MA 1024 Section 15a: Calculus IV  

Professor: Suzanne L. Weekes  
Email: sweekes@wpi.edu  

Office: 109B Stratton Hall  
Office Hours: Mondays 1:30 – 2:30  
Tuesdays 1:00 – 2:00  
Thursdays 11:00 – 12:00  

Lectures: MTRF 10:00 – 10:50  
Washburn Shops 229  
Conference: R 5:00 – 5:50  
Stratton Hall 106  
Maple Labs: M 5:00 – 5:50  
Stratton Hall 003  

PLA: Daniel Duhaney  
dmaduhaney@wpi.edu  

Web Page: Information about the course will be maintained on the course web page  
http://www.wpi.edu/~sweekes/MA1024  

Grading:  
Quizzes 8% x 5  
Homework 35%  
Final Exam 15%  
Lab Assignments 10%  

Overview:  
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 1023.  
Although the course will make use of computers, no programming experience is assumed.  

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.  

Absence from Class:  
If you need to miss class for some reason, e.g. attending conference, participating in a competition, or for religious reasons, please discuss this with me at the beginning of the term.
Quizzes:
Each week, there will be a 15 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.

Homework:
Written homework 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 the class in which it is due. Late homework will not be accepted. If you must miss the class, please have your work turned in before class time in order for it to be graded. Do not wait until the weekend to start your homework. 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 sheets of paper with frayed edges that have been torn out of spiral bound notebooks. In the upper right hand corner of your assignment write your name, the class section number which is B08, and the list of book sections for the assignment.

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.

There will also be homework using the online tool WebWork. This is the same software that you used for the Math Placement Exam that you took during the summer. The WebWork assignments will be found on the MA1024 WebWorks website which is https://webwork.wpi.edu/webwork2/MA1024B11 Do not use the WebWork system to email for help on problems; such an email may end up going to all the professors and assistants for all the sections of MA1024. Instead, see the professor as soon as possible or email the PLA.
Conferences:
In the Thursday 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 will also give you in-class assignments and review course material.

Labs:
Each Monday, students will meet in the computer lab (SH006) with the Instructor's Assistant (IA) who is William Sanguinet. We will use the computer algebra system, Maple V, 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. There are no make-up labs. The first lab will be on Monday 31st October, 2011.

Final Assessment:
You will have a final assessment that may be a 50-minute comprehensive examination in class and/or a final project.

Academic Integrity:
Please read the Student Guide to Academic Integrity at WPI
http://www.wpi.edu/offices/policies/honesty
and all its pages. For example, the link “What Constitutes Academic Dishonesty?” gives some examples of academic dishonesty; i.e. acts that interfere 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. Each student must familiarize himself/herself with WPI’s Academic Honesty Policy. All suspected cases of dishonesty will be fully investigated.

Ask Prof. Weekes if you are in any way unsure whether your proposed actions/collaborations will be considered academically honest or not.

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 the Student Development and Counseling Center and the phone number is 508-831-4908, e-mail is DSO@WPI.

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.