

**COURSE SYLLABUS - Fall 2016**

1. **Course Prefix and Number:** MAT 150-04
2. **Course Title:** Precalculus I (WEB) and **MyMathLab Course ID Number:** [REDACTED]
3. **Credits:** 3:3
4. **Course Prerequisites/Corequisites:** None
5. **For Whom Planned:** This course is the first of a two-semester Precalculus sequence. Students must earn a C or better in this course to satisfy the prerequisites for MAT 151 (Precalculus II).
6. **Instructor Information:**

Dr. Tracey H. Howell  
Email: [thowell@uncg.edu](mailto:thowell@uncg.edu)  
Tel: 336-334-5836 (main office)  
Office: 127 Petty Building  
Office Hours: 9:00am-11:00am Tuesday (Petty 127)  
10:50am-11:50am Thursday (Graham 313)  
Email policy: You may contact me at any time via email. I plan to answer each of your messages within 48 hours (Monday-Friday). Please realize that this might not always be possible, due to the number of students in my classes.
7. **Bulletin Description:** Review of elementary algebra, equations, inequalities, relations, functions, transformations, graphing, complex numbers, and polynomial and rational functions.
8. **Department of Mathematics & Statistics Mission Statement:** *The mission of the Department of Mathematics and Statistics at the University of North Carolina at Greensboro is to provide intellectual leadership in the mathematical sciences that is of direct benefit to the State of North Carolina and that commands national and international respect for the quality of its educational programs and for its depth of scholarship. To achieve this mission, the Department has identified goals directed at achieving excellence in all three of the University's major functions - teaching, research and service. In particular, we are committed to offering well-rounded academic programs, which will provide our graduates with competitive job skills, to contribute to the advance of knowledge and techniques in Mathematics and Statistics through an active research program and to advance our role in providing high quality training in mathematics teacher education to supply the anticipated need for well-prepared, competent elementary and secondary school mathematics teachers.*
9. **Student Learning Outcomes:** MAT 150 provides students an opportunity to appreciate certain concepts in fundamental mathematics, especially functions and graphs with a variety of applications. The emphasis is on abstract reasoning, not routine manipulations. MAT 150 satisfies the mathematics (GMT) requirement of the General Education Program. It is open to and appropriate for all undergraduate students, regardless of major.

The General Education learning goals attached to the GMT marker are

  - LG1: Foundational Skills: Think critically, communicate effectively, and develop fundamental skills in quantitative and information literacies.
  - LG2: The Physical and Natural World: Understand fundamental principles of mathematics and statistics, and recognize their relevance in the world.

At the successful completion of this course, the student will be able to

  - SLO1 Reason in mathematical systems beyond data manipulation. (LG1, LG2)

- SLO2 Formulate and use mathematical models to solve real-world problems. (LG1, LG2)
- SLO3 Communicate mathematical solutions clearly and effectively. (LG1)

Course Objectives:

- Identify functions and their domains, describe their properties, and draw their graphs
- Give examples of piecewise functions
- Compute values of functions, solve algebraic equations and inequalities
- Combine different methods to find real and complex roots of polynomials
- Support and justify statements with mathematical arguments

**10. Teaching Methods and Assignments for Achieving Learning Outcomes:**

Abstract reasoning (SLO1) and clear, effective communication (SLO3) are a part of every lesson and assignment in this course. The student, through regular and frequent attention to the lessons and assignments, will make progress on each of these learning objectives. The formulation and use of mathematical models (SLO2) are integrated in the application of the fundamental techniques covered in the course. Assignments are designed to reinforce these mathematics learning objectives. The student will demonstrate achievement of learning objectives through satisfactory completion of assignments and tests.

**Description of WEB course format:** WEB courses are completely on-line instruction. These courses are well-suited for independent learners that want more flexibility in their schedule. The online nature of the class allows you the flexibility to study and submit assignments whenever you will be most successful and productive. All online assignments have due dates set to insure that you will cover all of the necessary material by each test date. **There are three PROCTORED tests given during the semester. WEB students will take the final exam during the common final exam time for mathematics courses.** More details regarding the proctored tests and final exam are given below.

