

- 6.1 To solve other types of inequalities such as absolute value, polynomial and rational inequalities.
- 6.2 To review the methods for solving quadratic equations, equations in quadratic form, and radical equations.
- 6.3 To develop an understanding of the concept of a function including topics such as the domain and range of a function, functional notation, piecewise-defined functions, function transformations, operations with functions, even, odd functions, one to one functions, and the inverse of a function.
- 6.4 To study techniques of graphing functions; including polynomial, rational, exponential and logarithmic functions.
- 6.5 To study the properties of logarithms and their applications in simplifying expressions and solving exponential and logarithmic equations.
- 6.6 To develop strategies for finding zeros of polynomial functions; included in this study are the Rational-Roots Theorem and the Fundamental Theorem of Algebra.
- 6.7 To study matrix solutions to linear equations by using reduced echelon form.
- 6.8 Optional: To use distance and midpoint formulas to develop equations of circles. To convert the general form of a circle's equation to standard form.

### III. GETTING READY:

**Prerequisites:** Intermediate Algebra (Math 0310) or placement by testing or  
Co-requisite: NCBO for College Algebra (Math 0314)  
English 0305 or 0316 (developmental reading) or placement into college  
Level English by testing.  
English 0307 or 0326 (developmental writing) or placement into college  
Level English by testing.

**Required Materials:**

1. **Online Textbook:** College Algebra

Author(s): Blitzer, Pearson 7th Edition. 2018 E-Book Only. LSC  
Note: Student will be purchasing a MML code ONLY.

2. **MyMathLab:** This online homework system is **required**. An eBook is also included.

Registration Process for MyMathLab (Required)

1. Go to [www.pearsonmylabandmastering.com](http://www.pearsonmylabandmastering.com).
2. Under Register, select Student.
3. Confirm you have the information needed, then select OK! Register now.
4. Enter your instructor's course ID: use **dang50346** and Continue.
5. If you have ever used a Pearson MyLab & Mastering product, such as MyMathLab, MyITLab, MySpanishLab, MasteringBiology or MasteringPhysics. Enter your existing Pearson account username and password to Sign In. If you don't have an account, select Create and complete the required fields.
6. Select an access option. Enter the access code that was purchased separately from the bookstore.

Temporary Access: Gain temporary access by selecting the link near the bottom of the page. This is only good for 7 days. When you purchase, make sure you do NOT create a new account. Login with the temporary access first. Otherwise, you will lose your course work complete under the temporary account.

3. **Calculators:** TI-30XIIS or a scientific calculator
4. **Positive learning attitudes:** take responsibility for your study, work hard, be patient, be perseverant, demonstrate professionalism and treat people with respect.

**Course Websites:**

<http://apps.lonestar.edu/blogs/vindang/>

(Syllabus, calendar, class notes, exam reviews, videos, etc.)

### IV. INSTRUCTOR GUIDELINES AND POLICIES: \

**FINAL GRADE CALCULATION:**

MyLabMath Homework	20%
3 Regular Exams	60% (3 exams @ 20% each)
Final Exam	20%

**GRADING POLICY:**

The allowable final grades in Math 1314 are A (final average of 90 to 100%), B (final average of 80 to 89%), C (final average of 70 to 79%), D (final average of 60 to 69%), F (final average below 60%), and I (reserved for students unable to complete the last part of the course due to illness or other extenuating

circumstances). Note that I's are not to be given to a student who simply gets behind and cannot get caught up.

If any of your exam scores is below 50%, you cannot receive a grade of "A" for the course, no matter what your percentage works out to be. **THIS APPLIES EVEN IF AN EXAM SCORE IS REPLACED BY THE FINAL EXAM SCORE.** Thus, if you miss any 1314 exam in this class, the highest grade you can receive is a "B".

#### **ATTENDANCE POLICY:**

- Your attendance is critical. I cannot help you if you are not present.
- **Attendance is taken daily. I reserve the right to drop you after 4 or more absences.**
- You are expected to attend all classes and be on time. If you are more than 15 minutes late or if you leave in the middle of my lecture, it is counted as an absence. Arriving late to class or leaving the classroom in the middle of lecture is disrespectful and disruptive to your classmates and professor.

#### **EXPECTED BEHAVIOR:**

Each student is expected to participate in the class, and to respect the instructor and fellow classmates (where applicable) at all times and during office hours and email communications. Classroom disruptions and confrontational behavior and/or an unwillingness to participate may warrant dismissal from the class. Professional language and etiquette is expected at all time. Respectful behavior is expected.

**I have zero tolerance for inappropriate and/or disrespectful behaviors, language and/or profanity in class, during my office hours or in email-communications.** Students who engage in such behaviors will be asked to leave the class and will not be allowed to be back until they obtain permission from the Dean or the Department Chair. I will also remove any individual from the lectures/ discussions and/or the course who is deemed by me and/or others to be disrupting the educational process. In serious circumstances, students might be referred to the appropriate LSC offices which could result in disciplinary actions or dismissal from the college.

