

Fall 2015

## **MATH 1125**

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*University of New Orleans*

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# Syllabus

# MATH 1125-001 MWF

# Fall 2015

## Pre-Calculus Algebra

**Classroom:** Math Rm 218  
**Instructor:** Judith Nowalsky  
**Office:** Math 244  
**Email:** jnowalsk@uno.edu

**Days & Times:** MWF 8 – 8:50 am  
**Office Phone:** 280-7441  
**Office Hours:** MWF: 12-1pm, until 10/7,  
 MWF: 10-11am, after 10/7, TTh: 9:15-10:45am  
 and by appointment

**Required Textbook:** Custom Edition Precalculus, 10<sup>th</sup> Edition by Sullivan; ISBN: 9781256941408  
**Required Software:** MyMathLab (packaged with textbook in bookstore) Course Id: **nowalsky19821**  
**Required Calculator:** Only TI-30X II, TI-30X IIS, TI-30X IIB, TI-30XS, TI-30XB, or equivalent calculators  
APPROVED AHEAD OF TIME BY THE INSTRUCTOR are allowed on tests.

**Course Prerequisites:** ACT Math  $\geq$  22, SAT Math  $\geq$  520, Compass MALGE  $\geq$  66, or C or better in Math 1115

WEEK OF		Sections Covered
August	19	A.6 Solving Equations
	24	A.10 Radical Equations, Supplemental Radical Equations, A.7 Complex Numbers; Quadratic Equations in the Complex Number System, A.9 Interval Notation; Solving Inequalities
	31	1.3 Lines, 1.4 Circles
September	7	Test 1
	14	2.1 Functions, 2.2 The Graph of a Function
	21	2.3 Properties of Functions, 2.4 Library of Functions; Piecewise-defined Functions
	28	2.5 Graphing Techniques; Transformations, 2.6 Mathematical Models: Building Functions
October	5	3.3 Quadratic Functions and Their Properties
	12	Test 2, A.3/A.4 Long Division/Synthetic Division of Polynomials
	19	4.1 Polynomial Functions and Models, 4.4 Polynomial and Rational Inequalities
	26	4.2 Properties of Rational Functions, 4.3 The Graph of a Rational Function
November	2	4.5 The Real Zeros of a Polynomial Function, 4.6 Complex Zeros; Fundamental Theorem of Algebra
	9	Test 3, 5.1 Composite Function
	16	5.2 One-to-One Functions; Inverse Functions, 11.1 Systems of Linear Equations: Substitution and Elimination, 11.6 Systems of Nonlinear Equations, 11.3 Systems of Linear Equations: Determinants
	23	Test 4
	30	Review for Final Exam

### IMPORTANT DATES

Labor Day	September 7
Last Day to Drop Courses	October 14
Fall Break	October 15-16
Thanksgiving Break	November 26-27
Last Day of Classes	December 4

### NOTES:

- Grading: Final exam = 33%  
Tests = 48%  
Lab Tests = 9%  
Homework/Quizzes = 10%
- The final exam is comprehensive and departmental.
- Free tutoring is available in the Math Tutor Center (MTC), Room 105 of the Mathematics Building.
- THIS SYLLABUS IS SUBJECT TO CHANGE.

### Student Learning Outcomes:

Students who successfully complete this course are expected to have a basic knowledge of:

- Real Numbers
- Solving Equations
- Functions
- Polynomial Functions & Graphs
- Rational Functions & Graphs
- Systems of Equations

## **FINAL EXAM**

**Monday December 7, 10:00 AM – NOON**

### Student Conduct

The University of New Orleans (UNO) is a multicultural community composed of diverse students, faculty and staff. UNO will not tolerate discrimination or harassment of any person or group of persons based on race, color, religion, sex, disability, national origin, age, sexual orientation, marital or veteran status or any other status protected by law. Each member of the university is held accountable to this standard, which is strongly reflected in this code.

