

Course Syllabus



SYLLABUS for MATH 130.005 SPRING 2026 AT UNC-CHAPEL HILL

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SCHEDULE

Week	Dates	Textbook Sections	Topic
1	Jan 8-9	· S1.1	Introduction Functions
2	Jan 13-15	· S1.3 · S1.5 · S1.4	Function Properties Transformations Piecewise functions

3	Jan 20-22	- S4.2 - S5.1	Inverse functions Angles and their measures
4	Jan 27-29	- S7.1 - S5.2 - Catch up and review	Right angle trigonometry Trig functions-unit circle approach
5	Feb 3-5	- Test 1 Feb 5 - S5.3 - S5.4	Properties of Trig functions Graphs of sine and cosine including phase shift
6	Feb 10-12	- S5.6 - S6.1	Graphs of tangent, cotangent, secant cosecant including phase shift Inverse sine, cosine, and tangent functions
7	Feb 17-19	- S6.2 - S6.3	Inverse secant, cosecant, and cotangent functions Trig equations
8	Feb 24-26	- S6.3 cont'd - Catch up and review - Test 2 Feb 26	
9	Mar 3-5	- S6.3 cont'd - S6.4 - S6.5	Trig identities Sum and difference formulas
10	Mar 10-12	- S6.6 - S7.1	Double angle and half angle formulas Right angle trig applications

		· S7.2	Law of sines Law of cosines
11	Mar 16-20	· Spring break	
12	Mar 24-26	· S7.3 · S9.1 · S9.2	Area of triangles conics Parabolas
13	Mar 31 (no class Apr 2)	· S9.3	Ellipses
14	Apr 7-9	· S9.4 · Catch up and review · Test 3 Apr 9	Hyperbolas
15	Apr 14-16	· S8.1 · S8.2	Polar coordinates Polar equations and graphs
16	Apr 21-23	· S9.7 · S1.1 · Catch up and review	Plane curves and parametric equations Difference quotient
17	Apr 27	· Last day of class	
18	May 2 12-3 PM	· Final exam	

COURSE OVERVIEW

Course Description

Math 130 covers the basic mathematical skills needed for learning calculus. The course is divided into the following main topics:

- Function Properties and Inverses
- Trigonometry
- Conics
- Parametric Equations
- Polar Coordinates

Target Audience

The goal of Math 130 is to prepare students for the calculus sequence Math 231-233. Students who are not planning to take Math 231 are encouraged to take other courses instead to satisfy the Quantitative Reasoning requirement or further their mathematical interests.

Prerequisites

Students are expected to be proficient working with functions and their graphs, manipulating variable expressions, and solving equations using algebra, as demonstrated by passing Math 110 with a grade of C- or higher or Math 110P placement credit.

MATERIALS

MyLabMath and Textbook

You will need:

1. electronic access to [MyLabMath](https://www.pearson.com/en-us/higher-education/products-services/mylab/math.html?srsId=AfmBOorHgYombhzhgK0LOgOmCeDDjKj5qV66myELS2VOp3kRJQdZhVLn)  [_ \(https://www.pearson.com/en-us/higher-education/products-services/mylab/math.html?srsId=AfmBOorHgYombhzhgK0LOgOmCeDDjKj5qV66myELS2VOp3kRJQdZhVLn\)](https://www.pearson.com/en-us/higher-education/products-services/mylab/math.html?srsId=AfmBOorHgYombhzhgK0LOgOmCeDDjKj5qV66myELS2VOp3kRJQdZhVLn). You should be able to access MyLabMath directly from Canvas using the Access Pearson link at the left. Use the instructions in the Student Registration Handout to register. If this doesn't work, our course id is tamim92460. Access will cost about \$100, but you can get 14 days of free access by clicking on the free access link on the page where you decide whether you want 2 years or 18 month access.
2. electronic access or hard copy of chapters 13 - 17 of the textbook Precalculus: Concepts through Functions, A Unit Circle Approach to Trigonometry, 5th edition, by Sullivan and Sullivan.

