

**SYLLABUS
MAT 161A
COLLEGE ALGEBRA LAB**

Faculty Information

Instructor: Jerry L. Ashe, M.S. Mathematics
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Office: Elm 340
Phone: 254-1921 ext. 313
Office Hours: **Mon 7:30-08:00** , **Tue 7:30 -800** **Wed 7:30-08:00**
Mon 9:30-11:00 , **Tue 9:30 -11:00** **Wed 9:30-11:00**

Course Information

Course Title: College Algebra
Course Number: MAT 161A O1
Credit Hours: 1
Contact Hours: 2
Class Location: TBA
Class Meeting Time: Th 09:30- 12:20
URL: <http://www.coursecompass.com/ccindex.html>
Class ID: ashe44723

Course Description: This course is a laboratory for MAT 161. Emphasis is placed on experiences that enhance the materials presented in the class. Upon completion, students should be able to solve problems, apply critical thinking, work in teams, and communicate effectively. This course has been approved to satisfy the Comprehensive Articulation Agreement pre-major and/or elective course requirement.

Prerequisite: Mat 080 or Mat 090 or placement

Corequisite: Mat 161

Textbook: Blitzer, *College Algebra*, Third Edition ISBN 0-13-101365-3

Course Goal: Upon completion, students should be able to solve problems, apply critical thinking, work in teams, and communicate effectively.

Course Specific Competencies: Upon successful completion of the course, the student will be able to:

- Solve applications involving polynomial equations and inequalities.
- Solve applications involving rational equations and inequalities.
- Solve applications involving exponential and logarithmic functions.
- Solve applications involving graphing and data analysis/modeling techniques.
- Work in teams and communicate mathematics effectively.

Reinforcement Experiences for General Education Cross-Curriculum Competencies

The course encapsulates reinforcement experiences for the general education cross-curriculum competencies:

- Communicate effectively in speaking, writing, reading, and listening.
- Locate, evaluate, and use information to analyze problems and make logical decisions.
- Apply math skills and/or natural science knowledge appropriately to organize, analyze and make information useful.
- Develop the ability to succeed as a self-directed learner.

Grading Policy: : Your grade will be based on weekly quizzes and lab assignments. Each week you will have a short quiz at the beginning of the lab. Your quiz average will account for 60% of your final grade, your lab average will account for 40% of your final grade. The quiz will come from the previous weeks lecture and homework. Students will have only time allotted to finish quiz. Makeup quizzes will not be given. You will have a lab assignment every section. All lab assignments and quizzes must be done on or before due date Makeup labs will not be given. . It is the student's responsibility to ensure that your labs and quizzes have been successfully submitted, received, and processed. Current grade information is available within the software used for labs and quizzes. If for any reason it is necessary for you to withdraw from this class, you must complete the appropriate form and submit it to the Records and Registration Office by the deadline. If you quit attending class without completing the appropriate forms your grade will become an "F". The final grade will be an average of all your test grades, A (90-100), B (80-89), C (70-79), D (60-69), F (below 60)

Inclement Weather Schedule:

The College will close when weather conditions are such that driving is hazardous.

The following procedure will be observed for inclement weather conditions:

1. Announcements concerning school operation will be made by 6:30 am on local radio and TV stations for day classes. A voice mail message will be recorded on the switchboard. If it appears that ice or snow may be cleared by mid-morning, the schedule below will be followed and all College personnel and students should report by 10am.
2. Closing or delaying the day programs does not automatically close evening classes. Announcements will be made on radio stations and the College switchboard no later than 3pm concerning the evening classes.
3. When weather conditions dictate early dismissal of the day or evening classes, the announcement will be made by telephone to each building on campus.
4. Commuters should exercise personal judgment concerning highway conditions regardless of College announcements, particularly those commuting from outlying areas.

5. Adjustments in the College calendar for days missed because of inclement weather will be made at the end of the semester.