### **Academic Dishonesty**

Academic integrity is fundamental to the process of learning and evaluating academic performance. Academic dishonesty will not be tolerated. Academic dishonesty includes, but is not limited to, the following: cheating, plagiarism, tampering with academic records and examinations, falsifying identity, and being an accessory to acts of academic dishonesty. Refer to the Student Code of Conduct for further information. The Code is available online at <http://www.studentaffairs.uno.edu>.

### **Accommodations for Students with Disabilities**

It is University policy to provide, on a flexible and individualized basis, reasonable accommodations to students who have disabilities that may affect their ability to participate in course activities or to meet course requirements. Students with disabilities should contact the Office of Disability Services as well as their instructors to discuss their individual needs for accommodations. For more information, please go to <http://www.ods.uno.edu>.

### **How Class Will Be Taught**

This class will be taught in an interactive technology based format. Most class meetings will consist of approximately 65% lecture time and 35% lab time. During the lecture time, students are expected to follow and fill in the incomplete lecture notes that are posted on MyMathLab. During the lab time, students are expected to complete any lab assignments for that day, and then any homework or quizzes that have been assigned. If a student finishes all assigned work, they should watch the online videos for the topics that will be covered in the next class or complete the test review for any upcoming tests. The instructor and possibly a teaching assistant will be present during lab time to answer questions and help students with assignments. This format allows for more student and instructor interaction, one-on-one help, and immediate grading and feedback during lab time.

### **Expectations of Students**

Students should arrive on time to every class meeting and stay for the entire class meeting. Students are expected to refrain from disruptive behavior during the class meeting. This includes, but is not limited to: conversing with fellow students, texting, accepting phone calls, working on assignments for other courses, and using the internet for anything other than the coursework for this class. During lab time, students are expected to work on assignments for this course only. Leaving lab early or not working on the assigned work for this course will result in a zero for that day's lab assignment. Students are expected to arrive on time for any scheduled tests or exams. Arriving late for a test or exam will likely result in less time allowed for completion of the test or exam. For example, if an exam is scheduled for 9:00-9:50, and a student arrives at 9:05, the student will only have the remaining 45 minutes until 9:50 to complete the exam. Not showing up for an exam or test without prior notification will result in a zero for that exam or test. Students are to print and bring to class the lecture notes posted on MyMathLab. Lab assignments are password protected and can only be completed if a student attends that class and lab. If a student obtains the password and completes the lab test without attending the corresponding class and lab, the student will receive a zero for that lab test.

### **Completing Online Math Homework, Quizzes and Lab Tests**

Students will be assigned online homework, quizzes and lab tests on a daily basis. When completing these assignments, students are expected to work problems completely in a notebook to achieve the correct answer and then enter that answer in the computer to be graded. Online assignments should not be completed by trying to do the problems mentally without showing any work. Students will be required to show all steps on in class exams as well as the final exam, so this is also expected on online assignments.

### **Computer Lab Rules**

The time in the computer lab will only be used for completing assigned work for this class. Students are not allowed to text, accept phone calls, surf the internet or work on assignments for another course during this time. Any students who disobey these rules will receive a grade of zero for that day's lab assignment. Lab assignments are password protected and can only be completed if a student attends that class and lab. If a student obtains the password and completes the lab test without attending the corresponding class and lab, the student will receive a zero for that lab test.

### **Course Materials**

Required Textbook: Custom Edition Precalculus, 10<sup>th</sup> Edition by Sullivan  
Required Software: MyMathLab (packaged with textbook in bookstore) **Course Id: nowalsky19821**  
Required Calculator: Only TI-30X II, TI-30X IIS, TI-30X IIB, TI-30XS, TI-30XB, or equivalent calculators **APPROVED AHEAD OF TIME BY THE INSTRUCTOR** are allowed on tests.

3 – Ring Binder  
Headphones

Loose-leaf paper for homework

### **Attendance Policy**

Attendance will be taken daily. If you miss a class you may not take the lab test for that day and it is your responsibility to print and fill in the lecture notes using your textbook before going to your instructor for help. If you leave class early you are counted absent for that day, and you will receive a zero on that day's lab test.

