Math 125.17: Precalculus

Lecture: Wednesdays 7:35 pm, West Building 204
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Text: *Precalculus*, 3rd custom edition for Hunter College
Author: Robert Blitzer

You must buy the custom edition, in print ($89.75) or in e-book ($90.30), for this course. The print custom edition may be purchased at either the Hunter College Bookstore or at Shakespeare and Company (939 Lexington Avenue). The e-book with appropriate MyMathLab access may be purchased by going to http://www.pearsonmylab.com.

Prerequisites: Math 125 requires a grade of C or better in Math 101 or placement. A grade of C or better in this class is required to take calculus.

Covered Material: Ch. 1, 2.1-2.7, Ch. 3, Ch. 4, 5.1-5.3, 5.5, 6.1, 6.2, 7.1, 7.4

Learning Outcomes:
1. Properties of functions and their graphs.
2. Distance and midpoint between two points.
3. Standard form of the equation of a circle and its graph.
4. Model real-world problems using functions.
5. Simplifying expressions and arithmetic with complex numbers.
6. Analyze, graph, and apply transformations to linear, polynomial, rational, exponential, logarithmic, trigonometric, and inverse trigonometric functions.
7. Applying the above functions in real-world problem-solving.
8. Radians and the unit circle.
9. Trig identities and using the sum, difference, double, and half-angle identities.
10. Using the Law of Sines and Law of Cosines to solve triangles and problems.
11. Solve polynomial and rational inequalities.
12. Solve exponential, logarithmic, and trigonometric equations.
13. Solve systems of linear and non-linear equations.

Attendance: For every 3 classes a student misses their grade will be lowered by one notch; A to A-, B- to C+, etc.

Homework: Homework will be assigned online through MyMathLab. It will be 15% of the grade. To access MyMathLab an access code is required which is given with the purchase of a new textbook and our course code of "**fenn34279**". Keep a written record of the homework problems and how you solved them for test preparation materials. Homework is due one week after a section is covered.

You can create an account for MyMathLab at http://www.pearsonmylab.com. You will have 17 days to enter your access code.

Diagnostic Homework: There will be a diagnostic homework assignment that will cover some of the P sections. It is worth 5% of your final grade and must be completed by Monday, September 8.

The Dolciani Mathematics Learning Center Problem Sessions: You are required to sign up for a weekly problem session at the Dolciani Mathematics Learning Center (DMLC) located at 302 Hunter North. You may do so by e-mailing psreg@hunter.cuny.edu, or calling them at 212-650-3911 between 9 am and 1 pm, or by going to 300HN between 9 am and 1 pm. If a unusual or extreme situation arises you may ask for their explicit approval to be able to attend a different session than the one you are signed up for. The sessions begin on Monday, September 8.

Each session you attend (once per week, multiple times in a week do not count) will count for one percentage point on the final grade, up to a maximum of 10. A full score will be 10 weeks of attendance. The worksheets used need to be downloaded at http://www.hunter.cuny.edu/dolciani and their solutions are posted one week after the session they are used in.

Grading: There will be 4 in-class exams and a final departmental exam. The final will count as two exams for grading purposes; of these six exam scores, the lowest score will be dropped and the remaining five scores are averaged to obtain the exam score average. There are no make-up exams.

Final scores are determined by the following weights:

Exams	70%
MyMathLab Homework	15%
Diagnostic Homework	5%
DMLC attendance	10%

Alternatively, the final score may be determined by letting the exams count for 80% of the final grade and ommitting the problem session attendance score. The higher of these two possible scores will be used for the final grade a student receives.

To receive an incomplete, a student must have taken at least three of the in-class exams, and have at least a C average on those exams, and have a legitimate excuse for missing the final exam.

Final grade brackets:

Grade	Score
A+	$97.5 - 100$
A	$92.5 - 97.4$
A-	$90.0 - 92.4$
B+	$87.5 - 89.9$
B	$82.5 - 87.4$
B-	$80.0 - 82.4$
C+	$77.5 - 79.9$
C	$70.0 - 77.4$
D	$60.0 - 69.9$
F	$0 - 59.9$

Tutoring: Drop-in table tutoring, a computer lab, and additional audiovisual materials are available at the DMLC. Review materials for preparation for this course are available under the "Brush-Up Skills" link at the DMLC website (http://www.hunter.cuny.edu/dolciani).

Calculators: A scientific calculator will be necessary for the exams. Graphing calculators, cell phones, mp3 players, etc. are not allowed for use on exams.

Academic Integrity: Hunter College regards acts of academic dishonesty (e.g., plagiarism, cheating on tests, obtaining unfair advantage, and falsification of records and official documents) as serious offenses against the values of intellectual honesty. The College is committed to enforcing the CUNY Policy on Academic Integrity and will pursue cases of academic dishonesty according to the Hunter College Academic Integrity Procedures.

Disability: In compliance with the American Disability Act of 1990 and with Section 504 of the Rehabilitation Act of 1973, Hunter College is committed to ensuring educational parity and accommodations for all students with documented disabilities and/or medical conditions. It is recommended that all students with documented disabilities (emotional, medical, physical, and/or learning) consult the Office of AccessABILITY located in Room 1214B Hunter East to secure necessary academic accommodations. For further information and assistance please call 212-772-4857/TTY 212-650-3230.