

Instructor	Section(s)	e-mail	Help Times and Location
Ms. Chen Shen	1 – MWF 9:05-9:55	<a href="mailto:cshen@live.unc.edu">cshen@live.unc.edu</a>	MHC - PH 237: T 10-12, W 11-12, R 10-12
Mr. Ian Philipp	2 – MWF 10:10-11:00	<a href="mailto:iphilipp@live.unc.edu">iphilipp@live.unc.edu</a>	MHC - PH 237: MWF 12-1, TR 1-2
Mr. Joshua Kiers	5 – MWF 1:25-2:15	<a href="mailto:jokiers@live.unc.edu">jokiers@live.unc.edu</a>	MHC - PH 237: M 10-12, W 10-11, F 10-12
Dr. Brenda Shryock Course Coordinator	3 – MWF 11:15-12:05 4 – MWF 12:20-1:10	<a href="mailto:shryock@math.unc.edu">shryock@math.unc.edu</a>	PH 340: MWF 1:15-2:15

**Class Location:** PH 335 for all sections

**Text or eText:** *Precalculus, Functions & Graphs*, by Swokowski/Cole, 12<sup>th</sup> Ed., Cengage Learning

**Web Access:** WebAssign (WA) – access code may be bundled with the textbook or purchased from WA

- Every student is responsible for having internet access to complete assignments by the due date/time, this includes athletes while traveling with the team.

**Computer:** A laptop computer is required that meets the UNC – Chapel Hill requirements.

**Calculator:** A scientific or graphing calculator is required. Calculators are not allowed on tests or the final exam.

**Prerequisite:** Any student who does not meet at least one of the following prerequisites will be dropped from the course.

Math 110 or Math 110P in your Course History on CC as earned by...

- A score of 520 or higher on the SAT Math Subject Test Level 1 or 2
- A score of 27 or higher on the math portion of the ACT
- A score of 2 on the Calculus AP exam (or AB subscore from the BC exam)
- A passing grade in Math 110

Note: A student cannot receive credit for Math 130 after receiving credit for Math 231 or Math 241.

**Course Description:** Math 130 is an active-learning course where students are actively involved in knowledge acquisition and construction. Students have access to online section notes, videos, tutorials, assignments, and tests. Math 130 is designed primarily for students who will enter the calculus sequence Math 231-233. Topics include the basic concepts of trigonometry and analytic geometry and algebraic concepts relevant to the future study of calculus. The course is mainly problem oriented, and students should anticipate spending about 10-12 hours per week on this course. (3 credits)

**Attendance:** You are expected to be in class each day for the entire time. Any student who does not attend 2 class days of our first 6 class days of the semester may be dropped from the course. Make-up tests are **NOT** given.

**Emails:** Course emails will be sent via CC. Read all course emails! They include important items of business and information. Set up a Math 130 email folder.

**Section Notes:** Links to section notes, that accompany the material in the text, are available on WA. The notes include learning objectives, required readings, a discussion section with additional worked examples, helpful hints, and warnings about pitfalls.

**Section Videos:** Links to videos are available on WA. These short videos introduce topics or demonstrate how to solve various types of problems found in the homework and on tests.

#### **Assignments:**

- General WA Assignment Information
  - All WA assignments are open resource and not proctored
  - Due dates for each assignment are listed on your Schedule of Instruction and on WA
  - You will have 1-3 attempts to answer each question correctly
    - 1 attempt for binary type questions such as true/false or multiple choice items with 3 choices
    - 2 attempts for multiple choice items with 4 or more choices
    - 3 attempts for open response questions that are not binary in nature
  - After an assignment is past due, to view the assignment, click on Past or All Assignments
  - After an assignment is past due, to view the key, click on Past or All Assignments, click on View Key
  - You may request a 1-day extension on WA with a 25% penalty on unanswered questions within 24 hours of the original due date/time
  - Tech support is available from the log-in page on WA
- Before-Class WA assignments
  - Vocabulary, Algebra & Geometry review material, or Tutorial-style questions

- 22 assignments, each worth 10 points, due 1 hour before the start of class
- During-Class WA assignments
  - Practice problems to accompany the section covered
  - 22 assignments, each worth 10 points, due at the end of class
- HW WA assignments
  - The practice problems list is available in the section notes and on the Practice Problems document
  - The practice problems not on WA are to be completed but not turned in for grading
  - 22 assignments, each worth 100 points, due at 11:30 PM on the due date as indicated on the Schedule of Instruction
  - Every WA HW question matches up with a question from the text – look for the code in the blue box
    - SwokPreCalc12 2.4.008 matches up with Chapter 2, Section 4, Question 8
  - Practice Another Version (PAV) and Master It are available on many questions after an assignment is due – excellent for reviewing or seeing a solution. Click in the answer box to activate PAV.
  - 5% bonus for completing an assignment more than 24 hours before it is due
- Test Review Assignments
  - 3 assignments, each worth 20 points, due 1 hour before the start of class on the indicated due date
- ❖ If you added this course after the first day of classes, you are responsible for making up all missed assignments before the posted due dates.

**Piazza:** Online homework discussion forum: <http://piazza.com/unc/fall2017/math130?token=ZaD4vj711XY>

**Class Time:** During the 50-minute meeting, students will develop a conceptual understanding of the section topics by discussing and working the examples on the During-Class WA assignments. Prior to each class meeting, students are expected to read and study the appropriate section notes and section from your text, watch the video(s), and complete the Before-Class WA assignment. Bring your computer, textbook, paper, pencil, and calculator to the meeting and be ready to work.