#### **HOMEWORK:**

- The homework is assigned using MyLab Math to provide you with valuable online resources and immediate feedback. Work on the homework for a section immediately after we cover that section in class. The due date for each homework assignment is posted on MyLab Math and on the class calendar. You are responsible for knowing which assignment is due when and complete the assignment before the due date. You must complete each homework assignment by the due date. Otherwise, you will receive a zero. **There will be no extensions or make-up to any of the homework assignments under ANY circumstance. This is absolutely non-negotiable.** For example, if you wait until the due day to work on the assignments and the mylab system is closed for maintenance on that day, you will NOT get an extension.
- I do understand that unforeseeable events can occur; hence, your lowest 3 homework scores will be dropped when grade is calculated. Moreover, see the section on Extra Credit.
- **In general, MyLabMath HW Due at 11:59 pm on the day before the test!**
- The only way to learn mathematics is to DO mathematics. The homework is designed to help you understand the essential material and develop your problem solving skills. With limited class time, there will be many important extensions of concepts and techniques and many types of problems that are covered in the homework assignments instead of in class. Therefore, the key to keep up with the fast pace of the course and to do well in exams is to constantly practice solving

homework problems and understand all the steps, concepts, definitions and results involved in their solutions.

- Visit my office during office hours or visit the MAC center for help with homework problems when you get stuck. I also strongly encourage you to work in groups and collaborate on the homework assignments. However, do not simply copy the answers from your classmates, make sure you understand every step of the solutions and all the concepts involved in a problem.
- **I reserve the right to drop you if you have 4 or more zero homework assignments.**

#### **REGULAR EXAMS/FINAL EXAM MAKE-UP POLICY FOR MATH 1314:**

- You will have 3 regular exams and a final. All exams are paper-and-pencil. You must show all work on the written part of the exam. All cellphones must be turned off and put on the table, clearly visible to the instructor, before the exam is handed to you. All books, notes, etc. must be put in your backpacks and the backpacks must be put in the front of the classroom.
- No make-up exams will be given. I do understand that schedules get hectic. Thus, if you know in advance that you will need to miss an exam, let me know and I will try to make an arrangement. The following guidelines will apply:
  - You must notify me both in person and via email.
  - You must notify me at least one week prior to the exam date.
  - If you wish to take the exam, you must take it before the regular scheduled time.
  - Notice that a panicked cellphone call from the freeway on the morning of the exam does not fall into this category. Such an event is covered below.
  - Notice that asking me several days (or weeks or months) after the exam does not fall into this category. Such an event is covered below
- I also understand that unforeseeable events can occur. Hence, I will replace the lowest of your exam#1-3 scores with the score you make on the final exam, provided the score on the final exam is higher than your lowest regular exam scores. If you miss an exam, you will simply have your score from the final substituted for the missing score. The following guidelines will apply:
  - The final exam will not be replaced. You must take the final.
  - If you miss 2 exams, only one will be replaced

#### **Extra Credit:**

Although the homework assignments are online, I strongly encourage you to carefully and neatly write down all the steps of your solution to every problem on paper. Be neat, accurate and organized and always show quality work on all the exercises in the assignments. You can earn extra credit for doing so in the following way: On the date of each test, I will collect your notebook or paper and grade your written solutions to the homework assignments corresponding to that test for completion. **If your work is satisfactory, you will earn an extra 1% for your overall percentage of the class.** So in total, you can earn up to 4% for your overall percentage of the class.

For your work to be marked as satisfactory, you must

- Either do your homework assignments in a notebook (just-for-homework-notebook) or do them in standard size paper and staple all the pages together.
- Solve all the exercises on each assignment and show all your work. If you miss just one exercise from an assignment, you will not get the extra credit.
- Clearly label the title of the assignment and label the exercises in the assignment. All your solutions must be clearly labeled and in order. Write all your work neatly for each exercise.
- Demonstrate that you have made serious attempts to work on ALL the exercises assigned. The answers need not be correct but you need to show substantial work on each exercise.
- Turn in each extra credit at the beginning of class on the date of each exam.

#### USE OF PERSONAL ELECTRONIC EQUIPMENT IN CLASS:

- Unless otherwise given permission by your instructor, all cell phones must be turned off or turned to silent mode and placed out of sight.
- Text messaging is not allowed in the classroom, you will be asked to leave the classroom and will be counted absence if you engage in text messaging.
- During regular exams and the final, you must turn off all laptops, PDA's, ipads, etc. and put them in your backpacks and put your backpacks in the front of the class. You must also turn off your cell phone and put it on the table. **If you have an electronic communication device with you during the exam, you will receive a zero on the exam regardless of whether you use it or not. This is absolutely non-negotiable.**

#### HOW TO EMAIL YOUR PROFESSOR:

View an Email to a Professor as a Professional Interaction:

