MTH 95 Intermediate Algebra Internet

Term: Winter 2019 CRN: 30258 Class Code: 80

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Office Hours: Tuesdays and Thursdays 10am - 11 am, Fridays 1pm-2pm, additional times are available by appointment.

MTH 95 Intermediate Algebra Course Description:

Intermediate Algebra is a course that develops the concept of a function. It is designed for the student who has an algebraic foundation (Math 75). Topics include an investigation of different functions, their graphs, and properties. The functions included are linear, quadratic, polynomial, radical, and exponential. Problem solving, technology, and cooperative learning is emphasized throughout the course. During the term, students will learn to recognize and express mathematical ideas graphically, numerically, symbolically, and in writing. Application problems are realistic with some data to be collected, analyzed and discussed in a group setting with results submitted in written form. Credits 4
Prerequisite: MTH 75 or Placement into the course.

What will you learn in this class?

1. Interpret and analyze functions to find information such as domain, range, variable and function values by using a variety of tools that may include graphs, tables or given equations.
2. Model application problems using appropriate algebraic models, which may include linear, quadratic, and exponential.
3. Communicate mathematical concepts, processes and solutions.
4. Apply algebra skills to topics such as factoring polynomials, solving quadratic equations, and simplifying expressions.

What materials do you need for this class?

- Tablet or Laptop (available for purchase or rent in bookstore if you don't have one.) Minimum specifications for use with ALEKS software: https://www.aleks.com/support/system_requirements
- ALEKS access code for 11 weeks. (If a 52-week code was previously purchased, that may be continued.)
- Course Materials Packet
- Non-graphing, scientific calculator for testing (recommended but optional).
- Three ring binder for your course packet, ALEKS notes and class notes (recommended but optional).

How Will your Grade be Calculated?

Your grade will be calculated using a weighted average based on the percentages below for each categories. You can find detailed information about the categories on the next page.

Category	Percent of Grade
ALEKS Weekly Objectives	20%
ALEKS Topics/Pie Overall	5%
Concept Chats	5%
ICA Activities and Quizzes	20%
ALEKS Skills Test 1	5%
ALEKS Skills Test 2	15%
Midterm Exam	12%
Final Exam	18%

Your letter grade for the course will be assigned based on the grading scale:

A: 90 -100%

B: 80 – 89%

C: 70 - 79%

D: 60 - 69%

F: 0 - 59%

A grade of Incomplete may be assigned at the discretion of the instructor under special circumstances. The student must have completed the majority of the course, been in regular attendance and passing the course prior to the “special circumstance”.

Tests

All tests will be taken in one of LBCC learning centers or an approved official proctor location. There are no notes or graphing calculators allowed during any of the tests.

Test	Deadline
Aleks Skills Test 1 - unlimited time	Friday January 18 (End of Week 2)
Midterm Exam - 1 hour time limit	Friday February 15 (End of Week 6)
Aleks Skills Test 2 - unlimited time	Friday March 15 (End of Week 10)

Final Exam - 2 hour time limit	Tuesday March 19 (Finals Week)

Activities and Discussions
We will be using Moodle for this course. Each week you will have several assignments in Moodle to complete in addition to your ALEKS homework. You will be actively participating in learning activities and group discussion each week. Generally, these activities must be done by the due date and cannot be accepted late. The activities and discussions are designed to help you develop and understand the concepts behind the math skills, and how to apply them to various situations. The experiences gained from working on activities and class discussions will be a major component in determining your success in this course. Participation is therefore required. You will need to **log into Moodle several times each week** to participate in the course activities and discussions.

Activities
Each week you will have at least one course activity to complete. You will either upload your completed activity to receive feedback from your instructor or you will complete a quiz for that activity. Detailed instructions for each activity will be provided.

Concept Chats
Each week there will be a concept chat with a new topic. To receive full credit for the weeks discussion post you must post a response AND respond to at least one other persons post. My hope is that the discussion will be engaging and help you think about the weeks math topics from a different perspective.

Activities and discussions are designed to help you gain a conceptual understanding of the material you are learning. You can read more about the philosophy the LBCC math department has adopted for their courses on the first pages of your yellow class packet.

Homework
ALEKS is an adaptive online homework system. ALEKS will be accessed through Moodle. You will need to purchase an access code to access the course. Your skills work will be completed using ALEKS. Each week, you will have specific topics you must learn the skills and demonstrate mastery by the deadline date and time. Your score at the time of the deadline will be recorded as a homework grade for that week. Students who finish their ALEKS work before the deadline can work on other topics in the course pie.

