MAT 460 Vector Calculus
SPRING 2017*

*Important Note: All items on this syllabus are subject to change.
Any in-class announcement, verbal or written, is considered
official addendum to this syllabus.

Course: MAT 460, Vector Calculus
Time: 9 – 10:15 am, TTh
Location: CDN 62
Line #:   27994
Instructor: Dr. Sergei Suslov
Office: PSA 621
Phone: 965-8987
E-mail: *sks@asu.edu*
Office Hours: TBA
Text: Vector Calculus, 5th edition, by Jerrold E. Marsden and Antony J. Tromba, W. H.
Freeman and Company, New York, 2009 (required); Applications of Tensor Analysis, by A. J.
McConnel, Dover Publications, Inc., New York, 1957 (if there is time, recommended).
Prerequisite: MAT 242 (or 342 or 343), 272, 274 (or 275)
Exams: There will be two regular in class exams (2*150);
                 homework and quizzes (100);
                 and a comprehensive final exam (200)
Grading Policy:
                 A-, A, A+ = 90 - 100%
                 B-, B, B+ = 80 - 89%
                 C, C+ = 70 - 79%
                 D = 60 - 69%
                 E = 0 - 59%
Material to be covered: Except for a few sections, chapters 1-8 will be covered
Make-up policy: No make-up exams will be given without notification.
                 Also, no late homework will be accepted for grading.

Course Description

The main purpose of this course is to explore basic methods of differential and integral Vector
Calculus a subject that is very important in the education of student majoring in mathematics,
science or engineering.
The topics include: Vectors, curvilinear coordinates, Jacobians, implicit function theorem, line
and surface integrals, Green's, Stokes', and divergence theorems. Not open to students with credit
in MAT 372. Prerequisites: MAT 242 (or 342 or 343), 272, 274 (or 275).
More information can be found on the past course website:

 http://hahn.la.asu.edu/~suslov/classes/mat460s10/mat460s10.htm