

Math 111.601 Syllabus – Spring 2020

Instructor: Yu, Xingjian

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Email: xyu13@ncsu.edu Please sign all of your emails with your name with course and section number; I will respond as quickly as I can.

In-Person Office Hours: Monday 9-10am

Online Office Hours: Wednesday 6:30-7:30pm, Friday 9-10am (zoom), also by appointment.

E-Mail Policy: Any e-mails or questions sent through WebAssign by 3:00p.m., Monday-Friday, will be answered same business day. Correspondences sent after 3:00p.m. may not be answered until the next business day.

I will answer questions corresponding to exams up until the day before the first date in the exam window. For example, the first exam is scheduled for February 3rd or 4th. I will answer any e-mail received on or before February 2nd regarding the material on the exam. This is to ensure fairness for those taking exams on different dates.

Online Office Hours: Online office hours will be hold through Zoom. More details about Zoom may be found on Moodle. **Note that please RSVP at least 6 hours in advance if you plan to attend the online office hour.** If no one has arrived for office hours after 15 minutes I will end the Zoom session.

Textbooks and WebAssign: The textbook you will be using is Precalculus: Algebra and Trigonometry, by Burns-Williams, 1st Edition. You will purchase the textbook and WebAssign together at the start of the semester. The book is delivered through WebAssign.

Course Description: (3 credit hours) Study of real numbers, polynomial, rational, exponential, logarithmic, trig functions and all their graphs. The course is designed to prepare the student for MA 141 Calculus for Scientists and Engineers. By the end of this course, students should be able to:

1. Recognize and use proper notation, precise definitions and theorems when solving problems and communicating solutions.
2. Manipulate functions and equations algebraically into different forms given specific problem contexts.
3. Graph functions and equations to a required level of accuracy.
4. Solve equations and inequalities algebraically and graphically.
5. Write a function to model a given scenario and make predictions based on that model.

6. Adapt a general function to model a given scenario and make predictions based on that model.

Prerequisites: C- or better in MA 101, or 480 or better on the SAT Subject Test in Mathematics Level 2 or the NCSU Math Skills Test

Lectures: The lectures for the course are inside our learning management system Moodle, <http://wolfware.ncsu.edu/>. Each lecture is about 10-15 minutes in length and is paired with a particular objective or example. They may be viewed by clicking on the WATCH IT box on each page of the book. The Read It materials are from the text.

Pretests, Try It Quizzes, and Chapter Tests: At the beginning of each module you will be asked to take a pretest. There is a question from each of the learning objectives for that module on the pretest. You should take the pretests before studying the module. If you miss one of the questions on a pretest you will be directed to the material in the module that corresponds to that objective. I encourage you to look through all the material regardless of how you perform on the pretest, to make sure you understand the material. If you are familiar with a concept, I do not expect you to spend as much time reviewing, but you do not want to accidentally miss anything either.

After you have studied the material from the objective you will be able to take a Try It quiz on the material. If you get that question correct, you will regain the point you lost on the pretest. So, even if you miss all of the questions on the pretest you can still make a 100 by studying and taking the Try It quizzes to regain the points you lost.

I have included a chapter test at the end of each module to allow you to review the material once again if you would like. You may use these to study for tests or just for additional practice. Each of the problems is worth 1 point, and will add to your module score if you missed both Pretest and Try It questions. If you have full credit for the module already and then miss a Try It quiz question or a Chapter Test question no points will be deducted. You can do all of them for practice without hurting your grade for that module.

If you are confident that you do not know the material in the module, you may view the module materials first then take the "pretest". The pretest option is just there for those people who have taken precalculus recently and need to brush up on some skills more than others.

Pretests, Try Its, and Chapter tests on Moodle should be completed by April 23rd, 2020 (last day of class).

Homework: Homework is due on regularly throughout the semester. Specific due dates will be listed on WebAssign.

Graded homework is assigned via WebAssign, (<http://webassign.ncsu.edu>) a web based homework system. On the first day of classes you will be able to see your course on WebAssign and pay for access. This may be paid on the website with a check card or a credit card. You will

be allowed to use WebAssign for the first few days of class without paying, but you will be denied access to assignments if payment is not made by the due date listed on WebAssign.

You have 5 submissions for each question. The final submission is the grade you receive on the assignment. WebAssign problems make up a large portion of your final grade, so do not fall behind or skip any of these. You will be permitted to do a self-extension. A self-extension will deduct 20% (twenty percent) off any points obtained after the extension. (ie. it will not penalize you for points you have already earned, just those points you will earn after the extension). You will have seven (7) days after the due date to request the extension, and may have two (2) extensions per assignment. After each extension, you will have 48 (forty-eight) hours to complete the extended assignment, or up until the seven (7) days expire. You may contact me with other extension requests.

There is a forum in Moodle for questions about the WebAssign assignments. You may post questions about exercises and give answers or hints to each other. I will chime in occasionally as needed, but this is primarily your opportunity to help each other out.

