Math 1860-021 — Summer II 2005

Overview

Welcome to calc II! This course has an extremely full syllabus. Many students regard it as the hardest course in the calculus sequence. We pick up where calc I left off, with integration. We will learn several new integration techniques, and also explore applications of integration. We will also study transcendental functions — such as the logarithm, exponential, and inverse trig functions — by combining the Fundamental Theorem with Chain Rule. After this we will begin a study of parametric curves, including polar coordinates, which will continue next semester. Finally, we will study sequences and series. Many students find that this last material is by far the most difficult.

That is a lot of material for a 15-week class. It is very challenging to cover it in 6 weeks. If you are weak on prerequisite material then you are making a mistake to take this course in the summer. At any rate, expect to spend every day for the next 6 weeks working homework problems.

Prerequisites

The first assignment and first exam will contain problems from chapter 5. This is material from calc I, and so we will not cover this material in class. This should be review for you. If you have difficulty with these problems then you should come with questions to my office hours. There is no time to spare in a summer semester. You must immediately identify and eliminate any weaknesses on prerequisites.

Office hours

My office is UH 4080e. The phone number is 530 2975. My email address is paul.hewitt-at-utoledo.edu. I will be in my office after class Monday–Wednesday until 4:30. If you stop by during those times I will be sure to be in my office. If these times are not convenient then we can try to find another time to meet. However, during this summer semester I have very few free hours.

Homework

I have posted on the web all of the homework assigned this semester. These are the same problems that will appear on the exams. For each exam I will choose randomly some of the homework problems. Therefore you should attempt *all* of the assigned problems. However, you *do not* turn in all of your solutions. For each assignment choose 20 problems to turn in for grade. Make a *neat* copy of these solutions, making sure to label the problems clearly, fold your papers lengthwise, and write on the *outside* of your papers

your name and student number, Math 1860-021 summer 05, assignment number and due date.

Thus, not only will you turn in a neat copy of your assignment you will also retain a copy to study.

Each problem is worth 1 point. You must show all work to receive credit for a homework problem. If the problem asks for explanation then you must use complete sentences. Above all, you must be neat. Sloppy work will not be graded. If your handwriting is illegible then take extra care to be neat when you copy your problems.

Homework assignments are due at the beginning of class each Thursday. I will not accept homework past the due date, ever. Under any circumstances. If you must miss class some Thursday then send your homework with a classmate. If you are late for class some Thursday then your homework is late and will not be accepted.

Midterm exams

There will be 5 midterm exams, worth 100 points each. The dates of these exams and the sections they cover have been posted on the web. The problems will be chosen randomly from the posted homework problems. On each midterm exam 2 of the problems, worth 10 points each, will require you to show your work. The remaining 80% of the exam will consist of 8–10 problems in multiple-choice format.

I will not give any make-ups for missed exams unless you have a documented emergency, and if you contact me by phone or email on or before the day of the exam.

Final exam

If, after the 5 assignments and 5 midterm exams, you want to try and improve your final grade then you can take an optional, comprehensive final exam. The format of the final exam will be similar to that of the midterm exams, but it will be much longer. If you choose to take the final exam then your score will be worth 40% of your final grade. If you choose to take the final exam then your score will count towards your final grade. Skipping the final exam is an option. Dropping your score is not.

Calculators

You may use calculators or computer algebra systems when you study and work on the homework problems. In fact, some of the assigned problems encourage this. You will *not* be able to use calculators on any of the exams.

Grades

Your final grade will be based on the following scale:

85–100%: A; 75–85%: B; 65–75%: C; 55–65%: D

At your option I will post your individual scores, under a nickname of your choosing. If you want me to post your scores then bring me a 3×5 card with your name, email address, and the nickname you want to use. I will not email your grades to you. If you do not bring me a 3×5 card then I will not post your scores.

Attendance

If you do not attend class every day, and come to class prepared, then you put yourself at serious risk of failure. This course covers in 6 weeks the same material that is normally covered in 15. There is no time to spare. Most days I will note your attendance and your preparedness. Altho this will not count directly towards your grade it will influence my decisions on borderline grades. Your attendance and your class participation are the main indication of your level of effort.

Academic honesty

The University of Toledo treats academic dishonesty very strictly. I encourage you to study with each other. However, the homework you turn in must be your own work. Do not copy from each other. If you cheat on the homework or exams then you will get an F in this course.