SYLLABUS

Instructor: **Dr. Yun Yoo**

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Course Number: Math 171 **CRN:** 41970 **Section:** 003
Class Time: Tuesday and Thursday between 6:45 pm and 8:35 pm
Classroom: M3-19

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E-mail: yyoo@ccp.edu (The best way contact me)
Office: B1-9D
Phone: 215-751-8317
Office Hours: Monday between 3:00 pm-5:00 pm, and
Friday between 1:00-5:00 pm or an appointment

Text: **Calculus: Early Transcendentals, Math 171, Community College of Philadelphia**, by James Stewart, Brooks/Cole Co., 6th ED.

Course Description: Functions, graphs, limits, continuity, derivatives and antiderivatives of algebraic and transcendental functions; techniques of differentiation; applications of derivatives, polynomial approximation; indeterminate forms; maxima and minima and applications; curve sketching; the definite integral, the fundamental theorem of calculus, integration by substitution.

Calculator: **You are not allowed to use it when you take Tests.**

Prerequisites: MATH 162 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.** 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." 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 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%), and the final (25%). Your written final grade will be determined as follow:

90-100 %	A
80-89 %	B
70-79 %	C
60-69 %	D
0-59 %	F

Fall Semester 2010:
Final day to drop course for fall 2010 without penalty of 'F' grade: **Monday, Nov 22.**
Last day of class: Thursday, Dec 9 for T/Th classes
Final exam Week: Wednesday, Dec 15- Tuesday, Dec 21, 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.**
- **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.**

Community College of Philadelphia **Fall 2010**
Math 171-Calculus I **Dr. Yun Yoo**

Lecture Schedules

Text: Calculus: Early Transcendentals, Math 171, CCP, by James Stewart, 6th ED

Week #1 (Sept 7-9)	1.1 Functions and Their Representations 1.2 A Catalog of Essential Functions 1.3 The limit of a Function 1.4 Calculating Limits
Week #2 (Sept 14-16)	1.5 Continuity 1.6 Limits Involving Infinity
Week #3 (Sept 21-23)	2.1 Derivatives and Rates of Changes 2.2 The Derivative as a Function 2.3 Basic Differentiation Formulas
Week #4 (Sept 28-30)	2.4 The Product and Quotient Rules **Test 1**
Week #5 (Oct 5-7)	2.5 Chain Rule 2.6 Implicit Differentiation
Week #6 (Oct 12-14)	2.7 Related Rates 2.8 Linear Approximations and Differentials
Week #7 (Oct 19-21)	3.3 Derivatives of Logarithmic and Exponential Functions 3.5 Inverse Trigonometric Function
Week #8 (Oct 26-28)	3.7 Indeterminate Forms and L'Hospital's Rule **Test 2**
Week #9 (Nov 2-4)	4.1 Maximum and Minimum Values 4.3 Derivatives and the Shapes of Graph
Week #10 (Nov 9-11)	4.4 Curve Sketching 4.5 Optimization Problems
Week #11	4.7 Antiderivatives

(Nov 16-18)	5.3 Evaluating Definite Integrals
Week #12 (Nov 23-25)	5.4 The Fundamental Theorem of Calculus **Thanksgiving Holidays**
Week #13 (Nov 30-Dec2)	5.5 The Substitution Rule **Test 3**
Week #14 (Dec 7-9)	Final Review
Week #15 (Dec 15-21)	**Comprehensive Final Exam**