### **Tentative Due Dates and Exam Dates**

Homework and quizzes will be collected and graded once or twice weekly. Tentative in class test dates are:

Test 1: Friday, September 11

Test 3: Wednesday, November 11

Test 2: Monday, October 12

Test 4: Wednesday, November 25

THESE TEST DATES ARE **TENTATIVE**. THEY MAY CHANGE AND IT IS **YOUR** RESPONSIBILITY TO ATTEND CLASS TO HEAR ANY ANNOUNCEMENTS REGARDING THE CHANGE OF THESE DATES.

### **Grades**

There will be 4 semester tests as listed on the syllabus which will be worth a total of 48% of your final grade. **NO TEST GRADES WILL BE DROPPED. NO TEST GRADES WILL BE CURVED.** There is a departmental, cumulative final exam which will be worth 33% of your final grade. There will be lab tests and quizzes worth 19% of your final grade. **NO LATE QUIZZES WILL BE ACCEPTED FOR ANY REASON.** There will be 3 quiz/lab test grades dropped at the end of the semester to accommodate any missed quizzes and lab tests. Homework and quizzes will be assigned and graded weekly on MyMathLab. Homework is for practice and quizzes are for a grade. You must complete the homework before you are allowed to take the corresponding quiz. Once you complete the homework and get at least 80% correct, you may take the quiz up to 5 times. Your highest score on the quiz will be used in your overall average.

The grading scale for this course is

90% - 100%	A
80% - 89%	B
70% - 79%	C
60% - 69%	D
59% and below	F

### **Criteria for Graded Assignments**

Assignments, tests and exams that will be graded for partial credit must adhere to the following guidelines: All answers MUST be supported by work. No work = No credit. The final answer must be clearly marked. All answers must be exact and simplified completely.

### **Make-up test policy**

It is in your best interest to not miss a test. If you know you will miss a test ahead of time, contact me to set up a time to take the test BEFORE the regular test is given. These make-up tests will be given from 7:00AM – 7:50AM. If you miss a test for any other reason, the final exam grade will replace the zero for the missed test. Only one missed test will be replaced with the final exam grade. Any additional missed tests will be counted as a zero.

### **Test Corrections**

Test corrections may be completed after each test for 1 percentage point to be added to the final exam. These test corrections are due the second class period after the test has been returned. For example, in a class that meets every day, if the test is returned on Monday, the test corrections would be due on Wednesday. The test corrections must be **COMPLETELY CORRECT** in order to receive the point on the final. You are welcome to come to office hours or go to the tutor center for help with these corrections.

### **Advice on How to Study for Tests and Exams**

The best way to study and prepare for tests and exams will be different for every student. Here are some recommended guidelines for successfully preparing for tests and exams:

- Print lecture notes from MyMathLab and fill them out in class. Keep these notes organized in a binder for easy reference.
- Work all homework and quiz problems out completely, showing all work, and keep this organized in a binder for easy reference. Use all allowed attempts for homework and quizzes to ensure the best grade and best understanding of the material.
- Before each test, time will be taken in class to review the test material. Before this test review, complete the test review posted on MyMathLab. Use the in class review time to ask questions about any problems on the review that you may have had trouble with.

- For any problems on the review that you may have struggled with, go back to the homework and find similar problems. Use the unlimited attempts on the homework problems to practice these problems until you are able to complete them without any outside help (i.e. book, notes, etc.).
- Before the test, you should be able to complete each problem set of the test review without any outside help in approximately one hour.

### **Resources**

Your instructor is your first resource, so come to office hours if you have a question. However, there is also free tutoring in the Math Tutor Center (Math 105). Based on availability of tutors, the math department may offer free one-on-one tutoring. Lecture videos can be found at <http://media.uno.edu/Public> under Math 1125 Spring 10.



