

# Math 101 - College Algebra

Summer Intersession 2001

Instructor: Dr. Brian Heck  
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Office Hrs: M,T,W 12:10-1:00

**Prerequisites:** Math 003 (with a C or better) or satisfactory score on placement test.

**Text:** College Algebra (1<sup>st</sup> ed.) by Robert Blitzer (Prentice Hall)

**Calculator:** We will at times make use of calculator technology. You will need to have a scientific calculator and be able to use it efficiently.

**Course Description (catalog):** Linear equations and inequalities, linear applications, systems of linear equations, quadratic equations and inequalities, absolute value equations and inequalities, radical equations, functions and graphs, polynomial and exponential and logarithmic functions.

**Course Description (Instructor):** That about sums it up. Basically, this course has two main objectives. First is learning the ability to solve equations of all types (linear, quadratic, other polynomial, exponential, logarithmic, etc ...). Second is learning the ability to understand functions. In fact, this course could be called Pre-Calculus I: Introduction to Functions. Most of the topics we will cover this semester (if not all of them) will be covered to help us with functions, even if at the time, this goal is not mentioned. Even equation solving has its roots in finding the zeros of polynomial functions. Applications (or word problems) will be focused on occasionally, since in the “real world”, everything is an application.

**Course Objectives:** To learn as much algebra as humanly possible in 12 days.

**Instructor Expectations:** Come to class prepared (with text and fully aware). In order to understand what we are doing in class, it will be necessary for you to read sections and do problems outside of class. I will expect you to understand Chapter P (“Prerequisites”) in our text. If any of this material is either unfamiliar to you or difficult to you, I expect you to come see me so we can work on it.

## Grading Policy:

Boardwork	200 pts
Midterm Exam	200 pts
Final Exam	<u>200 pts</u>
	600 pts

## Grading Scale:

<b>A:</b> 540-600 pts
<b>B:</b> 480-539 pts
<b>C:</b> 420-479 pts
<b>D:</b> 360-419 pts
<b>F:</b> < 360 pts

**Attendance:** I will not include attendance as part of your course grade. I am not your mother or your parole officer, and this is not high school. I do, however, expect you to attend everyday. You are responsible for any and all material covered in class. If you miss any class, it is up to you to meet with me (if necessary) and catch

up on the material you missed.

### **Approximate Class Schedule:**

We will assume knowledge of Chapter P. You should look this chapter over, and if you get questions, please come see me. Below is a list of the sections we will attempt to cover this semester. If time allows, more sections may be added. If time does not allow, some sections listed may be skipped.

Chapter 1: Sections 1-6 (Equations and Inequalities)

Chapter 5: Section 1 (Systems of Linear Equations)

Chapter 2: Sections 1-3 (Functions)

\*Midterm Exam (Tuesday, May 29, 10:00 am)\*

Chapter 2: Sections 4-7 (Functions)

Chapter 3: Sections 1-3 (Polynomial Functions)

Chapter 4: Sections 1-5 (Exponential and Logarithmic Functions)

\*\*Final Exam (Thursday, June 7, 10:00 am)\*\*

### **Closing Remarks:**

You are at a university, not a trade school. The goal is intellectual development and knowledge for knowledge sake. If you want to only learn what you need to get a job, go somewhere else.

Do not ask me why you need to learn the material we are currently learning. The answers are (1) because it will be on the final (2) because this is what algebra is, and any course called College Algebra should cover this, and (3) because I say so. If during the semester you get the urge to ask me why we are learning something, re-read this paragraph. If you are still unsure, see (3) above.

It is assumed that you are attending this university because you have a desire for higher learning. It is therefore expected that you will pay attention, be respectful of your instructor and fellow students, and follow the Code of Student Conduct. Instances of academic dishonesty will be dealt with severely. If you are caught cheating, you will fail this course. Similarly, if you are a disruptive presence in the classroom, you will be dropped from the class.

### **Important Dates:**

Final Date to Add Courses or Drop Without a "W" - Monday, May 21

Final Date to Drop Courses With a "W" - Friday, May 25