

Math 111 Syllabus – Spring 2019

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. If you have an emergency or somehow I don't answer quickly enough for the matter; please send again or come to office hours or find me before or after our class.

Course Description: Study of real numbers, polynomial, rational, exponential, logarithmic, trig functions and all their graphs. The course is designed to prepare the student for Math 141 Calculus. The courses should also improve and refine mathematical problem solving abilities and develop logical reasoning skills. By the end of the semester the student should be able to analyze word problems, graph basic sketches of all kinds of functions, solve equations and understand when to use the skills they've acquired.

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.

Textbook: Precalculus: Algebra and Trigonometry; 1st Edition by Burns-Williams;
The book is delivered through WebAssign. Students will pay for the pdf version of the book and the homework assignments in one sum at the beginning of the semester through the WebAssign site for the course; <http://webassign.ncsu.edu> The course content of the book is also on Moodle once the semester starts. The Moodle site is where the interactive features of the book are found and where you'll mainly work.

Other Reference Materials:

I'll reference and use a FREE online book Openstax

<https://openstax.org/subjects/math>

You may also want to use your high school textbooks or check out Precalculus textbooks from the library.

Summary of Course Components and Grading Percentages

Webassign H/W (Due dates posted on Webassign)	10%
Module Quizzes in Moodle (Pretest & Try Its add to one score for each module) (Do as you decide by have them all done by April 26 th) Surveys will be count as quiz grades in this score	10%
Tests (3 tests, 15% each)	60%
Final Exam	20%

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

Blue Books: Each student is to turn in 5 blue books(4 small ones and 1 large one) **DO NOT WRITE ANYWHERE ON THEM.** Give them to the t.a. before the first test to have them check off your name, doing this before the test is worth +2 points on the Test 1 so don't forget; they are **due on or before Mon, Feb 4th.**

Tests and Exam Dates:

Test #1	Wednesday, Feb 6 th
Test #2	Friday, March 1 st
Test #3	Friday, March 5 th

Exam Date We are following the official NCSU exam schedule. Since our class meets at 11:45am MWF, our exam is **Mon, May 29th 8am-11am**

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

***You can only change the exam time if you have 3 within 24 hours and approval through the registrations office and the math department. Make your travel plans according to the time your exams end.*

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).

If you miss due to illness or other unforeseen emergencies, please email or contact me somehow as soon as you can.

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).

Attendance Policy:

For each class meeting 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.

Day by Day Math 111 MWF Spring 2019

Monday	T	Wednesday	T	Friday
1/7 Intro to the course Mod 1 funcs & notations		1/9 Mod 1,2 Algebra of funcs (interval notations)		1/11 Mod 3 Basic graphs
1/14 Mod 4 Piecewise Graphs		1/16 Mod 5 Translations of graphs		1/18 catch up day intro to lines and next week
1/21 No Classes (MLK day)		1/23 Lines		1/25 Mod 7 Quadratics
1/28 Mod 6 Writing functions		1/30 Mod 6 Continued		2/1 Mod 8 Polynomials
2/4 Review		2/6 Test 1		2/8 Mod 9 Rational Funcs
2/11 Mod 10 Compositions of Funcs		2/13 Mod 11 Inverse Funcs		2/15 Mod 12 Exponential Funcs
2/18 Mod 13 Logarithms		2/20 Mod 15 Prop. of logs and equations		2/22 Equations ; using all the rules of exp & logs
2/25 Mod 14,16 (Word probs. involving logs / Exponents)		2/27 Review		3/1 Test 2
3/4 Mod 17 (Angles)		3/6 Mod 18(Rt. triangle trig)		3/8 Mod 25 (Rt.triangle trig)
3/11 No Classes		3/13 Spring Break		3/15 Spring Break
3/18 Mod 19 (general angles)		3/20 Mod 20(unit circle)		3/22 Mod 21
3/25 Mod 22		3/27 Mod 23		3/29 Mod 24
4/1 (25, 26) Laws of Sines; Laws of Cosines		4/3 Review		4/5 Test # 3
4/8 Conic Sections(distance formula and definitions; parabolas)		4/17 Conics, Ellipses and hyperbolas		4/19 No Classes (Easter)
4/22 Conics		4/24 Exam Review		4/26 Exam Review

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

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