

MA-141-001: Calculus I

Fall 2019

Lecture: M/W/F 8:30-9:20a, SAS 1102

Recitation A: T/Th 8:30-9:20a, SAS 2229

Recitation B: T/Th 3:00-3:50p, Tompkins G112

Instructor: G. Michael Lavigne

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Office: SAS 4121

Office Hours: T/Th 1:30-2:45p

Website: *link*

Recitation Leader: Yvonne Niyonzima

Email: yniyonz@ncsu.edu

Office: SAS 3223

Office Hours: M/W 9:30-10:30a

Course Description. (4 credit hours) First of three semesters in a calculus sequence for science and engineering majors. Functions, graphs, limits, derivatives, rules of differentiation, definite integrals, fundamental theorem of calculus, applications of derivatives and integrals. Credit is not allowed for both MA 141 and MA 121 or MA 131.

Prerequisites. MA 108 or 111 with a C- or better, or a 550 on the SAT Subject Test in Mathematics Level 2 or the NCSU Math Skills Test, or 2 or better on an AP Calculus exam.

Required Materials.

- (1) *WebAssign:* You must purchase access to homework assignments and study materials via WebAssign at <http://webassign.ncsu.edu>.
- (2) *Textbook:* **Calculus for Engineers and Scientists, Volume I, 1st Edition** (J. Franke, J. Griggs, and L. Norris). The textbook is available for download on WebAssign and Moodle.
- (3) *5 Blue Books:* All tests will be taken in examination booklets. Bring 5 booklets (small size preferred, any color) to the recitation leader before the first test to avoid incurring a 2 point penalty on your test grade.

No calculator is necessary for this course. Non-programmable scientific calculators are allowed, but graphing calculators will **not** be allowed on tests.

Attendance Policy. Attendance will be taken at the beginning of class according to a seating chart. Students who are more than 15 minutes late or who are making inappropriate use of technology during class time will be marked absent. Students with **6 or fewer total absences (excused and unexcused)** who have **attended all tests** may replace their lowest in-class test score with their score on the final exam.

Course Structure and Grading. See below for the breakdown of the final numerical grade the rubric for assigning letter grades. Letter grading follows the +/- 10 point scale. All other grading in accordance with University policy.

Component	Weight
WebAssign	10%
4 In-class Tests	60%
Final Exam	25%
Quizzes	5%

98-100	A+	93-97.99	A	90-92.99	A-
87-89.99	B+	83-86.99	B	80-82.99	B-
77-79.99	C+	73-76.99	C	70-72.99	C-
67-69.99	D+	63-66.99	D	60-62.99	D-

WebAssign. WebAssign homework assignments are obtained, submitted, and graded online at <http://webassign.ncsu.edu>. Assignments pertaining to the previous week's lecture material will be due **every Tuesday at midnight**. Though submission is electronic, I recommend you work out clear, thorough solutions with pencil and paper as though you were taking an exam.

Quizzes. Quizzes will be given sporadically during the last 10 minutes of lecture. They may or may not be announced beforehand. Half credit will be automatically awarded for simply turning in the quiz with your name on it. Only your 5 highest quiz grades will be counted.

Tests. The 4 in-class tests are closed-book, closed-note, with no graphing calculators permitted.

Test #1: Wednesday, September 11th covering Chapters 0 & 1

Test #2: Wednesday, October 9th covering Chapter 2

Test #3: Wednesday, October 30th covering Chapter 3

Test #4: Friday, November 22nd covering Chapter 4

Final Exam. The final exam date is scheduled by the University for Monday, December 9, 8a-11a in SAS 1102 and is non-negotiable.

OTHER POLICIES

Test Make-up Policy. Test make-ups are administered in accordance with University policy. Anticipated, excused absences (such as NCSU obligations, required court attendance, and religious observance) must be reported *well before* the scheduled test date. Legitimate emergency absences must be reported with appropriate documentation within one week of returning to class. No other make-ups will be given.

Corrections to Grading. If you think an error may have been made in the grading of your test, contact the instructor within 1 week of the test being returned. Do NOT alter the original work.

Mediasite. Our class lectures will be automatically recorded and uploaded to the class Mediasite page. Your image may appear in these recordings as you enter or exit the room, but only the instructor will be visible during normal lecture time. By remaining in this course you consent to be present during recordings.

Resources for Assistance. Never hesitate to email the instructor or recitation leader if you need help, as office hours are always available by appointment. If emailing the instructor directly, please include MA-141 in the subject line. Free drop-in tutoring is available at the **MMC** in SAS 2103/2105 weekdays 8a-5p. You may also receive tutoring at the **University Tutorial Center**

Disability Services. Reasonable accommodations will be made for students with verifiable disabilities. To receive accommodations, students must register with the Disability Resource Office. <https://dro.dasa.ncsu.edu/> Please see the Academic Accommodations for Students with Disabilities Regulations (REG02.20.1). You must discuss accommodations with me *prior* to a test date.

How to win at Calculus.

- (1) **Be physically present.** Getting up for an 8:30 class will not always be easy, but I promise that if you invest the energy to get yourself here, I will invest the energy to make the lecture engaging, entertaining, and worth getting out of bed for.
- (2) **Be mentally present.** The time we have together is precious, do not let it be wasted. Do not sacrifice your mental presence for the sake of furious note taking. Whenever possible, focus on listening rather than copying. Leave any distractions in your bag.
- (3) **Be active, not reactive.** Form study groups, come to office hours, intentionally prepare for recitations. Do all of these things *before* you need help, not after. The more actively immersed you are in the course, the more easily confusion can be quickly dispelled.
- (4) **Maintain momentum.** Do some calculus every day, even just one homework problem. Making a daily habit reinforces your mental commitment to the class and makes lectures and recitations more productive for you.

Diversity and Inclusion. My job as instructor can not begin until every single student feels unequivocally welcome in my classroom. I would like to create a learning environment for my students that supports a diversity of thoughts, perspectives and experiences, and honors your identities (including race, gender, class, sexuality, religion, ability, etc.) To help accomplish this:

- If you have a name and/or set of pronouns that differ from those that appear in your official NC State records, please let me know!
- If you feel like your performance in the class is being impacted by your experiences outside of class, please dont hesitate to come and talk with me. I want to be a resource for you. Remember that you can also submit anonymous feedback.
- I (like many people) am still in the process of learning about diverse perspectives and identities. If something was said in class (by anyone) that made you feel uncomfortable, please talk to me about it or report it anonymously

As a participant in course discussions, you should also strive to honor the diversity of your classmates. Absolutely no language that would make any student feel uncomfortable, unwelcome, or "othered" will be tolerated.