Note: *MyLabMath already comes with a copy of the ebook.*

Gradescope

Tests, quizzes, and recitation problems will be graded via Gradescope. There is no charge for using Gradescope. You should be able to access Gradescope from the tab at the left of Canvas. If that doesn't work, please go to [gradescope.com](https://www.gradescope.com/)  [_ \(https://www.gradescope.com/\)](https://www.gradescope.com/) and add the course with Entry Code: 2DBEVX. Please use your UNC email.

Learning Catalytics

During lecture, the instructor will ask questions for all students to answer using Learning Catalytics. You can access it from within MyLabMath.

Piazza

Instead of emailing the instructor or TAs with questions about homework problems or logistics, please post your questions on Piazza. Other students, instructors, and TAs can answer them there for the benefit of all students. If you were not automatically added to Piazza, you can register yourself here:

<https://piazza.com/unc/spring2026/math130>  <https://piazza.com/unc/spring2026/math130> 
<https://piazza.com/unc/fall2023/math130>). There is no charge for using Piazza.

Zoom

One office hour each week will be online on Zoom, using the following URL:

<https://unc.zoom.us/j/4206990363>  <https://unc.zoom.us/j/4206990363>). All other office hours will be in person. Class will be in person only.

Videos

Videos for this class can be found in [YouTube Precalculus Play](https://www.youtube.com/playlist?list=PLAEgL_CQRjwSn81I91DFQQ7LMMUgd1IH9)  https://www.youtube.com/playlist?list=PLAEgL_CQRjwSn81I91DFQQ7LMMUgd1IH9  https://www.youtube.com/playlist?list=PLAEgL_CQRjwSn81I91DFQQ7LMMUgd1IH9 with links on Canvas.

ASSIGNMENTS AND EXAMS

The following components of this course will contribute to your grade.

Homework

Please refer to the schedule on MyLabMath for homework due dates. Your lowest homework score will be dropped if at least 75% of students complete the mid-semester course evaluation. Your second lowest homework score will be dropped if at least 75% of students complete the course evaluation at the end of the term.

Before Class Assignments

There will be before-class MyLabMath assignments for most classes, due by the start of class. The lowest two scores on before-class assignments will be dropped.

Learning Catalytics

During lecture, the instructor will ask questions for all students to answer using Learning Catalytics. The questions will be graded for participation only. Students will be given a point for each question answered. At the end of the semester, each student's participation grade will be calculated as the number of points earned divided by 80% of the available points, with a maximum grade of 100%.

Project

One project will be assigned during the semester, in which students will apply the skills from this course to address “real life situations” arising in other disciplines. Students may elect to work as individuals or in a group of up to 4 students, Details will be provided after the second test.

Tests

There will be three tests during the semester, given during recitation. The tentative test dates are as follows:

- Test 1: Thursday, February 5
- Test 2: Thursday, February 26
- Test 3: Thursday, April 9

Final Exam

The comprehensive final exam will be on Monday, May 2 from 12:00 - 3:00 pm. The location is TBD.

GRADING

Your course grade will be calculated as follows.

Assignment	Percentage of Final Grade
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Homework	10%
Before Class	3%
Learning Catalytics	5%
Project	7%

Tests	45%
Final Exam	30%

Grading scale

Letter grade	Percentage
A	93-100
A-	90-92
B+	87-89
B	83-86
B-	80-82
C+	77-79
C	73-76
C-	70-72
D+	67-69
D	63-66
F	0-59

COURSE POLICIES

Communication

Please post questions about homework and class logistics on [Piazza](#) 

<https://piazza.com/class/mjyn90dl8vs168/post/6>).

If you have a private question, specific to your individual circumstances, you can post privately on Piazza or send the instructor an email. If the instructor does not respond to an email or private message within 48 hours, please send a second message.

If you need to have a private conversation, not appropriate for a public office hours setting, please book an appointment via email (stamim@unc.edu).

Illness

Please do not attend class if you are sick. Please consult the filled in notes posted after class. Because LearningCatalytics participation points are calculated out of a total of only 80% of available points, occasional absences due to illness should not affect your participation score.

