

# Linfield College

Division of Continuing Education: Adult Degree Program

Course Syllabus for MTH-115

Instructor: Dr. Gowri Meda

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*Welcome to Intermediate Algebra!! Please read and understand this syllabus.*

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## **PART A**

### **A1. Course Number, Title, Credit hours:**

**Course Title & Number:** MATH-115 Intermediate Algebra - ONLINE Class

**Credit Hours:** Three

**Term and year:** Fall 2003 [September 13 to December 18]

**Classroom:** **Online**

### **A2. Instructor's Contact Information and Biography:**

**Email:** From the course webpage, click on the icon with the title **Communicate**. Then click on the mailbox icon with the title "Email". From the pull down menu "**TO**" choose my name. Compose your message as usual and hit **post** button.

**My Online schedule:** I will reply to your messages Sunday through Friday and would like to reserve Saturdays for my family. However if I am not out of town on Saturdays, I will try to reply to your messages. If you have a math questions, then please post them in the GROUP Discussion area (information about your GROUP is discussed in A& below.) and I will respond in the same group- area so that everyone in the group can benefit from your question and my answer. Please email to my personal inbox only if you have a non-math question that you want to discuss with me.

**My Biography:** I am originally from India although I have been residing in the US for the last 13 years. Since receiving my Ph.D. degree in mathematics in 1997 from Bryn Mawr College in Pennsylvania, I taught math full-time for five years. For the last one year I have been teaching math part-time at a community college and also part-time online classes at other places. I enjoy teaching online classes and I am looking forward to working with you this semester. When I am not doing math, I like to paint- both oil and water color. My husband and I also enjoy traveling to places! By the way, please call me by my first name Gowri—"Gow" rhymes with "Cow" and "ri" rhymes with "be".

**A3. Prerequisites for this Course:** High School Algebra I and geometry, or equivalent.

**A4. Required Text and Course Materials** (available at the bookstore):

**A5. Course Content and Course Objectives:** **Content will include:** Number systems and their properties, solving linear and quadratic equations, solving systems of equations, polynomials and factoring, graphing linear and quadratic equations, graphing inequalities, exponents and radicals, operations on rational functions.

In this course you will

- review and relearn the basics many properties of the real number system
- develop the algebraic skills and techniques needed to solve linear and quadratic equations
- learn to apply algebra to real world problems

**A6. Pedagogical Approach:** In this online class, you will take on an **active role** in accomplishing the course objectives. Section A7 below provides you the specific of classroom assessment. PART B of this syllabus lists the activities and assignments for each week. In this Online environment, while you have the advantage of studying the material at a time of the day that fits your schedule, it is crucial that you understand that each week you will have a list assignments (Online quizzes and group-discussions and also midterm exams in some weeks) to complete and there is no flexibility in the due dates of these assignments. Hence, be sure to read and understand the next two sections very carefully.

In this class I will expect you to

- complete the reading assignment for the week within the same week.
- complete the homework (do not turn it in) and check your answers with the posted solutions.
- Participate in the group discussion in a timely manner on a regular and consistent basis.
- Complete the Weekly Online quizzes on time and follow all the rules that go with it.

In this class you can expect that I will

- respond to your math-questions within 48 hours
- respond to any message sent to my "email" within 48 hours
- actively manage this webpage, ensuring that quizzes are posted on time.

### **A7. Class assessment and Grading Scheme:**

Your course grade will be based on the following assessment areas. Please also see the next section "Grading Scheme" which explains how I will determine your Course-grade.

***Weekly Online Group-Discussion and Participation:*** By Sunday morning, I will assign you to a group. Once I have assigned you to a group, you can only access your group-discussion. To access your group from the homepage, click on **communicate**, then click on **Discussion Area** and finally click on **The only GROUP** that you will be able to access.

On the homepage, notice that there is an icon for "Topics for your Group Discussion". If you click on that, you will see a list of math questions. By the way these questions are also printed in your textbook. For instance "Getting ready for Section 1.1." is on page 8 of your text. In your GROUP area, you should post answers to at least three questions listed in the Group-

Discussion Topics I just discussed (i.e., the questions in the "Getting ready for class items" .) In addition to that, you should comment on at least two of your group-members' answers.

