

Broward College

MAC 1105 – College Algebra

Instructor:	Carlos Sotuyo	Term/Session:	Spring Term 2021-1/Session 1
Instructor's BC E-mail:	csotuyo@broward.edu	Reference No.:	666798
Office Hours:	1:50 PM – 2:20 PM MW	Class Days:	Mondays-Wednesdays
Location:	Bldg 1008, Room 307	Class Time:	12:30 PM – 1:45 PM
Math Department Phone Number:	(954) 201-6029	Classroom:	1008-003070
Emergency Phone Number:	(954) 201-4357 (Safety) (954) 201-4900 (Hotline)	Withdrawal Date, 100%: Withdrawal Date, with W	Jan 13th March 17th

COURSE DELIVERY METHOD: This class will meet on Central Campus Mondays and Wednesdays.

The class consists of a brief lecture followed by a class activity called practice. PDF files of the practices will be posted on the class webpage @ imathesis.com

Academic Calendar at https://www.broward.edu/registrar/_docs/printable-calendars/2020-21-academic-calendar.pdf

Class web page: <http://www.imathesis.com/mac1105m.html>

COURSE DESCRIPTION:

This course contains topics such as solving and graphing linear, absolute value and quadratic inequalities; properties of exponents and logarithms; solving radical, absolute value, exponential and logarithmic equations; properties and graphs of quadratic, absolute value, square root, cubic and cube root functions; and systems of linear equations and inequalities. Applications appear throughout the course.

Units	General Outcome
	The student shall be able to:
Unit 1. Equations and Inequalities	<ul style="list-style-type: none"> Solve radical equations, quadratic inequalities, and absolute value inequalities
Unit 2. Relations, Functions, and Graphs	<ul style="list-style-type: none"> Work with relations, functions, and their graphs
Unit 3. Exponential and logarithmic Properties, Functions, and Equations	<ul style="list-style-type: none"> Solve and graph logarithmic equations/functions and exponential equations/functions
Unit 4. Systems of Linear Equations and Inequalities	<ul style="list-style-type: none"> Solve systems of linear equations and inequalities

PREREQUISITE: PERT Math score of 123 or higher. Students with credit for MAT1033 (C or higher) are also eligible to take the course.

COURSE MATERIAL: Learning System: An online educational program titled MyMathLab-MML (MML + e-Book) is required. The e-Book included in the MML access code is *Algebra and Trigonometry*, 6th Edition, Blitzer.

SUPPLIES:

- Scientific calculator that needs to have exponential and logarithmic keys. No Graphing Calculators or programming ability is permitted. Calculators are not to be shared
- Graph Paper
- Scantrons and #2 Pencils (Final exam).

HOMEWORK:

Required homework assignments are posted on MyMathLab and will be counted towards your grade in this class. The homework grade is determined by the percentage of completed assignments. An assignment is considered completed once the student reaches 80% or above on it. The Pearson overall average is Not the HW grade. Homework assignments are due always the night before a test at 11:59pm. After the due date, the student cannot change the grade but can still review it.

Register at www.pearson.com/mylab instructor’s **course ID:** sotuyo00492 Registration deadline: Jan 21st

ASSISTANCE:

Academic Success Center (ASC): Remote learning assistance via ASC <https://bc.mywconline.net/index.php>

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: <https://students.broward.edu/resources/asc/index.html>

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. All exams are mandatory. Missing an exam for any reason will result in a zero score for that exam. If you miss an exam due to an emergency that would qualify as an excused absence, you must inform your instructor within 24 hours of the scheduled exam. In the case of an excused absence for an exam, the make-up exam will be administered during the final week of the course. You may not be excused from the final. Excused absences for exams: the student’s serious illness documented by a medical Doctor, death in immediate family, religious holiday observance of one's own faith or attendance to statutory governmental responsibilities.

Assessment	Grade Points	Percent of Final Grade
4 Tests	600	60%
MML 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%
C	70 – 79%
D	60 – 69%
F	< 60% or if a student commits an act of cheating
W	Official Withdrawal by student by the withdrawal date
WN	Administrative Withdrawal for Non-Attendance

COURSE WITHDRAWAL:

During the second week of class, professors are required to report students who have never attended, and these students will be administratively withdrawn. Following this attendance verification, it is the student’s sole responsibility to withdraw from the course and to verify that the withdrawal is properly recorded through the Registrar’s Office prior to the withdrawal deadline. The professor cannot process withdrawals from any reason other than the above-stated student non-attendance. A withdrawal is considered an attempt. Last day to withdraw from class:

ACADEMIC ACCOMMODATIONS FOR STUDENTS WITH DISABILITIES:

If you are requesting academic accommodations, you must first register with Accessibility Resources (contact information is provided below). Accessibility Resources will evaluate your request and determine eligibility. If approved, you will be provided with an Accommodation Plan that you must deliver to me either electronically or in person. Once received, we will discuss which accommodations you are requesting for this class, and in accordance with Broward College policy 6Hx2-5.09 you will be provided with the appropriate accommodations. Students who wait until after completing the course, or an activity, to request accommodations should not expect any grade to be changed, or to be able to retake the course or activity. South Campus; Miramar Centers; Pines Center; Weston Center: 954-201-8913

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 missed work.

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 <https://students.broward.edu/resources/college-catalog/docs/2019-2020-bc-college-catalog/academic-affairs.pdf>).

Course Schedule

Days	Date	Sections and Topics
Day 1	01-06	Introduction to the Course & 1.6: Radical and Rational Exponent Equations
Day 2	01-11	1.7: Absolute value equations and inequalities
Day 3	01-13	2.1: Basics of Functions and their graphs
Day 4	01-20	2.2: Piece-wise functions and symmetry
Day 5	01-25	2.3: Linear Functions and Slope
Day 6	01-27	2.5: Transformations of functions
Day 7	02-01	2.5: Transformations of functions (cont)
Day 8	02-03	Test 1: Review
Day 9	02-08	Test 1
Day 10	02-10	2.6: Combinations and Compositions of functions
Day 11	02-15	2.7: Inverse functions
Day 12	02-17	2.8: Distance, midpoint formulas and circles
Day 13	02-22	3.1: Quadratic functions
Day 14	02-24	3.6: Polynomial inequalities
Day 15	03-08	Test 2: Review
Day 16	03-10	Test 2
Day 17	03-15	4.1: Exponential functions
Day 18	03-17	4.2: Logarithmic functions
Day 19	03-22	4.3: Properties of logarithms
Day 20	03-24	4.4: Exponential and logarithmic equations
Day 21	03-29	4.5: Exponential growth and decay
Day 22	03-31	Test 3: Review
Day 23	04-05	Test 3
Day 24	04-07	8.1: Systems of equations in 2 variables
Day 25	04-12	8.2: Systems of equations in 3 variables
Day 26	04-14	8.5: Systems of inequalities
Day 27	04-19	Test 4: Review
Day 28	04-21	Test 4
Day 29	04-26	Review for Final Exam
Day 30	04-28	Review for Final Exam
Day 31	05-03	Cumulative Final Exam