Late Work

You can get an automatic extension on MyLabMath for a ~10% per-day penalty on unanswered questions.

Make-up Tests and Quizzes

No make-up tests or quizzes will be given. Tests or quizzes can be given early if the student will be absent for university athletics, an academic field trip, or a religious holiday and makes prior arrangements with written documentation at least a week in advance. Exceptions may be made in extreme circumstances with intervention from the Dean of Students. The grade on the final exam will be used to replace either a missing test grade or the lowest test grade, if the final exam score is higher.

HONOR CODE

Honor Code

It is expected that each student in this class will conduct him or herself within the guidelines of the UNC

Honor System, described at <https://catalog.unc.edu/policies-procedures/honor-code/> 

<https://catalog.unc.edu/policies-procedures/honor-code/> .  <https://catalog.unc.edu/policies-procedures/honor-code/>

On homework, pre-class assignments, and in-class assignments, students are encouraged to work together in pairs or small groups, provided that all participants are contributing and the collaboration benefits the learning of all involved. Simply copying or trading answers is an instance of cheating. On homework, pre-class, and in-class assignments, calculators are permitted. Wolfram-Alpha and similar

tools are also permitted on these assignments for the purpose of checking answers and troubleshooting algebra mistakes, but should not be used to circumvent hand computations or calculations.

Tests and exams must be done individually and are closed book and closed notes unless otherwise specified. Calculators are not permitted on these assignments unless otherwise specified. It is an instance of cheating to give or receive help on a test or exam, except from the instructor or TA. In particular, it is a violation of the honor code to post test questions on the internet or access questions that others have posted, or to get help from online problem solving services, whether computerized (e.g. Wolfram Alpha) or staffed by live humans (e.g. Chegg). Because students may be taking tests at different times, no one should discuss any aspect of test or quizzes (content, difficulty, answers, etc.) until all students have completed it. These standards hold whether assessments are taken in person or online.

If you are not sure what is permitted on any assignment, please ask!

In addition to avoiding actual academic dishonesty, please avoid appearances of academic dishonesty.

In particular, please silence and put away cell phones before any exams are handed out, please avoid the appearance of looking at other students' papers, please avoid accessing any internet sites that are not specifically permitted during online assessments. In order to maintain a proper testing atmosphere, the instructor may ask students to switch seats before or during an in-person exam.

Students who take assessments online are responsible for establishing a proper testing environment in their location. This includes silencing and putting away all cell phones and other devices not permitted for the assessment, closing all laptop apps and browser windows that are not required for the assessment, putting away all books and notes not permitted for the assignment, and securing a quiet space free from interruptions.

Students who observe a violation of the honor code should report it to the instructor. The instructor will report any suspected honor code violations to the Honor Court.

HELP WITH CALCULUS

There are many ways to get help for this class.

Office Hours

Saiful's office hours in Chapman Hall 450 and at Zoom. [🔗\(https://unc.zoom.us/j/4206990363\)](https://unc.zoom.us/j/4206990363)
<https://unc.zoom.us/j/4206990363>: [🔗\(https://unc.zoom.us/my/lindagreenunc\)](https://unc.zoom.us/my/lindagreenunc) [🔗\(https://unc.zoom.us/my/lindagreenunc\)](https://unc.zoom.us/my/lindagreenunc)

Mon 11:15 – 12:15 (in Chapman 450)

Wed 11:15 – 12:15 (on Zoom, usually also in person in Chapman 350)

Thu 10-12 (in Chapman 450)

ULA office hours: Tuesday 4-5 pm

Tutoring

The math department offers free [\(https://math.unc.edu/undergraduate/resources/\)](https://math.unc.edu/undergraduate/resources/) tutoring at the [\(https://math.unc.edu/undergraduate/resources/\)](https://math.unc.edu/undergraduate/resources/) **Math Help Center**

[\(https://math.unc.edu/undergraduate/resources/\)](https://math.unc.edu/undergraduate/resources/) , at least 5 [\(https://math.unc.edu/undergraduate/resources/\)](https://math.unc.edu/undergraduate/resources/) days a week.