- Begin your email by addressing your professor by title and last name, and end your email with a closing and your signature. (For example, begin by "Dear/Hi Dr. Dang" or Professor Dang. End by "Sincerely, Your Name" or "Thanks, Your Name.")
- Be clear and concise. Use correct spelling and proper grammar.
- Always use an informative subject line. Write a few words indicating the purpose of your message. Do not leave the subject line blank.
- Specify who you are and specify which class you are taking before diving into the specifics.
- Before composing an email to your professor, check the syllabus. Class policies, such as office hours, assignment details, policies on missed classes and exams, etc. are addressed in the syllabus. If something is still not clear, then by all means ask your question --- but first attempt to answer the question yourself and only write if you need further clarification.
- Do not make demands. Explain your circumstances and your needs, and ask politely for accommodation.
- Do not use your email to vent, rant, or whine. If you have a complaint, or are not happy about something, explain yourself calmly and ask if anything can be done. You may very well be

frustrated about a situation, but sending an angry email will not help things. In situations like this, it is also often more helpful to talk to the professor in person rather than send an email -- particularly since tone and intent can often be misinterpreted in emails.

- Be respectful, and consider whether anything you have written might sound rude or offensive to your professor.
- Allow time for a response. Allow 24-48 hours for a professor to reply -- possibly more if it is a weekend or holiday.

#### **RESPONSIBILITIES:**

1. Successful students follow instructions. The syllabus and class calendar are the primary sources of instructions in any college course; so successful students read them carefully and refer to them regularly.
2. Successful students, those that get A's, B's, and C's, use their time wisely. The standard formula for college coursework is that every hour of class time will result in two to three hours of homework, so a three unit class will do an average of six or more hours of homework (doing homework, reading textbook, studying notes) per week. As a result, successful students plan their time wisely so that they keep up with assignments.'
3. Successful students take time to do the homework and do it on time. Mathematics can be a lot of fun when you understand what is being explained. When you are not keeping up with the class, it becomes more difficult to follow the instructor's explanation and to read the book.
4. Successful students seek assistance when needed. Go to your professor's office hours and virtual office hours, go to the MAC, form study groups and work on problems and learn the material together.
5. Successful students are neat, accurate and well organized. They always attempt to do quality work on all exercises.
6. Successful students are perseverant. An interesting characteristic of learning mathematics is that at one moment you may feel totally confused, and then suddenly the light bulb goes on and you understand the material! Some mathematical concepts take time to digest and you might find that after a few days of working some of the exercises, they finally start to make sense.
7. Successful students prepare carefully for the exams. In math courses, you show proficiency by taking exams. Study for the exams by reviewing class notes, slides, videos, examples in the book, questions and problems from your homework assignments, and review sheets.
8. Tell yourself what you have learned. As you learn new concepts, point out to yourself what you have learned so that your confidence in your mathematical ability will increase. Each mathematical concept you understand becomes another tool that you can use.

### **THINGS I HATE:**

1. WILL THIS BE ON THE TEST?
2. WHEN IS THE FINAL?
3. NOT FOLLOWING BLATANT DIRECTIONS.
4. NOT STOPPING AN EXAM WHEN TIME IS CALLED.
5. HOW MANY QUESTIONS WILL THERE BE ON THE TEST?
6. DO YOU HAVE A CALCULATOR I CAN USE?
7. DO YOU HAVE A PENCIL I CAN USE?
8. IS THERE ANY EXTRA CREDIT?
- 9. COMPLAINING ABOUT HAVING TO BE HERE.**

### **DROPPING THE CLASS:**

It is my desire that no students drop the course. However, circumstances may arise which might cause you to consider that as a possibility. If so, I encourage you to talk with me. It may be that there are options available that are unknown to you. In any case, however, except for inordinately unusual circumstances or non-attendance or having multiple zero homework assignments, I will not initiate dropping a student from the course. You, the student, are responsible for ensuring that:

- (a) You are properly enrolled in the course and, should you decide to,
- (b) You are properly withdrawn from the course.

**We will try to follow the course calendar very closely. However, at times the course structure may need to be adjusted to provide for a better learning environment. Thus I reserve the right to make changes to the syllabus and the schedule. All changes will be announced in class.**

This is a fast-paced course and there are a lot of material to cover. Hence, the class is primarily lecture-oriented and I will spend most of class time to lecture on the important concepts, important problem solving techniques and examples. If you have homework questions, policy questions, questions on previous material, or questions on the prerequisite material for this class, please come to my office during my office hours and I will be happy to answer them. If you cannot make it to my office hours, come to the MAC center and you can obtain free tutoring there.

Link to [LSC Syllabus Policies](#) for information on

FERPA

Title IX

Academic Integrity

Academic Appeals

ADA 504/508

Emergency Procedures (and LoneStarCollegeAlert)

Concealed Carry / Campus Carry



Link to [NH Math Syllabus Information and Resources](#) on

Mathematics Department  
Math Achievement Center and Tutoring  
Division Counselor  
OTS HelpDesk  
Student Course Documents  
Online Videos  
Student Support Material  
Math Faculty Websites  
Sexual Assault Prevention

