

MAC 2233 (BUSINESS CALCULUS)

Broward College, Central Campus

HOW TO CONTACT ME:

Instructor: Mr. Boles, Bldg. 7 Room 252
Office Number: 954-201-4868
Office Hours: Monday & Wednesday 9:20 pm – 10:00 pm
Email: dboles@bconline.broward.edu

COURSE INFORMATION & IMPORTANT PHONE NUMBERS

Reference Number: 666828

Credit Hours: 3 semester Hours

Textbook: *Calculus for Business, Econ., Life Sci & Social Sci, 13th Ed, Barnett et al (Pearson)*

Meetings: M & W 8:00 pm – 9:15 pm

Building/Room: 1008/306

Math Department Number: 954-201-6692

PREREQUISITES :

With minimum grade required the following courses: MAC1105 (C) OR MAC1114 (C) OR MAC1140 (C) OR MAC2312 (C) OR MAP2302 (C) OR MAS2103 (C)

COURSE DESCRIPTION:

This is a general education course which includes college-level skills of calculus such as: **functions, graphs, limits, differentiation, integration, average and instantaneous rates of change, and other applications.**

SPECIAL NOTE :

Lectures will consist of material from the textbook and class notes. You are encouraged to **read** each section, **read** definitions and properties and **do** some examples before each lecture. This will help you ask relevant questions; help you solidify your understanding of the material and help you achieve better test results.

You learn best by doing

ATTENDANCE EXPECTATIONS

¹ **Attendance: College attendance and effective study habits** are important factors of academic achievement. Since the primary purpose of taking any college course is to further one's education, I expect **100%** attendance rate from all students. Students who are absent excessively from class will fall behind academically and/or end up with an undesirable grade. Personal emails will be sent to students with poor attendance. Student who are absent from class are responsibility to get material and lecture notes that was missed.

WITHDRAWAL POLICY & PROCEDURE

Students are responsible for completing the process of withdrawing or dropping from a course. The last day to withdraw and receive a grade **"W" is on Wednesday, March 17th, 2021**

Students who have not attended any lectures prior to **Wednesday, January 20th** (missed the first 4 classes) will receive a **"WN"** for **non-attendance**. If it is the student's **third attempt**, he/she will receive an **"F"** for this course.

Students who stop attending class after **Wednesday, January 20th** and fail to withdraw on or before the withdrawal date, **March 17th** will receive an **"F"** in this course.

Note: Students are responsible for withdrawing from class. Please seek advice from me before withdrawing from class.

ACADEMIC DISHONESTY:

This includes, but is not limited to the following:

- cheating on an exam,
- receiving help from others in work to be submitted, if contrary to the stated rules of the course, or
- stealing exams of course materials

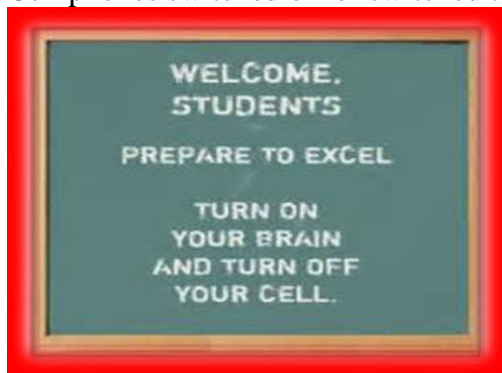
If students are suspected of classroom cheating, or otherwise misrepresenting their work:

1. May receive an F on the assignment.
2. May get an F for the course.
3. Maybe given another chance to complete the assignment.

¹ Faculty will be reporting student non-attendance throughout the semester. If you stop attending class before the withdrawal date, you will be administratively withdrawn. If it is your third attempt, you will receive an F. If you stop attending class after the withdrawal date, you will receive an F, which will be computed as an F in your GPA.

