Math 2144, Calculus I
Course Information

Section 009
Fall 2012

Instructor:

Ben Wescoatt
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Email: ben.wescoatt@gmail.com
Course website: oc.okstate.edu
Online homework: webassign.net

Course Times: MTWF 12:30–1:20 PM in ES 412.

Office Hours: Monday and Wednesday from 1:25–2:25 PM at Edmon Low Library. Friday from 1:25–2:25 pm in my office and by appointment.

Course Objectives: Calculus, invented more than 300 years ago by Isaac Newton and Gottfried Leibniz, is one of the greatest achievements of the human intellect. Calculus deals with functions that relate two varying quantities and the rules that govern the rates at which one of these quantities changes or accumulates with respect to the other. Understanding calculus enables us to solve many problems in mathematics, science, and engineering. Our aim in this course is to ensure that you understand the concepts and tools of calculus, that you master the skills required to use those tools, and that you will be able to apply those ideas to solve problems in many disciplines.

Prerequisites: A satisfactory score (minimum 70) on the ALEKS placement exam or a grade of C or better in a college-level course in Trigonometry or Pre-Calculus.

Required Materials: (1) Textbook: *Calculus: Early Transcendentals*, 2nd edition, by Jon Rogawski, and (2) Online homework system WebAssign (http://www.webassign.net). Note that if you buy your book someplace other than one of our local bookstores, you may have to buy WebAssign access directly from WebAssign, which will cost at least $38 per semester. Our bookstore sells the textbook bundled with lifetime access to WebAssign for a reasonable combined price. You must go online and enroll yourself in WebAssign with access to our section as soon as possible:

- For Section 009 use WebAssign Class Key: **okstate 4391 7560**

Course content: This course covers most of chapters 1–6 in our text. Our Pre-Calculus review will be brief, and we will most likely skip sections 2.8, 4.8, 6.4, and 6.5 in the text. Calculus II will begin in Spring 2013 with Chapter 7 of the text.

Calculator usage: Graphing calculators can be a valuable tool for investigating, learning, and applying the ideas of calculus throughout the sciences and engineering. However, facility with calculator usage is not a substitute for your own conceptual understanding or procedural skill. In this course, graphing calculator usage will be permitted on exams as long as your calculator does not have wireless or internet capability, a QWERTY keyboard, a Dvorak Simplified keyboard, or a camera. If you do not own an acceptable graphing calculator, you may borrow one from the Math Department office without charge, starting Tuesday, August 21. Free response exam questions will always require you to show all steps in calculations and to fully justify your answers. I strongly

recommend that your best exam preparation will be to write out homework solutions by hand, using your calculator for numerical steps and for checking your work. Quizzes may or may not allow calculator usage.

Course Requirements: Course requirements are distributed are as follows.

- **Exams** worth 70% of your grade, consisting of 3 hourly exams and a comprehensive final exam. Your exam grade is determined in one of two ways, based on which produces a higher average:

  Option 1: Hourly exams 15% each, Final exam 25%
  Option 2: Hourly exams 10% each, Final exam 40%

  Section 009 Exams: Midterms take place during class time in our classroom.
  - Exam 1, Wednesday, September 19: covers up through section 3.2;
  - Exam 2, Wednesday, October 24: covers up through section 4.4;
  - Exam 3, Wednesday, November 28: covers up through chapter 5;
  - Final Exam: **Tuesday, December 11, 12:00–1:50 PM** in **AGH 107**.
- **WebAssign Assignments**, worth 10% of your grade, are online homework assignments corresponding to all sections of the text, typically due a few days after each section is covered in class. You should download and print out each assignment, write solutions in a homework notebook (either loose leaf or spiral bound), and then enter solutions into the online system by the due date. I reserve the right to check your WebAssign Notebook for completion at various times.
- **Quizzes** and **Team Homework**, worth 20% of your grade. Quizzes help to check your understanding and to prepare you for exams. Quizzes may or may not be announced in advance. Missed quizzes may not be made up. Team Homework assignments are designed to give each homework team experience in solving applied problems and presenting a well-written summary and justification of the solution. Team Homework will be due about once a week, usually on Wednesdays. More details on the Team Homework are in an additional handout.

Grading: The course averages given below guarantee the stated grade. These cutoff scores may be lowered if circumstances warrant:

- 90% guarantees an A in the course,
- 80% guarantees a B,
- 70% guarantees a C,
- 60% guarantees a D.

MLSC: The Mathematics Learning Success Center (MLSC) is on the fourth floor of the Classroom Building and on the first floor of the Edmon Low Library. The tutors can help you with concepts that you have read from your text. Additionally, they can help you understand class notes, complete WebAssign homework problems, or they can help a Team prepare their Team Homework. Hours for Calculus I tutoring will take place in the Library during the following hours:

- Monday through Thursday from 1:00 PM until 9:00 PM;
- Friday from 1:00 PM until 5:00 PM;
- Sundays from 3:00 PM until 9:00 PM.

Makeup exams: Makeup exams will be given only for very serious and unavoidable extenuating circumstances and **only** if you notify me before or as soon as possible after the missed exam. Documentation must be provided.

Drop Policy: The last day to drop the course with no tuition or fees is Monday, August 27. The last day to drop with a partial fee refund is Friday, August 31. The last day to drop the course with an automatic grade of W is Friday, November 9. The W/F deadline is Friday, November 30.

