COURSE: Precalculus-Math1000-R21

TERM: Summer 2018

CLASS MEETING TIMES: Tuesday, Wednesday, Thursday 9am -12pm

LOCATION: TBA

INSTRUCTOR: Xiaojin Ye

OFFICE: JMH419

EMAIL ADDRESS: xye21@fordham.edu

OFFICE HOURS: Wednesday 12pm -1pm And by appointment

1. COURSE DESCRIPTION:

A preparatory course to assist students at FC who intend to take calculus. Topics include inequalities; linear, polynomial, rational, exponential, logarithm and inverse functions and their graphs; distance, lengths and area of simple regions; and trigonometric functions. This course does not satisfy the mathematical reasoning core area requirement. It provides the foundations for taking other math classes, and, in particular, Calculus and preparing you for science course that you may be taking.

2. TEXTBOOK REQUIRED:

Precalculus: A Prelude to Calculus, 2nd Edition By Sheldon Axler

We will take advantage of Web Assign for both access to the eBook and homework problems. I will give detail explanation about the text book when we meet in class.

3. GRADING POLICY:

Homework......................... 20%
Quizzes.............................. 10%
Exam1............................... 20%
Exam2............................... 20%
Final Exam (cumulative)...... 30%
4. HOMEWORK:

Homework assignment will be assigned in Web Assign weekly. Late homework will only be accepted with the permission of your instructor. Web Assign is an interactive website where you will be completing homework assignments to help you master the course objectives.

5. QUIZZES:

There will be 3 quizzes during the semester. There are no makeup quizzes. The lowest quiz grade will be dropped.

6. EXAMS:

There will be 2 midterm exams and 1 final exam during the semester.

Please come to the exams on time. No extra time will be given to late comers. **Make-up tests will only be permitted for absences due to a documented family or medical emergency.** In order to qualify for a make-up test, the student must contact the instructor **within 24 hours** of the absence by phone or email and be prepared to provide documentation validating the absence if requested.

7. ATTENDANCE POLICY:

Students may be dropped after 4 absences. Regular attendance is essential for the successful completion of this course. Absence is not an excuse for coming to class unprepared.

8. EXTRA HELP:

Early intervention is important to succeed in the class, you are very welcome to come to my office hours, or to make a special appointment with me if you cannot make my regular hours.

9. CALCULATOR:

Only scientific calculators are permitted on homework and exams. You are not allowed to use graphing calculators, smartphones or any other electronic devices.
10. COURSE OUTLINE:

<table>
<thead>
<tr>
<th>Chapter</th>
<th>Section</th>
<th>Topic</th>
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</thead>
<tbody>
<tr>
<td>0</td>
<td>0.3</td>
<td><strong>Inequalities</strong>: Positive and Negative Numbers, Inequalities, Intervals, Absolute Value.</td>
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<tr>
<td>1</td>
<td>1.1-1.6</td>
<td><strong>Functions and their graphs</strong>: Functions. The coordinate Plane and Graphs, Function Transformations and Graphs, Composition of Functions, Inverse Functions, A Graphical Approach to Inverse Function.</td>
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<tr>
<td>2</td>
<td>2.1-2.5</td>
<td><strong>Linear, Quadratic, Polynomial and Rational Functions</strong>: Lines and Linear functions, Quadratic functions and Conics, Exponents, Polynomials, Rational Functions.</td>
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<tr>
<td>3</td>
<td>3.1-3.3</td>
<td><strong>Exponential Functions, Logarithms and e</strong>: Logarithms as Inverses of Exponentiation, Application of the Power rule for Logarithms. Application of the Product and Quotient Rules for Logarithms.</td>
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<tr>
<td>4</td>
<td>4.1-4.5</td>
<td><strong>Trigonometric Functions</strong>: The Unit Circle, Radians, Cosine and Sine, More Trigonometric Functions, Trigonometry of the Right Triangle.</td>
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11. DISABILITIES:

If you are a student with a documented disability and require academic accommodations, you need to register with the Office of Disability Services for Students (ODS) in order to request academic accommodations for your courses. Please contact the main ODS office at Rose Hill at 718-817-0655 to arrange services. Staff at ODS can walk you through the process and arrange appointments depending on which campus you take courses at. Accommodations are not retroactive, so you need to register with ODS prior to receiving your accommodations. Please see me after class or during office hours if you have questions or would like to submit your academic accommodation letter to me.
12. ACADEMIC INTEGRITY:

From the faculty handbook for teaching undergraduates “Academic integrity is the pursuit of scholarly activity in an honest, truthful, and responsible manner. Violations of academic integrity include, but are not limited to, plagiarism, cheating on exams, falsification, unapproved collaboration, and destruction of library materials. Below are instances of violations with which all members of the academic community should be familiar...

Plagiarism occurs when individuals attempt to present as their own what has come from another source. Plagiarism takes place whether such theft is accidental or deliberate. It is no defense to claim that one has ‘forgotten’ to document ideas or material taken from another source.

Examples of plagiarism include, but are not limited to:

i. Using the ideas of another person, whether or not such ideas are paraphrased, from whatever source including oral, print, broadcast, or computer-mediated communication;

ii. Rewriting borrowed material by simply dropping a word here and there, substituting a few words for others, or moving around words or sentences.”

If you use ANY resource to help you in solving a problem, you must reference the resource. Such resources include—but are not limited to—other professors, fellow classmates, other textbooks, online resources. If you plagiarise, you will receive a grade of 0% on the assignment, quiz, or exam.

12. DISCLAIMER:

The course syllabus is a general plan for the course. The instructor may deviate from the syllabus but all such deviations will be announced in class and posted to the course webpage.