BUNKER HILL COMMUNITY COLLEGE

COURSE NAME/NUMBER: College Algebra/MAT195

INSTRUCTOR: Judith A. Tully

OFFICE HOURS: On Mondays and Wednesdays, I will be available from 11:15 a.m. to 12:15 p.m. and after 2:15 for appointments.

OFFICE LOCATION: In the library (E-building, 3rd floor) or in the Center for Self-Directed Learning (CSDL) (E-235)

TELEPHONE: **(**To Be Announced)

E-MAIL: **(**To Be Announced)

COURSE TIMES & LOCATION:
Section 0 - M&W: 8:30a.m. - 9:45 a.m. in D208
Section 0 - M&W: 10:00a.m. - 11:15a.m. in D210
Section 0 - M&W: 1:00p.m. - 2:15p.m. in D208

COURSE DESCRIPTION: College Algebra – A continuation of the study of algebra which covers the following topics: integral and rational exponents, radicals, addition, subtraction, multiplication, and division of rational expressions, solving rational and quadratic equations, complex numbers and their application in the solution of quadratic equations, the translation and solving of word problems and graphs of linear, hyperbolic, exponential, and absolute value relations. It also includes an introduction to logarithms with emphasis on exponential equations. This course meets General Education "Quantitative Thought" Requirement 5. (3 credits)

COURSE PREREQUISITES: Placement or a grade of C or better in Fundamentals of Algebra/MAT095. In addition, this course is not recommended for students who need or are currently enrolled in a reading skills course or an English-as-a-second language course below the advanced level.

COURSE MATERIALS: Required text – Lial, Margaret L., Hornsby, J., and McGinnis, T.; (2002) Intermediate Algebra with Early Functions and Graphing (A Text/Workbook). Seventh Edition. Boston: Addison Wesley.
Calculator – Scientific calculator for Unit 10 or a graphing calculator. e.g. TI-82 or TI-83 or Casio graphing calculator.

SYLLABUS: **UNIT:**

(Chapter 1	Review of the Real Number System)	
Chapter 2	Linear Equations and Applications	1
Chapter 3	Linear Inequalities and Absolute Value	2
Chapter 4	Graphs, Linear Equations, and Functions	3
Chapter 5	Systems of Linear Equations	4
Chapter 6	Exponents and Polynomials	5
Chapter 7	Rational Expressions	6
Chapter 8	Roots and Radicals	7
Chapter 9	Quadratic Equations, Inequalities, and Graphs	8
Chapter 10	Exponential and Logarithmic Functions	9
Chapter 11	Nonlinear Functions, Conic Sections, and Nonlinear Systems	10

COURSE OBJECTIVES: Topic objectives are attached to this course policy. In addition, specific objectives are listed at the beginning of each of the assigned textbook units/chapters and are expanded at the beginning of each subunit.

TEACHING OBJECTIVES: A variety of instructional methods will be utilized in achieving the objectives. For each unit, there will be whole class lectures and discussions as well as individual and small group work. The use of calculators and computers will be incorporated. Videos and manipulative materials as aids to mastering the objectives are available. All quizzes and tests will be administered in the classroom. Tutors as well as video tapes, etc. will be available through the Multi-Assistance Center.

ATTENDANCE: You are expected to attend **ALL** classes. You, also, are expected to arrive **ON TIME**. You are responsible for all subject matter/information presented in class. In case of extended absence such as serious illness, you are expected to call the office of the Dean of Student Affairs so that your instructors will be notified. In such situations, arrangements for make-up work must be discussed individually with the instructor.

ASSISTANCE: You will have the assistance of your instructor during class and during office hours and of the tutors in the Multi-Assistance Center (E-building, 1st floor). In addition, your textbook and your fellow students are available learning resources.

ASSIGNMENTS: A list of required assignments as well as suggested assignments is prescribed for each unit. For each hour that you meet in class, you should expect to study three hours outside of class. Be sure to actually READ the text and DO the problems. All classwork and assigned work should be organized in a notebook. This may be checked periodically. Take the test at the end of each chapter to see how much you have learned. These self-tests (tests at the end of each chapter in the text) must be submitted to the instructor. Assignments will count for 10% of your final grade.

UNIT QUIZZES: When you have completed the preparation for a unit, you may take the unit quiz. A grade of 80% or above is required on a quiz in order to complete a unit

and proceed to the next unit. Units must be completed in order. Students are required to complete ten (10) unit tests before taking the final exam. Unit quizzes will count as 50% of your final grade. You will be allowed two tries to achieve at least 80% on a quiz. (If you need to take a quiz for the second time, the score on your second test is the one that will be used to compute your final grade.)

(MIDTERM) CUMULATIVE TEST: There will be a cumulative test administered after you complete test #5 (chapter #6). This test can be taken only one time and that grade will count for 10% of your final grade.

WRITING ASSIGNMENTS: This course complies with the general education degree requirements. Therefore, there will be written assignments throughout the course. The written component will count for 10% of your final grade.

FINAL EXAM: You must complete all ten unit tests (quizzes) and the cumulative test midterm) before taking the final exam. The final exam will count as 20% of your final grade.

GRADING:

The assignments will count as 10% of your final grade.
The average of the unit quizzes will count as 50% of your final grade.
The cumulative test score will count as 10% of your final grade.
The written assignments will count as 10% of your final grade.
The final exam will count as 20% of your final grade.

As a result of an unsatisfactory attendance record (more than 2 unexcused absences), your final score may be reduced by two points. The final score will be changed to a letter grade as explained in the college catalog.
N.B. Students who intend to enroll in a sequential math course must earn at least a "C" grade in the prerequisite course.

IP GRADE: If you do not finish all course work within the 16 week semester, you may receive an "In Progress" grade only if the following conditions are met.

1. You may have no more than two (2) unexcused absences.
2. You must be making steady progress with the course material AND at least 70% of the total units must be completed.
3. During the last week of class, you must sign an IP contract form stating the conditions for completion of the remaining course requirements.

REMEMBER:

1. **ALL ASSIGNMENTS MUST BE KEPT IN A NOTEBOOK TO BE CHECKED.**
2. **ALL SELF-TESTS (TESTS AT THE END OF EACH CHAPTER IN THE TEXT) MUST BE TURNED IN TO THE INSTRUCTOR.**
3. **ALL UNIT QUIZZES WILL BE ADMINISTERED IN THE CLASSROOM.**

SO,---
Take each chapter in the text/workbook one step at a time. Be sure to read the introduction, overview, and especially the study skills for each chapter. Then, proceed through each subunit of the chapter. Each subunit contains definitions, explanations, examples, applications, and problem sets of the concepts as well as review problems. Each chapter will finish with a summary, a review of concepts and skills, and a practice test. At the completion of the chapter, each student will take the test to be graded. A grade of 80% or better is expected and required before proceeding to the next unit. After unit 10 (chapter 11) test is completed, the final exam will be administered.

HONESTY: If any student is suspected of cheating in any way, that student will not be allowed to test and therefore will fail the course.

It's going to be a busy and productive semester. I'm looking forward to working with you.

I have read and I understand the course policy for College Algebra (MAT195) with Professor Judith Tully. Furthermore, I agree to all the terms.

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(signature) (date)