ALEKS Homework Guidelines
You should keep a notebook of loose leaf paper for your ALEKS homework. You are expected to work through each problem and then write up neat, readable solutions for your notebook. Include the original problem unless it is a lengthy word problem. This will give you a study reference before testing.

Help

If you have questions, PLEASE ask! I am available by email, text message, zoom online meeting, or in person. I have scheduled office hours but you're welcome to come in at other times too. **Study groups** are encouraged! Many students find that working with classmates is the best way to learn and understand the material. Don't forget about the **e-book and videos** available on ALEKS.

Use the Learning Center (Click the link for hours and locations)
The Learning Center, WH226, is an excellent place to study and to get help with your homework. (Please remember to log on and log off the computer with each visit to the Learning Center.) The other LBCC campuses have similar facilities with Math Help available.

- There is free wireless available in the Learning Center (and lots of places to plug in so your battery won't be depleted.)
- The relaxed atmosphere and table arrangement in the Learning Center provide a great location for study groups to meet and work.
- Instructional assistants are available at the help desk and the Math Angle to answer your math and ALEKS questions
- The Learning Center offers some free individual and small group tutoring in addition to the help desk.

Computers

Computer labs are open to students in the Library and in the Learning Center. Laptops are usually available for short-term check out from the Library.

Expectations:

- I expect that my students will be involved in class and working on this class several times a week.
- Spend **at least 8 hours per week working on this class.**
- I expect you will be respectful of everyone in the class. Discussion board posts should be respectful and supportive of the success of everyone in the class.

LBCC Email:

You are responsible for all communications sent via ALEKS and to your LBCC email account. You are required to use your LBCC provided email account for all email communications at the College. You may access your LBCC student email account through Student Email.

Academic Honesty:

I assume that you are ethical and honest. However, if there is an incident of academic dishonesty (cheating), you will receive a score of zero for that test/assignment and the incident will be reported to the college administration for possible further disciplinary action. If there is a second offense, you will receive a grade of F for the course and the incident will be reported to the college administration with a recommendation for disciplinary action.

Special Circumstances:

Students who have any emergency medical information the instructor should know of, who need special arrangements in the event of evacuation, or students with documented disabilities who may need accommodations, should **make an appointment with the instructor as early as possible, no later than the first week of the term.**

Request for Special Needs or Accommodations

Direct questions about or requests for special needs or accommodations to the LBCC Disability Coordinator, RCH-105, 6500 Pacific Blvd. SW, Albany, Oregon 97321, Phone 541-917-4789 or via Oregon Telecommunications Relay TTD at 1-800-735-2900 or 1-800-735-1232. Make sign language interpreting or real-time transcribing requests 2-4 weeks in advance. Make all other requests at least 72 hours prior to the event. LBCC will make every effort to honor requests. LBCC is an equal opportunity educator and employer.

LBCC Comprehensive Statement of Nondiscrimination

LBCC prohibits unlawful discrimination based on race, color, religion, ethnicity, use of native language, national origin, sex, sexual orientation, gender, gender identity, marital status, disability, veteran status, age, or any other status protected under applicable federal, state, or local laws. For further information see Board Policy P1015 in our Board Policies and Administrative Rules. Title II, IX, & Section 504: Scott Rolen, CC-108, 541-917-4425; Lynne Cox, T-107B, 541-917-4806, LBCC, Albany, Oregon. To report: linnbenton-advocate.symplicity.com/public_report

The instructor reserves the right to make changes to the syllabus/calendar at any time.

Tentative Course Calendar:

Week	Topics
1	Course Introduction, Making Group Work Effective, Functions, Dimensional Analysis
2	Linear Functions, Variation, Growth Mindset
3	Rules of Integer and Rational Exponents ALEKS Skills Test 1 (Taken in Student Assessment)
4	Solving Equations for Variables, Simplifying Radicals, Radical Application
5	Radical Functions, Rational Exponent Functions, Growth Mindset 2, Introduction to Polynomials
6	Polynomials, Midterm Exam (Taken in Student Assessment), Factoring
7	More Factoring Methods, Solving Quadratic Equations
8	More Methods for Solving Quadratic Equations
9	Quadratic Functions, Exponential Functions ALEKS Skills Test 2 (Taken in Student Assessment)
10	Modeling, Review for Final Exam
11	Final Exam (Taken in Student Assessment)