

## SYLLABUS

**Instructor:** Dr. Yun Yoo

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**Course Number:** Math 172                      **CRN:** 14037                      **Section:** 002

**Class Time:** Tuesday and Thursday between 6:45 pm and 8:35 pm

**Classroom:** W4-03

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**E-mail:** [yyoo@ccp.edu](mailto:yyoo@ccp.edu) (The best way contact me)

**Office:** B1-9D

**Phone:** 215-751-8317

**Office Hours:** Tuesdays: 11:00 am-12:30 pm and 3:30 pm-5:00 pm,  
Wednesdays: 2:00 pm-3:30 pm  
Thursdays: 11:00 am-12:30 pm or an appointment

**Text:** **Calculus: Early Transcendentals, Math 172, Community College of Philadelphia**, by James Stewart, Brooks/Cole Co., 6<sup>th</sup> ED.

**Course Description:** Fundamental theorem of calculus, integration by substitution, areas and volumes, techniques of integration, arc length, improper integrals, polar coordinates and parametric equations, conic sections, sequences, infinite series, power series, convergence tests, alternating series, Taylor and Maclaurin series.

**Calculator:** Not required, but you can use it if you want.

**Prerequisites:** MATH 166 with a grade of "C" or better or MATH 171 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 (72%) and the final (28%)**. Your written final grade will be determined as follow:

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

**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 2011:**

Final day to drop course for spring 2011 without penalty of 'F' grade: **Monday, April 11.**

Spring Vacation-No class: Monday-Saturday, March 7-12

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: Calculus: Early Transcendentals, Math 172, CCP**, by James Stewart,  
Brooks/Cole Co., 6<sup>th</sup> ED.

Week #1 (Jan 18-20)	T	5.2 The Definite Integral
	Th	5.3 Indefinite Integral
Week #2 (Jan 25-27)	T	5.4 The Fundamental Theorem of Calculus 5.5 The Substitution Rule
	Th	6.1 Integration by Parts
Week #3 (Feb 1-3)	T	6.2 Trigonometric Integrals and Substitutions
	Th	6.3 Partial Fractions
Week #4 (Feb 8-10)	T	6.6 Improper Integrals
	Th	<b>Test 1</b>
Week #5 (Feb 15-17)	T	5.1 Area and Distance
	Th	7.1 Areas between Curve
Week #6 (Feb 22-24)	T	7.2 Volumes
	Th	7.3 Volumes by Cylindrical Shell
Week #7 (March 1-3)	T	7.4 Arc Length
	Th	9.1 Parametric Curves
Week #8 (March 15-17)	T	9.2 Calculus with Parametric Curves
	Th	9.3 Polar Coordinates
Week #9 (March 22-24)	T	9.4 Areas and Lengths in Polar Coordinates
	Th	<b>Test 2</b>
Week #10 (March 29-31)	T	8.1 Sequence
	Th	8.2 Series
Week #11 (April 5-7)	T	8.3 The integral and Comparison Tests
	Th	8.3 The integral and Comparison Tests
Week #12	T	8.4 Other Convergence Tests

(April 12-14)	Th	8.5 Power Series
Week #13	T	8.6 Representing Functions as Power Series
(April 19-21)	Th	<b>Test 3</b>
Week #14	T	8.7 Taylor and Maclaurin Series
(April 26-28)	Th	Catch up materials
Week #15 (April 30-May 6)	<b>Comprehensive Final Exam</b>	