The Learning Center sponsors free drop-in Peer Tutoring on Monday and Tuesday evenings from 6 - 8 pm. Additional information is here: [\(https://learningcenter.unc.edu/drop-in-peer-tutoring/\)](https://learningcenter.unc.edu/drop-in-peer-tutoring/) [\(https://learningcenter.unc.edu/walk-in-peer-tutoring/\)](https://learningcenter.unc.edu/walk-in-peer-tutoring/) [\(https://learningcenter.unc.edu/walk-in-peer-tutoring/\)](https://learningcenter.unc.edu/walk-in-peer-tutoring/) [\(https://learningcenter.unc.edu/drop-in-peer-tutoring/\)](https://learningcenter.unc.edu/drop-in-peer-tutoring/) [\(https://learningcenter.unc.edu/drop-in-peer-tutoring/\)](https://learningcenter.unc.edu/drop-in-peer-tutoring/)

The Learning Center also has tutoring by appointment, Sunday through Friday. Students can make peer tutoring appointments by going to [\(https://success.oasis.unc.edu/\)](https://success.oasis.unc.edu/) [https://success.oasis.unc.edu.](https://success.oasis.unc.edu/) [\(https://success.oasis.unc.edu/\)](https://success.oasis.unc.edu/)

The math department maintains a tutor list [\(https://math.unc.edu/undergraduate/resources/\)](https://math.unc.edu/undergraduate/resources/) [\(https://math.unc.edu/undergraduate/resources/\)](https://math.unc.edu/undergraduate/resources/) [\(https://math.unc.edu/undergraduate/resources/\)](https://math.unc.edu/undergraduate/resources/) [\(https://math.unc.edu/undergraduate/resources/\)](https://math.unc.edu/undergraduate/resources/) of math grad students offering paid private tutoring.

Copies of final exams from previous years are also available at the previous link.

Academic Coaches

The Learning Center [\(https://learningcenter.unc.edu/\)](https://learningcenter.unc.edu/) [\(https://learningcenter.unc.edu/\)](https://learningcenter.unc.edu/) [\(https://learningcenter.unc.edu/\)](https://learningcenter.unc.edu/) [h](https://learningcenter.unc.edu/) [\(https://learningcenter.unc.edu/\)](https://learningcenter.unc.edu/) as math coaches who can give you tips on how to study for and succeed in a math class. Students can make academic coaching appointments by going to [https://success.oasis.unc.edu.](https://success.oasis.unc.edu/) [\(https://success.oasis.unc.edu/\)](https://success.oasis.unc.edu/)

UNC POLICIES AND SERVICES

Attendance Policy

University Policy: As stated in the University's [Class Attendance Policy](https://catalog.unc.edu/policies-procedures/attendance-grading-examination/#text) [\(https://catalog.unc.edu/policies-procedures/attendance-grading-examination/#text\)](https://catalog.unc.edu/policies-procedures/attendance-grading-examination/#text), no right or privilege exists that permits a student to be absent from any class meetings, except for these University Approved Absences:

1. Authorized University activities: [University Approved Absence Office \(UAAO\)](https://uaao.unc.edu/)  (<https://uaao.unc.edu/>) website provides information and [FAQs for students](https://uaao.unc.edu/faqs-for-students/)  (<https://uaao.unc.edu/faqs-for-students/>) and [FAQs for faculty](https://uaao.unc.edu/faqs-for-faculty/)  (<https://uaao.unc.edu/faqs-for-faculty/>) related to University Approved Absences
2. Disability/religious observance/pregnancy/short-term military service, as required by law and approved by the [University Compliance Office](https://eoc.unc.edu/what-we-do/accommodations/)  (<https://eoc.unc.edu/what-we-do/accommodations/>), or in the case of short-term military service, the Dean of Students
3. Significant health condition and/or personal/family emergency as approved by the [Office of the Dean of Students](https://odos.unc.edu/)  (<https://odos.unc.edu/>), [Gender Violence Service Coordinators](https://gvsc.unc.edu/)  (<https://gvsc.unc.edu/>), and/or the [University Compliance Office](https://eoc.unc.edu/what-we-do/accommodations/)  (<https://eoc.unc.edu/what-we-do/accommodations/>).

