Broward College
MAC 2233 – Calculus for Business, Social and Life Sciences

Instructor:	Carlos Sotuyo	Term/Session:	Fall 2018, session 4
Instructor's BC E-mail:	csotuyo@broward.edu	Reference No.:	608279
Office Hours:	Monday, Wednesdays	Class Days:	Monday, Wednesdays
Office:	11:00am -11:30am	Class Time:	8:00 am -10:50 am
Math Department Phone Number:	(954) 201-8920 (954) 201-8975 (FAX)	Classroom:	Weston Campus, Bldng 110, Room 2200
Emergency Phone Number:	(954) 201-4357 (Safety) (954) 201-4900 (Hotline)	Withdrawal Date: Credit to Audit Date:	Please check the Academic Calendar at http://www.broward.edu/calendar/Pages/term-dates.aspx

COURSE DESCRIPTION:

This is a general education course which includes the college-level skills of calculus such as: functions, graphs, limits, differentiation, integration, average and instantaneous rates of change and other applications. Recommendation of the Mathematics Department or at least a grade of C in the prerequisite course is required.

GENERAL OUTCOMES:

Units	General Outcomes
Unit 1. Functions, Graphs, Limits	• Demonstrate knowledge of the concepts of functions, graphing and limits
Unit 2. Derivatives	• Demonstrate knowledge of the meaning of derivatives, their applications, and rules of differentiation
Unit 3. Integration	• Demonstrate knowledge of integrals and their applications
Unit 4. Exponential and Logarithmic Functions	• Demonstrate knowledge of exponential and logarithmic functions, their derivatives, integrals and applications

PREREQUISITE:

Grade of "C" or better in MAC1105 (College Algebra) or recommendation of the Mathematics Department.

TEXTBOOK:

Textbook: Calculus for Business, Economics, Life Sciences, and Social Sciences. Barnett, Zeigler, & Byleen. 13th Edition. Pearson.

Learning System: An online educational program titled MyMathLab-MML (MML + E-Book): Required

HOMEWORK:

Required homework assignments are posted on MyMathLab and will be counted towards your grade in this class.

ASSISTANCE:

Academic Success Center (ASC):

The ASC centers at Broward College are here to ensure your success in this class. You will benefit from an array of academic support services provided in a comfortable, collaborative atmosphere specifically designed to advance your academic achievement: http://www.broward.edu/studentresources/lrc/Pages/default.aspx

Here are just some of the services provided at the ASC:

- Academic Support Labs (Science Center, Math Lab, Writing Center)

- Collaborative Project Space
- Open Computer Centers (Printing)
- Study Groups
- Textbook Reserves
- Tutoring by Certified Tutors (All subject areas)

Seahawk Support Program:
The Seahawk Support Program is a coordination between students, faculty, the Office of Student Success, and the ASC designed to support students in order to increase their chances of success. If you are contacted by a representative of the Office of Student Success or the ASC, please take full advantage of this excellent opportunity to improve your success in this course.

CELL PHONE POLICY:
Put your cell phone away on "silent-mode". Cell phones, smart phones, IPod, and other similar devices are not allowed to be used as calculator during class time and Tests.

METHOD OF INSTRUCTION AND EVALUATION:
In this class, you will engage in structured in-class and out-of-class activities. You will achieve the course objectives through interactive lecture, in class practice problems, class participation, homework assignments, and assessments. Out of four exams, students are allowed to drop the lowest score. Three exams for computation of final grade as follows:

Assessment	Grade Points	Percent of Final Grade
3 Tests	600	60%
MyMathLab Homework	200	20%
Final Exam	200	20%
Total	1000	100%

GRADING POLICY:

Your grade will be determined by taking the average of your test scores, homework and Final Exam:

Grade	Grading Scale
A	90 – 100%
B	80 – 89.9%
C	70 – 79.9%
D	60 – 69.9%
F	0 – 59.9% or if a student commits an act of cheating/plagiarism
W	Withdraw if a student officially withdraws by the Withdraw date
I	Incomplete if a student is in good standing (passing) and has documented, extenuating circumstances
XC	Audit given with approval by Instructor (not for College Prep classes) if it is NOT a "third" attempt

WITHDRAWALS:
Per college policy, W's cannot be given after the official college-wide withdrawal deadline. It is the student's responsibility to withdraw from the course by the deadline (see current Academic Calendar at http://www.broward.edu/calendar/Pages/term-dates.aspx). If you simple stop attending class without formally withdrawing from the course, you will receive a grade of "F". A withdrawal is considered an attempt.