Your score in this Group-Discussion category will be based on the quality and quantity of your posts in your Group-Discussion EACH week. You must participate by posting in your GROUP area at least one message on each of any three separate days out of seven days in any week [Monday through the following Sunday]. These are asynchronous discussions and so you may post your message at a time of the day that is convenient to you. However be sure to participate on at least three separate days of each week. If you do not participate in one week, then you lose Group-Discussion points for that week and you cannot make up those points in another week.

**Weekly set of online Quizzes:** Each week you will be required to take quizzes online. Please see PART B of this syllabus for the quiz due dates. Expect to take a set of eight or nine quizzes each week. You may take your quizzes at any time but note the following **very strict restrictions** about the weekly set of web quizzes.

1. The set of quizzes ( 8 or 9 typically) relevant to the week's readings will be made available (that is you will have access to them from the homepage) ONLY on Wednesday of each week. **You must take all the quizzes in the set by Sunday midnight of that week.**
2. You may choose to take each individual quiz at different time periods or even on different days. However, you must complete the set of quizzes before Sunday midnight of the week.

**Midterm Exams:** There will be three online midterm exams. Each midterm will be available for you online ONLY on the dates mentioned below. **Once you start the midterm exam online, you will have to finish it in two hours.** Hence, do not start your midterm until you are absolutely ready. I will give you more information on this when we get closer to the midterm time-period

**Midterm-1:** 8am on October 16 until midnight October 17

**Midterm-2:** 8am on November 20 until midnight November 21

**Midterm-3:** 8am on December 15 until midnight on December 16

**I will calculate your grade based on the following grading scheme**

Assessment Area	Maximum Points	Percent of Course-grade
Weekly Online Group-Discussions and Participation	100	20 %
Weekly Online Quizzes	100	20 %
Three Online Midterm Exams (100 points each)	300	60%
<b>TOTAL</b>	<b>500 points</b>	<b>100%</b>

Grade	Percent	Total Point Equivalent
A	90-100%	450-500
B	80-89 %	400-449
C	70-79 %	350-399
D	60-69 %	300-349
F	0-59 %	0-259

**A8. Academic Honesty Policy :** Cheating and plagiarism will not be tolerated. Any student found to be engaging in either of these activities at any point in the course will receive a failing grade for the assignment and/or entire course and may be subject to further college sanctions.

**A9. Missed assignments/quizzes policy:**

No make-ups are allowed for missed Group Discussions, Participation, or Online quizzes and midterms.

**A10. Disability Statement:** Students with documented disabilities who may need accommodations, who have any emergency medical information the instructor should know, should communicate with the instructor as early as possible, no later than the first week of classes.

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## **PART B**

This is a tentative calendar. I will make an announcement if I ever have to make changes to the following.

### **B1. Activities and assignments for week of September 15-21**

**1. Reading Assignment:** Chapter One: The Basics

**2. Suggested Homework:** Please do the following exercises from your textbook. I do not collect homework. However, I will post solutions to these questions so that you can check your answers on your own.

**In what follows,**

**"every odd" from 1 through some number means 1, 3, 5, 7, 9, 11, 13 ..... and so on**

**"every other odd" from 1 through some number means 1, 5, 9, 13 ..... and so on.**

**Section 1.1:** 1 through 85

**Section 1.2:** 1 through 69 **every other odd**

**Section 1.3:** 1 through 69 **every other odd**

**Section 1.4:** 1 through 73 **every other odd**

**Section 1.5:** 1 through 79 **every other odd**

**Section 1.6:** 1 through 41 **every other odd**

**Section 1.7:** 1 through 47 **every other odd**

**Section 1.8:** skip

**Section 1.9:** 1 through 41 **every other odd**

**3. Group Discussion and Participation:** See section A7 of this syllabus for participation requirements.

**4. Weekly Online Quizzes:** Take the set of weekly online quizzes. See A7 for details.

**5. Post your Bio:** Click on the icon **Communicate** and then on **Discussion Area**. In the discussion area, under the topic INTRODUCTIONS, you will see that I have posted a Bio thread. Using the Bio thread, please post your Bio by Sunday, so that we can all begin to get to know each other.

