

Business Calculus

YEAR COURSE OFFERED: Every

SEMESTER COURSE OFFERED: Spring

DEPARTMENT: Math

COURSE NUMBER: 1325

NAME OF COURSE: Business Calculus

NAME OF INSTRUCTOR: Varies

The information contained in this class syllabus is subject to change without notice. Students are expected to be aware of any additional course policies presented by the instructor during the course.

Learning Objectives

The student will master the following topics:

1. Finding regression models and using them to solve problems.
2. Finding limits, derivatives and definite integrals of polynomial functions
3. Solving problems applicable to business and the life sciences using limits, derivatives and definite integrals
4. Solving problems involving Optimizing functions of two variables.

Major Assignments/Exams

Three tests and a cumulative final exam.

Required Reading

Applied Calculus, 4th Edition by Deborah Hughes-Hallett, Patti Frazer Lock, Andrew M. Gleason, Daniel E. Flath, Sheldon P. Gordon, David O. Lomen, David Lovelock, William G. McCallum, Brad G. Osgood, Andrew Pasquale, Jeff Tecosky-Feldman, Joseph Thrash, Karen R. Rhea, Thomas W. Tucker. December 2009, ©2010 J. Wiley Publisher

Recommended Reading

none

List of discussion/lecture topics

- Limits and continuity,
- derivatives,
- graphing and optimization,
- exponential and logarithmic
- functions,
- antiderivatives,
- integration,
- applications to management, economics, and business.