

Course Title: **Calculus for Business Decisions**
 Course Number: **MATH 106**
 Section Number(s): **11**
 Semester: **Summer Session 1**
 Year: **2012**

Course Description

A course in the calculus of functions of one variable, intended for students in Business. Polynomial, rational, and exponential functions, and the logarithm. Limits, derivatives, techniques and applications of differentiation. Indefinite and definite integrals, applications of the integral. Prerequisite: MATH 105 or permission of the Chair.

Class Meeting Times

Lecture	9:00 AM – 10:55 AM	MTWRF	LEO 252 RLC 102
Computer Lab	11:00 AM – 12:20 PM		

Instructor's Name: **Dr. Tyler Markkanen**
 Office Location: **RLC 200A**
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Required Textbook

Tan, Soo T. *Applied Mathematics for the Managerial, Life, and Social Sciences, 6th Edition.*

ISBN:

Bundle ISBN: 9781133797913 (physical text with EWA access)

OR

Standalone EWA ISBN: 9780538738101 (includes full ebook)

EWA = Enhanced WebAssign Access (i.e., access to online homework and practice)

Subject Material Covered in the Course

We will cover some or all of the sections in each of the following chapters:

- Chapter 1: Fundamentals of Algebra
- Chapter 2: Functions and Their Graphs
- Chapter 3: Exponential and Logarithmic Functions
- Chapter 9: The Derivative
- Chapter 10: Applications of the Derivative
- Chapter 11: Integration

Outcome Expectations

By the conclusion of this course, the student will be able to:

- Understand functions and their graphs.
- Use limits to calculate derivatives.
- Differentiate algebraic and rational functions.
- Use the derivative to solve applications such as related rates, graphing, and maximum and minimum problems.
- Calculate antiderivatives using the power formula.
- Understand the definition of the definite integral.
- Use the fundamental Theorem of Calculus.
- Solve basic area problems using definite integrals.

Howework Assignments, Suggested Exercises & WebAssign

- Logon to our course website on **Moodle** at <https://lms.manhattan.edu>.
- For each section of the textbook, there is a list of *suggested exercises* from the book. These will be posted on Moodle every day. You are responsible for completing those exercises, although they are not to be handed in. ALL WORK and steps should be clearly shown and you must bring your work to class every day.
- There will be daily online graded homework assignments. These will be on **WebAssign**. To access WebAssign, go to www.webassign.net and click on “**I Have a Class Key.**” Enter our Class Key: **manhattan 4808 1736**. This is NOT the same as an Access Code, which you need for PERMANENT access to WebAssign. If your textbook did not come with an Access Code, then ask the bookstore for help. You can also purchase an Access Code by logging into your WebAssign account and clicking “**purchase an access code**” or “**Get access now.**” You need to get your Access Code immediately. Temporary access ends on June 4.

Dates and Times of Exams

- There will be **two in-class exams** and a **cumulative in-class final exam**. The dates of the exams are shown below

<u>IN-CLASS EXAM</u>	<u>DATE</u>	<u>TIME</u>
Exam 1	Friday 5/25	9:00 AM – 9:55 AM
Exam 2	Friday 6/1	9:00 AM – 9:55 AM
Final Exam	Thursday 6/7	9:00 AM – 11:00 PM

Grading Method, Extra Credit Assignments, and Make-Up Policy

- **GRADE:**

	Percentage of Final Grade
Online Homework	20%
Exams (2)	25% (each)
Final Exam	30%

- **EXTRA CREDIT:** There may be occasional extra credit opportunities. Stay tuned for the details of each extra credit assignment as the session progresses.
- **MAKE-UPS:** Make-up exams are generally not allowed unless you tell me **in advance** that you will be absent on an exam day.

Attendance Policy

You are expected to attend each class. Please come to class prepared and ready to learn. Ask questions and make helpful comments. Be ready to participate in class discussions and activities. If you miss class, you are responsible to get the notes, assignment information, and handouts from a classmate. **You must notify me IN ADVANCE if you will be absent on an exam day.**

Expected Academic/Professional Conduct

- All written work must conform to standard English usage. Failure to meet such standards will affect your grade.
- When placed on your assignments, your name verifies that the work is your own.
- All Manhattan College students are expected to maintain the highest standards of academic and personal integrity. Any violations of academic integrity like exam cheating, facilitation of dishonesty, plagiarism, i.e. copying from any source (e.g., classmates, published sources, and the Internet) for an assignment without proper quotation and citation, will be dealt with in accordance with the student handbook of Manhattan College and will result in disciplinary penalties.