**Homework assignments:** Homework can be accessed in MyMathLab by clicking on the Assignments & Videos button. Homework assignments do not have a time limit and do not have to be finished in one sitting. While working on these homework assignments, you will have unlimited attempts and will have access to all of the help options that MyMathLab provides. For instance, **you can follow the steps in “Help Me Solve This”, watch a video, or e-mail me for help.** Note that if you choose to use the “Ask My Instructor” button, **you will need to tell me all steps that you have attempted to solve the problem so that I can best assist you.** You can also rework problems that you miss. These homework assignments are due by midnight on their due date. **You have to have a score of 70% or above on a given section’s homework assignment to access the quiz for that section.**

**Quizzes:** Quizzes can be accessed in MyMathLab by clicking on the Assignments & Videos button. Quizzes have a 60 minute time limit and must be finished in one sitting. Each quiz may be attempted 2 times and only the highest score will be used to calculate your overall grade. **While working on these assignments, you will NOT have access to the help options.** Quizzes are due by midnight on their due date. **You have to have a score of 70% or above on a given section’s homework assignment to access the quiz for that section.**

**Proctored tests:** **The three tests given in this class must be proctored.** **For each test, you will need to bring your ID, #2 pencils, and your scientific calculator.** Note that you will not be allowed to use a graphing calculator, any other calculator capable of symbolic manipulation, or the calculator on your cell phone. The dates for our tests are listed on the Schedule of Assignments (below). **If you must miss a test, you should contact me BEFORE the date of the test in order to schedule a makeup test.** You must have a valid excuse and written evidence of it to be allowed to take a makeup test.

I will give the tests on campus on the following dates:

Test 1: Wednesday, September 21 from 5-5:50pm (location TBA)

Test 2: Wednesday, October 26 from 5-5:50pm (location TBA)

Test 3: Wednesday, November 30 from 5-5:50pm (location TBA)

If you are unable to take the test(s) at the scheduled times, you must do one of the following at least one week before the scheduled test:

1. Schedule to take the test(s) at another location through the UNC Online Proctoring Service. You may schedule a proctored exam at <https://online.northcarolina.edu/exams/overview.htm> Please note that some proctoring locations charge a fee.
2. Contact me to arrange to take the test at an alternate time with another MAT 150 class.

**Final exam:** The final exam in this course is scheduled on campus for Wednesday, December 7, 2016 from 8am – 11am. The location will be announced later in the semester. For the exam, **you will need to bring your ID, #2 pencils, and your scientific calculator.** Note that you will not be allowed to use a graphing calculator, any other calculator capable of symbolic manipulation, or the calculator on your cell phone.

If you are unable to take the exam at the scheduled time, you must arrange to take the exam at another location through the UNC Online Proctoring Service. You may schedule the proctored exam at <https://online.northcarolina.edu/exams/overview.htm> Please note that some proctoring locations charge a fee. Because only mathematics classes test during the first exam time, there should be no course conflicts with the exam and I will not be providing alternate times for you to take it.

**11. Evaluation Methods and Guidelines for Assignments:** The primary student products are the tests and final exam. Due to the nature of the course, each test will address all of the SLOs. Specifically, SLO1 will be present in most of the questions. Several questions on each test will be designed to address SLO2 and SLO3. Since the final exam is cumulative, all of the SLOs will be addressed there. The student will demonstrate achievement of learning objectives through satisfactory completion of graded assignments and tests. The questions on graded assignments and tests are designed to evaluate each of the three learning objectives, and in this way the grade reflects the attainment of the objectives.

The final course grade will be determined by online homework assignments and quizzes, in-class tests, and in-class comprehensive final exam. The weights of these evaluations on the final grade are as follows:

- MyMathLab Homework – 10%
- MyMathLab Quizzes – 15%
- Three In-Class Tests – 45% (Each test – 15%)
- Comprehensive Final Exam – 30%

See **Attendance Policy** below for additional information.

**Grade Scale:**

A+ 97-100	B 83-86	C- 70-72
A 93-96	B- 80-82	D+ 67-69
A- 90-92	C+ 77-79	D 63-66
B+ 87-89	C 73-76	D- 60-62
		F 59 or less

## 12. Required Materials:

- **Access to MyMathLab.com** is required for this class. You can purchase the access code through the college bookstore, or through the publisher at <http://www.mymathlab.com/>. Anyone not registered in MyMathLab by 12noon on the first Friday of the semester may be dropped from the course. (Note that the website allows students to register on a temporary basis for up to 14 days.)
- **A scientific calculator**, such as TI-30XIIS, is suggested for the tests in this course. If you prefer to use another type of calculator, make certain that it has an exponent key and a square root key. GRAPHING CALCULATORS (AS WELL AS ANY TYPE OF CALCULATOR CAPABLE OF SYMBOLIC COMPUTATION) WILL NOT BE PERMITTED DURING TESTS AND THE FINAL EXAM. Also note that the calculators on cell phones will not be permitted during tests and the final exam.
- **OPTIONAL TEXTBOOK:** Sullivan, *Precalculus*, 10<sup>th</sup> edition, Prentice Hall, 2016. There is an online version of the text available through MyMathLab that is exactly the same as the hardcover version.

