Course Goals & Objectives

Mathematics 110 provides students with an integrative approach to Calculus I that includes the necessary precalculus topics. Broadly speaking, the precalculus topics we will cover include a review of algebra; functions; trigonometric, inverse trigonometric, logarithmic and exponential functions. Calculus topics include limits, continuity, the definition of the derivative, differentiation, extrema, antiderivatives and optimization problems. Upon successful completion of Math 110 students will:

PERFORM COMPLEX ALGEBRAIC MANIPULATIONS

GRAPH AND COMPUTE WITH ALGEBRAIC & TRANSCENDENTAL FUNCTIONS

UNDERSTAND LIMITS & THEIR RELATIONS TO THE GRAPH OF A FUNCTION

UNDERSTAND THE DERIVATIVE & ITS RELATIONSHIP TO “RATE OF CHANGE”

BE ABLE TO CALCULATE DERIVATIVES & EVALUATE LIMITS

BE WELL-PREPARED FOR CALCULUS I

Instructor:

Christina Lee
Office: Pierce 120
Phone: 4-4563
Office Hours: MWF 11-11:45am or by appointment christina.lee@emory.edu

Textbook:

Single-Variable Calculus, early Transcendentals, 8th edition by J. Stewart

SI:

Sofia Hassipis
Course Requirements

Online Homework (WebWorK)

WebWorK is an online homework platform. There will be an assignment after most classes due by the next class. You are welcome to work with other students. WebWorK will allow you to submit answers a finite number of times, so use the preview button and make sure your answer is correct before submitting. I recommend that you to keep a thorough and organized Homework Journal for each WebWork assignment with your work. You should refer to this journal when studying and bring it to office hours if you need help.

Recommended Homework

The WebWorK may not give you enough practice to master the skills of this course. Recommended homework is for your benefit and should be completed as soon as the material is presented. A homework assignment is not considered “complete” until you are able to produce a full solution for each problem without assistance. In general, you should expect to spend at least 2–3 productive hours of study for each class session, or about 6-9 hours per week (not counting time spent reviewing for exams).

Check – Ins

There will be random pop quizzes or assignments that will be collected and graded. This is to ensure you’re able to correctly solve problems and neatly present your computations and solutions. At minimum, there will be one check-in per week and due at the beginning of class. At least five of your lowest check-in scores will be dropped. I will determine the total number to be dropped at the end of the semester.

Exams

There will be four closed book, in-class exams. Exams will be based on material presented in-class and problems done on homework. All exams are cumulative in nature as previous skills are often used in combination with new material. These exams will be announced a week in advance. Any accommodations or excuses must be made far in advance (at least 48 hours prior to the exam).

Final Exam

There will be a comprehensive final exam. The final exam will be required for everyone and any requests to be rescheduled must be approved by Academic Affairs. Do not make any plans to leave campus without consulting the final exam schedule.

COURSE GRADE

Letter grades:

A: 91-100%
B: 81-90%
C: 71-80%
D: 61-70%
F: 0-60%

Letter grades of A-, B+, B-, C+, C-, D+, and D- may be given for percentages near these cutoffs at the discretion of the instructor.
The Fine Print

Attendance

You are expected to attend all classes and are responsible for any information given in class. Should you miss class, please make arrangements to find what you missed from a peer. In addition, very good/poor class participation (attendance and active participation) can affect your final grade by up to a half of a letter grade (up or down).

Technology Policy

No technology is permitted on any exams or quizzes (this includes smart watches).

Please keep all laptops, tablets, and cellphones silenced and put away during class.

It is your responsibility to check your Emory email, Canvas and WeBWorK daily for any announcements and assignments.

Late Policy

Any testing conflicts should be brought to me as soon as possible. Consideration for make-up exams will only be given if you are participating in official college activities or in emergency situations. You will need to provide appropriate written documentation.

Check-in and WeBWorK may not be made up for any reason.

Exceptions to the policy for extenuating circumstances will be made on a case-by-case basis. If I do not hear from you within 24 hours of a due date or exam, you forfeit your chances to earn back lost points.

Honor Code

THE HONOR CODE OF OXFORD COLLEGE APPLIES TO ALL WORK SUBMITTED FOR CREDIT IN THIS COURSE. TO RECEIVE CREDIT FOR WORK SUBMITTED YOU MUST PLACE YOUR NAME ON IT. BY PLACING YOUR NAME ON SUCH WORK, YOU PLEDGE THAT THE WORK HAS BEEN DONE IN ACCORDANCE WITH THE GIVEN INSTRUCTIONS AND THAT YOU HAVE WITNESSED NO HONOR CODE VIOLATIONS IN THE CONDUCT OF THE ASSIGNMENT.

Written Style

Expressing thoughts and arguments require complete sentences. This is paramount in mathematics. Pay attention to your textbook: it is written in sentences. Note “1+1 = 2” is a complete sentence (it has a subject “1+1”, verb “=” and predicate “2”).

To emphasize the importance, your written work will be graded not only on its correctness, but also on the quality of its presentation. Your work needs to be intelligible, so it should be neat, orderly, and be in complete sentences. Use mathematical symbols wherever appropriate.

Help & Resources:

IF YOU ARE FEELING LOST OR OVERWHELMED …

1. Make an appointment with me
   Please email me or make an appointment with me. Many questions and issues can be easily resolved this way.

2. Use the Mathematics Center
   The Mathematics Center is a free resource with both walk in and private tutoring help. Students find it useful to do their homework in the MathCenter, so that they can get help as questions arise.

3. Attend SI sessions
   Your SI is eager to help. Sofia is great at explaining things and giving tips on how to succeed.

4. Make a study group
   Have a reliable study group that meets regularly – study buddies encourage each other, explain things when one of you gets it first, and can ask questions for you when you can’t make it to office hours or the Math Center.

Inclusivity

If you have a documented differing ability (e.g. mental health, attention, learning, vision, hearing, physical or systemic), and you need a reasonable accommodation made for you in this course, please consult with me immediately at the outset of the course so we can design a solution that will help you be successful in the class. (equityandinclusion.emory.edu/access)