Code of Conduct

All students are expected to adhere to University policy and follow the guidelines of the UNC Student Code of Conduct. Additional information can be found at <https://studentconduct.unc.edu/>  (<https://studentconduct.unc.edu/>).

Artificial Intelligence (AI) Use Policy

Carolina students are expected to follow these AI guidelines:

1. AI should help you think, not think for you. You may be able to use these tools to brainstorm ideas, research topics, and analyze problems, but you must decide what's appropriate and accurate.
2. Engage responsibly with AI. You must evaluate AI-generated outputs for potential biases, limitations, inaccuracies, false output, and ethical implications. Do not put personal or confidential data into these tools.
3. The use of AI must be open and documented. You should declare, explain, and cite any use of AI in the creation of your work using applicable standards (e.g., APA, MLA, course guidelines). Understand that you are ultimately 100% responsible for your final product.
4. Follow specific AI guidelines in this syllabus. If you are unsure, check with me. Guidance offered in this syllabus would be referenced should an issue be referred to Student Conduct for alleged academic misconduct.

Syllabus Changes

The instructor reserves the right to make changes to the syllabus including project due dates and test dates. These changes will be announced as early as possible.

Acceptable Use Policy

By attending the University of North Carolina at Chapel Hill, you agree to abide by the University of North Carolina at Chapel Hill policies related to the acceptable use of IT systems and services. The Acceptable Use Policy (AUP) sets the expectation that you will use the University's technology resources responsibly, consistent with the University's mission. In the context of a class, it's quite likely you will participate in online activities that could include personal information about you or your peers, and the AUP addresses your obligations to protect the privacy of class participants. In addition, the AUP addresses matters of others' intellectual property, including copyright. These are only a couple of typical examples, so you should consult the full [Information Technology Acceptable Use Policy](https://policies.unc.edu/TDClient/2833/Portal/KB/ArticleDet?ID=131247)  (<https://policies.unc.edu/TDClient/2833/Portal/KB/ArticleDet?ID=131247>), which covers topics related to using digital resources, such as privacy, confidentiality and intellectual property.

Additionally, consult the [Safe Computing at UNC](https://safecomputing.unc.edu/)  (<https://safecomputing.unc.edu/>) website for information about data security policies, updates, and tips on keeping your identity, information, and devices safe.

Data Security and Privacy

UNC-Chapel Hill is committed to fulfilling its responsibilities of transparency as a state-sponsored institution of higher learning, protecting certain types of information, and using information Carolina collects only for appropriate purposes. Consult the [UNC-Chapel Hill Privacy Statement](https://www.unc.edu/about/privacy-statement/)  (<https://www.unc.edu/about/privacy-statement/>) for additional information.

University Compliance Office – Accommodations

University Compliance Office (UCO) Accommodations Team ([Accommodations – UNC Compliance](https://eoc.unc.edu/accommodations/))  (<https://eoc.unc.edu/accommodations/>) receives requests for accommodations for disability, pregnancy and related conditions, and sincerely held religious beliefs and practices through the University's Policy on Accommodations. UCO Accommodations team determines eligibility and reasonable accommodations consistent with state and federal laws.

Counseling and Psychological Services

UNC-Chapel Hill is strongly committed to addressing the mental health needs of a diverse student body. The [Heels Care Network](http://care.unc.edu/)  (<http://care.unc.edu/>) website is a place to access the many mental health resources at Carolina. CAPS is the primary mental health provider for students, offering timely access to consultation and connection to clinically appropriate services. Go to the [CAPS website](https://caps.unc.edu/)  (<https://caps.unc.edu/>) or visit their facilities on the third floor of the Campus Health building for an initial evaluation to learn more. Students can also call CAPS 24/7 at 919-966-3658 for immediate assistance.