**Tests:**

- You will take 3 computer-generated tests on your laptop computer with only 1 submission per test.
- Test deadlines are listed on the Schedule of Instruction along with the sections covered on each test.
- All tests are proctored, calculators are not allowed, and test scores are not curved.
- You must show all work and your answer clearly marked on the test pages where you will pledge.
- Be sure your computer is charged and that your wireless access works in Phillips 335. A power cable is recommended. Each student is responsible for his/her working, connected computer.
- At the end of the semester, students who missed a test and all others may elect to retake 1 of the 3 tests. The higher score will be the one that counts. See the Schedule of Instruction for the Retake test date.
- There are no extensions or make-up tests, including the retake. If a test is missed, it will be scored as a zero no matter what the excuse. The retake can be used to replace the zero.
- To view a test and key after it is released, click on Past or All Assignments, open the test, and click on the View Key box.

**Special Note:** ARS students with extended time on tests must be free either immediately before or after class. Tests will not be given at any time other than the scheduled day/time on the Schedule of Instruction. List **Brenda Shryock** as your contact person.

**Final Exam:** The comprehensive, paper-and-pencil final exam will be taken on **Friday, Dec 8 from 8-11 AM**. This is a common exam taken by all sections of Math 130 at the same time. Under no circumstances will the final exam be given early. Old final exams and keys can be found in the links list on WA.

**Grading System:**

- WA Assignments – Before Class, During Class, and HW: 1/6<sup>th</sup>
- Tests: 1/6<sup>th</sup> each, for a total of 50%
- Final Exam: 1/3<sup>rd</sup>
- Course Score = 
$$\frac{\text{WA assignment mean} + \text{Test 1} + \text{Test 2} + \text{Test 3} + 2 \cdot \text{Final}}{6}$$

Grading is on a 10-point scale, rounded to the nearest integer.

Letter Grade	-		+
A	90-91%	92-100%	
B	80-81%	82-87%	88-89%
C	70-71%	72-77%	78-79%
D		60-67%	68-69%
F		Below 60%	

Note: Students receiving a grade below C- in Math 130 are not permitted to enroll in Math 231.

\*There are no opportunities for extra credit in this class.

### Other Resources

- Math Help Center (MHC): <http://math.unc.edu/for-undergrads/help-center>
  - Free one-on-one or small-group help in Phillips 237
- UNC Learning Center – The following services are free: <http://learningcenter.unc.edu>
  - Math Plus – collaborative learning group – Jackie Stone · [jacsto@email.unc.edu](mailto:jacsto@email.unc.edu)
  - Academic Coaching – Jackie Stone · [jacsto@email.unc.edu](mailto:jacsto@email.unc.edu)
  - Peer Tutoring – Dey Hall – Tues and Wed evenings
- WA Videos: To view the videos, click on Resources on the Home Page of WA
- WA Personal Study Plan: To use this feature, click on Personal Study Plan on the Home Page of WA

**Honor Code:** It is expected that each student in this class will conduct himself or herself within the guidelines of the Honor System.

All academic work should be done with the high level of honesty and integrity that this University demands.

NOTE: UNC's Copyright Policy clearly prohibits students from making commercial use of notes taken in class or labs; you may not sell or otherwise acquire financial or commercial gain from notes you take in this class. Students found to have violated this prohibition are in violation of the Honor Code and are subject to Honor Court proceedings.

### Entering Answers on WA

- Look at your response before submitting
- Round correctly when applicable: Rounding 2.548 to the nearest tenth is 2.5
- Enter a calculator value when asked to round to the nearest ...

otherwise provide the EXACT answer such as  $\sqrt{2}$  or  $\frac{\pi}{3}$

### Success in Math 130

**Study Suggestions:** Some Guidelines to help with success in this course.

- Reference the Learning Objectives and the Required Reading portions in the Section Notes for the section you are about to begin.
- Carefully read the corresponding section of the text and the Discussion portion in the section notes.
  - Be an active learner; keep paper and pencil handy while reading and follow along with each example.
  - Try to avoid using your calculator unless a question says, "answer to the nearest ...".
  - Watch the videos for the section.
  - Complete the Before-Class WA assignment.
- Keep a notebook for the During-Class and the HW assignments.
- Start the WA HW assignments within 24 hours after each class meeting and treat each attempt like it is your only attempt; do not just guess. Have your Section Notes available and your textbook open so that you can match each WA question with the question from the text and see the groupings of questions with common directions.
- Be sure to work the Not-On-WA Problems from the Practice Problems List.
- Be a good problem solver. Draw pictures when applicable.
- If you are having difficulty with a WA question, reference your section notes, textbook, videos.
- Seek help only after you have seriously attempted a question on your own or when you do not understand a concept.
- Before a test, be sure that you understand and can work all problem types from the Section Notes, Videos, and WA assignments without any assistance.
- You can rework problems from the assignments on WA using Practice Another Version after the due date.
- **Communicate Mathematically** when working problems or writing for a test or the final exam. Write in a mathematical fashion using numbers, variables, symbols, and words to clearly express your solution to a problem. A solution to a problem includes not only the answer(s) clearly indicated, but also the logical progression of steps to achieve the answer(s). When applicable, clearly label all sketches, graphs, and/or charts.
- View all assignment/test keys. Carefully review all graded materials and rework problems that were not completed correctly as soon as the key is available. This will help you avoid making similar errors in the future.

**In general, avoid having more than 2 back-to-back classes.**