Common Syllabus

This syllabus contains information which is common to all sections of Math 0100, Introductory Calculus II, for the Spring 2019 semester. An online copy is available on the course website at https://sites.google.com/a/brown.edu/sp19-math0100/. Information specific to individual sections (such as contact information, lecture and recitation times, office hours, and announcements) can be found by going to the website and clicking the section link on the sidebar.

The Course Head for Math 0100 is Dan Katz. Questions about course content or everyday logistical questions should be addressed to your professor or TA. However, if you have a more unusual or difficult issue that cannot be properly handled by your professor, you should contact the course head at dkatz@math.brown.edu.

Textbook:

Thomas' Calculus: Early Transcendentals, Single Variable, 14th Edition by Thomas, Weir, Hass (ISBN: 978-0-13-443941-9). This is the same edition that was used last semester. This ISBN is for the paperback edition; if you obtain another version (hardback, looseleaf, etc.), make sure it says "14th Edition" and "Early Transcendentals." It is your responsibility to submit the correct problems for homework.

Course Content and Objectives:

Math 0100 is a second-semester calculus course. Successful students will gain a conceptual understanding of advanced techniques of integration, infinite sequences and series, polar and parametric equations, and basic differential equations; learn and demonstrate problem-solving applications of these concepts; and be able to communicate these ideas clearly. Homework assignments and recitation worksheets are intended to support these objectives, and exams are intended to assess them. A more detailed list of topics, and a tentative schedule, can be found on the Homework Page.

A four-credit course at Brown represents approximately 12 hours of work per week, so students should expect to spend an average of 8 hours per week working outside of class (completing homework assignments, reviewing notes and the textbook, seeking help, and preparing for exams). Students may require more or less time based on mathematical background, personal goals, and other factors.

Students who desire a more advanced treatment of the topics with less initial review of integration should consider taking Math 0170, and students planning to concentrate in physics or engineering should take Math 0190 (both of which are offered only in the fall). If your trigonometry is rusty, there is review material here.

Recitation:

In addition to attending lectures, every student must be registered for and attend a weekly recitation section. Each student may choose and register for any recitation, independent of which lecture section they are registered for. However, once you choose a recitation, you will need to attend at that specified time and location each week. Recitation "hopping" is not allowed. **(Note: Recitations will not start meeting until January 31.)**

Recitation sessions will complement the course lectures. Students will be able to review content, ask questions, and most importantly, practice solving problems in small groups. In addition, quizzes will sometimes be administered during recitation.

Students will receive a grade for each recitation (excluding the first one while the course gets organized) that will be based partially on attendance, and partially on quizzes, participation, group problem-solving, or any combination of these. For more information on the recitation and recitation grading, consult the FAQ.

Homework:

Homework will be assigned every week, as posted on the course Homework Page. After each class, you should look at these problems and try to complete them as soon as the relevant content is covered. Most assignments are split up into two types of problems:

- *Self-Check Problems* are odd-numbered problems from the textbook. The solutions to these problems are listed in the back of the book. You do not need to hand in solutions to these problems, but you should solve them and check your answers to ensure you understand the course content.
- *Collected Problems* are even-numbered problems from the textbook. You are expected to write legible and complete solutions to these problems and hand them in during recitation; they will be graded and returned to you. If you are submitting multiple pages, staple or paper clip them together.

It may be tempting to skip the Self-Check Problems because they are not turned in. However, the primary goal of this course is to learn to solve problems and demonstrate that knowledge on exams, and the best way to

accomplish this goal is by *understanding all of the homework*. The Collected Problems alone are not intended to give you enough practice to learn calculus, so if you ignore the Self-Check Problems, you will make the course far more difficult for yourself.

In order to ensure that assignments are graded promptly, and to discourage students from falling behind, **LATE ASSIGNMENTS WILL NOT BE ACCEPTED UNDER ANY CIRCUMSTANCES.** This includes illness, absence, and adding the course late. However, in recognition of the fact that unavoidable issues sometimes arise, the lowest of each student's homework grades (including zeros for unsubmitted assignments) will be dropped when calculating final semester grades. Despite this policy, you should complete every assignment, even if you miss a deadline, because understanding the homework will help you perform well on exams.

Exams:

There will be two midterm exams in the evening, on Tuesday, February 26 and Tuesday, April 9, and a cumulative final exam at 9am on Wednesday, May 8. (The final exam schedule is tentative until shopping period ends.) The use of calculators is not permitted during exams.

If you have a conflict with an exam, you must submit our webform at least one week in advance. If you have an acceptable midterm exam conflict, you 'll be able to take the exam earlier on the same day. Rescheduled final exams will only be given in extreme/emergency situations (or if two exams are scheduled at the same time). More information on the exams, and links to the webforms, can be found on the Exam Information page.

Resources:

If you are struggling with the homework, there are several places to obtain help (listed below, with some more information here):

- All instructors and TAs hold office hours at least once per week; you may also be able to contact them for help outside of these hours, though how and when they are available may vary.
- The math department operates a Math Resource Center on weeknights. This is a good place to work on homework problems and have tutors available to answer questions when you get stuck.
- Finally, the Academic Tutoring Program organizes peer group tutoring sessions for various courses (including this one), available on a limited basis to students who sign up.

Grading:

Your final grade for the course will be determined based on a weighted average calculated as follows:

- 15% - Recitation (two weeks dropped)
- 15% - Homework (one assignment dropped)
- 20% - Midterm Exam 1
- 20% - Midterm Exam 2
- 30% - Final Exam

For more information on how letter grades are assigned, see the Grading Policies Page. There are no opportunities for "extra credit" in this course, during the semester or after the final exam. Grades are not directly based on the amount of time or effort you apply to the course, although if you apply that time and effort *productively*, it should improve your homework and exam grades.

Collaboration Policy and the Academic Code: While students are allowed (and even encouraged) to work together and/or ask each other questions about homework problems, it is unacceptable to copy or submit another student's work, calculations, or final answers without solving the problem yourself. The best practice to obey this policy is to start each problem on your own, seek help if you run into difficulties, and then use that help to finish the problem on your own. Violation of this policy, cheating on exams, or any other form of academic dishonesty is prohibited by Brown's Academic Code and may have serious consequences.

Accessibility Services: Brown is committed to providing support for students with learning differences, physical impairments, and other disabilities. If you think you may need accommodations due to one of these conditions, contact Student and Employee Accessibility Services for more information.