CLASSROOM EXPECTATIONS :

1. Cell phones switched off or switched to silent mode during the class time



2. Set-up **MyMathLab** within the first week of school

3. **Excellent attendance**

4. **Get a study buddy** (a student that gives you notes if you are absent)

5. Be punctual

6. Have an upbeat **attitude**

7. **Complete homework assignments before due dates**

8. **Ask questions for clarity**

9. **Be Respectful to your colleagues**

ASSESSMENTS AND GRADING PROCEDURES

- Test (2) 40% (Tentative Dates are on the outline)
- Homework 10% (Assignments in **MyMathLab** will be discussed on the first day of class)
- Quizzes (4) 20%
- Final Examination 30

Practice worksheets will be disseminated in the classroom. Worksheets will not always be posted in D2L or emailed. If you are absent on a day that a worksheet is distribute to the class, have your study buddy get a copy for you.

The **tests** will include multiple choice questions, true/false questions, and/or short answer questions (**You Must Show Your Work**).

Tests will be based on **homework assignments, worksheets, lectures, and test reviews that will be posted in D2L.**

Quizzes will include short answer questions. **You Must Show Your Work** to receive credit.

GRADE SCALE :

100 – 90%	“A”
89 – 80%	“B”
79 – 70%	“C”
69 – 60%	“D”
< 60%	“F”

MAKEUP POLICY

There will be 2 tests. You are required to take the tests on the schedule test date. There are NO RE-TAKES. Please be advised that make-up tests are given ONLY in cases of EXTREME AND VERIFIABLE EMERGENCIES such as a serious medical condition requiring hospitalization, death within immediate family day of, and so forth (please see me for more information.) I MUST be notified IN ADVANCE via email or text message. For the above-mentioned reasons, only one (1) make-up may be arranged per term. NO make-up tests (nor extra test time) will be given for reasons such as arriving late to class, the flu, transportation problems, or a schedule conflict. When a test is missed under such circumstances, a zero (0) shall be recorded.

Students may take a test before a schedule test date if they are unable to attend class on that day. You must inform me so that arrangements can be made to accommodate you. When a student takes a test early, the test will be administered in the testing center. The testing center is in the library, building 17 room 220. The phone number is **954-201-6134**.

EXTRA CREDIT ASSIGNMENTS : Please do not ask about “extra credit” assignments.

HOMEWORK ASSIGNMENT & Policy: [MyMathLab](#)

All homework assignments will be assigned in **MyMathLab**. You must complete homework assignments **on or before** the due dates. You will have at least five **(7)** days to complete each homework assignment. It is **imperative** that you stay abreast with the **homework assignments and due dates**. Assignments will be **posted weekly**. **Complete each assignment with the highest level of integrity. You will have 3 attempts at each question to get it correct. If you answered a question incorrectly on the last attempt, you may select do a similar example. This will allow you a second attempt, but a different question will be given. Sorry, but I do not allow infinite attempts to answer homework questions.**

Homework extensions will not be given for the following reasons: **1)** failure to purchase **MyMathLab** after the temporary access code has expired, **2)** computer problems, **3)** electrical issues, or **4)** personal issues.

HOMEWORK POLICY

All homework assignments will be assigned in **MyMathLab**. Students are expected to register an account in **MyMathLab** within the first week of school. Temporary access for two weeks is granted to students who are unable to purchase **MyMathLab** within the first week of class. Any student with temporary access should purchase **MyMathLab** before the temporary access expires. Complete **all** homework assignments before due dates. You will have at least 7 days to complete each homework assignment. An electronic textbook is provided in **MyMathLab**.

Homework extensions will be at the **professor's discretion**.

MyMathLab Instructions for the student

Your Course ID is: boles42602

To register, go to: <http://www.pearsonmylabandmastering.com>

TEXTBOOK PURCHASE OPTIONS

There are different options to consider when you purchase the materials for this course.

- 1) Buy a new book along with the **MyMathLab** Access Code in the bookstore.
- 2) Buy the **MyMathLab** Access code and use the electronic version of the text (about \$99).

