

MATH 4

COURSE DESCRIPTION: Math 4 will explore algebraic methods for solving problems, focusing on real-world problems in professional technical careers such as health occupations, construction, manufacturing and sales. Students who successfully complete Math 4 will be prepared to pass the GED Mathematics test and Parts C, D, and E1 of Lane's Math Placement Test. In addition, students will explore and practice student behaviors (such as test taking skills, academic anxiety management, textbook reading, notetaking, and other study habits) which will prepare them for success in future academic and career situations.

COURSE OUTLINE (Tentative): See attached Term Schedule

COURSE OBJECTIVES:

Upon successful completion of the course, students will be able to:

- Understand properties of number sets.
- Use order of operations for computations with integers and rational numbers.
- Solve algebraic equations and inequalities.
- Identify and graph functions.
- Graph linear equations and inequalities.
- Solve systems of linear equations and inequalities.
- Perform polynomial operations and factor polynomials.
- Graph quadratic equations using a graphing calculator and use the quadratic formula.

ATTENDANCE:

Attendance is required for satisfactory completion of course work. Math is not a spectator sport! Learning to use mathematical concepts requires hands-on practice; in addition, you will find that the math concepts we study build on one another – you will need to know what we cover in class one day in order to solve the types of problems we study the next day. Successful math students do the following:

- Attend class every day
- Prepare for class by completing nightly assignments
- Participate in classes by completing practice problems, taking notes, asking questions, and working with fellow classmates
- Seek help outside of class by attending office hours, requesting a tutor, or attending Learning Lab – *before things get too tough*
- Review material throughout the term and complete review assignments in preparation for tests

Spring Term Class Times

M-Th, 8:30 – 9:50

(see attached calendar)

Instructor: Julie Pfaff

Email: pfaffj@lanecc.edu

Phone: 541-463-5456

Office: Building 11, Rm. 213

Office Hours:

M-Th 10:00-11:30

or by appointment

Course Prerequisites

Ability to problem solve with whole numbers, decimals, fractions, and proportions; demonstrated by completion of Math 1-3 or CASAS & initial assessment.

Required Materials:

- Paper and pencil
- A folder or 3-ring binder
- Your L# and passphrase (need working email and password to set up) to access Moodle
- *Optional: calculator (TI-30SX recommended); internet access.*

Oregon ABS Benchmarks

www.oregonabslearningstandards.org/index.html

Patterns, Functions & Algebraic Reasoning

M5P1, M6P1, M5P2

Data & Statistics

M6D2

Geometry & Measurement

M5G2

Number & Operation Sense

M5N1, M6N1, M5N2, M6N2, M5N3, M6N3

EVALUATION:

GRADING: Math 4 is a non-graded course, which means that you will not be given an official grade that appears on a transcript. However, you will receive feedback on your progress throughout the course so that you will know how you would do in a comparable credit class. Think of this class as your “dry run” for credit math classes – this is your chance to establish good attendance and study routines so that you can be successful when you move on to credit classes. You will demonstrate progress through:

HOMEWORK AND

CLASSWORK: Homework assignments will help you prepare for the following day’s class, and will generally consist of a video and/or reading and a related worksheet. In class, we’ll clear up questions and work on practice problems, activities, and projects. All work completed during the week will be put together into a packet and turned in each Thursday.

QUIZZES: We will have a review quiz each Thursday.

EXAMS: We will have a midterm exam at the end of Week 5 and a final exam during Finals Week (Week 11).

In order to help students maintain successful behaviors, ABSE has the following policies:

- *Start strong.* A student who does not attend at least 50% of classes during the first week of classes (Week 1 or Week 6) may be dropped from the class.
- *Be responsible for your own learning.* If you miss class at any time during the term, it is your responsibility to find out what you need to do to get caught up. Class time will not be spent “catching up” students who missed class.
- *Problem-solve barriers.* If you miss two classes during a five-week session, we’ll contact you to talk about why you’re missing class and whether we can help you with a barrier.
- *Prioritize school.* If you miss three classes within a five-week session, you’ll need to meet with me one-on-one to discuss options for program success.
- *Maintain communication:* If you do need to miss class for a legitimate reason (serious illness or emergency, testing, etc.) please call me or send me an email.

(16-17 year old students): Attendance is required and is reported to your home high school on a regular basis. It is the right of the high school to revoke your release if you are not attending.

CLASSROOM ENVIRONMENT:

We are all responsible for maintaining a respectful learning community. Comments and behavior must be civil and considerate. You must avoid use of exclusionary language, which includes racist, sexist, homophobic, or other similarly disrespectful language or remarks.

If any student is disruptive or disrespectful and continues to do so after one warning, I will ask the student to leave class. The student may return to the next class session after meeting with me to clarify the situation and expectations.

Please use cell phones and other electronic devices only in an appropriate and courteous manner.

LCC has a Student Code of Conduct, which can be found on the LCC website, that explains in further detail all of the rights and responsibilities of Lane students.

PROGRESS: You will need to achieve a Reading or Math CASAS level gain of 5 points or a writing level gain of 1 by the 3rd term of one academic year in order to continue in Lane’s ABSE/GED program.

DISABILITY RESOURCES: I do my best to design and lead this course so that everyone can learn. If something is getting in the way of your learning, let me know right away. You may also be eligible for formal accommodations. To request assistance or accommodations related to disability, contact Disability Resources at (541) 463-5150 (voice), 711 (TTY), disabilityresources@lanecol.edu (e-mail), or stop by Building 1, Room 218. Please be aware that any accessible tables and chairs in this room should remain available for authorized students who find that standard classroom seating is not usable.