# Course Syllabus

**Department** : Mathematics

**Course Title** : Calculus III

**Section Name** : MATH_2415_405

**Start Date** : 01/18/2011

**End Date** : 05/13/2011

# Instructor Information

**Name** : Margaret Street

**OC Email** : mstreet@odessa.edu

**OC Phone #** : (432) 335-6863

## Course Description

Presents a study of sets, functions of more than one variable, vectors in the plane and in space, vector-valued functions, vector fields, partial derivatives, and multiple integrals. Includes a study of line integrals, Green's theorem, and surface integrals. The student will learn to select appropriate mathematical techniques and technologies and use skills in information organizing, processing, planning and problem solving. The student should be able to probe for mathematical meaning and, perhaps, describe these meanings to others.

## Prerequisites/Corequisites

**PREREQUISITES**: Math 2414

## Scans

SCANS 3,8,9,11

## Course Objectives

After completing this course, the student should be able to demonstrate competency in:

|       |                          |
|-------|--------------------------|
| 1.0   | Vectors and surfaces     |
| 2.0   | Vector-valued functions  |
| 3.0   | Partial differentiation  |
| 4.0   | Multiple integrals       |
| 5.0   | Vector calculus          |

**SUBJECT MATTER**
Chapters 11-15 in the text will be covered. Topics include applications of vectors, vector-valued function, partial differentiation, multiple integrals, and vector calculus.
**ATTENDANCE**
Although attendance is not factored into your term grade, attendance will be taken at the beginning of each class period.

**HOMEWORK**
Homework problems will be assigned each class period, but will not usually betaken up for a grade. YOUSHOULD NOT EXPECT TO BE ABLE TO PASS THE CLASSWITHOUT DOING ALL OF THE HOMEWORK ASSIGNMENTS! Homework assignments will be posted on the website. It is your responsibility to get the assignment if you are absent.

**QUIZZES**
Quizzes will be given throughout the semester. NO MAKE-UP QUIZZES WILL BEGIVEN. There will be a small curve on the quiz average.

**TESTS**
There will be 3 tests and a comprehensive final exam. The lowest test grade will be replaced by the grade you make on the final exam if it is higher. NO MAKE-UP TESTS WILL BE GIVEN. You MUST take the final exam. Test dates will be announced in class several days prior to the test.

## Required Readings/Materials

a)You must purchase the following *required* readings/materials:

**TEXTBOOKS**: : <u>Calculus with Analytic Geometry,</u> by R. Larson, R. P. Hostetler, and B.H. Edwards, Ninth Ed., Boston, MA, Houghton Miffin Company, 2002. ISBN: 0-618-50298-X

## Course Requirements (Lectures, Assignments and Assessments)

The course will consist of 12 quizzes, 3 tests, and a comprehensive final exam.

## Summary of Assignments & Activities

| ITEM | TYPE | DESCRIPTION | DUE |
|------|------|-------------|-----|
| Quiz 1 | Quiz | | TBA |
| Quiz 2 | Quiz | | TBA |
| Quiz 3 | Quiz | | TBA |
| Test 1 | Test | | TBA |
| Quiz 4 | Quiz | | TBA |
| Quiz 5 | Quiz | | TBA |
| Quiz 6 | Quiz | | TBA |

| | | | |
|---|---|---|---|
| Test 2 | Test | | TBA |
| Quiz 7 | Quiz | | TBA |
| Quiz 8 | Quiz | | TBA |
| Quiz 9 | Quiz | | TBA |
| Test 3 | Test | | TBA |
| Quiz 10 | Quiz | | TBA |
| Quiz 11 | Quiz | | TBA |
| Final Exam | Final Exam | Comprehensive Final Exam | TBA |

## Grading Policy

### GRADE
 Homework: 15%
 Tests:  60%
 Final Exam: 25%

You may check your grades in the online grade book at any time. This is useful in making sure that the assignment was turned in and graded.

| Percentage % | Grade |
|---|---|
| 90+ | A |
| 80-89.9 | B |
| 70-79.9 | C |
| 60-69.9 | D |
| <60 | F |

## Special Needs

Odessa College complies with Section 504 of the Vocational Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990. If you have any special needs or issues pertaining to your access to and participation in this or any other class at Odessa College, please feel free to contact me to discuss your concerns. You may also call the Office of Disability services at 432-335-6861 to request assistance and accommodations.

## Learning Resource Center (Library)

The Library, known as the Learning Resources Center, provides research assistance via the LRC's catalog (print books, videos, e-books) and databases (journal and magazine articles). Research guides covering specific subject areas, tutorials, and the "Ask a Librarian " service provide additional help.

## Student E-mail

Please access your Odessa College Student E-mail, by following the link to either set up or update your account: http://www.odessa.edu/gmail/. **All assignments or correspondence will be submitted using your Odessa College email.**

## Student Portal

Please access your [Odessa College Student E-mail,](#) by following the link to either set up or update your account: http://www.odessa.edu/gmail/. **All assignments or correspondence will be submitted using your Odessa College email.**

## Technical Support

For Blackboard username and password help and for help accessing your online course availability and student email account contact the Student Success Center at 432-335-6878 or online at https://www.odessa.edu/dept/ssc/helpdesk_form.htm.

## Important School Policies

For information regarding student support services, academic dishonesty, disciplinary actions, special accommodations, or student's and instructors' right to academic freedom can be found in the [Odessa College Student Handbook](#).