I recommend option 2. If you are waiting for financial aid, you can get temporary access for 14 days. Click the option at the bottom of the financial option page. Access must be paid before trial ends and all work will be lost and will not count

CALCULATORS

You may use a graphing calculator (not a TI-89) on tests. Cell phone calculators will NOT be permitted on assessments. If any student is found using a cellular phone calculator during an assessment will receive an "F".

CELL PHONE & ELECTRONIC DEVICES POLICY

Cell phones switched **off** or **switched to silent mode** during the lecture. **Text messaging or any social networking will not be tolerated during the lecture.** Any form of cell phone communication needs to be conducted outside the classroom. Any student not adhering to this policy should voluntarily dismiss themselves from class or will be asked to put their phone away until class is dismissed. Students with any electronic device (list of some **DVD players, laptops, mobile phones, iPods, iPads, cameras, tablets**) will be asked to put it away until the end of class.

CLASSROOM ETIQUETTE

You must refrain from talking and walking in and out of class during the lecture. What I must teach is vital to each student's academic success. I will not tolerate behavior that disrespects other classmates or me or disrupts the learning environment. I expect all students to conduct themselves appropriately, professionally, and have the utmost respect for their colleagues.

All personal conversations must be handled outside the classroom. You are here to learn Business Calculus. You are not here to communicate with classmates, therefore; you should view every class session as a learning opportunity.

If you have any concerns or suggestions, please see me during my office hours or after the lecture.

REQUIRED SUPPLIES

1. The Textbook (Electronic Version)
2. **MyMathLab: must be purchased or temporarily purchased within first week**
3. Scantrons
4. A Calculator

IMPORTANT DATES :

Registration Dates Session I	Jan 06, 2021 – May 4, 2021
Registration begins- high school dual enrollment	October 28, 2020
Registration -new, re-entry, trans and non degree	October 28, 2020
Registration: state employee fee waiver	January 05, 2021
Class begin date	January 06, 2021

Last day to add classes	January 12, 2021
Last day for 100% refund for dropped class	January 13, 2021
Martin Luther King Day No classes	January 18, 2021
No Day Classes, classes that meet after 5 pm	February 19, 2021
Spring Break	March 01- March 7, 2021
Last day to change to audit	March 17, 2021
Last day for student withdrawal on the web	March 17, 2021
Last day to withdraw with "w"	March 17, 2021
Last Day of classes and exams	May 04, 2021
Grades due 3:00 pm	May 05, 2021
Graduation commencement ceremony	May 06, 2021

Please be aware that the contents of this syllabus may change at the professor's discretion. Any changes will be discussed with the class before changes become effective.

End of Term Grade Reporting

Students who have never attended class prior to **Wednesday, January 20th** will be administratively withdrawn. After the **withdrawal date Wednesday, March 17th, 2021** you cannot receive a "W". At the end of the term, I will only assign the following grades: an A, a B, a C, a D, or an F.

REQUIRED SUPPLIES

1. The Textbook
2. **MyMathLab: must be purchased or temporarily purchased within first week**
3. Scantrons
4. A Calculator



