MAT 1033 Intermediate Algebra

TERM:	20182	INSTRUCTOR:	Carlos Sotuyo
REFERENCE: SESSION:	593114 IV	OFFICE:	Math Lab, Pines Center
CLASS DAYS:	Monday, Wednesday	OFFICE HOURS: Email:	Monday, Wednesday: 11:00 -11:30am
CLASS TIME:	8.00am-10:45am	Math Department PHONE NUMBER	954-201-8920
CLASSROOM:	Bldg: 100, Room: 002070	EMERGENCY PHONE NUMBER	(954) 201-HELP (4357)

MAT1033 - 593114 / Intermediate Algebra. Start: 03/14, ENDS 5/14/2018, Class Code: DDKPX-LMWTM REQUIRED PURCHASE: ALEKS 360
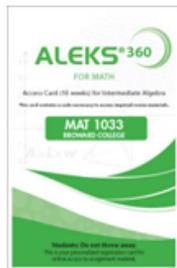
In this course, students will use an online educational program titled ALEKS 360 (Assessment and LEarning in Knowledge Spaces). This program which includes an eBook (electronic version of the textbook) can be used on any computer with Internet access. **An access code for ALEKS 360 is required and may be purchased at a BC bookstore or online at www.aleks.com during the registration process (see the "ALEKS" folder).**

For Session II and IV classes a 9-week access code is required.
For Session III classes a 13-week access code is required.
For Session I classes a 18-week access code is required.
The hard copy version of the **textbook** *Intermediate Algebra* by Miller, O'Neill, Hyde, **is not a required purchase**.

Important: Students need to register in ALEKS and enroll in this class using the Class Code: **DDKPX-LMWTM**

PREREQUISITE:

MAT0022C or MAT0028C or MAT0057 with a minimum grade of C; a qualifying placement score on the PERT, SAT, or ACT; or exemption from developmental education classes as per Florida State Senate Bill 1720.

COURSE DESCRIPTION:

This is a course designed for students with strong arithmetic skills (without requiring a calculator) and an algebra background. This course will extend students' algebra skills to include solving systems of linear equations in two variables, factoring polynomials, performing operations on rational expressions, solving rational equations, solving quadratic equations with complex solutions and recognizing relationships between radical expressions and rational exponents. Problem solving involving real-life scenarios is an integral part of this course. In this course, students will enhance their problem-solving abilities and their ability to communicate concepts of algebra in the language of mathematics, both orally and in writing.

GENERAL OUTCOMES:

Upon completion of this course, students will be able to

- write equations and sketch graphs of linear equations in two variables, given appropriate information, (2) model real-world scenarios using linear equations in two variables, and (3) graph linear equations in two variables.
- solve systems of linear equations graphically and algebraically (using the methods of elimination and substitution), and solve word problems by modeling them with systems of linear equations.
- factor polynomial expressions using a variety of methods.
- simplify rational expressions and solve rational equations.
- simplify, and perform operations on radical expressions, rationalize radical components of rational expressions, solve appropriate radical equations, and convert between radical expressions and expressions with a rational exponent.
- write square roots of negative numbers as imaginary numbers, and perform operations on complex numbers.
- solve quadratic equations by factoring, the square-root method, completing the square, and the quadratic formula, and solve word problems by modeling them with quadratic equations.

WITHDRAWALS:

Per college policy, W's cannot be given after the official college-wide withdrawal date deadline. It is the student's responsibility to withdraw from the course by the deadline. The last day for withdrawal can be found under Academic Calendars at www.broward.edu. If you simply stop attending class without formally withdrawing from the course, you will receive a grade of "F". A withdrawal is considered an attempt.

CLASS POLICY:

Expected classroom conduct: Arrive on time, place your phone on silent-mode, be engaged in the day's lesson and activities without texting or using social media sites, ask lots of questions, answer questions when appropriate, listen without interruption to your professor and fellow classmates while they are talking.

ATTENDANCE:

You are required to attend all classes. If you miss a class, a grade of "0" will be assigned for that day's class work. 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 via e-mail, providing necessary documentation. It is the student's responsibility to make up the work missed.

