

COURSE INFORMATION: MATH 152 Calculus II

Fall 2011

Lecture Time and Place: 10am, Monday-Wednesday-Friday at 204, Siegel Hall

Lab Time and Place: 3:15pm, Wednesday at 112E Stuart Bldg

Recitation Time and Place: 3:15pm, Wednesday at 222, Alumni Memorial Hall

Instructor: Hemanshu Kaul

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Office Hours: 1:45pm-3pm Monday, and 4:30pm-5:30pm Wednesday, and by appointment. Emailed questions are also encouraged.

Teaching Assistant: Aleksandr Borkovskiy, aleks.bork@yahoo.com

TA Office Hours: 12:30-1:30pm, Tuesday at 120, Engineering 1 Bldg. (primarily for Mathematica labs and recitation).

Course Webpage: <http://www.math.iit.edu/~kaul/TeachingFall11/Math152.html>

Check the course webpage regularly, especially on Monday, Wednesday, and Friday evenings, for announcements, and a lecture log (useful when you miss a class and when reviewing for an exam).

Tutoring Service: Academic Resource Center. Check the schedule at "<http://arc.iit.edu>".

Online Problem Practice: WebAssign "<https://www.webassign.net/>", and/or COW (Calculus on Web) "<http://www.math.temple.edu/~cow/>".

Course Topics: Transcendental functions and their calculus. Integration techniques. Applications of the integral. Indeterminate forms and improper integrals. Polar coordinates. Numerical series and power series expansions. A detailed description of the lecture topics and the course objectives is available at "http://www.iit.edu/csl/am/programs/course_descriptions.shtml"

Textbook: James Stewart, Calculus, Sixth edition, Brooks/Cole.

Grade Break-down: Homework assignments are worth 15%. Quizzes are worth 10%. Mathematica Labs and recitations are worth 10%. Two mid-term exams are worth 35% total. The final exam is worth 30%. The grading scale will be no more strict than A:90-100, B:80-89, C:70-79, D:60-69.

Attendance and Class Participation: You are expected to attend the lectures, and participate in class discussions. Regular class participation and strong attendance will be positively considered for borderline grades at the discretion of the instructor.

Examinations: The mid-term exam dates and their precise topics will be announced in class and on the course webpage. The final exam will be on all the topics covered during the semester. Make-up exams will be given only in case of a documented emergency.

An **improved performance in the final exam** (indicating better understanding of the course material over the whole semester) will help you improve your course grade. The half the score of one of the mid-term exams will be replaced by the (appropriately scaled) final exam score if the final exam score is higher.

Homework: Homework will be assigned regularly through WebAssign. It is your responsibility to check for assignments and their due dates. Previous week's HW will typically be due on Wednesday

night.

Quizzes: Most Fridays, at the beginning of the class, there will be a short quiz based on the HW problems due that week.

Mathematica Labs: Lab assignments and their due dates will be announced on the course webpage. Lab assignments will be started in lab the week before they are due. They will be due once every two weeks. These labs can be done in groups of at most two students. You can obtain a free version of Mathematica from OTS for personal use.

Recitation: The recitation sessions will be used for problem solving. Recitation problems will be announced on the course webpage. You must explain and solve at least one recitation problem at the board during the semester, which will count as the “recitation problem” grade component. A poor grade is replaceable by explaining an additional problem after everyone has had an opportunity.

Grading Policy: You are allowed to discuss homework problems only with your classmates, tutors at ARC, the TA, and me. However, the solutions should be written by you alone. Solutions for quizzes, labs, and exams must be written clearly, legibly, and concisely, and will be graded for mathematical correctness and presentation. Points will be deducted for sloppiness, incoherent or insufficient explanation, or for lack of supporting rationale.

Use the homework solutions (visible soon after the due time) to prepare for the in-class quiz on Friday (next class). Especially note the way of writing and describing the solutions. I use the same descriptive details when I solve examples and quiz problems in class, so pay attention in class also.

For the quizzes and exams, you need to be able to describe the intermediate steps/ calculations/ substitutions for the solution. Just writing the final answer without justifying it will lead to deduction of points.

Advice for Homework on WebAssign:

Log-in Directions:

You will be required to set up your own account using the “class key” that I will give you in class. Go to WebAssign. Click on the I Have A Class Key link. The Class Key is composed of three fields - iit (lower case) followed by two four digit numbers unique to your section. Click Submit. If the information about your section is correct, click Yes, This Is My Class. Then follow the instructions to create a username and password. Once your account is set up, you will not have to use the Class Key again.

You will be given a grace period of approximately 14 days from the first day of classes to access WebAssign before you need to purchase your account online.

Important Advice for Homework:

1. You should first attempt each assigned problem on paper (log off the WebAssign website) like regular paper and pen assignments. Save this written work for review before quizzes and exams. and in case you have to discuss your solution with me. I cannot help you if you don't record your work carefully on paper when you need help from me.
2. Carefully read the WebAssign Student Guide to understand how to format your solutions.
3. When you have finished entering your answers, click on “Submit” and WebAssign will immediately grade your solutions. You can then re-work your incorrect problems and re-submit them to improve your score. You can submit your assignment up to 5 times without penalty.
4. After two incorrect attempts, look at the book again, review your notes and re-do the problem from scratch. Do not guess an answer. Remember you have only 5 attempts for each problem, so do not waste your attempts on frivolous trial and error solutions.

5. Do not enter an equivalent expression when your answer is marked wrong. $x * (2 * x - 5)$ is the same as $(2 * x - 5) * x$, changing from one form to another will not change the validity of your answer. The software behind Webassign matches equivalent expressions, so do not send an email to your instructor that "WebAssign is marking your correct answer wrong". Its extremely rare for such errors to occur.
6. Avoid simple mistakes like: wrong syntax; incorrect usage of parentheses, $x * (2 * x - 5)$ is not the same as $x * 2 * x - 5$; using the incorrect letter for a parameter or a variable in a symbolic solution.
7. If you have technical difficulties with the WebAssign website, please contact their technical support directly online.

Resources for Learning: You are encouraged to utilize the three basic resources available to you. First, your **instructor**, by asking questions during class, or in office hours, or through email. I am here to help you learn outside the class also, but I cannot help you if you don't take the initiative. Second, the tutors at the **Academic Resource Center** in the Galvin library. Third, utilize the **WebAssign** (and/ or the Calculus III exercise book online at the **COW (Calculus on Web)** webpage ("http://www.math.temple.edu/~cow/")) to practice problems and get immediate feedback.

Reasonable accommodations will be made for students with documented disabilities. In order to receive accommodations, students must obtain a letter of accommodation from the Center for Disability Resources and make an appointment to speak with me as soon as possible. The Center for Disability Resources is located in the Life Sciences Building, Room 218, 312-567-5744 or disabilities@iit.edu.