**13. Topical Outline/ Schedule of Assignment:** This information is provided at the end of this syllabus.

## 14. Other Information:

**Office of Accessibility Resources:** You are responsible for contacting OARS in 215 EUC (334-5440, <http://ods.uncg.edu>) and for filling out the necessary forms if you wish to have special accommodations. Without these forms the services provided by OARS will not be available to you. OARS cannot schedule or reschedule tests without consent from the instructor.

**Academic Integrity Policy:** Each student is required to adhere to the Academic Integrity Policy on all work submitted for the course. You are expected to abide by the UNCG Academic Integrity Policy at all times and any cases of academic dishonesty will not be tolerated. Each student is required to sign the Academic Integrity Policy on all major work submitted for the course.

I have abided by the UNCG Academic Integrity Policy on this assignment.

Signature \_\_\_\_\_ Date \_\_\_\_\_

More information can be found at <http://sa.uncg.edu/handbook/academic-integrity-policy/>.

**Attendance Policy:** Attendance for an internet-based course is defined as contact between the student and instructor. "Contact" may be any of the following: timely and regular submission of assignments, periodic testing, email communication, telephone messaging, and/or face-to-face meetings. On or before the last date to withdraw from a class, the instructor may drop any student who has missed more than 5 of the scheduled assignments or does not have at least a 60 average.

**Extensions:** All of your online homework assignments and quizzes are available to you from the date that classes start. Computers are unpredictable. Therefore, you need to complete the assignments well BEFORE the due date. If you decide to work on the day an assignment is due, you are taking a risk. Work ahead of the deadlines and this will not be a problem. Extensions will be granted at the discretion of the instructor and only in the event of extreme circumstances. Please note that computer issues on the evening an assignment is due do not meet this criteria!

**MyMathLab Support:** The MyMathLab Technical Support number is 1-800-677-6337. Also you can reach MyMathLab Tech Support 24/7 from the recently launched MyMathLab support site: <https://support.pearson.com/getsupport>

**"UNCG Cares" Statement:** UNCG cares about your success as a student. We recognize students often balance many challenging personal issues and demands. Please take advantage of the University resources designed to help. For assistance accessing these resources contact the Dean of Students Office at 334-5514

or Student Academic Services at 334-5730. The Counseling and Testing Center is available for mental health assistance, 334-5874.

**Copyright Policy:** Selling or purchasing notes from classes for commercial gain is a violation of the UNCG Copyright Policy. Any student who sells notes taken in class for commercial gain, or who purchases notes taken by another student for commercial gain is in violation of this policy and, by extension, is committing a violation of the Student Code of Conduct. <http://sa.uncg.edu/handbook/student-code-of-conduct/>

**Inclement Weather:** If the university is closed, class will be cancelled. In case you are unsure, check your e-mail and Canvas or call the UNCG “inclement weather announcement” at 336-334-4400.

**Add/Drop Dates Affecting this Course:** <https://reg.uncg.edu/calendars/>

**Additional Resources:**

Free Tutoring: The Department of Mathematics and Statistics provides free walk-in tutoring in the Curry 210. For the details, see <http://www.uncg.edu/math/mathhelpcenter>

Student Success Center: Find more academic support at the Student Success Center. <http://success.uncg.edu/>

Special Support Services: Tutoring may be available from Special Support Services. <http://success.uncg.edu/sss/tutoring.php>