Normal Class Time	Delayed Opening
8 a.m.	10-10:40 a.m.
8:30 a.m.	10:20-11 a.m.
9 a.m.	10:45-11:25 a.m.
9:30 a.m.	11:05-11:45 a.m.
10 a.m.	11:30am-12:10 p.m.
10:30 a.m.	11:50am-12:30 p.m.
11 a.m.	12:15-12:55 p.m.
11:30 a.m.	12:35-1:15 p.m.
12 p.m.	1-1:40 p.m.
12:30 p.m.	1:20-2 p.m.
1 p.m.	1:45-2:25 p.m.
1:30 p.m.	2:05-2:45 p.m.
2 p.m.	2:30-3:10 p.m.
2:30 p.m.	2:50-3:30 p.m.
3 p.m.	3:15-3:55 p.m.
3:30 p.m.	3:35-4:15 p.m.
4 p.m.	4 p.m.

Attendance Policy: To receive course credit, a student is required contact not to lapse for greater than two weeks, minimum of two logins each week, or not missing more than two assignment due dates consecutively. The student may be dropped from the class with a grade of "U" at the discretion of the instructor. (refer to pg. 74 of your student handbook)

Important Dates:

Summer Session - 2009

Registration: Current and Continuing Students	May 4 - 8
General Registration	May 11 - 15
Last Day to Pay Tuition and Fees	May 15*
* <i>Unpaid registrations will be deleted from the computer registration system at 4:30 p.m.</i>	
Late Registration	May 18 - 22
Last Day to Pay Tuition and Fees for Late Registration	May 22*
* <i>Unpaid registrations will be deleted from the computer registration system at 4:30 p.m.</i>	
New Student Welcome	May 22, 9:00 a.m.
Memorial Day College Holiday	25-May
Classes Begin	26-May
Schedule Adjustments	May 26 - 27

Last Day to Apply for Summer Graduation
Last Day to Drop for a Partial Refund

Independence Day College Holiday
Last Day to Withdraw
10-Week Session: July 10
Last Day of Class/Examinations
*** July 21 will be scheduled as a Friday make-up day for both sessions.*
Summer Graduation
Total Class Days

22-May
8-Week Session: May 29
10-Week Session: June 1
3-Jul
8-Week Session: July 7
8-Week Session: July 21**
10-Week Session: August 4
7-Aug
8-Week Session: 40
10-Week Session: 50

(*Up to 3 days made be made up due to inclement weather closings.)

Activity Day Schedule:

This schedule will be used for most approved and announced student activities.

Normal Class Time	Activity Day Schedule
8:00 am	8:00-8:40 am
8:30 am	8:20-9:00 am
9:00 am	8:45-9:25 am
9:30 am	9:05-9:45 am
10:00 am	9:30-10:10 am
10:30 am	9:50-10:30 am
11:00 am	10:15-10:55 am
11:30 am	10:35-11:00 am*

11:00 am-1:00 pm Free for activities !

12:00 noon	1:00-1:40 pm
12:30 pm	1:20-2:00 pm
1:00 pm	1:45-2:25 pm
1:30 pm	2:05-2:45 pm
2:00 pm	2:30-3:10 pm
2:30 pm	2:50-3:30pm
3:00 pm	3:15-3:55 pm
3:30 pm	3:35-4:15pm
4:00 pm	4:00 pm

* 25 minute period

Academic Dishonest: You may not deceive any official of the college by cheating on any assignment, exam, or paper. This includes plagiarism, which is the intentional theft or unacknowledged use of another's words or ideas. Plagiarism includes (but is not limited to) paraphrasing or summarizing another's words *or works* without proper acknowledgement, using direct quotes of material without proper acknowledgement, or purchasing or using a paper *or presentation* written *or produced* by another. The faculty at A-B Tech *may* also consider presenting as original work a paper written for one class to satisfy a requirement in another class to be academic dishonesty.

