Calculus I — MAC 2311

Fall 2019

Instructor: Xiaosheng Li

Lecture Time and Location:
MW 1:00pm – 1:50pm GC 280 F 1:00pm – 2:50pm PC 310

Office Hour: MWF 12:10pm – 12:50pm or by appointment

Office: DM 419C

Email: xli@fiu.edu

Textbook:

Thomas' Calculus, Early Transcendentals, by Hass, Heil, Weir, 14^{th} edition packaged with MyLabsPlus access code OR MyLabsPlus Access Code alone (MyLabsPlus program contains an electronic version of the textbook). ISBN for textbook + access code: 9780135430903; ISBN for access code alone: 9780135420683

How to login to Mylabsplus:

Go to https://fiu-mlpui.openclass.com/ and login using **your panther ID as the username**. Use **"Forgot your password?"** link to create your password. If you already used Mylabsplus in your Calculus course (at FIU), you will have an automatic access to Mylabsplus. If it is the first time you will be using Mylabsplus, you must purchase an access code.

Access code for MyLabsPlus:

You can purchase an access code at FIU bookstore together with the textbook or as standalone item. Or you can purchase code online directly from Pearson while attempting to use the MyLabsPlus site (valid credit card required) - this is the cheapest option. **Please be advised that you MUST purchase a code with a specific ISBN or it will not work for the course.** Note: Pearson can only support access codes purchased from the bookstore and directly through the publisher. Any issues that arise from materials purchased from a third-party vendor (Amazon, Chegg, eBay, etc) must be handled by that particular company. Access codes purchased through third-party vendors will not be replaced by Pearson. This policy includes standalone access codes and access codes included within a packaged bundle.
If you are not able to purchase an access code immediately, you can use a **temporary access code**. A temporary access code can be obtained directly from the MylabsPlus site. A temporary access code is valid for ONLY 14 calendar days and it allows you to get started with your assignments on the first day of classes. After the code expires you

will be prompted to enter the permanent code or purchase the code using a credit card. You will not be allowed to continue your course until a permanent code is entered. You cannot buy/enter a permanent code until the temporary code expires.

Prerequisite:

A grade of C or better in Precalculus Algebra and Trigonometry, MAC 1147, or equivalently a grade of C or better in both courses Precalculus Algebra, MAC 1140, and Trigonometry, MAC 1114. For students with no prior college coursework, an appropriate score on the ALEKS placement assessment can be used.

To succeed in Calculus I, students are assumed to have essential skills in algebra and in trigonometry. The following link contains pre-calculus review problems and students are strongly encouraged to prepare and refresh their skills by doing all the review problems prior to the start of the term.
https://mathstat.fiu.edu/useful-information/math-resources/calculus-ii/precalculus-trig-review.pdf

Course Description:

This is the first course of the Calculus sequence. It introduces the basic concepts and techniques of differential calculus of functions of one real variable. The concept of derivative and its underlying notion of limit will be introduced as well as techniques of differentiation and integration. Applications such as related rates, analysis of graphs of functions, and optimization are an integral part of the course.

Course Objectives:

Upon completion students should demonstrate:

- Strong computational skills of limits, derivatives, and basic anti-derivatives.
- Good understanding of concepts used to develop limits, continuity, and differentiation.
- Reasoning skills in using calculus concepts to solve applied problems, comprehend and reproduce basic proofs such as deducing derivatives of trigonometric functions or establishing the product rule formula for derivatives.

List of Topics:

- Limits and Continuity: Chapter 2, sections 1, 2, 4, 5, 6
- Derivatives: Chapter 3, sections 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11
- Applications of Derivatives: Chapter 4, sections 1, 2, 3, 4, 5, 6, 8
- Indefinite Integrals and the Substitution Method: Section 5.5
- Parametric Curves: Section 11.1 and part of section 11.2 dealing with differentiation

Online Homework Assignments:

- All homework assignments are available at https://fiu-mlpui.openclass.com/

- All homework assignments will have due dates. They will generally be available till 11:59 PM on a due day. After that, program will not allow you to continue. Do not wait until the last minute to complete these assignments since you will not know what problems (technical or not) you might encounter along the way.
- At the end of the semester, the lowest two scores of your homework assignments will be dropped.

Exam Schedule:

Midterm I:	September 27 (Friday),	1:00pm – 2:40pm,	PC 310
Midterm II:	October 25 (Friday),	1:00pm – 2:40pm,	PC 310
Midterm III:	November 22 (Friday),	1:00pm – 2:40pm,	PC 310
Final:	TBD, **Cumulative**		

Grading Policy:

Homework:	15%	Midterm I:	20%
Midterm II:	20%	Midterm III:	20%
Final:	25%		

Letter grades will be assigned approximately as follows (Total=100):

A	A-	B+	B	B-	C+	C	D	F
>= 90	>= 85	>= 80	>= 75	>= 70	>= 65	>= 60	>= 45	< 45

Important:

- No make ups are permitted for all homework assignments and tests.
- All tests are closed books. You will not be permitted to use calculators and formula sheets during tests.
- Picture ID is required and must be presented upon request for all tests.
- Deadline to drop a course with a DR grade: November 4 (Monday).

Academic Misconduct Statement:

- Florida International University is a community dedicated to generating and imparting knowledge through excellent teaching and research, the rigorous and respectful exchange of ideas and community service. All students should respect the right of others to have an equitable opportunity to learn and honestly to demonstrate the quality of their learning. Therefore, all students are expected to adhere to a standard of academic conduct, which demonstrates respect for themselves, their fellow students, and the educational mission of the University. All students are deemed by the University to understand that if they are found responsible for academic misconduct, they will be subject to the Academic Misconduct procedures and sanctions, as outlined in the Student Handbook.

- Academic Misconduct includes: **Cheating** — The unauthorized use of books, notes, aids, electronic sources; or assistance from another person with respect to examinations, course assignments, field service reports, class recitations; or the unauthorized possession of examination papers or course materials, whether originally authorized or not. **Plagiarism** — The use and appropriation of another's work without any indication of the source and the representation of such work as the student's own. Any student who fails to give credit for ideas, expressions or materials taken from another source, including internet sources, is responsible for plagiarism.

- To learn more about the academic integrity policies and procedures visit

  http://integrity.fiu.edu/

Accessibility and Accommodation:

- The Disability Resource Center collaborates with students, faculty, staff, and community members to create diverse learning environments that are usable, equitable, inclusive and sustainable. The DRC provides FIU students with disabilities the necessary support to successfully complete their education and participate in activities available to all students. If you have a diagnosed disability and plan to utilize academic accommodations, please contact the Center at 305-348-3532 or visit them at the Graham Center GC 190.

- For additional assistance please contact FIU's Disability Resource Center

  https://studentaffairs.fiu.edu/get-support/disability-resource-center/

The instructor reserves the right to make changes to this syllabus. These eventual changes, if any, would be announced in class and you are responsible to be aware of them.