Title IX Resources

Any student who is impacted by discrimination, harassment, interpersonal (relationship) violence, sexual violence, sexual exploitation, or stalking is encouraged to seek resources on campus or in the community. Reports can be made [online to the UCO](https://eoc.unc.edu/report-an-incident/)  or by contacting the [University's Title IX Coordinator \(mailto:%20titleixcoordinator@unc.edu\)](mailto:%20titleixcoordinator@unc.edu), Elizabeth Hall, or the [Report and Response Managers \(mailto:reportandresponse@unc.edu\)](mailto:reportandresponse@unc.edu) in the University Compliance Office (UCO) (formerly the Equal Opportunity and Compliance Office). Please note that I am designated as a Responsible Employee, which means I must report to the UCO any information I receive about the forms of misconduct listed in this paragraph. If you'd like to speak with a confidential resource, those include Counseling and Psychological Services, the University's Ombuds Office, and the [Gender Violence Services Coordinators \(mailto:gvsc@unc.edu\)](mailto:gvsc@unc.edu). Additional resources are available at safe.unc.edu .

Policy on Non-Discrimination

As set out in the University's [Policy Statement on Non-Discrimination](https://policies.unc.edu/TDClient/2833/Portal/KB/ArticleDet?ID=131717) , the University is committed to providing an environment where all members of our community can learn, work, and thrive. Consistent with these principles and applicable laws, it is therefore the University's policy not to discriminate on the basis of age, color, disability, gender, gender expression, gender identity, genetic information, national origin, race, religion, sex, sexual orientation or veteran status as consistent with the University's [Policy on Prohibited Discrimination, Harassment and Related Misconduct](https://policies.unc.edu/TDClient/2833/Portal/KB/ArticleDet?ID=132487) . No person, on the basis of protected status, shall be excluded from participation in, be denied the benefits of, or be subjected to unlawful discrimination, harassment, or retaliation under any University program or activity, including with respect to employment terms and conditions. The University will consider only relevant factors such as individual abilities and qualifications in admissions, hiring, disciplinary action, and all other decisions and will apply consistent standards of conduct and performance.

If you are experiencing harassment or discrimination, you can seek assistance and file a report through the Report and Response Coordinators (email reportandresponse@unc.edu ) or see additional contact info at safe.unc.edu  [\(https://safe.unc.edu/\)](https://safe.unc.edu/) or the [University Compliance Office](https://eoc.unc.edu/report-an-incident/).  [\(https://eoc.unc.edu/report-an-incident/\)](https://eoc.unc.edu/report-an-incident/)

Please note that I am designated as a Responsible Employee, which means that I must report to the UCO any information I receive about harassment or discrimination. If you'd like to speak with a confidential resource, those include Counseling and Psychological Services and the University's Ombuds Office.

Undergraduate Testing Center

The College of Arts and Sciences provides a secure, proctored environment in which exams can be taken. The Center works with instructors to proctor exams for their undergraduate students who are not registered with UCO and who do not need testing accommodations as provided by UCO. In other words, the Center provides a proctored testing environment for students who are unable to take an exam at the normally scheduled time (with pre-arrangement by your instructor). For more information, visit the [testing center website](http://testingcenter.web.unc.edu/)  (<http://testingcenter.web.unc.edu/>).

Learning Center

Want to get the most out of this course or others this semester? Visit [UNC's Learning Center](http://learningcenter.unc.edu/)  (<http://learningcenter.unc.edu/>) to make an appointment or register for an event. Their free, popular programs will help you optimize your academic performance. Try academic coaching, peer tutoring, STEM support, ADHD/LD services, workshops and study camps, or review tips and tools available on the website.

Writing Center

For free feedback on any course writing projects, check out UNC's Writing Center. Writing Center coaches can assist with any writing project, including multimedia projects and application essays, at any stage of the writing process. You don't even need a draft to come visit. To schedule a 45-minute appointment, review quick tips, or request written feedback online, visit [UNC's Writing Center online](http://writingcenter.unc.edu/)  (<http://writingcenter.unc.edu/>).