Math 1132

Spring 2010

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Text: *Calculus. Early Transcendentals, Volume 2* by James Stewart (6th Edition), with *WebAssign* code.

Graphing calculators will be used (TI 82, 83, 85 or 86 recommended)

You can buy Volume 2 of the Stewart text at the UConn Coop, online directly from the publilsher (with a discount), and many other places. CAUTION: Make sure you get WebAssign codes bundled with the text as they cost about $25 each semester when purchased separately. Volume 1 of Stewart is used only for Math 1131. You will need to purchase Volume 2 for Math 1132 and the multivariable volume for Math 2110. We chose the single volumes as the recommended text since we were able to have WebAssign codes (for one semester) bundled with each single-semester text. However, you are able to purchase combined versions (a complete singe-variable version for Math 1131-1132 or one large, heavy book for 1131-1132-2110), but make sure you get two or three semesters of WebAssign codes bundled with them. When bundled with the text, the first Webassign code is free and additional semesters of WebAssign codes when bundled with the text cost $10 each after the first.

The publisher has set up a special web page, http://ichapterssites.com/ichapters/micro/?cluster_id=1756. for UConn students to purchase a text online with the WebAssign codes bundled at a discount.

Grading:

Homework	WebAssign	10%
Quizzes	WebAssign and Discussions	10%
Clickers	Lectures	5%
Projects (Labs)	Discussion Class	5%
Exam 1: (Feb 25, 6-8 PM)	Common evening exam (2 hours)	20%
Exam 2: (April 8, 6-8 PM)	Common evening exam (2 hours)	20%
Final Exam: (TBA)	Common (2 hours)	30%
Gateway Exam (Pass/Fail)	Integration	0% (see Note)

Note: Failure to pass the Gateway Exam will lower the course grade by one full letter grade. **Students who get 10/10 on their *first* attempt on the Gateway Exam will get one additional lowest homework graded dropped.**

- The **evening exams** will be held in the rooms listed below from 6-8 pm on Feb 25 and April 8. The dates and times are listed in PeopleSoft, but not the rooms. Common make up exams will be held from 8 to 10 pm on the same days as the exams; permission from your instructor is required in advance.

- **For exam room information for 1st Midterm click here.**
- The first **gateway exam** will begin about March 1 and continue through April 4, during which the gateway exam may be repeated (as often as needed) online in the Mathematics Mac Lab (MSB 203). Practice versions of the gateway exam may be taken online. These practice versions are taken from the same test bank as the actual exams and will be graded online.

Brief course description: This course, a continuation of Math 1131, focuses on techniques and applications of integration and infinite series. Concepts will be treated from a geometric and algebraic perspective.

Topics Covered: Sections to be covered from the text are Chapters 5 through 8 along with 10 and 11, with some initial review of 1131 material from Chapter 5. A syllabus is in a weekly chart here. You are strongly urged to read the book *before* the corresponding lecture in the class and to use office hours of the instructor and TAs, as well as the Q Center to get help. **The pace of this course is not slow**. If you blow off class for a week, you may find yourself completely lost and it can be hard to catch up. Make sure to get any misunderstandings about the material cleared up right away!

Prerequisites: Math 1131. In particular, you are expected to be comfortable with differential calculus.

Homework: Virtually the only way to learn this material well is to solve *lots* of problems, and more is better than less insofar as your mastery of the material is concerned. Some homework questions may appear on quizzes or exams in a slightly altered form (*e.g.*, different numbers are used).

- A central part of your work in the course is the reading of the text and the re-reading of your lecture notes. Focus on both explanations and examples.
- It is a mistake to skip homework, because no skills can be learned by passive involvement, but only by regular practice. Think about how often the UConn basketball team drills basic moves and shots, even if they play a game just once a week. Do you think they practice only once a week? And do they wait to cram all their practice until the night before a game? Skills are learned best over *time*; you can't learn several weeks of material from this course only right before a test.
- Just as you have fixed times in your schedule to come to class, you should consider fixing time each week to study for each of your classes. This regularly schedued study time can help alleviate the possibility of doing no work for a class because you don't have it as part of your regular routine.

Exams: There will be a Gateway exam, 2 midterm exams, and a final.

- Some problems like (but not identical to) those on the homework may be on the exam, but the exam will also have new problems. The exams will test how well you have understood the material, not whether you can solve only the problems you have already solved on the homeworks.
- Bring UConn photo ID to each exam.
- If you need exam accomodations based on a documented disability, you need to speak with both the Center for Student Disabilities and the course instructor *within the first two weeks* of the semester.

Course conduct: To respect everyone's right to a productive learning environment, please refrain from disruptive activities during class. This includes reading newspapers or magazines, and using pagers and cell phones. Please turn *off* all electronic gadgets, including cell phones, before entering the classroom (exceptions are calculators and clickers). On a positive note, do feel free to ask questions!

Calculators: You may use calculators up to and including a TI-89. However, you should not let the calculator become a mental crutch as you try to understand the *ideas* of this course, most of which actually have nothing to do with calculators. You should regard the use of a calculator somewhat like that of a dictionary or grammar table for another language. Someone who needs a dictionary to translate even the simplest part of a basic French text or to hold a conversation in French does not know French that well. Of course properly using and understanding the French language means a lot more than just knowing French words and how they are inflected, but such knowledge *without outside aids* is an important prerequisite to becoming *comfortable* with French. In the same way, your comfort in this course will increase if you can handle certain *basic* computations quickly in your head. These include:

- knowing the values of some basic trigonometric functions at special numbers; at *least* know the sine and cosine of 0, $\pi/2$, and π. If you don't know why these are *easy* to know, please ask!
- multiplying small numbers (like 2 times 6, 3 times 9, or 4 times 7)
- simplifying small fractions (3/6 is 1/2 and 8/12 is 2/3)
- knowing the relation between dividing and multiplying, for instance multiplying by ½ is the *same* as dividing by 2
- knowing approximate values of certain numbers: π is around 3.14, e is around 2.718, $\sqrt{2}$ is around 1.414 and $\sqrt{3}$ is around 1.732 (note: George Washington was born in 1732; a student from Math 1132 in Spring 2004 used this mnemonic device)

Academic integrity: Students are expected to avoid academic misconduct. Your integrity is not worth losing (and the course not worth failing) by falsely presenting yourself in any aspect of this course. For further information on academic integrity, see Appendix A of the Student Code.

