 Exley). Late homework assignments will **not** be graded.

I encourage you to discuss homework problems with your classmates, but **you must write up your own solutions**. If you do choose to work together, write your collaborators' names at the top of your paper. Please don't copy your buddy's homework. The point of homework is to learn the material, not copy it for a grade.

Midterms and Exams. There will be three midterm exams and a final exam.
- Midterm 1: Tuesday, February 23, in class
- Midterm 2: Tuesday, March 29, in the evening
- Midterm 3: Tuesday, April 19, in the evening
- Final Exam: Thursday, May 12**

The first midterm exam will be held during class time, in our regular room. The second and third midterm times and locations will be determined as we near each particular test. The final exam time, as scheduled by the registrar, is Thursday, May 12, from 9:00AM - 12:00 PM. PLEASE NOTE that this date and time is *tentative*, to be finalized after Spring Break.

If you have an academic conflict with a midterm exam (such as a class, lab, or another exam), inform me **at least one week before the exam**. If the conflict can't be resolved, I will offer you a make-up exam.

I (or our TA) will hold review sessions before each midterm and the final exam. The times and locations will be determined as we near each particular test.

Calculators are **not** allowed during the midterms or the final exam. You may need a scientific calculator for some homework problems, but in most cases you should be able to do the arithmetic without one.

Moodle. All course materials for Math 122 will be available online on Moodle. This includes any course announcements, homework assignments, and midterm exam solutions.

Office hours. You are encouraged to use my office hours whenever you have questions about the course material. Sometimes one-on-one conversations with me can save you hours of study time on your own! If you can't attend office hours, don't hesitate to email me at ahildum@wesleyan.edu to ask for an appointment for another time.

Math Workshop. The Math Workshop is located in the Science Library in the main floor conference room. It is open most afternoons and evenings. There are always two staff members on duty, who may be either experienced undergraduates or math graduate students. This is a drop-in tutoring service, available to all members of the Wesleyan community. Staff members provide a friendly, relaxed atmosphere while answering questions about mathematics. The workshop is a good place to go when you get stuck on your math homework.

Grades. Your grade in the course will be based on the following:
(1) **Homework (30% of your grade).**
- **No late homework assignments will be graded,** but your three lowest homework grades will be dropped.

(2) **Participation (5% of your grade).**
- Occasionally we may break into pairs/groups in which I might ask you to present a problem or work through a worksheet together.
- Attendance won't be taken every day, but I will keep an eye out for extended or multiple absences, and take those into account when I assign points for participation.
- I want each of you to have a voice in this class. I expect you to both ask and answer questions during class. I expect you to come see me if you need help in the course. Let yourself be known to me, and to your fellow classmates. We probably don't bite.

(3) **Three midterm exams (each 15% of your grade).**
(4) **Final exam (20% of your grade).**

Based on the above breakdown, your overall percentage (rounded to the nearest integer) will be attributed to the appropriate letter grade as given in the table below:

Percentage	Letter	Percentage	Letter
97 - 100	A+	67 - 69	D+
93 - 96	A	63 - 66	D
90 - 92	A-	60 - 62	D-
87 - 89	B+	57 - 59	E+
83 - 86	B	53 - 56	E
80 - 82	B-	50 - 52	E-
77 - 79	C+	49 and below	F
73 - 76	C		
70 - 72	C-		

I *may* curve the final percentage grade slightly, but this will never *lower* your letter grade.

Grades for individual assignments and midterms will be posted to Moodle, however the subtotals/total that Moodle calculates may be incorrect. If you want to calculate your overall grade in the course, use the above breakdown.

Students with disabilities. It is the policy of Wesleyan University to provide reasonable accommodations to students with documented disabilities. Students, however, are responsible for registering with Disabilities Services, in addition to making requests known to me in a timely manner. Note that accommodations are not provided retroactively.

If you believe that you need accommodations for a disability, please contact Dean Patey in Disability Resources, located in North College, Room 021, or call (860) 685-5581 for an appointment. See http://www.wesleyan.edu/studentaffairs/disabilities/Student/index.html for more information.

If you require accommodations in this class, please make an appointment with me as soon as possible, so that appropriate arrangements can be made.

Academic Integrity. You are expected to follow the University's policy on academic integrity. The Honor Code can be found in the Student Handbook. Before you hand in an assignment or a test, you agree to pledge the following:

In accordance with the Honor Code, I affirm that this work has been completed without improper assistance.

It's worth mentioning that if I have a legitimate reason to suspect you have violated the Honor Code, I am required to report it.