

Youngstown State University

Department of Mathematics and Statistics

Course Outline for Mathematics 2673

Course Title: Calculus 3

Course Credit: 4 s.h.

Text: Calculus by Stewart 6th edition

Software: Maple 8(student version) or better

Course Prereq: MATH 1572

Course Description: The course is an introduction to the study of calculus in three . The main concepts to be studied include the geometry of three dimensional space, vectors and vector-valued functions, functions of several variables, differentiation and integration of these functions, and applications. The computer will be used to assist this study.

Material Covered:

Sections

12.1 – 12.6 Vectors and the Geometry of Space

13.1 – 13.4 Vector Functions

14.1 – 14.9 Partial Derivatives

15.1 – 15.7 Multiple Integrals

16.1 – 16.3 Vector Calculus

Grading: A grading and attendance policy will be distributed by the instructor, who will write the final exam for his/her section.

Students with Disabilities: In accordance with University procedure, if you have a documented disability and require accommodations to obtain equal access in this course, please contact the Office of Equal Opportunity and Disability Services at the beginning of the semester or when given an assignment for which an accommodation is required. Students with disabilities must verify their eligibility through the Office of Disability Service in Wick House (330) 941-1372 intake procedure.

Last Day to Withdraw with a “W”: **March 26, 2009, Thursday.**

A website for this course can be found at http:

//www.math.ysu.edu/~buoni/

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