

Math 141 Syllabus – Spring 2019 Section 1

Instructor: Elizabeth J. Dempster

Office: Sas 3250

Office Hours:

Email: ejdempst@ncsu.edu Please sign all of your emails with your name with course and section number; I will respond as quickly as I can.

Teaching Assistant:

Office Hours:

Course Description: 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.

Homework: Your homework will be submitted online. You must purchase access to the homework for this course at <http://webassign.ncsu.edu> You are purchasing both the text book and the homework.

Text: Posted on your Webassign website, Calculus for Scientists and Engineers, Volume 1 by Franke, Griggs and Norris

Summary of Course Components and Grading Percentages

Webassign H/W	10%
Tests (4 tests)	60%
Exam	30%

Calculator Policy: No Graphing Calculators are allowed on tests or exams. You may use a simple NON-graphing calculator – simple!

Blue Books: Each student is to turn in 5 blue books(4 small ones and 1 large one) **DO NOT WRITE ANYWHERE ON THEM.** Please give them before the first test to the teaching assistant and have them check off your name.

**Please see last page with the full page of the day by day calendar but mark these dates now on your semester calendar; these will not change.

Tests and Exam Dates:

Test #1	Friday, February 1
Test #2	Monday, February 25
Test #3	Friday, March 22
Test #4	Wednesday, April 17

Exam Date

Section 1 Monday, May 6th, 8am-11am Sas 1102

***You can only change the exam time if you have 3 within 24 hours and approval through the registrations office and the math department. Let me know early if you need to move an exam time; it has to go through an approval process.*

Make Up Test Policy: If you miss a regular test and qualify to take a make up, that make up test will be given during the last week of classes or you can opt to let your exam score replace the test score BUT you must meet the following requirements to qualify for taking a make up. I follow the University policy that all anticipated absences must be excused in advance of the test date; these include University duties or trips certified by appropriate faculty or staff member. Emergency absences must be reported within one week of the event and can be documented by the Parent and Family Services (515-2441). Make-ups for oversleeping, car trouble, sickness can only be given on the day of the test so email or have someone email or call for you!

Getting Help: Students must take responsibility for their learning and seek help when needed. Communication with the instructor and lecture assistant is essential to your success. We want to help. The **Multi-media center (Sas 2105)** has tutoring on a first come first served basis;

<https://math.sciences.ncsu.edu/undergraduate/courses-faq/math-multimedia-center>.

Also there is tutoring available through the **Undergraduate Tutorial Center**;

<https://tutorial.dasa.ncsu.edu/>

Students with disabilities: Reasonable accommodations will be made for students with verifiable disabilities. In order to take advantage of available accommodations, students must register with Disability Services for Students;

<http://www.ncsu.edu/dso/>

Code of student conduct: Documentation will be submitted to the Office of Student Conduct for students who violate the University Regulations on academic integrity. There can be no graphing calculators used on the tests. No help from any other sources than your own head is allowed during tests (hopefully this is obvious – you are expected to show all your work on your tests papers).

Goals for the class organization

The lecture days for our class are Monday, Wednesday and Friday.

The recitation days are Tuesday and Thursdays; you will be assigned problems and work to be done in groups so please be prepared to come and work; ask questions and be involved!

Attendance Policy:

For each class meeting and recitation day, attendance is taken and considered mandatory for the class. If you are more than 5 minutes late, leave early, are distracted, sleeping etc, you are marked absent for the day. There will be a bonus on your Webassign average based on your attendance.

Goals for the class: I will post on our moodle site lots of things to help with your learning – extra exercises, outlines of class notes, old tests,... Usually I post an outline of problems and ideas I'd like to cover before class so you'll know my goals for the day. Please try to read over the text section before the class lecture day. As with everything, the more you put into it (working before and after each class), the more you'll get out of the classes.

Day by Day Math 141 MWF Spring 2019

Monday	TuesR	Wednesday	ThR	Friday
1/7 Intro to course, .1(Number Systems; Sets and notations)		1/9 .2(Conics; Parabolas, Ellipses & Hyperbolas)		1/11 .3(Functions, big overview section)
1/14 .4 (Parametric Equations)		1/16 1.1 1.2 (Defn. of a limit)		1/18 1.2 (Limits;properties &evaluations)
1/21 No Classes (MLK day)		1/23 1.3 (Continuity)		1/25 1.4(Inst. Velocity)
1/28 2.1(Defn. of Deriv)		1/30 Review		2/1 Test #1 (.1-2.1)
2/4 2.2(Derivative Rules)		2/6 2.3 (More Deriv rules)		2/8 2.4 (Trig Derivatives)
2/11 2.5 (Chain Rule)		2/13 2.6(Implicit Diff)		2/15 2.6 (Logs and other rules)
2/18 2.7 (Related Rates)		2/20 2.7(Related Rates)		2/22 Review
2/25 Test #2 (2.2-2.7)		2/27 3.1 (Newton's Method)		3/1 3.2(Extreme Values)
3/4 3.3 (Shape of a Curve)		3/6 3.4 (Optimization)		3/8 3.5(L'Hopital's Rule)
3/11 No Classes		3/13 Spring Break		3/15 Spring Break
3/18 3.6(Differentials & Antiderivatives)		3/20 Review		3/22 Test #3 (3.1-3.6)
3/25 4.1 (Areas under curves; Riemann Sums)		3/27 4.2(Definition of definite integral)		3/29 4.3 (Fund Theorem of Calculus)
4/1 4.4 (Substitution)		4/3 4.4 and start 4.5 (Int. by parts)		4/5 4.5(Int. by parts)
4/8 Review		4/17 Test 4 (4.1-4.5)		4/19 No Classes (Easter)
4/22 5.1 Areas and Volumes		4/24 5.2 Volumes		4/26 5.3 Volumes Last day of Classes

Exams 4/29-5/7 Date according to official NCSU exam schedule based on time and day of the class.

<https://studentservices.ncsu.edu/calendars/exam/#spring>

Section 1 8:30am MWF meeting time exam is Monday, May 6th, 8am-11am Sas 1102

Section 2 10:40am MWF meeting time exam is Monday, May 29th, 8am-11am Sas 2235