DISABILITY SERVICES:

Students with disabilities must register with the Disability Services and inform the instructor. The Office of Disability Services will notify the instructor so that reasonable accommodations can be made.

ATTENDANCE POLICY:
You are required to attend all classes. There will be no penalty for a student who is absent from academic activities because of religious holiday observances in his/her own faith, the student's serious illness, death in immediate family, or attendance to statutory governmental responsibilities. **The students must notify the instructor of these absences, providing necessary documentation.** It is the student's responsibility to make up the work missed.
Important notice about Title IV attendance procedure: Starting Fall 2007, Faculty must report student non-attendance. If you **do NOT attend first week** of class and do NOT withdraw by end of drop/add period, then Instructor will assign grade of **WN** within next two weeks and you will not receive money back for the class. If you stop attending class prior the withdrawal date, you will be administratively withdrawn from class and receive a **W** or, if it is the third attempt, an **F**. If you stop attending class after the withdrawal date, you will receive an **F** that will then be computed as an **F** in their GPA. In either case, no refund will be given.

STATEMENT OF ACADEMIC DISHONESTY:
Broward College expects its students to be honest in all of their coursework and activities. Breaches of academic honesty include, but are not limited to, cheating, plagiarism, misrepresentation, bribery, and the unauthorized possession of examinations, papers, or other class materials that have not been formally released by instructors. A student's academic work must be the result of his or her own thought, research, or self-expression. The term "cheating" includes but is not limited to, copying homework assignments from another student; working together with another individual on a take-home test or homework when specifically prohibited from doing so by the instructor, looking at test, notes or another person's paper during an examination when not permitted to do so. (See current BC catalog statement at www.broward.edu/catalog/).

Course Schedule/Suggested Homework:

Day	Date	Sections and Topics
Day 1	10/17/18	Course introduction: Algebra, review 1.1 Functions 1.2 Elementary Functions: Graphs and Transformations 1.4 Polynomial and Rational Functions 1.5 Exponential Functions 1.6 Logarithmic Functions Exercises
Day 2	10/22/18	Review Chapter 1
Day 3	10/24/18	Review. Test # 1
Day 4	10/29/18	2.1 Introduction to Limits 2.2 Infinite Limits and Limits at Infinity 2.3 Continuity Exercises
Day 5	10/31/18	2.4 The Derivative 2.5 Basic Differentiation Properties 2.7 Marginal Analysis in Business and Economics Exercises
Day 6	11/05/18	Review

Day 7	11/07/18	Review. Test # 2
Day 8	11/12/18	Veterans Days
Day 9	11/14/18	3.1 The Constant e and Continuous Compound Interest 3.2 Derivatives of Exponential and Logarithmic Functions 3.3 Derivatives of Products and Quotients 3.4 The Chain Rule Exercises
Day 10	11/19/18	Review Chapter 3
Day 11	11/21/18	Review. Test # 3
Day 12	11/26/18	4.1 First Derivative and Graphs 4.2 Second Derivative and Graphs 4.5 Absolute Maxima and Minima 4.6 Optimization Exercises
Day 13	11/28/18	5.1 Antiderivatives and Indefinite Integrals 5.2 Integration by Substitution 5.4 The Definite Integral 5.5 The Fundamental Theorem of Calculus Exercises
Day 14	12/03/18	Review
Day 15	12/05/18	Review, Test #4
Day 16	12/10/18	Final Exam

NOTE: Any changes in the Course Outline and Syllabus will be announced.