Community College of Philadelphia **Fall 2011**
Math 162-Precalculus II **Dr. Yun Yoo**

SYLLABUS

Instructor: **Dr. Yun Yoo**

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Course Number: Math 162, Precalculus II **CRN:** 41870 **Section:** 008
Class Time: T / Th between 8:00 am and 9:20 am
Classroom: W3-02

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Course Number: Math 162, Precalculus II **CRN:** 41836 **Section:** 001
Class Time: T / Th between 9:30 am and 10:50 am
Classroom: BR-29

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E-mail: **yyoo@ccp.edu** (The best way contact me)
Office: B1-9D
Phone: 215-751-8317
Office Hours: T/Th : 6:35 pm-8:05 pm , Mon: 4 pm-6 pm, Wed: 3:50-4:50 pm, or by appointment

Course Webpage: **http://faculty.ccp.edu/faculty/yyoo/**

Text: **Math 162, Community College of Philadelphia, Precalculus, Mathematics for Calculus, Volume 2, 6th Edition by Stewart, Redlin, Watson**

Course Description: Exponential and logarithmic functions, trigonometric functions, identities, inverse trigonometric functions, law of sine, law of cosines, trigonometric form of complex numbers, applications.

Calculator: **You are NOT allowed to use it when you take tests.**

Prerequisites: MATH 161 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 at the end of every class, but it will not be collected.** DO NOT ALLOW YOURSELP 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. **The instructor as in accordance with College policy may drop any student who misses the equivalent of two weeks of class without an acceptable excuse.** 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."

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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 and weekend.** 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%: 300 pts), and the final (25%: 100 pts). Your written final grade will be determined as follow:

90-100 %	(360-400 pts)	A
80-89 %	(320-359 pts)	B
70-79 %	(280-319 pts)	C
60-69 %	(240-279 pts)	D
0-59 %	(0-239 pts)	F

Fall Semester 2011:
Final day to drop course for fall 2011 without penalty of 'F' grade: **Monday, Nov 21.**
Last day of class: Thursday, Dec 15 for T/Th classes
Final Exam Week: Friday, Dec 16- Wednesday, Dec 21, 2011

Final Remarks:

- **Avoid any behavior that can be disturbing to the class.**
- **Turn off cell phones and iPod.**
- **Be respectful to me and to your classmates.**
- **No food or gum during class.**
- **Be classroom on time if you really learn something from me.**
- **If you need to leave the classroom early, do it as quietly as possible.**

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Lecture Schedules

Week #1 (Sept 6-8)	4.1 Exponential Functions 4.2 The Natural Exponential Function
Week #2 (Sept 13-15)	4.3 Logarithmic Functions
Week #3 (Sept 20-22)	4.4 Laws of Logarithms 4.5 Exponential and Logarithmic Equations
Week #4 (Sept 27-29)	4.6 Modeling with Exponential and Logarithmic Functions **Test 1**
Week #5 (Oct 4-6)	5.1 The unit circle 5.2 Trigonometric Functions of Real Numbers
Week #6 (Oct 11-13)	**Professional Development day — no classes** 5.3 Trigonometric Graphs
Week #7 (Oct 18-20)	5.4 More Trigonometric Graphs 5.5 Inverse Trigonometric Functions and Their Graphs
Week #8 (Oct 25-27)	6.1 Angle Measure 6.2 Trigonometry of Right Triangles
Week #9 (Nov 1-3)	6.3 Trigonometric Functions of Angles **Test 2**
Week #10 (Nov 8-10)	6.4 Inverse Trigonometric Functions and Right Triangles 6.5 The Law of Sine / 6.6 The Law of Cosines
Week #11 (Nov 15-17)	7.1 Trigonometric Identities 7.2 Addition and Subtraction Formulas
Week #12 (Nov 22-24)	7.3 Double-Angle, Half-Angle, and Sum-Product Formulas **Thanksgiving Holidays**
Week #13 (Nov 29-Dec1)	7.4 Basic Trigonometric Equations 7.5 More Trigonometric Equations
Week #14 (Dec 6-8)	**Test 3** 8.1 Polar Coordinates
Week #15 (Dec 13-15)	8.2 Graphs and Polar Equations 8.3 Polar Form of Complex Numbers; DeMoivre's Theorem
Week #16	**Comprehensive Final Exam (**Dec 16-21)