## **B2. Activities and assignments for week of September 22-28**

**1. Reading Assignment:** Chapter Two: Linear Equations and Inequalities, Section 2.1 through 2.5 and 2.8

**2. Suggested Homework:** Please do the following exercises from your textbook. I do not collect homework. However, I will post solutions to these questions so that you can check your answers on your own.

**Section 2.1:** 1 through 93 **every other odd**

**Section 2.2:** 1 through 59 **every other odd**

**Section 2.3:** 1 through 67 **every other odd**

**Section 2.4:** 1 through 51 **every other odd**

**Section 2.5:** 3 through 23 **every other odd**

**Section 2.8:** 1 through 55 **every other odd**

**3. Group Discussion and Participation:** See section A7 of this syllabus for participation requirements.

**4. Weekly Online Quizzes:** Take the set of weekly online quizzes. See A7 for details.

## **B3. Activities and assignments for week of September 29-October 5**

**1. Reading Assignment:** Chapter Three: Graphing and Linear Systems

Sections 3.1, 3.2, 3.3, & 3.4

**2. Suggested Homework:** Please do the following exercises from your textbook. I do not collect homework. However, I will post solutions to these questions so that you can check your answers on your own.

**Section 3.1:** 1 through 43 **every other odd**

**Section 3.2:** 1 through 23 **every other odd**

**Section 3.3:** 1 through 67 **every other odd**

**Section 3.4:** 1 through 11 **every other odd**

**3. Group Discussion and Participation:** See section A7 of this syllabus for participation requirements.

**4. Weekly Online Quizzes:** Take the set of weekly online quizzes. See A7 for details.

#### **B4. Activities and assignments for week of October 6-12**

**1. Reading Assignment:** Chapter Three: Graphing and Linear Systems,  
Sections 3.5, 3.6 & 3.7

**2. Suggested Homework:** Please do the following exercises from your textbook. I do not collect homework. However, I will post solutions to these questions so that you can check your answers on your own.

**Section 3.5:** 1 through 9 **every other odd**

**Section 3.6:** 1 through 41 **every other odd**

**Section 3.7:** 1 through 37 **every other odd**

**3. Group Discussion and Participation:** See section A7 of this syllabus for participation requirements.

**4. Weekly Online Quizzes:** Take the set of weekly online quizzes. See A7 for details.

#### **B5. Activities and assignments for week of October 13-19**

**1. Reading Assignment:** Chapter Three: Graphing and Linear Systems, Section 3.8

**2. Suggested Homework:** Please do the following exercises from your textbook. I do not collect homework. However, I will post solutions to these questions so that you can check your answers on your own.

**Section 3.8:** 1 through 15 **every odd**

**3. Group Discussion and Participation:** See section A7 of this syllabus for participation requirements.

**4. Weekly Online Quizzes:** Take the set of weekly online quizzes. See A7 for details.

**5. Midterm-1:** 8am on October 16 until midnight October 17 on chapter 1, 2 and 3

#### **B6. Activities and assignments for week of October 20-26**

**1. Reading Assignment:** Chapter Four: Exponents and Polynomials,

## Sections 4.1 through 4.5

**2. Suggested Homework:** Please do the following exercises from your textbook. I do not collect homework. However, I will post solutions to these questions so that you can check your answers on your own.

**Section 4.1:** 1 through 63 **every other odd**

**Section 4.2:** 1 through 53 **every other odd**

**Section 4.3:** 1 through 45 **every other odd**

**Section 4.4:** 1 through 27 **every other odd**

**Section 4.5:** 1 through 37 **every other odd**

**3. Group Discussion and Participation:** See section A7 of this syllabus for participation requirements.

**4. Weekly Online Quizzes:** Take the set of weekly online quizzes. See A7 for details.

## B7. Activities and assignments for week of October 27-November 2

**1. Reading Assignment:** Chapter Five: Factoring,  
Sections 5.1 through 5.4

**2. Suggested Homework:** Please do the following exercises from your textbook. I do not collect homework. However, I will post solutions to these questions so that you can check your answers on your own.