# Syllabus Attachment

Fall 2015

## Important Dates\*

Last day to adjust schedule w/out fee .....	08/18/2015
Semester Classes Begin .....	08/19/2015
Last day to adjust schedule w/fee, or withdraw with 100% refund .....	08/25/2015
Last day to apply for December commencement .....	09/25/2015
Final day to drop a course or resign .....	10/14/2015
Mid-semester examinations .....	10/05-10/09/2015
Final examinations .....	12/07-12/11/2015
Commencement .....	12/18/2015

\*Note: check Registrar's website for Saturday and A/B sessions, and for items not listed here: <http://www.registrar.uno.edu>

## Fall Semester Holidays

Labor Day .....	09/07/2015
Mid-semester break .....	10/15-10/16/2015
Thanksgiving .....	11/26-11/27/2015

## Withdrawal Policy – Undergraduate only

Students are responsible for initiating action to resign from the University (withdraw from all courses) or from a course on or before dates indicated in the current Important dates calendar. Students who fail to resign by the published final date for such action will be retained on the class rolls even though they may be absent for the remainder of the semester and be graded as if they were in attendance. Failure to attend classes does not constitute a resignation. Check the dates on the Registrar's website, <http://www.registrar.uno.edu>. Please consult The Bulletin for charges associated with dropping and adding courses.

## Incomplete Policy – Undergraduate only

The grade of I means *incomplete* and is given for work of passing quality but which, because of circumstances beyond the student's control, is not complete. The issuance of the grade of I is at the discretion of the faculty member teaching the course. For all graduate and undergraduate students, a grade of I becomes a grade of F if it is not converted before the deadline for adding courses for credit (as printed in the Important Dates Calendar) of the next regular semester including summer semester.

## Repeat Policy

When a student is permitted to repeat a course for credit, the last grade earned shall be the one which determines course acceptability for degree credit. A student who has earned a C or better in a course may not repeat that course unless, (1) the catalog description indicates that the course may be repeated for credit, or (2) the student's Dean gives prior approval for documented extenuating circumstances.

## Graduate Policies

Graduate policies often vary from undergraduate policies. To view the applicable policies for graduate students, see the Graduate Student Handbook: <http://www.uno.edu/grad/documents/GraduateStudentHandbook2014.pdf>

## Academic Dishonesty Policy

<http://www.uno.edu/student-affairs-enrollment-management/documents/academic-dishonesty-policy-rev2014.pdf>

## Safety Awareness Facts and Education

Title IX makes it clear that violence and harassment based on sex and gender is a Civil Rights offense subject to the same kinds of accountability and the same kinds of support applied to offenses against other protected categories such as race, national origin, etc. If you or someone you know has been harassed or assaulted, you can find the appropriate resources here: <http://www.uno.edu/student-affairs-enrollment-management/>

## UNO Counseling Services and UNO Cares

UNO offers care and support for students in any type of distress. Counseling Services assist students in addressing mental health concerns through assessment, short-term counseling, and career testing and counseling. Find out more at <http://www.uno.edu/counseling-services/>. First-year students often have unique concerns, and UNO Cares is designed to address those students succeed. Contact UNO Cares through <http://www.uno.edu/fye-uno-cares.aspx>.

## Emergency Procedures

Sign up for emergency notifications via text and/or email at E2Campus Notification: <http://www.uno.edu/ehso/emergency-communications/index.aspx>. All emergency and safety procedures are explained at the Emergency Health and Safety Office: <http://www.uno.edu/ehso/>.

## Diversity at UNO

As the most diverse public university in the state, UNO maintains a Diversity Affairs division to support the university's efforts towards creating an environment of healthy respect, tolerance, and appreciation for the people from all walks of life, and the expression of intellectual point of view and personal lifestyle. The Office of Diversity Affairs promotes these values through a wide range of programming and activities. <http://diversity.uno.edu/index.cfm>

## Learning and Support Services

Help is within reach in the form of learning support services, including tutoring in writing and math and other supplemental instruction. Visit the Learning Resource Center in LA 334, or learn more at <http://www.uno.edu/lrc/>.

## Affirmative Action and Equal Opportunity

UNO is an equal opportunity employer. The Human Resource Management department has more information on UNO's compliance with federal and state regulations regarding EEOC in its Policies and Resources website: <http://www.uno.edu/human-resource-management/policies.aspx>