

# MA 121: Elements of Calc

10 Week Summer I – Section 051 – Online Delivery

**Instructor:** Erik Mainellis

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**Course Delivery:** Online Synchronous

**Class Times:** TH 5:30 – 7:25PM (EST)

**Office Hours:** TBD

**Textbook:** Bittinger, M. L. *Calculus and its Applications* (11<sup>th</sup> edition).

## Course Description

For students who require only a single semester of calculus. Emphasis on concepts and applications of calculus, along with basic skills. Algebra review, functions, graphs, limits, derivatives, integrals, logarithmic and exponential functions, functions of several variables, applications in management, applications in biological and social sciences.

*Prerequisite: MA 107 or 111 with a C- or better, or equivalent.*

## Learning Outcomes and Expectations

Beyond its basic description, my goal for this course is to improve your ability to think analytically. While I believe anyone can succeed in math, I understand that it is quite a challenging subject. Most often, success takes time and thought. In addition to consistently watching lectures and taking notes on content, I expect you to complete homework and practice problems at a steady rate as the course progresses. It is important to start coursework *early* so that you have the time to return to it intermittently. This allows your subconscious to grapple with concepts while you are not directly working on math. Your understanding (and probably your grade) will suffer if you wait to start an assignment until the day (or even week) before it is due.

## Course Website

We will be using the Moodle learning management system (<http://wolfware.ncsu.edu>) for this course. Log in using your Unity ID and password. All course content (tests, lecture notes, video recordings, links to Zoom meetings, etc.) will be posted on Moodle.

## Course Communications

I will hold lecture, as well as office hours, via Zoom. I will make class-wide announcements using the Moodle messaging system, which should send you emails containing the message (note that you will not reach anyone if you respond to these notification emails). The best way to contact me is by my ncsu email. All other course communications should be done by coming to office hours, messaging me on Moodle, or asking questions during class. If you cannot make my office hours due to a time conflict, please email me and we can set up a meeting.

## Tests

There will be three tests and a final exam. They are all open note, but closed internet. No collaboration or outside help is allowed for tests. “In-class” tests will be held synchronously with webcams on. I may decide to make one or more of the tests “take-home” to make more time for content. You will also need a way to combine all your pictures/scans into a single PDF. Possible options include phone apps, Adobe, or a website like [combinepdf.com](http://combinepdf.com). Naturally, you will need to figure out your method of choice before the first exam.

## Homework

Homework will be done through WebAssign ([webassign.net](http://webassign.net)). I will send out more information about accessing WebAssign soon. Your end-of-semester WebAssign average will be the total number of points you earned divided by the possible number of points. This means some assignments with many possible points are worth a larger percentage of your grade.

## Final Grade Calculation

- **Homework: 15%** - WebAssign average.
- **Tests: 60%** - There will be three midterm tests; each is worth 20% of your grade.
- **Final Exam: 25%**

This course uses standard NCSU letter grading (with NO ROUNDING):

$90 \leq A- < 93$	$93 \leq A < 97$	$97 \leq A+ \leq 100$
$80 \leq B- < 83$	$83 \leq B < 87$	$87 \leq B+ < 90$
$70 \leq C- < 73$	$73 \leq C < 77$	$77 \leq C+ < 80$
$60 \leq D- < 63$	$63 \leq D < 67$	$67 \leq D+ < 70$
	$0 \leq F < 60$	

## Unity ID and Password

Students need to be familiar with their Unity ID and password to login to the Moodle course site or to access lecture recordings and other university-provided resources. Refer to online information at:

<http://oit.ncsu.edu/unityid> or contact the NCSU HELP desk at (919) 515-HELP or [HELP@ncsu.edu](mailto:HELP@ncsu.edu) for assistance.

## Academic Integrity

Students are required to comply with the university policy on academic integrity found in the Code of Student Conduct found at <http://policies.ncsu.edu/policy/pol-11-35-01>. The NCSU Student Code of Conduct covers all work done in this course. Any suspected violations will be promptly reported. Academic dishonesty will result in an automatic failing grade for the course. You may not work together for tests.

## Accommodations for Disabilities

Reasonable accommodations will be made for students with verifiable disabilities. In order to take advantage of available accommodations, student must register with the Disability Services Office (<http://www.ncsu.edu/dso>), 919-515-7653. For more information on NC State's policy on working with students with disabilities, please see the Academic Accommodations for Students with Disabilities Regulation at <http://policies.ncsu.edu/regulation/reg-02-20-01>.

## Non-Discrimination Policy

NC State University provides equality of opportunity in education and employment for all students and employees. Accordingly, NC State affirms its commitment to maintain a work environment for all employees and an academic environment for all students that is free from all forms of discrimination. Discrimination based on race, color, religion, creed, sex, national origin, age, disability, veteran status, or sexual orientation is a violation of state and federal law and/or NC State University policy and will not be tolerated. Harassment of any person (either in the form of quid pro quo or creation of a hostile environment) based on race, color, religion, creed, sex, national origin, age, disability, veteran status, or sexual orientation also is a violation of state and federal law and/or NC State University policy and will not be tolerated. Retaliation against any person who complains about discrimination is also prohibited. NC State's policies and regulations covering discrimination, harassment, and retaliation may be accessed at <http://policies.ncsu.edu/policy/pol-04-25-05> or [http://www.ncsu.edu/equal\\_op/](http://www.ncsu.edu/equal_op/). Any person who feels that he or she has been the subject of prohibited discrimination, harassment, or retaliation should contact the Office for Equal Opportunity (OEO) at 919-515-3148.

## Copyrighted Materials

The course website contains copyrighted materials and was developed for instructional purposes to be used by students at North Carolina State University. Students currently registered in this course are permitted to print or make copies of parts of this site for their own personal use in conjunction with completing the course. Text, audio files, images or design of this website may not otherwise be distributed or modified in any manner without the prior written permission of the instructor.

## Course Schedule

5/20: R.1, R.2

5/25: R.3, R.4, R.5

5/27: 1.1, 1.2, 1.3

6/1: 1.4, 1.5, Review

6/3: TEST 1

6/8: 1.6, 1.7, 1.8

6/10: 2.1, 2.2, 2.3

6/15: 2.4, 2.5, 3.1

6/17: 3.2, Review

6/22: TEST 2

6/24: NO CLASS

6/29: 3.3, 3.4, 3.5

7/1: 4.1, 4.2

7/6: 4.3, 4.4, 4.5

7/8: 4.6, 5.1, 5.2

7/13: 5.3, Review

7/15: TEST 3

7/20: 5.6, 5.7

7/22: 6.1, 6.2, 6.3

7/27: 6.4, 6.5, 6.6

7/29: Review

8/2, 8/3: Final Exams