

Calculus - III

Math 5C, Spring 2017

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Office Hours: : MW 11:10 – 12:40 ; TTh 1:40 – 2:15

- ◆ **Text:** Calculus, Early Transcendentals, 7th Ed. By James Stewart
- ◆ **Student Learner Outcomes:** 1. Apply the basic fundamentals of one variable differential and integral calculus as they pertain to multivariable calculus, including derivation and integration. 2. Use vectors and vector functions to model and solve problems by applying vector addition, scalar multiplication, the dot product, the cross product and the calculus of vector functions. 3. Apply the basics of vector calculus including line integrals, Green's Theorem, curl and divergence, and surface integrals.
- ◆ **Grading:**
 - 4 regular exams worth 100 points each.
 - Cumulative Final Exam worth 200 points.
 - HW assignments worth 42 points.
 - Up to 50 miscellaneous points assigned during the semester. (e.g. group projects, quizzes)

90 – 100% of the total = A, 80%-89% = B, 70%-79% = C, 60%-69% = D, less than 60% = F.

- **Attendance:** I want to see you in every class from beginning to end, because I want you to succeed. Research has shown that consistent, engaged attendance is the activity most linked to success in a college course. So missing class is a primary reason why students fail. For example, when you miss a class, you miss over an hour of material that I won't repeat. In fact, we'll build on that material in the next lecture. How will you manage that? If you don't miss class, you don't have to answer that last question. Also I sometimes change an exam date, or it's possible I'll give a miscellaneous assignment due the next day—and I do not accept late assignments. **I WILL help you if you miss a class**, but take responsibility: get lecture notes from a classmate, read up on the text, contact me, etc.
- ◆ **Homework:** Approach homework as a way to learn the material and prepare for tests, rather than as a way to earn points. I assign homework at the end of every class; please think of it as **due** the next class day. However, I **collect** all of a week's homework only at the beginning of class Monday. You may be tempted to put off homework until the weekend. Please resist this temptation, as it is difficult to learn new material without some ownership of the previous material. Missing or putting off homework puts a self-imposed hurdle between you and success in the class.

See the back of this page for requirements for full credit on homework.

- ◆ **Cheating:** If you are caught cheating, I will drop you from the class immediately.
- ◆ **Makeup exams:** I do not give make up exams. If you must miss a test, then contact me as soon as possible, preferably before the test day. **After** we discuss your reason for your missed test, and after I approve, I will allow you to take 95% of your Final Exam percentage to backfill your missing test points. (E.g.: I have approved your absence for test 2. Say you earn 86% on the Final. You'll get 95% of 86 = 82 points for Test 2.)
- ◆ **Graphing Calculators:** Graphing calculators are allowed for class work and HW, but **not** for tests.
- ◆ **Tips for Success:** Tip #1: Attend class every day and actively engage in the material. Tip #2: Do your HW between classes, and with the intention to learn the material, not to earn points.

Tip #3: If you need any help, please see me in my office. I hope you'll find me patient, kind, and helpful. I'll work with you at your pace. If you can't make my office hours, let's schedule a mutually convenient time.

Tied for # 3: Free drop-in tutoring is available at the STEM Center or at the Math Learning Center (MLC) in the HUB Please take advantage of this service **before it's too late**. Assess yourself honestly. If you feel like you do not understand the material, you're probably right. Get help right away. The longer you wait, the less chance there will be to recover.

Tied for #3: Form a study group! I wouldn't have survived college without them. I will circulate a voluntary phone list for you to use as a resource.

- ◆ **Students needing accommodations** should inform the instructor. As required by the Americans with Disabilities Act (ADA), accommodations are provided to insure equal access for students with verified disabilities. To determine if you qualify or need assistance with an accommodation, please contact ACCESSIBILITY SUPPORT CENTER (Formerly DSPS), Room 1073, (831)479-6379.

Instructions for Homework

I give 3 points for each week's homework packet. You earn points for attempting all problems assigned and for whether the correct format is followed. Homework points do not depend on whether your answers and methods are correct. But test grading does depend on your answers and methods. Thus it is your responsibility to know whether your answers and methods on homework are correct.

To get **full** credit on HW—3 points possible each week—you must attempt all assigned problems and follow the following format.

1. Use standard sized paper (8 ½ by 11).
2. Begin each section from the book on a new page.
3. On that new page, begin with a header in the upper left corner. The header needs to include the section number **and** the problems assigned from that section. Again, the header must fit on the upper **left**-hand corner of the first page of each section's homework. (See example)
4. Once you've written your header, the rest of the pages necessary to complete that section do not require any headers. But the next section's problems must start on a new page with a new header.
5. Use paper without rings (ringed pages stick together). Three-hole punch is ok.
6. Don't staple your pages together. Leave them loosely bound, so I can flip through your packet.
7. When turning in HW, fold all the week's assignments—usually multiple pages with multiple sections—lengthwise into **one** packet; make sure your name appears somewhere on the outside of that packet.
8. No late HW accepted. If you miss class on a day that HW is due, have a friend turn it in, or call me to let me know what's happening. When you let me know ahead of time what's happening, you will usually persuade me to accept your HW on the subsequent class. If you just show up the next class and turn it in, you'll receive no points.

Example

Sec. 1.2 1-71 odd.
1.
3.
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