

**MATH 241, Sec. 02xx:** CALCULUS III (An Introduction to Multivariable Calculus)

Department of Mathematics, UMCP

Fall 2011

Handout 1: SYLLABUS AND POLICIES

Date: Wednesday, 08/31/11

**Lecture Room:** ARM 0135

**Time:** MWF 11:00a.m. – 11:50a.m.

**Instructor:** Prof. Dio Margetis; e-mail: dio@math.umd.edu

Office: MATH 2110; telephone: 405-5455.

**Office hours:** Mondays and Wednesdays 11:50a.m.-12:50p.m., after lecture; or by appointment. Students coming to office hours should have *specific and well defined* questions.

**Prerequisites:** MATH 141.

**Texts:** 1) R. Ellis & D. Gulick, *Calculus*, 6th Edition, Thomson, 2003. 2) B. Hunt, R. Lipsman & J. Rosenberg, *A Guide to MATLAB: For Beginners and Experienced Users*, 2nd Ed., Cambridge University Press. 3) J. Cooper, *MATLAB: Companion for Multivariable Calculus*, Harcourt/Academic Press. Only text 1) will be followed in class lectures.

**Material:** Introductory concepts and techniques for calculus with more than one real variable, including: vectors and vector-valued functions; partial derivatives and applications; multiple integrals; volume; surface area; theorems of Green, Stokes, and Gauss; and applications to physical problems. A detailed syllabus is given on the Mathematics Department web page:

<http://www.math.umd.edu/undergraduate/courses/syllabi/syllabusMATH241.html>

**Course Website:** Any handouts and updates on the course will be posted on:

<http://www.math.umd.edu/~dio/courses/MATH241/>

*Check this website regularly!*

**Teaching Assistants (TAs) & Sections:** Sections are held Tue/Thu, starting Sep. 1

- S. Punshon-Smith (punshs@math): Secs. **0211:** 8am, MTH0307; **0221:** 9am, MTH0307
- S. Balady (sbalady@math): Sec. **0212:** 8am, MTH0101; & **0222:** 9am, MTH0101
- K. Nakamura (nakamura@math): Sec. **0231:** 10am, MTH0307; & **0241:** 11am, MTH0401
- JJ. Lee (ljj82@math): **0232:** 10am, MTH0101; **0242:** 11am, MTH0405

Check course website for updates on TA's by 09/06/11.

**Matlab:** Exercises to be solved with Matlab will be given in sections by the TAs. A 7% credit will be given to students who return solutions. *Solutions returned late won't be collected, nor given any credit.* Guidelines for Matlab are posted on the course website.

**Exams:** There will be four in-class exams and one final exam. Dates for in-class exams are: Mon. Oct. 3, Mon. Oct. 24, Wed. Nov. 16, and Fri. Dec. 9. Only **three** in-class exams will count towards the final grade. The Final Exam is on **Thu Dec. 15, 1:30pm-3:30pm**; rooms will be announced. **Advice:** take all of the above exams. Students who also take MATH246: There will be an alternate final exam TBA.

**Quizzes:** 8 quizzes will be given at sections (i.e., Tue/Thu) on following dates: Thu Sep. 15, Tue Sep. 27, Tue Oct. 11, Tue Oct. 18, Thu Oct. 27, Thu Nov. 10, Thu Nov. 17, Tue Dec. 6. The quizzes will be based on assigned, recommended homeworks.

Only 7 out of 8 quizzes will count towards your final grade.

**Make-up exams:** *There are no make up exams:* if you are absent from a test and you provide *well in advance* (10 days) a *well documented, valid* justification for the reason of your absence, you might have the chance to make up by the final exam or bonus credit from Matlab. (For some guidelines on absences from lectures etc, see <http://faculty.umd.edu/teach/attendance.html>)

**Homeworks:** There will be recommended but not required homeworks. Recommended problems from the textbook will be assigned on Fridays for your practice. No solutions will be handed out. Your solutions won't be collected.

**Grades:** **54%** from 3 in-class exams (of equal weight); **14%** from 7 quizzes (of equal weight); **7%** from Matlab; and **25%** from final exam. (The in-class exam and quiz with the lowest grades won't count towards the final grade.)

**Exam policies:** No calculators are allowed during exams and quizzes. **You may use 1 page of handwritten notes** (1 sheet of paper with 2 written sides) for **in-class exams and the final exam only**. These notes should be prepared by yourself. Explanations in your test papers must be given in coherent English sentences. Minor algebraic and numerical errors, such as missing a sign, that are not symptomatic of a conceptual misunderstanding will be penalized minimally. Egregious errors, such as  $\frac{1}{a+b} = \frac{1}{a} + \frac{1}{b}$ , will be penalized severely.

If you feel that you are entitled to more points on a test, **resubmit your paper** with a note explaining why you feel your grade should be changed. (Since each questioned problem will be very carefully reexamined, it is possible that you could actually end up losing points in the reevaluation.) The Instructor and TAs reserve the right to **disregard your paper resubmission if they deem this is overdue or unsubstantiated**.

**Academic Integrity.** You are expected to read carefully and adhere to the following instruction provided by the Student Honor Council.

The University of Maryland, College Park has a nationally recognized Code of Academic Integrity, administered by the Student Honor Council. This Code sets standards for academic integrity at Maryland for all undergraduate and graduate students. As a student you are responsible for upholding these standards for this course. It is very important for you to be aware of the consequences of cheating, fabrication, facilitation, and plagiarism. For more information on the Code of Academic Integrity or the Student Honor Council, please visit <http://www.shc.umd.edu>.

To further exhibit your commitment to academic integrity, remember to sign the Honor Pledge on all examinations and assignments: *"I pledge on my honor that I have not given or received any unauthorized assistance on this examination (assignment)."*

**Additional note for MATH 241:** You will not be asked to sign such a pledge on possible homework assignments, but you are nevertheless expected to adhere to the principles of the pledge throughout. The rationale for the pledge is available at <http://www.umd.edu/honorpledge>.

**Students With Disabilities.** If you have a documented disability and need academic accommodations, please *contact me as soon as possible*. **DSS Procedures:** I ask that, within the next week, you *submit 5 Test Authorization Forms* (by DSS), one for each exam.

**Religious Observances.** If you plan to be absent from class because of religious observances, please submit a list of the dates of your absences within a couple of days.

**Counseling.** For confidential counseling and help with personal issues, students are encouraged to contact the UMD Help Center, 301-314-HELP (4357).