Starting Fall 2007, Faculty will report student non-attendance. A student who does not attend class within two weeks after the drop/add period or stops attending class before the withdrawal date may be administratively withdrawn and receive a W, or an F if it is the student's third attempt. *If a student stops attending class after the withdrawal date, the student will receive a F that will then be computed as an F in you GPA.* In either case, no refund will be given. *Per college policy, W's cannot be given by the professor after the official college-wide withdrawal deadline. A withdrawal is considered an attempt.*

METHOD OF INSTRUCTION:

During each class period (except test days) the following format will be utilized:

- o Short video presentation of the concept.
- o Additional examples, explanations and clarifications by the instructor.
- o Students will work with peers in completing in-class worksheets covering the concepts taught.
- o Review of in-class worksheet and re-teaching if necessary.

Throughout the process, careful attention will be given to student feedback. You are encouraged to ask questions and collaborate with your peers.

YOUR GRADE WILL BE DETERMINED AS FOLLOWS:

ALEKS (200 points ≈ 23.5%):

In ALEKS students are expected to complete eight (8) Intermediate Objectives. Completion of each Intermediate Objective by its specified due date is worth a total of 200 points (25 points per Intermediate Objective). **Check the calendar in ALEKS for all Intermediate Objective due dates.**

CLASS WORK (100 points ≈ 12%):

You will be required to complete class assignments based on new materials taught in class. There will be about 20 class worksheets that must be submitted on the day they were assigned.

TESTS (400 points ≈ 47%):

There will be four (4) unit tests. Each test is cumulative, worth 100 points, and will be taken in class. Be certain that you are present for all tests. There are NO make-up tests, except for the reasons stated in BC Catalog (*with documentation*)! **Check the calendar in ALEKS for Test dates.**

DEPARTMENTAL FINAL EXAM (150 points ≈ 17.5%):

The Departmental Final Exam is cumulative and will be given on the last day of the term. **Check the calendar in ALEKS for the date of the Departmental Final Exam.**

GRADES:

Your final grade will be determined on the total points accumulated on the four in-class Tests, the ALEKS Intermediate Objectives, the class work, and the cumulative Final Exam. Based on a total of 850 points, a letter grade will be assigned as follows:

A: 765 - 850 (90 - 100%)
B: 680 - 764 (80 - 89%)
C: 595 - 679   (70 - 79%)
D: 510 - 594 (60 - 69%)
F: 0 - 509   (0 - 59%) or if a student commits an act of cheating or stops attending class
W: Withdrawal if a student officially withdraws by deadline
XC: Audit is not available for this course

CALCULATORS /MATERIALS:

You will need a scientific calculator (such as the TI-30Xa). It may be used in class and on most tests. ***Cell phones may not be used as calculators.*** Five (5) Scantron Forms.

BCONLINE:

Checking your BConline course daily is mandatory. At times there may be crucial announcements posted in your BConline course such as possible class cancellations, revision of homework assignments, change in test days, important college notices, etc. Students will be responsible for any information and assignments posted in your BConline course. In addition, please e-mail your instructor using the e-mail tool within your BConline course.

ACADEMIC SUCCESS CENTER (ASC):

The Academic Success Centers (ASC's) 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. Statistics show that students who use the ASC early and often are more successful than those who do not. Here are just some of the services provided at the ASC:

- Academic Support Labs (Science Center, Math Lab, Writing Center)
- Collaborative Project Space
- Graphing Calculators
- Open Computer Centers (Printing)
- Study Groups
- Textbook Reserves
- Tutoring by Certified Tutors (All subject areas)
- And much more!

Please visit one of our locations or online at www.broward.edu/studentresources/lrc

Central Campus	North Campus	South Campus
University College Library Building 17 – 2nd Floor 954-201-6660	Broward College North Regional Library Building 62 954-201-2454	Building 72 954-201-8909

Brainfuse – is an online, web-based, tutoring program that is available 24/7 to all students currently enrolled at Broward College. **Brainfuse** supports student learning in most subject areas including accounting, anatomy and physiology, biology, chemistry, English, nursing, math and more. Students can chat online and work on a whiteboard with a tutor, submit questions, and get extensive feedback on essays and research papers. *Access Brainfuse here in D2L by clicking on the "Resources" in the navigation bar located at the top of the page.*

IMPORTANT:

(The "3-Take" Rule) Be aware that Florida state law limits you to three attempts at any one course and requires out of state tuition for your third take of any course. If this is your third enrollment in this course, then the grade of "W" is not an option and you will have to complete the course

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.

Note: The instructor reserves the right to make adjustments.