Math 118 - 02: Introductory Calculus

General Course Information

Instructor: Noelle Sawyer
Time: Mondays, Wednesdays, and Fridays, 9:50-10:40am, Mondays 12:00-12:50pm
Location: Exley Science Center 137, Exley Science Center 638
Office: Exley Science Center 630A
Office Hours: Tuesdays 3-4pm, Thursdays 10-11am
E-Mail Address: nsawyer@wesleyan.edu
Teaching Assistant: Emma Robin
TA Sessions: Tuesdays and Thursdays, 7:30-8:30pm in Exley 139

Course Description

This course is the continuation of Math 117. It is designed to introduce basic ideas and techniques of integral calculus. While it is not necessary that you have taken Math 117 in order to enroll in Math 118, you will be expected to be proficient in the material covered in Math 117.

This course has a non-traditional format involving active learning, group work, and lecturing. Often class will begin with a brief discussion about themes and examples from previously assigned readings. The class will then divide into groups to work together on examples or discussion questions. Much of the learning will take place within these groups.

This course is aimed at students who do not intend to take math courses at the 200 level. Also note that students may not receive credit for both Math 118 and Math 122.

Textbook

We will continue to use Calculus, Single Variable, 6th edition, by Deborah Hughes-Hallett, et al. The textbook uses practical examples from the physical and social sciences to anticipate and to illustrate the major concepts of calculus.

Since you will be responsible for much of your own learning in this course, you must read the text. In fact, you will regularly be assigned reading on material that has not yet been discussed in class. The assigned readings will be short, but you must spend time studying them, both in an initial reading before class and in rereading as you work the assigned problems.

Much of what you will be doing in this course will be learning how to solve problems. To this end, the text stresses conceptual understanding over memorization and creative approaches to the techniques of calculus over drill.

Technology

Technology can be a useful tool when learning mathematics. In this course, you will need a TI-83 or TI-84 graphing calculator. Other graphing calculators may be acceptable; check with your instructor to be sure. You should bring your graphing calculator to every class.

Participation

An important part of this course is participating in the active learning environment both during the MWF class time and during the Monday noon session. Class attendance and participation is mandatory. You will be given a “participation” grade based on your attendance and your participation.
Homework

Homework is an important part of any math class. It is important that you practice doing the problems. This will help you to understand the material better and will prepare you for the exams. You are encouraged to discuss the homework, and to work together on the problems. However each student is responsible for the final preparation of his or her own individual homework papers.

You may seek help on the individual homework assignments from other students, the TAs, the Math Workshop, and the instructor. There will be TA sessions, which you are strongly encouraged to attend.

Homework will be assigned weekly and will generally be due on Fridays. Late homework will not be accepted, but your lowest homework score will be dropped. Once the homework has been turned in, solutions will be posted on Moodle.

TA Sessions

There will be evening TA sessions for Math 118, open to all sections. The sessions will be Tuesdays and Thursdays, 7:30-8:30pm in Exley 139. This is a great place to work with other students on the homework, and you are encouraged to make it a regular part of your weekly schedule. The teaching assistants will be available to answer questions that you may have while working on the homework.

Office Hours

I will hold office hours Tuesdays 3-4pm and Thursdays 10-11am. If you cannot make these, feel free to email me at nsawyer@wesleyan.edu to make an appointment for a different time.

The Math Workshop

The Math Workshop is located in the basement of the Science Library in Room 88. It is open Sundays-Thursdays, 7-10pm and Mondays-Fridays, 11:45-1:15pm. It is staffed by 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.

Quizzes

There will be a short quiz given at the beginning of most Monday noon sessions. They will be similar to the homework questions and are intended to give you feedback in advance of the exams. The lowest quiz grade will be dropped.

Exams

There will be three 50 minute exams and a final exam.

- Exam 1 - Monday, February 27, 12-12:50pm
- Exam 2 - Monday, April 10, 12-12:50pm
- Exam 3 - Monday, May 8, 12-12:50pm
- Final - Wednesday, May 17, 7-10pm

One of the exam grades will be dropped. In other words, the final can replace one of your exam grades.
Course Grade Determination

The course grade will be computed as follows:

- Participation - 10%
- Homework - 15%
- Quizzes - 15%
- Exam 1 - 20%
- Exam 2 - 20%
- Exam 3 - 20%

The final exam can replace one of your exam grades.

Students with Disabilities

Wesleyan University is committed to ensuring that all qualified students with disabilities are afforded an equal opportunity to participate in and benefit from its programs and services. To receive accommodations, a student must have a documented disability as defined by Section 504 of the Rehabilitation Act of 1973 and the ADA Amendments Act of 2008, and provide documentation of the disability. Since accommodations may require early planning and generally are not provided retroactively, please contact Disability Resources as soon as possible.

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 to discuss your needs and the process for requesting accommodations.

Please see http://www.wesleyan.edu/studentaffairs/disabilities/index.html for more information.