**Section 5.1:** 1 through 33 **every other odd**

**Section 5.2:** 1 through 53 **every other odd**

**Section 5.3:** 1 through 45 **every other odd**

**Section 5.4:** 1 through 27 **every other odd**

**3. Group Discussion and Participation:** See section A7 of this syllabus for participation requirements.

**4. Weekly Online Quizzes:** Take the set of weekly online quizzes. See A7 for details.

## B8. Activities and assignments for week of November 3-9

**1. Reading Assignment:** Chapter Five: Factoring, Sections 5.5 & 5.6  
Chapter Six: Rational Expressions, Section 6.1

**2. Suggested Homework:** Please do the following exercises from your textbook. I do not collect homework. However, I will post solutions to these questions so that you can check your answers on your own.

**Section 5.5:** 1 through 45 **every other odd**

**Section 5.6:** 1 through 53 **every other odd**

## **Section 6.1: 1 through 23 every other odd**

**3. Group Discussion and Participation:** See section A7 of this syllabus for participation requirements.

**4. Weekly Online Quizzes:** Take the set of weekly online quizzes. See A7 for details.

## **B9. Activities and assignments for week of November 10-16**

**1. Reading Assignment:** Chapter Eight: Equations and Inequalities in Two variables,  
Sections 8.1, 8.2 & 8.4

**2. Suggested Homework:** Please do the following exercises from your textbook. I do not collect homework. However, I will post solutions to these questions so that you can check your answers on your own.

**Section 8.1:** 1 through 23 every other odd

**Section 8.2:** 1 through 49 every other odd

**Section 8.4:** 1 through 15 every other odd

**3. Group Discussion and Participation:** See section A7 of this syllabus for participation requirements.

**4. Weekly Online Quizzes:** Take the set of weekly online quizzes. See A7 for details.

## **B10. Activities and assignments for week of November 17-23**

**1. Reading Assignment:** Chapter Eight: Equations and Inequalities in Two variables,  
Section 8.4

**2. Suggested Homework:** Please do the following exercises from your textbook. I do not collect homework. However, I will post solutions to these questions so that you can check your answers on your own.

**Section 8.4:** 29

**3. Group Discussion and Participation:** See section A7 of this syllabus for participation requirements.

**4. Weekly Online Quizzes:** Take the set of weekly online quizzes. See A7 for details.

**5. Midterm-2:** 8am on November 20 until midnight November 21

## **B11. Activities and assignments for the TWO week period of November 24-30**

**1. Reading Assignment:** Chapter Nine: Rational Exponents and Roots, Section 9.1  
Chapter Ten: Quadratic Functions, Section 10.1

**2. Suggested Homework:** Please do the following exercises from your textbook. I do not collect homework. However, I will post solutions to these questions so that you can check your answers on your own.

**Section 9.1:** 1 through 27 **every odd**

**Section 10.1:** 1 through 11 **every odd**

**3. Group Discussion and Participation:** See section A7 of this syllabus for participation requirements.

**4. Weekly Online Quizzes:** Take the set of weekly online quizzes. See A7 for details.

## **B12. Activities and assignments for week of December 1-7**

**1. Reading Assignment:** Chapter Ten: Quadratic Functions, Sections 10.2 & 10.5

**2. Suggested Homework:** Please do the following exercises from your textbook. I do not collect homework. However, I will post solutions to these questions so that you can check your answers on your own.

**Section 10.2:** 1 through 27 **every odd**

**Section 10.5:** 1 through 17 **every odd**

**3. Group Discussion and Participation:** See section A7 of this syllabus for participation requirements.

**4. Weekly Online Quizzes:** Take the set of weekly online quizzes. See A7 for details.

## **B13. Activities and assignments for the LAST week and a half period of December 8-18**

**1. Reading Assignment:** Chapter Ten: Quadratic Functions, Section 10.5

**2. Suggested Homework:** Please do the following exercises from your textbook. I do not collect homework. However, I will post solutions to these questions so that you can check your answers on your own.

**Section 10.5:** 19 through 33 **every odd**

**3. Group Discussion and Participation:** See section A7 of this syllabus for participation requirements.

**4. Weekly Online Quizzes:** Take the set of weekly online quizzes. See A7 for details.

**Midterm-3:** 8am on December 15 until midnight on December 16