SYLLABUS

Instructor: Yun Yoo

Course Number: Math 161  CRN: 11989  Section: 001
Class Time: Tuesday and Thursday between 12:30 pm and 1:50 pm
Classroom: W3-03

E-mail: yyoo@ccp.edu (The best way to contact me)
Office: B1-9D
Phone: 215-751-8317
Webpage: http://faculty.ccp.edu/faculty/yyoo/
Office Hours: Tuesdays: 2:40-5:10 pm, 8:45pm-9:15pm and
Wednesdays: 2:20-4:00 pm and
Thursdays: 2:40-3:30 pm, 8:45 pm-9:15 pm or an appointment


Course Description: Functions and relations and their graphs, transformations and symmetries; composition of functions; one-to-one functions and their inverses; polynomial functions; complex numbers; rational functions; conic sections.

Calculator: Not required.
Prerequisites: MATH 118 with a grade of "C" or better.

Homework: It is especially important that you keep up with the homework. We will discuss some of these problems in class, and I will be glad to help you outside class as well, but it is your responsibility to do the work. Homework will be assigned, but it will not be collected. Do not allow yourself to fall behind, and seek help if you are having difficulty.

Attendance: Attendance will be taken at each class by means of an “Attendance Quiz” These are for practice and fun. I will give you solutions of each AQ at the end of class so that you shouldn’t ask me solutions before taking exam. There is a college policy allowing at most 6 absences during the semester. In the event that you do not meet this policy, you may be dropped from the class. Regular attendance is necessary in order to master the material. It is your responsibility to find out what you have missed due to absence. It is important that you try to do the work you have missed.

Test: There will be 3 tests and a comprehensive final exam.
Makeup Policy: Make-ups are the discretion of the instructor and require prior approval and a written, acceptable medical excuse. Everyone must take the Comprehensive Final Exam. If not, you will get “F”.
NOTE: No test grade will be dropped.

Help
There are several resources for students with questions. First and foremost, you should participate and ask questions in class. If you still have unanswered questions, please feel free to stop by my office during the office hours. More importantly, CCP provides free tutoring and workshops in Room B2-36 (South Learning Lab) for daytime and Room B1-28 (Central Learning Lab) for evening time. Many students find it helpful to form study groups for doing homework and studying for tests. It is a great way to learn materials.

Grading: The course average will be computed using the average of the three tests (75%) and the final (25%). Your written final grade will be determined as follow:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>A</td>
<td>90-100 %</td>
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<tr>
<td>B</td>
<td>80-89 %</td>
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<td>C</td>
<td>70-79 %</td>
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<td>D</td>
<td>60-69 %</td>
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<tr>
<td>F</td>
<td>0-59 %</td>
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Inclement weather: In the event of inclement weather there are several ways of determining whether CCP is open. You may listen for CCP's school closing number 238 (for day classes) and 2238 (for evening classes) on KYW radio at 1060 on the AM dial or check KYW's school closing web page at http://www2.kyw1060.com/schools/ or for a price you may call KYW's school closing phone number at 1-900-737-1060.

Spring Semester 2010:
Final day to drop course for spring 2010 without penalty of ‘F’ grade: Monday, April 12.
Professional Development Day-No class: Tuesday, February 16
Spring Vacation-No class: Monday-Saturday, March 8-13
Last Day to class: Thursday, April 29 for T/Th classes
Final Exam Week: Saturday, May 1 - Friday, May 7, 2010

Final Remarks:
- Avoid any behavior that can be disturbing to the class.
- Turn off pagers, mobile phones, and iPod
- Be respectful to me and to your classmates.
- No food or gum during class.
- If you need to leave the classroom early, do it as quietly as possible.
## Lecture Schedules

**Text:** *Precalculus 1, Custom Edition, Math 161, Community College of Philadelphia, 5/E by Stewart, Redlin, Watson*

| Week #1 (Jan 19-21) | T | 1.1 Real Numbers  
|                     |   | 1.2 Exponents and Radicals  
|                     | Th | 1.3 Algebraic Expressions  
| Week #2 (Jan 26-28) | T | 1.4 Rational Expressions  
|                     | Th | 1.5 Equations  
| Week #3 (Feb 2-4)  | T | 1.6 Inequality  
|                     |   | 1.8 Coordinate Geometry  
|                     | Th | 1.10 Lines  
| Week #4 (Feb 9-11) | T | 1.10 Lines  
|                     | Th | **Test 1**  
| Week #5 (Feb 16-18) | T | **Professional Development Day-No Class**  
|                     | Th | 2.1 What is a function?  
|                     |   | 2.2 Graphs of Functions  
| Week #6 (Feb 23-25) | T | 2.4 Transformations of Functions  
|                     | Th | 2.5 Quadratic Functions; Maxima and minima  
| Week #7 (March 3-5) | T | 2.7 Combining Functions  
|                     | Th | 2.8 One-to-one functions and their inverses  
| **Spring Break: College Closed, March 8-13** |  
| Week #8 (March 16-18) | T | 3.1 Polynomial Functions and their graphs  
|                     | Th | 3.2 Dividing Polynomials  
| Week #9 (March 23-25) | T | Catch up materials  
|                     | Th | **Test 2**  

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<thead>
<tr>
<th>Week</th>
<th>Date</th>
<th>Monday</th>
<th>Tuesday</th>
<th>Wednesday</th>
<th>Thursday</th>
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<tbody>
<tr>
<td>#10</td>
<td>(March 30-April 1)</td>
<td></td>
<td>3.3 Real Zero Polynomials</td>
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<td>3.4 Complex numbers</td>
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<tr>
<td>#11</td>
<td>(April 6-8)</td>
<td>T</td>
<td>3.5 Complex zero and the fundamental theorem of algebra</td>
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<td>3.6 Rational Functions</td>
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<tr>
<td>#12</td>
<td>(April 13-15)</td>
<td>T</td>
<td>10.1 Parabola</td>
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<td>10.2 Ellipses</td>
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<td>#13</td>
<td>(April 20-22)</td>
<td>T</td>
<td>10.3 Hyperbolas</td>
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<td>Test 3</td>
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<tr>
<td>#14</td>
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<td>T</td>
<td>10.4 Shifted Conics</td>
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<td>Review for final exam</td>
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<tr>
<td>#15</td>
<td>(May 1-7)</td>
<td></td>
<td>Comprehensive Final Exam</td>
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