MTH 95 Intermediate Algebra Internet

Term: Fall 2021
Instructor: Nicole Francis
Email: francin@linnbenton.edu

Aleks Class Code: UCJ3L-MQ4JE
Zoom Office: Click to Zoom with Nicole
Office Hours: 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.)
- Internet 95 Course Materials Packet
- Non-graphing, scientific calculator or you may use this DESMOS calculator.
- Three ring binder for your course packet and ALEKS notes (recommended but optional).
- Webcam and microphone will be needed for remotely proctored test and class meetings as well as reliable internet access.

How will your grade be calculated?

Your grade will be calculated using a weighted average based on the percentages below for each category. 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%
Activities and Quizzes	25%
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 in this class will be done online, in your Aleks account. Everything but the Initial Knowledge Check will be proctored using Respondus video monitoring software.

Tests	Deadlines
Aleks Initial Knowledge Check	Thursday, September 30
Aleks Skills Test 1	Thursday, October 14
Midterm Exam	Thursday, November 4
Aleks Skills Test 2	Thursday, November 25
Final Exam	Tuesday, December 7

Activities and Discussions:
Activities from the course packet will be done each week and submitted in Moodle. Either in the form of quizzes or scanned in files.

Homework
Online homework is done in Aleks. Each week you will work on your homework in Aleks.

ALEKS Homework Guidelines
You should keep a notebook 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 or zoom online meeting, or in person. **Study groups** are encouraged! Many students find that working with classmates is the best way to learn and understand the material.

Academic Honesty:
I assume that you are ethical and honest. During proctored exams you must not access outside notes, help from others, a graphing calculator, or your cell phone. 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**
4	Solving Equations for Variables, Simplifying Radicals, Radical Application
5	Radical Functions, Rational Exponent Functions, Introduction to Polynomials
6	Polynomials, **Midterm Exam,** Factoring
7	More Factoring Methods, Solving Quadratic Equations
8	More Methods for Solving Quadratic Equations
9	Quadratic Functions, Exponential Functions **ALEKS Skills Test 2**
10	Modeling, Review for Final Exam
Finals Week	**Final Exam due Tuesday**