Webassign: Here are some pointers about registering and using Webassign.

First, make sure your pop-up blocker is *turned off*. The Webassign registration page is a pop-up, so with the blocker on all you'll see will be a blank page. If you are new to Webassign or you used it before but did not previously pay for multiple semesters of it, do the following:

- Register at the Webassign webpage using the username and password that is explained by your TA. The institution name is uconn.
- (If you're new to Webassign) Read the Quick Start Guide and the FAQ on the website.
- Once you're done with registration, turn your pop-up blocker back on.

If you used Webassign in Fall 2009 and paid for multiple semesters of it, do the following:

- Go to the Webassign website.
- Enter the new username and password which your TA will tell you. The institution name is uconn.
- Stop here if your old and new usernames are the same (and turn your pop-up blocker back on).
- If your old and new usernames are different, you need to link the two usernames. Choose "My Options" in the upper right corner.
- A box pops up with three tabs: Personal Info, Settings, and Accounts. Choose "Accounts".
- Enter the username and password you used in the previous semester.
- On the second password line, enter your current password (found from the TA).
- Click Save.
- Once you're done with registration, turn your pop-up blocker back on.

For all students:

- Troubleshooting: If you can't get into Webassign, be sure you are using the right username, which might include punctuation marks. Tell your TA exactly what username you are using, and if your TA tells you that your username is something else, ask your TA to check the username really appears in the TA's webassign records as being the TA says it is (sometimes Webassign has read part of a username incorrectly when it is uploaded from a spreadsheet by the TA).
- If you purchased access to the ebook, you can access it on Webassign. (Students who paid only for a physical book will not see the ebook.)
- Technical questions about Webassign? Call 800-955-8275 every day, 8 AM--8 PM or send them email from the website (monitored longer than the phone).

There is a feature in Webassign which lets you see how to solve the homework problems after the due date. In Webassign, click on the following (in order):

- "My Assignments" (at the top)
- "Past Assignments" (on the right side),
- the section number from the past you are interested in reviewing,
- the "View Key" box (below the scoring box near the top).
- Now at the end of each question you will see a link called "Click to View Solution". (This has not been enabled for Section 5.2 but has been for the other sections.) A .pdf file will appear for each question you click on to show you a solution. (Note: Antiderivatives are determined up to an additive constant, so a particular antiderivative you find might not match the one in the Webassign solution.)

Clickers: Here is how to obtain and register your clicker.

- Obtain a clicker from top floor of the Co-op (whether or not you buy the text there).
- If you buy the book at the Co-op, it will include a rebate coupon for cost of purchasing clicker (no rebate for registering the clicker).
- Register the clicker on the course site on HuskyCT (make sure to skip Step 2 there). In particular, do *not* try to register your clicker starting on the clicker company's website (you may be taken there from within HuskyCT). Make sure to *disable pop-up blockers* in order to confirm the payment for registration. After you are done, enable pop-up blockers again.
- If you used a clicker in Math 1131 for Fall 2009, use the same login information again.
- When you have registered your clicker, a payment will be taken and you will be sent a confirmation email. Save this confirmation! If you have problems later and speak with the clicker company, they may ask for details from that confirmation message. (For example, the company might fail to register your clicker for the class, and when you talk with them they may ask for a code in the confirmation message.)
- Please try to register your clicker during the first two weeks.
- Troubleshooting: If your clicker does not find the signal in class, one possibility is that you are not yet on the lecturer's clicker list (the lecturer has to update the list of registered clickers to include those that were registered since the last class). Speak with your lecturer about this after class! If you are on the list and the clicker doesn't work, eInstruction has advised the following strange steps: take the batteries out and hold the

power button down for one full minute (while the batteries are out) in order to reset the device. Then see what happens in the next class.

- Technical questions about clickers? Contact eInstruction at 888-333-4988 from 8 AM – 8 PM, Mon–Fri. Or (more efficient?) contact the eInstruction representative working with UConn, Robin Green, by phone at 508-477-8865 and by email at robin.green@einstruction.com.

Makeup Policy: Late work will NOT be accepted. If a true emergency arises, and you must miss an exam, you are responsible for notifying your TA beforehand, supplying the proper documentation, and scheduling a makeup exam. On February 2, 2009, the University Senate passed a motion about religious observances which stipulated that"Students anticipating such a conflict should inform their instructor in writing within the first three weeks of the semester, and prior to the anticipated absence, and should take the initiative to work out with the instructor a schedule for making up missed work. For conflicts with final examinations, students should, as usual, contact the Office of Student Services and Advocacy (formerly the Dean of Students Office).

Gateway Exam (March 1 - April 2)

- All gateway exams are taken in MacLab, MSB 203.
- Calculators are NOT allowed.
- Pass/fail exam (70% required to pass).
- Retakes allowed through April 2.
- Online practice exams

Practice Exams

Midterm 1: Practice Exam 1 Practice Exam 1 Solns Practice Exam 2 Practice Exam 2 Solns