

**King Fahd University of Petroleum and Minerals**  
**Department of Mathematics & Statistics**  
**Math 102 – Syllabus, 2009-2010 (092)**  
**Coordinator: Dr. Hussain Al Attas**

**Title:** Calculus II  
**Credit:** 4-0-4  
**Textbook:** Calculus (Early Transcendentals), by J. Stewart, 6<sup>th</sup> edition, Brooks/Cole, 2008  
**Description:** Definite and indefinite integrals of functions of a single variable. Fundamental Theorem of Calculus. Techniques of integration. Application of the definite integral to area, volume, arc length and surface of revolution. Improper integrals. Sequences and series: convergence tests, integral, comparison, ratio and root tests. Alternating series. Absolute and conditional convergence. Power series. Taylor and Maclaurin series.

**Grading Policy**

1. Exam I: 25% (100 points), a common multiple choice exam. It will be on **Sunday, March 28, 2010.**
2. Exam II: 25% (100 points), a common written exam. It will be on **Sunday, May 02, 2010.**
3. Class Work: 15% (60 points). It is based on:
  - a) Four written quizzes (worth 36 points)
  - b) Homework (16 points)
  - c) Attendance (8 points)
4. Final Exam: 35% (140 points), a comprehensive common multiple choice exam. It will be on **Saturday, June 12, 2010 at 7:30 AM**

**Class Work.** The section average of the Class Work should be between 36 and 45 out of 60

**Exam Questions.** The questions of the common exams are based on the examples, homework problems, recitation problems and the exercises of the textbook.

**Missing an Exam.** No makeup exam will be given under any circumstance. When a student misses Exam I or Exam II for a legitimate reason (such as medical emergencies), his grade for this exam will be determined based on the Department policy. Further, the student must provide an official excuse within one week of the missed exam.

**Attendance.** A DN grade will be awarded to any student who accumulates 12 unexcused absences (lecture and recitation). Any student who comes after 5 minutes from the beginning of the class without excuse will be marked “L” and each two “L” will be counted as one absence

**Academic Integrity.** All KFUPM policies regarding ethics apply to this course.

**Office hours:** S-M-W, from 10:05 AM to 10:55 AM, **Instructor’s Name:** Kassem Mustapha,  
**Office:** 322-5, **Email:** [kassem@kfupm.edu.sa](mailto:kassem@kfupm.edu.sa)