

Calculus II, Math 2153, Section 005, Spring 2016



Instructor: Scott Larson

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Class Meeting: TR, 12:30–1:45PM, CLB 112

Office Hours:

- MW, 3:30–4:20PM, MSCS 440
- R, 3:30–4:20PM, MLSC

Online Classroom: oc.okstate.edu

WebAssign: webassign.net/login.html

Syllabus Attachment: <https://academicaffairs.okstate.edu/content/resources-students>

This is a three credit-hour mathematics class that goes quickly and will certainly be more abstract than other math courses you have taken. You should expect to average six hours of work outside of class per week and more if you are struggling. It is very difficult to succeed at this level of mathematics without consistently spending that much time reading the textbook, doing practice problems, and getting help.

Description: Prerequisites: 2144 with grade of *C* or better. A continuation of 2144, including series and their applications, elementary geometry of three dimensions and introductory calculus of vector functions.

Required Materials:

1. Textbook: *Calculus: Early Transcendentals*, third edition, by Jon Rogawski and Colin Adams
2. Online homework system WebAssign (webassign.net/login.html).
 - WebAssign Class Key: **okstate 8208 4940**.

Attendance: Attendance is required; it is rare for a student to do well if he or she misses many classes.

Grades: There are two schemes, and for each student, I will pick the one that gives the higher grade.

| | Scheme 1 | Scheme 2 |
|----------------------------|----------|----------|
| 3 Hour Exams | 15% each | 10% each |
| Final Exam | 25% | 40% |
| Homework/quizzes/classwork | 30% | 30% |

Earning a score of 90% guarantees an *A* for the semester, 80% a *B*, 70% a *C*, and 60% a *D*. I reserve the right to use discretion if you are on the borderline between two grades, considering performance on the final exam, improvement or decline during the semester, attendance, and my subjective judgment of your effort. I will not drop any exam scores. I will drop your two lowest scores from the homework/quizzes/classwork category.

Exams:

| | |
|------------|--------------------------------------|
| Exam 1 | Thursday, February 18 |
| Exam 2 | Tuesday, March 29 |
| Exam 3 | Thursday, April 21 |
| Final Exam | Tuesday, May 3 from 10:00 to 11:50am |

The hour exams will be given in class and the dates for these are tentative; I will communicate any changes in class and in writing. You must tell me in writing by Tuesday, April 19, if you have a university-approved conflict with the final exam time; if you do not meet that deadline, you may not be allowed to take a conflict exam, and if you are, you will have your score decreased up to 15% as a penalty. I cannot give a conflict exam if you do not have a university-approved conflict.

Quizzes and Classwork: Most classes will begin with a few problems to work through from the previous lesson; these problems will be due on the date of the following exam. I will select a few of these problems to grade carefully and the remaining portion of the grade will be based on completion. You will be allowed to work together, but must write your own solutions. It will be to your advantage to make a well organized list of problems (e.g., separate from your notes) so I don't miss any of your work. Some days we will do more substantial work in class, including group work and quizzes. I will announce dates for quizzes in class.

Homework: The best way to learn calculus is by practicing it. I will assign homework essentially every day. You will use WebAssign to do a lot of the computational homework, and you will have written assignments as well, some of which may be done in groups. The written assignments will help you learn to communicate mathematical ideas in a clear, rigorous manner and get feedback on your techniques. I will announce all due dates in class, and I do not generally accept late homework. (Ask me if you have extenuating circumstances; occasionally, I will be more generous if it's a one-time problem.) Missing homework can dramatically lower your course grade, so please keep up with the work, and start early. Computer or network difficulties are not an excuse for late homework. You should expect to have to work hard to get some of the problems; you don't learn anything by doing problems identical to what I do in class. Almost all of my best students need to come to office hours at least occasionally; you should see me at the first sign of trouble.

Conflicts: I will offer reasonable accommodation in the event that you miss a major assessment activity for a valid and documented reason, assuming documentation is provided in advance unless absolutely impossible. For a quiz or exam, you need to tell me as soon as you know you have a conflict and will be ineligible for a make-up if you do not. If you won't be in class when homework is due, turn it in early or give it to someone else to turn in prior to the deadline. I require proof of the reason for your absence (e.g., a doctor's note, proof of involvement in an OSU-sponsored activity, etc.), and you should not assume you will be eligible for a make-up exam or quiz unless I have explicitly approved your request.

Calculators: I will allow calculators without QWERTY keyboards, Internet connections, and symbolic manipulation capabilities on exams and quizzes. (That is, I won't allow calculators that can do indefinite integrals for you.) Don't use calculators as a substitute for conceptual understanding.

What if I need help? You have lots of resources for this course. Often students find it helpful to talk to each other and work through homework or practice problems together. You're encouraged to post questions and answers in the Discussion section of the Online Classroom. For quick questions, you can send me e-mail if you're really too shy to post there, and you should certainly come see me in person during office hours if you have something more than a quick question.

A new option available is WebAssign's personal study plan; this provides additional practice problems from any chapter of your textbook (helpful for reviewing material from the first semester of calculus) and can be found on the course home page in WebAssign.

Finally, there is free tutoring available in the MLSC. The MLSC is on the fifth floor of the Edmon Low Library, and is a great resource. The MSLC has tutors who work with students from Calculus II and can help answer your questions. For more information, visit www.math.okstate.edu/mlsc, or call 405-744-5818 or 405-744-5688.

Academic Honesty: Don't cheat. Don't copy off of other students, allow other students to copy your work, or present work you find in printed or electronic sources as your own. You may get help on homework from other people or sources but should write your solutions independently, without looking at anything someone else has produced. For questions, contact the Office of Academic Affairs, 101 Whitehurst, (405) 744-5627, <http://academicintegrity.okstate.edu>. I deal with cheating very harshly; don't take any chances.

First Assignment: 1. Send me an e-mail at the above address. Write me a paragraph (not a list) including your name, year in school, major, hometown, last math class (and instructor if taken at OSU), and anything interesting about yourself you want to tell me, especially your interests in and out of school. These e-mails let me know something about my students and help me get to know everyone. If you don't get a reply from me within a day, I probably didn't receive the e-mail; talk to me about it.

2. Go to <https://oc.okstate.edu> to log on to the Online Classroom (Desire2Learn). After logging in, you should see Math 2153 in your list of courses. Look at the course documents in the Content section, and find the Discussion board. You should use the Discussion board to converse with me and with others in the class about homework and exam preparation.

3. Find the syllabus attachment described above, and read it carefully.

4. Log onto WebAssign at <https://www.webassign.net/login.html>, and register for this section.

Final Note: Any changes to this syllabus will be communicated to you in class and posted on D2L.