Academic Integrity: Oklahoma State University is committed to the maintenance of the highest standards of integrity and ethical conduct of its members. This level of ethical behavior and integrity will be maintained in this course. Participating in a behavior that violates academic integrity (e.g., unauthorized collaboration, plagiarism, multiple submissions, cheating on examinations, fabricating information, helping another person cheat, unauthorized advance access to examinations, altering or destroying the work of others, and fraudulently altering academic records) will result in your being sanctioned. Violations may subject you to disciplinary action including the following: receiving a failing grade on an assignment, examination or course, receiving a notation of a violation of academic integrity on your transcript (F!), and being suspended from the University. Carefully read the OSU policy at http://academicintegrity.okstate.edu/

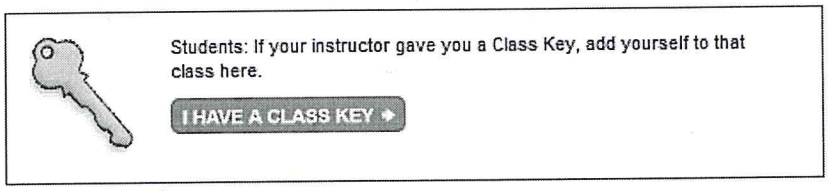
Study Hints: Developing good college-level study habits will help you succeed in Calculus.

- Bring your notebook and homework notebook to every class meeting.
- Come to class having read that section of the text before hand, so you are prepared to ask questions on difficult topics and to work on problems on that topic.
- Attend all meetings of your homework team and contribute in your assigned role.
- Keep up with your work and ask questions as needed: of your homework team members, the MLSC tutors, and your instructor.
- Be responsible for your own learning. The University's guideline for a 4 credit course is that students should be spending a *minimum* of 2 hours outside of class working on course topics for every hour in class. This means that you should be spending a minimum of 8 hours per week reading the text, doing assigned problems from WebAssign, working with your homework team, and so on.
- Exams in college occur less frequently than high school exams and are more comprehensive. As you prepare for exams, make sure to master the big picture as well as the details of the subject. Make sure to identify the concepts and skills you need to tackle a problem you are working on.

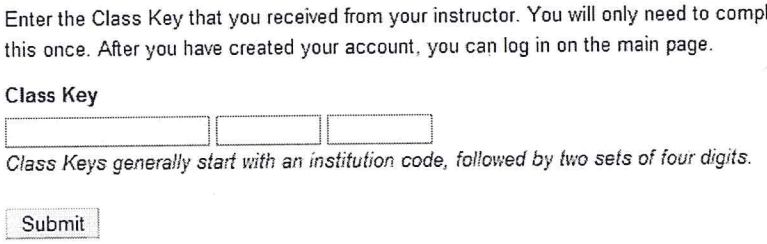
Final Notes: I genuinely care about your success in the course; please feel free to come and talk with me about your understandings of math. If any changes need to be made to the course, I will announce them in class and publish a new syllabus.

WebAssign Self-Enrollment for OSU Calculus

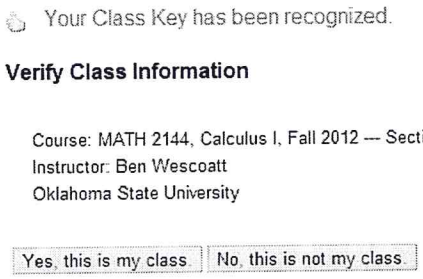
1. Go to https://www.webassign.net/login.html. At the bottom of the page, it should say, "Students: If your instructor gave you a Class Key, add yourself to that class here." Click the button that says, "I have a Class Key."



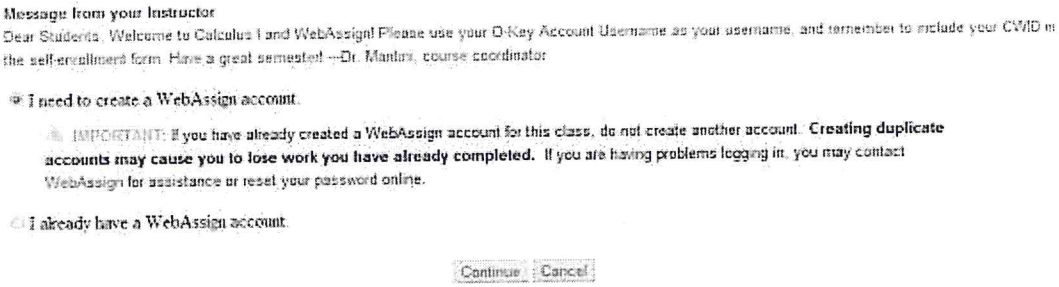
2. Type the class key your instructor gave you in the three boxes that appear. In the first box, you'll type okstate. In the second two, you'll type four-digit numbers. **For Ben Wescoatt's section 009, use okstate 4391 7560.** Click Submit.



3. You should get a screen that says that your Class Key has been recognized. Make sure the section and instructor information match the class in which you're enrolled. (The picture below is from a previous year.) If not, check to be sure you have the right Class Key. If the information is right, click "Yes, this is my class."



4. You will be asked if you already have a WebAssign account. If you have one from a previous semester or another OSU class, then use that one. If you don't already have an account, select, "I need to create a WebAssign account," and click Continue.



5. If you're creating a new account, you will now be asked to pick a username and password. For your username, we recommend that you use your short O-Key login. Your institution code is okstate, and that should be entered already. Pick a password that would be hard for others to guess. Then under student information, please enter your first and last names, e-mail address, and OSU student number. When you're done, click "Create My Account."

6. You may be prompted for an Access Code; it depends on whether you've entered one before and, if so, what type of code you had. You may use WebAssign for two weeks for free but will need a code after that if you haven't entered a multi-semester code before.