Suggested Homework Will Not Be Graded

	Chapter 1	Functions and Graphs
1.1	Functions	69, 71, 73, 75, 77, 85, 87, 89
1.3	Linear and Quadratic Functions	1-21 odd, 33-39 odd, 69, 71, 75
A.7	Quadratic Equations	49,50 (supply & demand)
1.5	Exponential Functions	1, 5, 9, 13, 15, 17, 29, 31, 33, 35, 39, 41, 51, 53, 55, 57, 68
1.6	Logarithmic Functions	3, 5, 7, 11, 17, 19, 23, 25, 27, 29, 31, 33, 35, 47, 49, 51, 53, 59, 61, 63, 66, 69, 71, 75, 83, 85, 87 Quiz #1 1.1, 1.3, 1.5, & 1.6 Jan. 13
	Chapter 2	Limits and the Derivative
2.1	Introduction to Limits	9,11,13,15,19,21,23,25, 27, 29, 31, 33, 35, 37, 43, 45, 47, 49, 51, 53, 55, 59, 61, 63, 65, 73, 75, 77, 81, 83
2.2	Infinite Limits and Limits at Infinity	9,11,13,15,17,19,21,23,25,27,31,33,35,37,39,41,43,45,47,49,51,53,55,57,59,61,63, 65, 67, 69, 71, 81, 83, 85, 88
2.3	Continuity	15,17,19,21,27,29,31,33,37,39,41,45,49,51,53,55,61,63,69,73
2.4	The Derivative	1, 9, 11, 12, 19, 21, 23, 25, 27, 29, 35, 41, 45, 49-57, 69, 71, 81

		Quiz #2: 2.1, 2.2, 2.3, 2.4
2.5	Basic Differentiation Properties	1-59 odd, 77-85 odd, 89, 91, 95 Study guide for test #1 will be posted in D2L
2.6	Differentials – optional	15,17,19,21,23,27,29,45,47,52
2.7	Marginal Analysis in Business and Economics	1,2,3,7,9,11,13,15,17,19,21,22,23,24,25,26,27,28,31,33,35,37,41,43, 45,47,49,50 Test #1: 1.5, 1.6, 2.1, 2.2, 2.3, 2.4, 2.5, 2.7
	Chapter 3	Additional Derivative Topics
3.1	The Constant e and Continuous Compound Interest	5, 7, 9, 11, 21, 27, 29, 31, 33, 35, 37, 43, 47
3.2	Derivatives of Exponential and Logarithmic Functions	13-45 odd, 71, 73
3.3	Derivatives of Products and Quotients	9-17 odd, 18, 19, 20, 21-31 odd, 32, 33, 34, 47-55 odd, 56, 57-63 odd, 66, 67, 71, 77, 87, 81, 83, 93, 95, 97
3.4	The Chain Rule	1-25 odd, 26, 27-65 odd, 79, 81, 91, 93, 97
3.7	Elasticity of Demand	33,35,47,49,51,59,61,63,65 Quiz #3: 3.1, 3.2, 3.3, 3.4, 3.7
	Chapter 4	Graphing and Optimization
4.1	First Derivative and Graphs	9-16, 19, 21, 23, 25, 27, 29, 33, 39, 43, 45, 49, 51, 61, 63, 67, 69-74, 77, 81, 89, 91, 93,95
4.2	Second Derivative and Graphs	9, 11, 13-16, 19, 21, 23, 25, 29, 33, 35, 37, 39, 41, 45, 51, 53, 57, 61, 65, 85, 89, 91
4.4	Curve Sketching Techniques	7, 9, 11, 15, 17, 19, 21, 23, 73, 79

		Study guide will be posted in D2L for Test #2
4.5	Absolute Maxima and Minima	9,11,13,17,19,25,31,33,35,37,43,47,59,61,67
4.6	Optimization	11, 19, 21(a,b), 25, 27, 29, 31, 33 Test #2: Ch 3 & Ch 4, after 4.6
	Chapter 5	Integration
5.1	Antiderivatives and Indefinite Integrals	1-23 odd, 39-57 odd, 58, 59-69 odd, 83, 84
5.2	Integration by Substitution	3-33 odd, 41-49 odd, 59-71 odd, 77-81 odd
5.4	The Definite Integral	31-53 odd
5.5	The Fundamental Theorem of Calculus	9-41 odd, 45, 49A, 53A, 57, 59, 61, 69
		Quiz #4: 5.1, 5.2, 5.4, 5.5
	Chapter 6	Additional Integration Topics
6.1	Area Between Curves	9, 10, 11, 12, 15, 17, 33, 37, 41, 43, 45, 47, 49, 51, 53
6.2	Applications in Business and Economics	69, 73, 77, 79
		Final Exam

