RECOMMENDED TEXTBOOK:

College Algebra by Julie Miller

PREREQUISITE:

Grade of “C” or better in MAT 1033

ALEKS 360:

In this course, students will use an online educational program titled ALEKS 360. This program can be used on any computer with Internet access. An access code for ALEKS 360 is required and may be purchased at the bookstore or online.

COURSE DESCRIPTION:

This course containing topics such as solving, graphing and applying linear and quadratic equations and inequalities; exponential and logarithmic properties; linear, quadratic, rational, absolute value, and square root functions; operations, compositions, and inverses of functions; and systems of equations and inequalities, all with applications throughout the course.

WITHDRAWALS:

Per college policy W’s cannot be given after the official withdrawal date. It is your responsibility to withdraw from the course. 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:

You are expected to attend class regularly and to arrive on time. All cell phones must be placed on “silent-mode” during class time. Use restroom facilities, get a drink of water, and sharpen pencils if necessary before class begins. No food or drink allowed in the classroom.
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 an absence via e-mail, providing necessary documentation and it is the student’s responsibility to make up the work missed.

Faculty will report student non-attendance. A student who does not attend class within two weeks after the drop/add period in each session will be withdrawn from classes for nonattendance. If you stop attending class after the withdrawal date, you will receive an “F”. In either case, no refund will be given. Per college policy, W’s cannot be given by the professor after the official withdrawal date.

ALEKS 360 (200 points):

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 160 points (20 points per Intermediate Objective). The first Intermediate Objective must be completed by the sixth calendar day of the semester. Check the calendar in ALEKS for all Intermediate Objective due dates.

CLASS WORK (100 points):

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.

CRITICAL THINKING ASSIGNMENTS (100 points)

You will be given 5 critical thinking assignments that will be completed either in class or at home.

TESTS (400 points):

There will be 4 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)!
FINAL EXAM (200 points):
The final exam is cumulative and will be given on the last day of the term.

GRADES:
Your final grade will be determined on the total points accumulated on the four unit tests, the Intermediate Objectives, the class work, critical thinking assignments, and the cumulative final exam. Based on a total of 1000 points, a letter grade will be assigned as following:
A: 900-1000
B: 800-890
C: 700-790
D: 600-690
F: 0-590 or if a student commits an act of cheating, or stops attending class
W: Withdraw if a student officially withdraws by catalog drop date
XC: Audit is not available for this course

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

CALCULATORS /MATERIALS:
You will need a scientific calculator (such as the TI-30XS or Casio FX-115 ES). It may be used in class and on all tests. Cell phones may not be used as calculators.

BC-ONLINE (D2L):
Checking BC-Online (D2L) daily is mandatory. At times there may be crucial announcements posted in D2L such as possible class cancellations, change in test days, important college notices, etc. Students will be responsible for any information or assignment posted in D2L. In addition, please e-mail me via BC-Online.
ADDITIONAL COMMENTS:

If a student needs a computer to complete the online assignments or wants additional help, there are computers, tutors and other materials available through our Learning Resource Center (LRC) on campus.

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.

OUTCOMES:

The student shall be able to work with algebraic concepts.
The student shall be able to solve radical, rational, and quadratic equations.
The students shall be able to solve radical, quadratic, and absolute value inequalities.
The student shall be able to work with relations, functions, and their graphs.
The student shall be able to solve and graph logarithmic equations/functions and exponential equations/functions.
The student shall be able to solve systems of linear equations and inequalities.
CRITICAL THINKING

This class will use the language of critical thinking to enhance learning and your job marketability.

Broward College’s Definition of Critical Thinking:

To support Broward College’s Quality Enhancement Plan (QEP), critical thinking is defined as a process of evaluating information by questioning and testing assumptions, accepting and rejecting arguments and/or perspectives, and applying reasoning to make informed decisions.

Critical Thinking in Math is the opposite of memorization and mimicry.

The Vocabulary of Critical Thinking:

Implications: All reasoning leads somewhere or has IMPLICATIONS and CONSEQUENCES.
- Trace the implications and consequences that follow from your reasoning.
- Search for negative as well as positive implications.
- Consider all possible consequences.
- Implications are claims or truths that logically follow from other claims or truths.
- Implications follow from thoughts. Consequences follow from actions.
- Implications are inherent in your thoughts, whether you see them or not. The best thinkers think through the logical implications in a situation before acting.

Purpose: All reasoning has a PURPOSE. Your purpose is your goal, your objective, what you are trying to accomplish. We also use the term to include functions, motives, and intentions. You should be clear about your purpose, and your purpose should be justifiable.
- Take time to state your purpose clearly.
- Distinguish your purpose from related purposes.
- Check periodically to be sure you are still on target.
- Choose significant and realistic purposes.

Point Of View: All reasoning is done from some POINT OF VIEW. Point of view is literally “the place” from which you view something. It includes what you are looking at and the way you are seeing it. Make sure you understand the limitations of your point of view and that you fully consider other relevant viewpoints.
- Identify your point of view.
- Seek other points of view and identify their strengths as well as weaknesses.
- Strive to be fair-minded in evaluating all points of view.

Clarity: Understandable, the meaning can be grasped
Accuracy: Free from errors or distortions, true
Breadth: Encompassing multiple viewpoints
Fairness: Justifiable, not self-serving or one-sided
## Critical Thinking Learning Outcomes:

*Students will be able to:*

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<tr>
<th>Student Learning Outcome</th>
<th>Activities/Assignments</th>
<th>Elements of Thought or Standards</th>
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<tbody>
<tr>
<td>1.1. Analyze and interpret relevant information</td>
<td>Internet User Foreign-Born Population Global Warming</td>
<td>Clarity, Implications/Consequences</td>
</tr>
<tr>
<td>1.2. Explain questions, problems, and/or issues</td>
<td>Foreign-Born Population</td>
<td>Clarity, Implications/Consequences</td>
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<td>1.3. Evaluate information to determine credibility of reasoning</td>
<td>Residential Power Costs</td>
<td>Point of View, Implications/Consequences</td>
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<td>1.4. Generate well-reasoned conclusions</td>
<td>Residential Power Costs Temperature Global Warming</td>
<td>Clarity/Accuracy, Implications/Consequences</td>
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### Critical Thinking Resources/References:

- [http://www.emeraldinsight.com/learning/study_skills/skills/critical_thinking.htm](http://www.emeraldinsight.com/learning/study_skills/skills/critical_thinking.htm)
- [http://ww2.nscc.edu/think/ta_traits.htm](http://ww2.nscc.edu/think/ta_traits.htm)

Note: The instructor reserves the right to make adjustments.