

## Course Syllabus

**313 MATH 105 - 01**  
**Pre-Calculus**  
**Dr. Goutziers**  
**Fall 2009**

**Room:** Physical Science 128  
**Time:** MWF 10:00 am - 10:50 am  
**Office:** Physical Science 112  
**Phones:** Office: (607) 436-3658  
Department Office: (607) 436-3708  
**E-Mail:** GoutziCJ@oneonta.edu  
**Web Site:** employees.oneonta.edu/GoutziCJ  
**Office** **M 09:00 am W 11:00 am**  
**Hours:** **R 11:00 am F 12:00 pm**  
**Textbook:** Precalculus

- *Authors:* Michael Sullivan
- *Edition:* Eighth
- *Publisher:* Pearson Prentice Hall
- *Copyright:* 2008
- *ISBN:* 978-0-13-225688-9

### ***College Catalog Description:***

**MATH 105 Pre-calculus:** A careful study of elementary functions with emphasis on their graphical properties. Particular functions treated include polynomials and rational functions, exponential and logarithmic functions, trigonometric and inverse trigonometric functions. Prepares students for MATH 173 (*LA, M2*)

*Prerequisite:* 3 units of Regents high school math, or MATH 104.

### ***Course Goals and Objectives:***

Math 105 prepares students for Calculus. The goal is to familiarize the students with the graphs, properties, and algebraic manipulations of elementary functions. The objective is to engage the students through collaboration in small groups on the solution of problems designed to illustrate the material. Historic references will be made where appropriate.

### ***Course content:***

Graphs of functions and equations; Linear, quadratic, polynomial, rational, exponential and logarithmic functions; An extensive study of trigonometric functions.

### ***Methods of Evaluation and Grading Policies:***

There will be three tests and three quizzes during the course of the semester. Tests and quizzes will be announced on my web site at least four days in advance. A comprehensive final exam is scheduled for Monday, December 14, 08:00 am - 10:30 am, in Physical Science 128. Homework will be assigned daily and is due at the beginning of the next class meeting. Calculator use is permitted throughout the course. Quizzes may be completed by groups of at most three students; homework, tests and final exams are an individual responsibility. All submitted homework should include a coversheet indicating the course, the date, the assignment number, and the student's name.

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Homework assignments, including quiz and test announcements, and coversheets are published on my web site and updated daily. Homework grades depend on the percentage of assignments submitted.

00 - 50%	no homework credit
51 - 80%	half homework credit
81 - 100%	full homework credit

Submitted homework does not have to be perfect, but should show “reasonable attempt”. Merely copying the statement of a problem does of course not constitute reasonable attempt.

Course grades are computed according to the following:

<b>Tests:</b>	40%	90 - 100 A	77 - 80 B-	64 - 67 D+
<b>Quizzes:</b>	20%	87 - 90 A-	74 - 77 C+	60 - 64 D
<b>Final Exam:</b>	20%	84 - 87 B+	70 - 74 C	57 - 60 D-
<b>Homework:</b>	20%	80 - 84 B	67 - 60 C-	0 - 57 E

***Attendance Policy:***

It is the student's obligation to take the quizzes, tests and the final exam at the scheduled times.

***Make-up Test/Quiz Policy:***

Make-ups will not be given. If a student misses a test/quiz, her/his grade for that test/quiz will be considered equal to her/his grade on the final exam.

***Emergency Evacuation/Shelter-in-Place Procedures:***

In the event of an emergency evacuation (i.e., fire or other emergency), classes meeting in this building are directed to reassemble at the Chase Gymnasium so that all persons can be accounted for. Complete details of the College’s emergency evacuation, shelter-in-place and other emergency procedures can be found at <http://www.oneonta.edu/security>.