Math 3110 Syllabus – Fall 2010

CALCULUS III

Instructor Information

Instructor: Dr. Wandi Ding
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Office Hours: MWF 9:00-10:00am, 2:00-3:00pm or by appointment

Course Information

Class Schedule: MTWR 8:00-8:55am in VET 242


Prerequisites: MATH 1920.

Content: Four credits. Adjusts calculus techniques developed in the plane (Calculus I and II) to make them applicable in three-dimensional space. Introductory study of the nature of three-dimensional space and definition of the algebraic calculations in three-dimensional space. Differential and integral calculus definitions and techniques revised to appropriately transfer into this new space. Topics include multivariate functions, partial differentiation, partial integration, multiple integration, and multidisciplinary applications. Most materials from chapters 11-15 will be covered.

Objectives: At the end of the course, students are expected to

- be able to visualize geometry in three-dimensional space;
- be able to do the calculus of scalar functions of several variables and the calculus of vector functions;
- be able to apply multivariable calculus concepts to real world problems.

Requirements: In general, you are expected to

1. attend class lectures; review your derivatives and integration formulas as needed;
2. come to class prepared (this includes completing homework in a timely manner and bringing your textbook);
You will need access to WebAssign. To access this website, go to https://www.webassign.net/ and follow the directions. You will use this website to practice problems and submit homework.

You need my class key: mtsu 5450 5391 and an access code (need to purchase) to create your account.

See: http://frank.mtsu.edu/~wding/3110-fa10.html, there is WebAssign_Student_Getting_Started.pdf to give you details to help you do self-enroll;

3. read the textbook and the lecture notes thoroughly and solve the assigned problems;

4. ask question in class when you are unsure of any concept or unclear on any assigned problem;

5. come to my office for additional assistance as necessary;

6. take all exams on the day they are scheduled.

Grading Policy:

Homework: 20%
Three Tests: 60% (each counts 20%)
Final Exam: 20%

90-100 A, 80-89 B, 70-79 C, 60-69 D, Below 60 F.

Final Exam: Wednesday, December 15, 7:30 - 9:30 a.m.

Additional Information

Drop/Withdrawal Policy

Please note the Drop Policy and Withdrawal Procedures as they are stated in the Fall 2010 Registration Guide. The last day to drop this course without a grade is September 10. The last day to drop this course with a "W" is October 15. A grade of “I” will be given only in accordance with University Policy.

No grade of “W” will be assigned after the official drop date except in situations involving extreme extenuating circumstances beyond the student’s control. In particular, a “W” will not be granted merely because the student is failing. Students should be aware that missing the official drop date and thereby receiving an “F” can have ramifications on financial aid.
Lottery Scholarships

To retain Tennessee Education Lottery Scholarship eligibility, you must earn a cumulative TELS GPA of 2.75 after 24 and 48 attempted hours and a cumulative TELS GPA of 3.0 thereafter. You may qualify with a 2.75 cumulative GPA after 72 attempted hours (and subsequent semesters), if you are enrolled full-time and maintain a semester GPA of at least 3.0. A grade of C, D, F, or I in this class may negatively impact TELS eligibility. Dropping a class after 14 days may also impact eligibility; if you withdraw from this class and it results in an enrollment status of less than full time, you may lose eligibility for your lottery scholarship. Lottery recipients are eligible to receive the scholarship for a maximum of five years from the date of initial enrollment, or until a bachelor degree is earned. For additional Lottery rules, please refer to your Lottery Statement of Understanding form, review lottery requirements on the web at http://scholarships.web.mtsu.edu/telsconteligibility.htm, or contact the Financial Aid Office at 898-2830.

Disability Assistance

If you have a disability that may require assistance or accommodation, or you have questions related to any accommodations for testing, note takers, readers, etc., speak with me as soon as possible. Students must also contact the Office of Disabled Students Services (898-2783) with questions about scheduling such services.