

**Time:** M-Th 9:00-11:30**Room:** GC 310

**Prerequisite:** Math 260 with a grade of “C” or better, or an appropriate placement level demonstrated through math assessment process.

**Instructor:** Dr. Mohamad Alwash**E-mail:** [alwashm@wlac.edu](mailto:alwashm@wlac.edu)**Phone:** (310)287-4216**Office:** MSB212**Textbook:** Calculus, by James Stewart; 5<sup>th</sup> Edition.

**Homework:** Homework assignments will be given every day. These assignments will not be graded. We shall discuss the assigned questions during the next class period. Please, do not expect that we do all the questions in class.

**Quizzes:** There will be 7 quizzes. I will drop one quiz and the remaining will make up 15% of the course grade. There will be no makeup for a missing quiz.

**Tests:** There will be five tests and a final. Each of the five tests is worth 10% of the final course grade. Makeup tests will be given to students possessing valid excuses. **Advanced notice is mandatory.**

**Final:** The final will be a comprehensive exam. It is worth 35% of your grade.

**Attendance:** If you miss three days, the instructor has the option of excluding you from the class.

**Summary:** Total 1000 points. Quizzes: 150 P Tests: 500 P Final: 350 P

**Grading:** A: 900-1000 B: 800-899 C: 700-799 D: 600-699 F: < 600

**Important Dates:** Last day to drop without a “W” 6/20/2014, with a “W” 7/17/2014

**Note:** *Phones and devices with communication ability are not allowed.*

### **Institutional Student Learning Outcomes**

- A) **Critical Thinking:** Analyze problems by differentiating fact from opinions, using evidence, and using sound reasoning to specify multiple solutions and their consequences.
- B) **Quantitative Reasoning:** Identify, analyze, and solve problems that are quantitative in nature.
- C) **Technical Competence:** Utilize the appropriate technology effectively for informational, academic, personal, and professional needs.

### Program Student Learning Outcomes

- 1) Use mathematical tools essential for analyzing quantitative problems and for producing solutions. (Theme: mathematical tools)
- 2) Apply advanced mathematical concepts and tools (algebra, calculus) essential in upper division academic work and/or workplace tasks. (Theme: advanced mathematical operations- algebra and calculus).

### Course SLO

1. Use and interpret the derivative algebraically, graphically, and numerically to model rate of change in physical phenomena (e.g. velocity, acceleration, population growth, rate of change when the independent variable is not time) and in other quantifiable contexts (e.g. marginal analysis in economics, slope of a graph).
2. Use and interpret the integral algebraically, graphically, and numerically to model summation in physical phenomena (e.g. distance traveled) and other quantifiable situations (e.g. average value, net change).

The purpose of Math 261 is to introduce the concepts of limit, continuity, derivative, and integral for functions in one variable. We consider polynomial, rational, and trigonometric functions.

Many applications of differentiation and integration are also given.

At least, the first six chapters of the textbook will be covered.

### Schedule (Tentative):

<b>Weeks</b>	<b>Monday</b>	<b>Tuesday</b>	<b>Wednesday</b>	<b>Thursday</b>
<b>1(6/16)</b>	Chapter1	2.1, 2.2	2.3	2.4, Q1
<b>2(6/23)</b>	2.5, 2.6	<b>Test1</b> , 3.1	3.2, 3.3	3.4, 3.5
<b>3(6/30)</b>	3.6, Q2	3.7, 3.8	3.9, 3.10	Review, Q3
<b>4(7/7)</b>	<b>Test2</b> , 4.1	4.2, 4.3	4.4, 4.5	4.7
<b>5(7/14)</b>	4.8, 4.9, Q4	4.10, Review	<b>Test3</b> , 5.1	5.2
<b>6(7/21)</b>	5.3	5.4	5.5	Q5, Review
<b>7(7/28)</b>	<b>Test4</b> , 6.1	6.2, 6.3	6.4, Q6	6.5
<b>8(8/4)</b>	Review, Q7	<b>Test5</b>	Review	<b>FINAL</b>

**Final Exam: Thursday 8/7/2014; 8-10**