Exams: You can take the test through Delta within the following time range. Graphing Calculators are not permitted on exams. You may have a simple or scientific calculator. You will be given 60 minutes for each exam.

Test 1: Monday-Tuesday, February 3-4th.

Test 2: Tuesday-Wednesday, March 3-4th.

Test 3: Wednesday-Thursday, April 8-9th.

Final Exam: Monday-Tuesday, April 27-28th.

Make Up Exam Policy: Students may be permitted a make-up exam when they have a documented excuse of sickness, or are participating in a university sponsored event. Students may be required to verify their absence through the NC State Class Absence Verification process. The link can be found at <https://dasa.ncsu.edu/students/absence-verification-process/>. All exams must be made up with a reasonable time frame.

Proctors: If you live within 50 miles of Raleigh: You will take your exams through DELTA. All on-campus testing is by appointment only. Appointments must be made at least 6 hours in advance. Waiting until the last minute to schedule your exam may mean there are no appointments available, so you should schedule your exam as soon as you can. This is especially true during midterms and finals. Arriving late for an appointment may result in the appointment cancellation, and students can sign in for an appointment up to 15 minutes early.

If you live more than 50 miles from Raleigh: You will need to submit a proctor for approval. Off-campus testing should be scheduled at the start of the semester, and the approval process takes at least 72 hours. You should start making arrangements as soon as you hear from DELTA about scheduling exams.

Regardless, DELTA will be sending information out to enrolled students towards the end of January, with information on scheduling appointments, how things work at the testing center, and off-campus testing for those students at a distance. You should look for this e-mail, and proceed accordingly.

Course Grading: The final grade is based on Pretests/Try Its/Chapter Exams (5%), Homework (10%), 3 Tests (60%, valued at 20% each), and a Final Exam (25%). As per the NCSU requirement, the plus/minus grading system will be in effect. Grades will be assigned as follows:

100-98 A+	88-89 B+	78-79 C+	68-69 D+ 0-59 F
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92-97 A	82-87 B	72-77 C	62-67 D
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90-91 A-	80-81 B-	70-71 C-	60-61 D
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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>

Academic Honesty: See <http://policies.ncsu.edu/policy/pol-11-35-01> for a detailed explanation of academic honesty

Honor Pledge: Your signature on any test or assignment indicates "I have neither given nor received unauthorized aid on this test or assignment."

Accommodations for Disabilities: Reasonable accommodations will be made for students with verifiable disabilities. In order to take advantage of available accommodations, students must register with the Disability Resource Office at Holmes Hall, Suite 304, Campus Box 7509, 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 (REG02.20.01) (<https://policies.ncsu.edu/regulation/reg-02-20-01/>).

Non-Discrimination Policy: NC State provides equal opportunity and affirmative action efforts, and prohibits all forms of unlawful discrimination, harassment, and retaliation ("Prohibited Conduct") that are based upon a person's race, color, religion, sex (including pregnancy), national origin, age (40 or older), disability, gender identity, genetic information, sexual orientation, or veteran status (individually and collectively, "Protected Status"). Additional information as to each Protected Status is included in NCSU REG 04.25.02 (Discrimination, Harassment and Retaliation Complaint Procedure). 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 <https://oied.ncsu.edu/divweb/>. 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.

Electronically-Hosted Course Components: Students may be required to disclose personally identifiable information to other students in the course, via electronic tools like email or web-postings, where relevant to the course. Examples include online discussions of class topics, and posting of student coursework. All students are expected to respect the privacy of each other by not sharing or using such information outside the course.

Getting Help: Students must take responsibility for their learning and seek help when needed. Communication with the instructor 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/mathmultimedia-center/>

Also there is tutoring available through the Undergraduate Tutorial Center; <https://tutorial.dasa.ncsu.edu/>

Course Schedule: The course schedule is below and subject to change. The course schedule will help you in figuring out which modules to work on which days. The corresponding homework assignments can then be found on WebAssign.

Week by Week Math 111 Spring 2020

Week 1: (Jan 6-10) Module 1-3.

Week 2: (Jan 13-17) Module 4-5.

Week 3: (Jan 20-24) Module 6-7

Week 4: (Jan 27-31) Module 8

Week 5: (Feb 3-7) Module 9, Review, Test #1 (Module 1-8)

Week 6: (Feb 10-14) Module 10-12.

Week 7: (Feb 17-21) Module 13-15

Week 8: (Feb 24-28) Module 16.

Week 9: (Mar 2-6) Review, Test #2 (Module 9-16)

Week 10: (Mar 9-13) Spring break

Week 11: (Mar 16-20) Module 17-18&25

Week 12: (Mar 23-27) Module 19-21

Week 13: (Mar 30-Apr 3) Module 22-24

Week 14: (Apr 6-Apr 10) Review, Test #3 (Module 17-25)

Week 15: (Apr 13-17) Module 26-27

Week 16: (Apr 20-24) Review

