

MATH 124
INTERMEDIATE ALGEBRA
5 UNITS

BUTTE COLLEGE
FALL 2014
CTRL # 7868

Instructor: Ivan Zaigralin

melikamp@melikamp.com

Office: To be determined.

Class Meetings: LB 105, TTh 6:00 pm - 8:15 pm

Required Materials: *Intermediate Algebra, 5th edition*, by Lehmann (on-line portion not required). The students are responsible for reading every section covered by the course outline at the end of the syllabus.

Catalog Description: This course covers fundamental algebraic concepts and operations. The topics include operations with positive and negative real numbers, solving linear, quadratic, and rational equations, applications of linear equations, operations with polynomials, exponential and rational expressions, factoring, graphing linear equations in two variables, and solving systems of linear equations.

Objectives: Upon successful completion of this course, the student will be able to

- (1) Solve linear, rational, and radical equations, linear inequalities, and some basic quadratic equations.
- (2) Add, subtract, multiply, and divide real numbers, polynomials, rational expressions, and radical expressions.
- (3) Graph linear equations in two variables and linear inequalities in one variable.
- (4) Factor quadratic and some higher order polynomials.
- (5) Solve systems of equations in two variables.
- (6) Solve a variety of applications by translating sentences into equations.
- (7) Simplify expressions involving integer exponents using properties of exponents.

Attendance: To succeed in this course, it is crucial that you come to class every day, alert and prepared to learn. Roll will be taken at the beginning of each class session. If you arrive after the class has started, please enter the room quietly and sign the roster at the end of the class. I will follow Butte College policy and drop anyone who skips the first class session without notifying us in advance (you may email me directly, or contact the department secretary or the Off-Campus Center). If you miss two classes during the first two weeks, I may also drop you from the class.

Homework: Homework serves as practice and will prepare you to do your best on quizzes and tests. Homework will be assigned every class

period and collected weekly. It will be graded for completeness and the amount of detail. **Homework is crucial for learning algebra as well as for succeeding in this class.** Doing all homework is probably the most effective way to raise your test grades.

Quizzes: There will be 4 quizzes given. No late quizzes will be given for any reason. The lowest quiz score will be dropped.

Tests: There will be 4 1-hour tests in addition to the 2-hour comprehensive final exam. Each test will be worth 15% of the class grade. The final exam will be worth 20%.

Grading:

| Letter Grades | | Grade Breakdown | |
|---------------|---------|--------------------------|-----|
| A | 90-100% | Tests | 60% |
| B | 80-89% | Homework & Participation | 10% |
| C | 70-79% | Quizzes | 10% |
| D | 60-69% | Final | 20% |
| F | 0-59% | | |

Getting Help: Butte College offers free drop-in tutoring:

<https://www.butte.edu/cas/tutoring.html>

A full range of all the helpful resource the campus has to offer:

http://www.butte.edu/currentstudents/help_on_campus/

Aside from that, please feel welcome to contact the instructor with your concerns via email.

Students have the right to request reasonable modifications to college requirements, services, facilities or programs if their documented disability imposes a functional educational limitation or impedes access to such requirements, services, facilities, or programs. A student with a disability who will be requesting modification, accommodation, or access to an auxiliary aid is required and responsible for identifying himself/herself to the instructor and, if desired, to the Disabled Students Programs and Services (DSPS office). In either event, the student is responsible for providing appropriate documentation of his/her disability. Students who consult or request assistance from the DSPS office regarding specific modifications, accommodations or use of auxiliary aid will be required to meet timelines and procedural requirements established by the DSPS office.

Cell Phones, Computers: The use of cell phones and computers is prohibited. A calculator is allowed, but not required.

Tentative Outline: Changes will be announced in class.

| TUESDAY | | THURSDAY | |
|-----------------------------------|-----------|---|-----------|
| Aug 26th 1.1, 1.2, 1.3 | 1 | 28th 1.4, 1.5 | 2 |
| Sep 2nd 1.6, 2.1 | 3 | 4th Quiz 1, 2.2, 2.3 Last day to add/drop classes | 4 |
| 9th 2.4, Review | 5 | 11th Test 1, 3.1 | 6 |
| 16th 3.2, 3.3 | 7 | 18th 3.4, 3.5 | 8 |
| 23rd Quiz 2, 4.1, 4.2 | 9 | 25th 4.3, 4.4 | 10 |
| 30th 4.5, Review | 11 | Oct 2nd Test 2, 5.1 | 12 |
| 7th 5.2, 5.3 | 13 | 9th 5.4, 5.5 | 14 |
| 14th 5.6, 5.7 | 15 | 16th Quiz 3, 6.1, 6.2 Last day to drop with "W" | 16 |
| 21st 6.3, 6.4 | 17 | 23rd 6.5, 6.6 | 18 |
| 28th 6.7, Review | 19 | 30th Test 3, 7.1 | 20 |
| Nov 4th 7.2, 7.3 | 21 | 6th 7.4, 7.5 | 22 |
| 11th Veterans Day - no classes | | 13th 7.6, 7.7 | 23 |
| 18th Quiz 4, 8.1, 8.2 | 24 | 20th 8.3, 8.4, 8.5 | 25 |
| 25th 9.1, 9.2 | 26 | 27th Thanksgiving - no classes | |
| Dec 2nd 9.3, 9.5 | 27 | 4th 11.1, 11.2, Review | 28 |
| 9th Test 4, 11.3, 11.4 | 29 | 11th Review | 30 |
| 16th Final Exam 6 pm - 8 pm | | 18th Finals Week - no classes | |