Code of Classroom Conduct: Asheville-Buncombe Technical Community College is an institution for adult learning. It is a partnership between instructors with the desire to teach and students with the desire to learn. In order to create an appropriate environment for teaching and learning to flourish, there must be respect for the instructor and fellow students. Listed below are guidelines for classroom behavior which the College has established to ensure that the learning environment is not compromised.

1. Attendance: You are expected to be in class the entire class time. Do not enter late or leave early. Rare exceptions may be excused, particularly under emergency circumstances, but you should be prepared to explain your tardiness to the instructor after class. Likewise, the need to leave early should be explained to the instructor before class.
2. Absences: Inform the instructor in advance, if you know you are going to miss a class. Also, take responsibility for getting missed assignments from other students. Do not expect that you will be allowed to make up work, such as unannounced quizzes or tests, after an absence. Instructors are not responsible for re-teaching the material you missed because of absence.
3. Conversation: Do not carry on side conversations in class.
4. Other Activities: You may not work on other activities while in class. This includes homework for other courses or other personal activities.
5. Internet: In classes where Internet access is provided, you may use the Internet for valid, academic purposes only. You may not use it for open access to other non-academic sites which are unrelated to the course.
6. Sleep: Do not sleep in class.
7. Attitude: You are expected to maintain a civil attitude in class. You may not use inappropriate or offensive commentary or body language to show your attitude regarding the course, the instructor, assignments, or fellow students.
8. Profanity and Offensive Language: You may not use profanity or offensive language in class.
9. Cell phones and beepers: You may not receive or send telephone calls or pages during class. You are responsible for turning off cell phones and beepers upon entering class.
10. Guests: You may not bring unregistered friends or children to class.
11. Food, Drink, Tobacco Products: You may not have food or drink in class. You may not use tobacco products in the buildings of A-B Tech.
12. Personal Business: You may need to transact personal business with the instructor, asking him or her to sign forms. Plan to do this before instruction begins or after class.

Typically, violations of the Code of Classroom Conduct will be dealt with as minor infractions. However, repetition of minor infractions or other more serious violations of the Code of Student

Conduct may lead to removal from the classroom while the matter is resolved and referral to the Vice President for Student Services for disciplinary action.

Other Information: Additional help in math and related courses is available in Developmental Studies, Laurel Building, Room 107. The hours are from 9am-6:30pm M-Th, and 9am-1:00pm on Friday.

Calculator: A graphing calculator is required for this course. The TI-83 or TI-86 will be the calculator used by the instructor. I will not permit the TI-89 or the TI-92 to be used on tests. Your calculators may be cleared before examinations.

Statement of Right to Make Changes: I reserve the right to make changes in the syllabus. Any changes will be announced in class.

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Lab Outline

Lab 1: Real numbers, algebraic expressions, exponents, scientific notation, radical, rational exponents

Lab 2: Polynomials, factoring polynomials, rational expressions

Lab 3: Graphs, graphing utilities, linear equations, formulas and applications

Lab 4: Complex numbers, quadratic equations.

Lab 5: Other types of equations, linear inequalities, quadratic and rational inequalities

Lab 6: Lines, slopes, distance formula, circles

Lab 7: Basics functions, graphs of functions, transformations of functions

Lab 8: Combinations of functions, composite functions, inverse functions

Lab 9: Quadratic functions, polynomial functions and their graphs

Lab 10: Dividing polynomials, remainder and factor theorems

Lab 11: Zeros of polynomial functions, more on zeros of polynomial functions

Lab 12: Rational functions and their graphs, modeling using variation

Lab 13: Exponential functions, logarithmic functions

Lab 14: Properties of logarithmic functions, exponential and logarithmic equations

Lab 15: Modeling with exponential and logarithmic functions

** This outline is tentative and is subject to change

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Your Acknowledgement:

I have been provided access to the course syllabus, understand what is expected of me, and agree with the provision set forth in the syllabus.

Print Name

Student I.D. Number

Signature

Date