

THE DEPARTMENT OF MATHEMATICAL SCIENCES

MATH 135-102: Mathematics for Business Spring 2020 Course Syllabus

NJIT Academic Integrity Code: All Students should be aware that the Department of Mathematical Sciences takes the University Code on Academic Integrity at NJIT very seriously and enforces it strictly. This means that there must not be any forms of plagiarism, i.e., copying of homework, class projects, or lab assignments, or any form of cheating in quizzes and exams. Under the University Code on Academic Integrity, students are obligated to report any such activities to the Instructor.

COURSE INFORMATION

Course Description: Intended for students with major offered by SOM. An introduction to mathematics of business, principles of differential and integral calculus, and optimization.

Number of Credits: 3

Prerequisites: MATH 107 with a grade of C or better or MATH 110 with a grade of C or better or NJIT placement.

Course-Section and Instructors

	Course-Section	Instructor
ı	Math 135-102	Professor P. Ward

Office Hours for All Math Instructors: Spring 2020 Office Hours and Emails

Required Textbook:

Title	Introductory Mathematical Analysis for Business, Economics, and the Life and Social Sciences
Author	E. F. Haeussler, Jr., R. S. Paul, R. J. Wood
Edition	13th
Publisher	Pearson
ISBN #	978-0321643728
Notes	w/ MyMathLab

University-wide Withdrawal Date: The last day to withdraw with a W is Monday, April 6, 2020. It will be strictly enforced.

Course Objectives: An introduction to mathematics of business, principles of differential and integral calculus, and optimization.

Course Assessment: The assessment of objectives is achieved through homework, quizzes, and common examinations with common grading.

POLICIES

DMS Course Policies: All DMS students must familiarize themselves with, and adhere to, the Department of Mathematical Sciences Course Policies, in addition to official university-wide policies. DMS takes these policies very seriously and enforces them strictly.

Grading Policy: The final grade in this course will be determined as follows:

Homework	15%
Quizzes	15%
Midterm Exam I	20%
Midterm Exam II	20%
Final Exam	30%

Your final letter grade will be based on the following tentative curve.

A	90 - 100	С	65 - 74
B+	85 - 89	D	55 - 64
В	80 - 84	F	0 - 54
C+	75 - 79		

Attendance Policy: Attendance at all classes will be recorded and is mandatory. Please make sure you read and fully understand the Math Department's Attendance Policy. This policy will be strictly enforced. Students are expected to attend class. Each class is a learning experience that cannot be replicated through simply "getting the notes."

Homework Policy: Homework is an expectation of the course.

Calculus is learned by solving problems. Homework assignments are completed online. The online assignments can be completed at WWW.MYMATHLAB.COM. In order to access the online assignments you need to have a student access code. Access codes are included with new book that is bundled with MyMathLab; codes can be purchased separately from the textbook at the campus bookstore or online at the course website. If you buy a new book from another source make sure it is bundled with MyMathLab.

How to get started with MyMathLab

- http://m.njit.edu/Undergraduate/UG-Files/MML Getting Started.pdf
- http://m.njit.edu/Undergraduate/UG-Files/Technology_Tips.pdf

Exams: There will be two midterm exams held in class during the semester and one comprehensive final exam. Exams are held on the following days:

Midterm Exam I	February 20, 2020
Midterm Exam II	April 2, 2020
Final Exam Period	May 8 - 14, 2020

The final exam will test your knowledge of all the course material taught in the entire course. Make sure you read and fully understand the Math Department's Examination Policy. This policy will be strictly enforced.

Makeup Exam Policy: There will be NO MAKE-UP QUIZZES OR EXAMS during the semester. In the event an exam is not taken under rare circumstances where the student has a legitimate reason for missing the exam, the student should contact the Dean of Students office and present written verifiable proof of the reason for missing the exam, e.g., a doctor's note, police report, court notice, etc. clearly stating the date AND time of the mitigating problem. The student must also notify the Math Department Office/Instructor that the exam will be missed.

Cellular Phones: All cellular phones and other electronic devices must be switched off during all class times.

ADDITIONAL RESOURCES

Math Tutoring Center: Located in the Central King Building, Lower Level, Rm. G11 (See: Spring 2020 Hours)

Further Assistance: For further questions, students should contact their instructor. All instructors have regular office hours during the week. These office hours are listed on the Math Department's webpage for **Instructor** Office Hours and Emails.

All students must familiarize themselves with and adhere to the Department of Mathematical Sciences Course Policies, in addition to official university-wide policies. The Department of Mathematical Sciences takes these policies very seriously and enforces them strictly.

Accommodation of Disabilities: Disability Support Services (DSS) offers long term and temporary accommodations for undergraduate, graduate and visiting students at NJIT.

If you are in need of accommodations due to a disability please contact Chantonette Lyles, Associate Director of Disability Support Services at 973-596-5417 or via email at lyles@njit.edu. The office is located in Kupfrian Hall, Room 201. A Letter of Accommodation Eligibility from the Disability Support Services office authorizing your accommodations will be required.

For further information regarding self identification, the submission of medical documentation and additional support services provided please visit the Disability Support Services (DSS) website at:

https://www.njit.edu/studentsuccess/accessibility/

Important Dates (See: Spring 2020 Academic Calendar, Registrar)

Date	Day	Event
January 21, 2020	Т	First Day of Classes
January 31, 2020	F	Last Day to Add/Drop Classes
March 15 - 22, 2020	Su-Su	Spring Recess: No Classes/ University Open
April 6, 2020	M	Last Day to Withdraw
April 10, 2020	F	Good Friday - University Closed
May 5, 2020	Т	Friday Classes Meet - Last Day of Classes
May 6 & 7, 2020	W & R	Reading Days
May 8 - 14, 2020	F - R	Final Exam Period

Lecture	Sections	Торіс	
1	0.5	Factoring	
	0.6	Fractions	
	0.8	Quadratic Equations	
	7.1	Linear Inequalities	
	7.2	Linear Programming	
2	2.1	Functions	
	2.2	Special Functions	
3 4.1 Expor		Exponential Functions	
	4.2	Logarithmic Functions	
	5.1	Compound Interest	
4	10.1	Limits	
	10.2	Limits (Continued)	
5		MIDTERM EXAM 1	
6	10.3	Continuity	
	11.1	The Derivative	
7	11.2	Rules for Differentiation	
	11.3	The Derivative as a Rate of Change	
8	11.4	The Product Rule and the Quotient Rule	
	11.5	The Chain Rule	
9	13.1	Relative Extrema	
	13.2	Absolute Extrema on a Closed Interval	
10		MIDTERM EXAM 2	
11	13.3	Concavity	
	13.6	Applied Maxima & Minima	
12	14.2	The Indefinite Integral	
	14.3	Integration with Initial Conditions	
13	14.7	The Fundamental Theorem of Integral Calculus	
	15.4	Average Value of a Function	
14		FINAL EXAM REVIEW	

Updated by Professor P. Ward - 1/20/2020 Department of Mathematical Sciences Course Syllabus, Spring 2020