

# MA211-01 CALCULUS II (4)

Fall 2013 8/26 – 12/06/2013

TTH 8:30 – 9:50AM, EIBN 202 & W 1:30 - 2:20PM

**INSTRUCTOR: DR. CHOCK Y. WONG**

**Office:** WESS 109 (Phone: 739-4682; email: cwong@chaminade.edu)

**Office Hours:** W 11:30am – 12:30pm; TTH 10:00 - 12:00noon; or by appointments.

**Course Description:** Continuation of CALCULUS I. More techniques of integration and applications of the integral, differentiation and integration for transcendental functions (logarithmic, exponential, and inverse trigonometric functions), and theories of sequences and series will be studied.

**Prerequisites:** Calculus I (MA210) or equivalent.

**Text Book:** CALCULUS Of A Single Variable (9th edition).

By Larson / Hoststler / Edwards. *D.C. Heath & Company.*

**Topics:** Chapter 5, 6, 7, 8, and 9 will be covered. Main topics include:

- (1) The transcendental functions: Their derivatives and integrals. (Ch.5)
- (2) Differential equations. (Selected sections.) (Ch.6)
- (3) More techniques of integration; L'Hospital's rule. (Ch.8)
- (4) Applications of the integral: Area, volume, and work problems. (Ch.7)
- (5) (Optional) Infinite series: Convergence, Taylor series, Power series. (Ch.9)

The mathematics package DERIVE may be used to assist the learning for this course.

**Homework:** Usually odd numbered problems from the textbook will be assigned either as **on-your-own** exercises or as homework to turn in — it will be indicated by handout homework worksheets. It is important for you to work through the assignments (both from textbook and worksheets) on time so that you can grasp the content of the course in a timely manner and keep up with the progress of the class. **Grading penalty will apply to late homework papers.** Students are encouraged to form study groups and seek help from the tutors in Students Service Center.

## Quizzes and Exams:

Quizzes will be given as needed with prior announced details. To stress the importance of regular attendance, **no** make-up quiz will be allowed in general. A mid-term exam will be on Week 9, to cover Chapter 5, and a part of Chapter 8. The Final Exam is expected to be accumulative. Cellular phones are not allowed to be used as “calculators” in quizzes and exams — be aware that this is a uniform policy of the Division of Natural sciences & Mathematics.

**Grading:** (subject to changes)

ATTENDANCE:	8% of the total	<b>A:</b>	90 – 100%
HW & QUIZZES:	50% of the total	<b>B:</b>	80 – 89%
Mid-term EXAM:	14% of the total	<b>C:</b>	70 – 79%
FINAL EXAM:	28% of the total	<b>D:</b>	60 – 69%
		<b>F:</b>	below 60%