Math 122-02 - Calculus I, Part II

Instructor: Ryan Karpisz
Time: Tuesday and Thursday, 1:20-2:40pm
Location: Exley Science Center 137
Office: Exley Science Center 634
Office Hours: Tuesday 12-1 pm and Thursday 3-4pm, and by e-mail
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Textbook
We will study chapters 5-9 of Essential Calculus, Second Edition, by James Stewart.

Prerequisites
There are no formal course prerequisites for Math 122, but students should have taken Math 121 or be competent in the content of that course, which includes functions, limits, differentiation, applications of differentiation, and definite integration, the latter up to the Fundamental Theorem of Calculus and integration by substitution. These are the first four chapters of the textbook.

Course Description
This course will focus on techniques of integration, applications of integration, sequences and series. Other topics, including parametric equations and polar coordinates may be covered, if time permits.

Course Grade Determination
The course grade will be computed as follows:

- Participation - 10%
- Homework - 15%
- Quizzes - 10%
- Midterm 1 - 20%
- Midterm 2 - 20%
- Final Exam - 25%

Homework
Homework is assigned on Thursdays, covering material from that week, and will be due the beginning of class on the following Thursday. Late homework is not accepted, but the lowest two homework grades are dropped.

Homework is, in general, expected to have full solutions or justifications, not just an answer. This allows partial credit in case your final answers are incorrect and shows you know what you are doing.

After submission, I will decide which of the exercises should be graded. For this reason, try all of the exercises to your best ability, since you will not know the ones to be graded beforehand.

The assigned exercises are intended for you to practice the concepts learned in class, to learn the nuances of the material, and to continue deeper into the topics. Because the homework includes material that we cannot cover in class, there will be exercises that you cannot immediately solve. You may need to try different techniques or experiment; this is the process of learning mathematics. You may work together on homework, but please indicate on your papers with whom you have worked. You may also seek additional help from my office hours and e-mail, TA sessions, or the math workshop. Try to make sincere attempts at the exercises before seeking extra help because you do not immediately know what to do.
Quizzes
A quiz will be given on (most) Tuesdays at the beginning of class, covering material from the week before. The quizzes are for you and I to check that you understand basic skills and concepts. You will have ten minutes, starting at the beginning of class, to complete the quiz.

Exams
There will be two midterms and a final exam, expected to be held as follows.

- Midterm 1 - Thursday, March 9th, during class
- Midterm 2 - Thursday, May 4th, during class
- Final - Thursday, May 18th, 9am-12pm

Calculators
Calculators are not allowed during exams. However, some homework problems may require, or be easier with, the use of a calculator. You may also use free graphing calculator applications or websites, which will be permitted in class. I recommend www.desmos.com, which also has mobile apps.

Moodle
All course materials will be available online on Moodle. This includes any announcements, homework assignments, supplemental material and resources, and solutions.

Office Hours I plan to hold office hours Tuesdays 12-1pm and Thursdays 3-4pm. I may be able to accommodate time on one of those days by appointment. I am always available by e-mail if you have questions, as well.

Information regarding potential TA sessions will be given at a later time.

The Math Workshop
The Math Workshop is located in the Science Library in the main floor conference room. It is open Sun-Thu, 7-10pm, and Mon-Fri, 11:45-1:15pm. 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.

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 his or her instructor in a timely manner. If you require accommodations in this class, please make an appointment with your instructor during the first two weeks of class, so that appropriate arrangements can be made. All discussions will remain confidential. Students with disabilities should also contact Laura Patey. Please see http://www.wesleyan.edu/studentaffairs/disabilities/index.html for more information.