MATH 1505: Calculus 2 (with Maple)

Textbook: *Calculus Early Transcendentals (8th Ed)* by James Stewart

[sections 5:4,5; 6:1,2,4,5, 7:1,[2–4],7,8; 8:1,4,5; 11:1-5,6(ratio!),8-10(emphasize),11; 10:1–4; 9:1-4, optional sections in parentheses: outdated, will not be covered]

Final Exam 1505-03 Sat, Dec 12 10:45–1:15
1505-04 Sat, Dec 12, 1:30–4:00 [switch okay with permission]

Quiz and Test

Absences: Notify me in advance (if possible) in person or by phone/voice-/e-mail. If not possible to anticipate absence, call/e-mail the same day if possible and if necessary explain in person at next available occasion. No valid excuse means 0 (zero). If your excuse is valid a makeup test will be arranged. Freshman note mandatory class attendance rule [excuse note from VPAA office!]. All students: excessive absence coupled with poor performance will result in a grade penalty. All students are held responsible for all class material. See course web site in My Nova Student tab or at my home page.

Registered learning disabled students must conference with instructor at beginning of course.

Homework: READ the book carefully before doing homework. Keep a notebook or looseleaf binder or something in which to record your worked homework problems. Homework will be entered on-line through WebAssign. Doing it is the only way for the concepts to sink in. Bring your notebook/binder/something to office hour when seeking help. [Common MAPLE assignments will be collected via email done in groups of 2 or 3 and count as 10 percent of grade. Keep a backup copy.] Not doing homework will have a snowball effect in derailing your understanding in the course. (When under time pressure at least do some key problems when they are assigned. Finish the rest as soon as you can.)

Grades: Short weekly quiz will monitor your understanding of the homework and class material. 3 hour tests (third takehome?) plus final exam (weighted as a 4th hour test) will largely determine your grade. Lowest quiz grade, lowest of first two test grades dropped only if the subsequent test grade is higher. A formula like

\[ .10(\text{quiz avg}) + .05(\text{hw avg}) + .10(\text{Maple avg}) + .75(\text{tests-final avg}) \]

will be used to compute your raw number grade which has only a relative significance. Letter grades will be assigned in as intelligent a fashion as possible, based on an impression of absolute and relative performance. Individual student progress (and decline!) is also weighed by hand. It is your responsibility to verify grades entered into Blackboard. See grade cutoffs on-line under the course website grading link.

In class tips: Don’t try to write down everything—it’s “all” in the book (or handouts)—unless you have to for your study style. Instead try to understand what I say as I say it and capture the ideas rather than stumbling in the details. Ask a question or slow me up if you are confused. If you don’t, you are wasting an opportunity to do better. Communicate with me, during class or at least after class. Tell me what is unclear. Remember: mechanical calculations can be done by machines; you need to learn the ideas to think for the machines in applying them.

Call me on my cell if I don’t show up promptly for class or a test review session.
Disabilities and Learning Support Services:

Students with disabilities who require reasonable academic accommodations should schedule an appointment to discuss specifics with me. It is the policy of Villanova to make reasonable academic accommodations for qualified individuals with disabilities. You must present verification and register with the Learning Support Office by contacting 610-519-5176 or at learning.support.services@villanova.edu or for physical access or temporary disabling conditions, please contact the Office of Disability Services at 610-519-4095 or email Stephen.mcwilliams@villanova.edu Registration is needed in order to receive accommodations.

Academic integrity statement with link to Academic Integrity Gateway:

All students are expected to uphold Villanova’s Academic Integrity Policy and Code. Any incident of academic dishonesty will result in an F for the assignment and will be reported to the appropriate university officials, per regulations in the Graduate Studies (Liberal Arts and Sciences) Catalog. You can view the Academic Integrity Policy and Code, as well as other useful information related to writing papers, at the Academic Integrity Gateway web site: http://library.villanova.edu/Help/AcademicIntegrity

Having an Academic Integrity code does not make a campus with academic integrity. Please help me believe in your academic integrity. Note that opening on-line resources to work on in class quizzes or tests is grounds for failing the course. If this behavior is seen, there is an obligation to report it to me (although no names please).

I will ask you to sign the Dr. Bob integrity pledge on your tests:
“During this examination, all work has been my own. I have not accessed any of the class web pages or any other sites during the exam. I give my word that I have not resorted to any ethically questionable means of improving my grade or anyone else’s on this examination and that I have not discussed this exam with anyone other than my instructor, nor will I until after the exam period is terminated for all participants.”

Course Description Catalog entry: MAT 1505 – Calculus II:
Description: Integration (indefinite, definite), applications of integration (area, volume, applications to physics and economics, etc.), methods of integration, approximate integration (trapezoidal and Simpson’s rules), improper integrals, differential equations, infinite sequences and series. Continued use of a computer algebra system.

It is assumed the student has had integration up to the fundamental theorem of calculus.

More detail. Check out the class website for more details on all aspects of the course. For example the 5% weight assigned to the WebAssign homework does not reflect the importance of doing the homework to do well in this course. Indeed it is the single most important thing a student can do well to improve his or her performance in the course.