

IT-307 Applied Calculus for Technology

Syllabus

Description: Applying Mathematical Techniques to technology problems, including analysis, formulation, and problem solutions. Techniques of differentiation, max/min problems, and elementary techniques of integration are reviewed.

Textbook: Calculus for Business, Economics, and the Social and Life Sciences: Hoffman and Bradley; 9th Edition. Publisher's price: \$142.81.

Equipment: Calculator with log, ln x , $1/x$, e^x , square root, x^2 , and y^x .

Objective: Develop the ability to apply advanced mathematical techniques to technology and business problems. This includes the development of advanced mathematics, and its use as a tool in the solution of practical problems. This also includes the ability to analyze and formulate a problem into mathematical terms so that the tools of calculus can be used in their solution.

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Evaluation: Three exams will be given.

Exam 1	100 points
Exam 2	100 points
Exam 3	80 points
Participation	20 points

Total	300 points

Grades: Letter grades are assigned based on the following points.

A ----	90-100%
B ----	80-90%
C ----	70-80%
D ----	60-70%
F ----	<60%

Policy: Missing exams have an initial penalty of 10%. Exceptions are possible if an appropriate excuse is provided before the due date. Completion of all exams is required before 30 days after the last day of the course. The participation points are awarded based on attendance and in-class participation.

Hints for Success: Do the algebra assignment before the first weekend!!! Do all the assigned problems once, twice and three times between weekends. Meet in groups between weekends and work problems together. You will find the calculus to be a challenge, however, most mistakes are algebra mistakes.

