CALCULUS IV - Multivariable Calculus
MATH 1024 – Section 09
B Term 2008

Professor       DR. SUZANNE L. WEEKES
Office           109B STRATTON HALL
Office Phone    (508) 831-5267
Email           sweekes@wpi.edu
Office Hours    Mon, Thurs 10:30-11:30 or by appointment
Course Website  http://www.wpi.edu/~sweekes/MA1024
Textbook        Calculus by Edwards and Penney 7th edition
Assistant       MIGUEL RASCO    mrasco@wpi.edu
Course Schedule Lecture in SL 305  MTRF 1:00 – 1:50
                  Conference in SH 309  T 3:00 – 3:50
                  Lab in SH 306        M 3:00 – 3:50
Grading         QUIZZES        9% x 5
                  HOMEWORK        25%
                  FINAL EXAM      20%
                  LAB ASSIGNMENTS 10%

This course provides an introduction to multivariable calculus. Topics covered include: vector functions, partial derivatives and gradient, multivariable optimization, double and triple integrals, polar coordinates, other coordinate systems and applications.

Recommended background: MA 1021, MA1022, MA1023
CLASS ROUTINE

The class meets six times a week: four times in lecture, once in conference, and once in the computer laboratory. You are responsible for any and all material discussed in lecture, conference, and lab.

Homework

Homework is a required component of the course. Problems will be assigned for each section of the book covered and will be posted on the class web page. It is necessary to do, at a minimum, the assigned problems so that you can learn and understand the mathematics. You should do additional problems for further practice.

Your homework will be collected at the beginning of each Thursday’s class. Late homework will not be accepted. If you must miss Thursday’s class, you should have your work turned in before class time in order for it to be graded. Work on the problems daily.

Your work should be very legible and done neatly. If the work is not presentable, and is illegible, you will not receive credit for it. Please staple the sheets of your assignment together. Do not use paper torn out of spiral bound notebooks. In the upper right hand corner of your assignment you should write

- your name,
- class section number,
- the book section number and list of assigned problems

A problem will receive a score of 1 if done correctly, 1/2 if reasonably done but having some error, and 0 if not done at all or nothing accomplished. You need to show both your answer and the work leading to it. Merely having the right answer gets no credit - we can all look them up in the back of the book. Your homework grade is determined at the end of the course by the percentage of the graded problems assigned that you got correct.
Quizzes
Each Thursday, there will be a 15–20 minute in-class quiz emphasizing the most recently covered topics. If you miss a quiz for any reason (illness, travel, etc.), you will receive a score of zero. However, don’t worry, the lowest quiz score will be dropped. Make-up quizzes will never be given.

Conferences
In the Tuesday conference sessions, you will meet with the Peer Learning Assistant (PLA) for the class. You will be able to ask the PLA questions on the material covered and homework. The PLA may also give you in-class assignments and review course material.

Labs
Each Monday, students will meet in the computer lab (SH306) with the Instructor’s Assistant (IA). We will use the computer algebra system, Maple, as a visual and computational aid to help you explore the mathematical theory and ideas of the calculus. You will not be given credit for a lab report if you did not attend the lab.

Academic Dishonesty
Individual integrity is vital to the academic environment because education involves the search for and acquisition of knowledge and understanding, which are, in themselves, intangible. Evaluation of each student’s level of knowledge and understanding is an essential part of the teaching process, and requires tangible measures such as reports, examinations and homework.

*Any act that interferes with the process of evaluation by misrepresentation of the relation between the work being evaluated (or the resulting evaluation) and the student’s actual state of knowledge is an act of academic dishonesty.*

Each student is expected to familiarize him/herself with WPI’s Academic Honesty policies which can be found at

http://www.wpi.edu/Pubs/Policies/Honesty/

All acts of fabrication, plagiarism, cheating, and facilitation will be prosecuted according to the university’s policy. If you are ever unsure as to whether your intended actions are considered academically honest or not, please see Prof. Weekes first!
Students with Disabilities

Students with disabilities who believe that they may need accommodations in this class are encouraged to contact the Disability Services Office (DSO), as soon as possible to ensure that such accommodations are implemented in a timely fashion. The DSO is located in Daniels Hall, (508) 831-5235.

If you are eligible for course adaptations or accommodations because of a disability (whether or not you choose to use these accommodations), or if you have medical information that I should know about please make an appointment with me immediately.