**Schedule of Assignments:**

**MAT 150 03 & 04  
Precalculus Online**

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Monday, August 22, 2016	<b>First Day of Classes</b>
Tuesday, August 23, 2016	
Wednesday, August 24, 2016	
Thursday, August 25, 2016	
Friday, August 26, 2016	HWK: MyMathLab
Saturday, August 27, 2016	Orientation
Sunday, August 28, 2016	
Monday, August 29, 2016	HWK: A.1, A.2, A.3
Tuesday, August 30, 2016	QUIZ: A.1, A.2, A.3
Wednesday, August 31, 2016	
Thursday, September 01, 2016	
Friday, September 02, 2016	
Saturday, September 03, 2016	
Sunday, September 04, 2016	
Monday, September 05, 2016	<b>Holiday</b>
Tuesday, September 06, 2016	HWK: A.4, A.5, A.6
Wednesday, September 07, 2016	QUIZ: A.4, A.5, A.6
Thursday, September 08, 2016	
Friday, September 09, 2016	
Saturday, September 10, 2016	
Sunday, September 11, 2016	
Monday, September 12, 2016	HWK: A.7, A.9, A.10
Tuesday, September 13, 2016	QUIZ: A.7, A.9, A.10
Wednesday, September 14, 2016	
Thursday, September 15, 2016	

Friday, September 16, 2016	
Saturday, September 17, 2016	
Sunday, September 18, 2016	
Monday, September 19, 2016	HWK: 1.1, 1.2, 1.3
Tuesday, September 20, 2016	QUIZ: 1.1, 1.2, 1.3
Wednesday, September 21, 2016	
Thursday, September 22, 2016	<b>Test #1</b>
Friday, September 23, 2016	<b>Test #1</b>
Saturday, September 24, 2016	
Sunday, September 25, 2016	
Monday, September 26, 2016	HWK: 1.4, 2.1
Tuesday, September 27, 2016	QUIZ: 1.4, 2.1
Wednesday, September 28, 2016	
Thursday, September 29, 2016	
Friday, September 30, 2016	
Saturday, October 01, 2016	
Sunday, October 02, 2016	
Monday, October 03, 2016	HWK: 2.2, 2.3
Tuesday, October 04, 2016	QUIZ: 2.2, 2.3
Wednesday, October 05, 2016	
Thursday, October 06, 2016	
Friday, October 07, 2016	
Saturday, October 08, 2016	
Sunday, October 09, 2016	
Monday, October 10, 2016	HWK: 2.4, 2.5
Tuesday, October 11, 2016	QUIZ: 2.4, 2.5
Wednesday, October 12, 2016	
Thursday, October 13, 2016	
Friday, October 14, 2016	Withdrawal date
Saturday, October 15, 2016	
Sunday, October 16, 2016	
Monday, October 17, 2016	Fall Break
Tuesday, October 18, 2016	Fall Break
Wednesday, October 19, 2016	HWK: 3.1, 3.3
Thursday, October 20, 2016	QUIZ: 3.1, 3.3
Friday, October 21, 2016	
Saturday, October 22, 2016	
Sunday, October 23, 2016	
Monday, October 24, 2016	HWK: 3.4, 3.5
Tuesday, October 25, 2016	QUIZ: 3.4, 3.5
Wednesday, October 26, 2016	<b>Test #2</b>
Thursday, October 27, 2016	<b>Test #2</b>
Friday, October 28, 2016	
Saturday, October 29, 2016	
Sunday, October 30, 2016	
Monday, October 31, 2016	HWK: 4.1, 4.2
Tuesday, November 01, 2016	QUIZ: 4.1, 4.2
Wednesday, November 02, 2016	
Thursday, November 03, 2016	
Friday, November 04, 2016	
Saturday, November 05, 2016	
Sunday, November 06, 2016	
Monday, November 07, 2016	HWK: 4.3, 4.4
Tuesday, November 08, 2016	QUIZ: 4.3, 4.4
Wednesday, November 09, 2016	
Thursday, November 10, 2016	

Friday, November 11, 2016  
Saturday, November 12, 2016  
Sunday, November 13, 2016  
Monday, November 14, 2016  
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Saturday, December 03, 2016  
Sunday, December 04, 2016  
Monday, December 05, 2016  
Tuesday, December 06, 2016  
Wednesday, December 07, 2016  
Thursday, December 08, 2016  
Friday, December 09, 2016

HWK: 4.5, 4.6  
QUIZ: 4.5, 4.6

HWK: 5.1, 5.2  
QUIZ: 5.1, 5.2

Thanksgiving Holiday  
Thanksgiving Holiday  
Thanksgiving Holiday

Test # 3  
Test # 3

HWK: Final Exam Practice  
Reading Day  
Final Exam