

MATH 261– Calculus I Section 1502 Fall 2014

Time: M-Th 8:00-9:15.

Room: MSA-202.

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

Instructor: Dr. Mohamad Alwash

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Phone: (310)287-4216

Office: MSB212

Office Hours: M-Th 9:15-10:40

Textbook: Calculus, by James Stewart; 5th Edition.

Homework and Quizzes: Homework assignments will be given every day. Each assignment will be collected and graded, checked in class, or checked by a quiz. We shall also discuss the assigned questions during the next class period. Do not expect that we do all the questions in class. If you have more questions, please come to office hours. These assignments will make up 20% of the final course grade.

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 30% of your grade.

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

Summary: Total 1000 points. Homework Assignments: 200 P Tests: 500 P Final: 300 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” 9/12/2014, with a “W” 11/21/2014

Note: *Phones, devices with communication ability, and calculators are not allowed on the tests.*

Course SLO

1. Use and interpret the derivative algebraically, graphically, and numerically to model rates of change in physical phenomena (e.g. velocity, acceleration, population growth, rates 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.**

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).

Schedule (Tentative):

Final Exam: Wednesday 12/17/2014; 8-10.

Weeks	Monday	Tuesday	Wednesday	Thursday
1(9/1)	Holiday	1.1, 1.2	1.3	2.1, 2.2 Quiz1
2(9/8)	2.3	2.4 Quiz2	2.5	Review Quiz3
3(9/15)	Test1	3.1, 3.2	3.3	3.4 Quiz4
4(9/22)	3.5	3.5 Quiz5	3.6	3.6 Quiz6
5(9/29)	3.7	3.8 Quiz7	3.9	3.10 Quiz8
6(10/6)	Review	Test2	4.1	4.2 Quiz9
7(10/13)	4.3	4.4	4.5	4.7 Quiz10
8(10/20)	4.7	4.8	4.9	Review Quiz11
9(10/27)	Test3	4.10	4.10	5.1 Quiz12
10(11/3)	5.2	5.2	5.3 Quiz13	5.4
11(11/10)	5.5	Holiday	5.5	Review Quiz14
12(11/17)	Test4	6.1	6.1	6.2 Quiz15
13(11/24)	6.2	6.3 Quiz16	6.3	Holiday
14(12/1)	6.4 Quiz17	6.4	6.5	Review Quiz18
15(12/8)	Test 5	Review	Review	Review
16(12/15)	No Class	No Class	FINAL	