MATH 26 COLLEGE ALGEBRA 4 UNITS BUTTE COLLEGE FALL 2015 CTRL # 2292

THIS SYLLABUS WAS UPDATED ON 09-28-2015

Instructor: Ivan Zaigralin melikamp@melikamp.com

Office: LRC 262, Friday 9-11 am & 12-3 pm.

Class Meetings: CHC 237, MW 10:00 am - 11:50 am

Required Materials: *College Algebra* by Trish Cabral. The students are responsible for reading every section covered by the course outline at the end of the syllabus.

Catalog Description: This course covers advanced algebra concepts beyond the scope of Intermediate Algebra. The topics include algebraic simplifying, conics, theory and solution of equations and inequalities, systems of equations, linear functions, exponential and logarithmic functions, polynomial and rational functions, binomial expansion and partial fractions. The course is specifically designed for preparation for first semester Calculus (MATH 30).

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

- A. Demonstrate proficiency solving polynomial, rational, radical, logarithmic, and exponential equations, and polynomial inequalities.
- B. Demonstrate proficiency performing the four basic operations on real and complex numbers, polynomials, functions, rational expressions, and radical expressions.
- C. Graph linear, quadratic, polynomial, and rational equations, and the conics, showing all asymptotes when appropriate and applying polynomial theory when necessary.
- D. Expand binomials using the Binomial Expansion Formula and perform partial fraction decomposition.
- E. Solve a variety of linear and non-linear systems of equations.
- F. Solve applications using linear and quadratic equations, conic sections, and logarithms.
- G. Demonstrate proficiency factoring polynomials into irreducible form.
- H. Demonstrate proficiency evaluating, graphing, and finding the domain, range and inverse of a wide variety of functions including, but not limited to, exponential, logarithmic, and piece-wise functions.

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 get on the roster at the end of the class. If you miss more than a half of a class session, you will be considered absent for that day. If you miss two or more classes during the first two weeks without notifying me or the department secretary in advance, you will be dropped from the class. If you miss 4 or more class sessions any time during the semester, you will be dropped from the class. Exceptions will be made for documented cases of grave illness and/or family emergency.

Homework: Homework serves as practice and will prepare you to do your best on quizzes and tests. No make-up homework will be collected for any reason, but 2 lowest homework scores will be dropped. Homework will be graded for completeness and the amount of detail. **Homework is crucial for learning statistics as well as for succeeding in this class.** Doing all homework is probably the most effective way to raise your test grades. You are welcome to work in groups while solving the homework, but you must submit your own work.

Quizzes: There will be 5 quizzes given. No late quizzes will be given for any reason. The lowest quiz score will be dropped.

Tests: There will be 3 50-minute tests. Each test will be worth 20% of the class grade. Makeup tests will be given in documented cases of grave illness and/or family emergencies.

Final: The final exam will be given on Monday Dec. 14. It will be worth 20% of the class grade. You must attend the final in order to pass the class. If you miss the final, then you will get an F for the class.

Grading:

Letter Grades		Grade Breako	Grade Breakdown	
A	90-100%	Tests	60%	
В	80-89%	Homework	5%	
C	70-79%	Participation	5%	
D	60-69%	Quizzes	10%	
F	0-59%	Final	20%	

Getting Help: If you have a question or a concern not addressed in this syllabus, please contact your instructor via email. Moreover, the campus provides some resources to help you study.

- free drop-in tutoring:
 https://www.butte.edu/cas/tutoring.html
- other helpful resources:
 http://www.butte.edu/currentstudents/help_on_campus/

Cell Phones, Computers: Cell phones are prohibited. The use of computers and tablets will be tolerated during regular class meetings as long as they are completely silent and don't distract other students. During quizzes, tests, and the final, only non-graphing calculators will be allowed (but not required).

Accommodations: If you have a learning disability, a physical disability, or other special needs, please let me know as soon as possible if you need special accommodations (such as extra time for tests). I will do my best to accommodate all needs verified through Disabled Students Programs and Services.

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.

Academic Honesty:

All instances of plagiarism and cheating will result in the score of zero for that homework, quiz, or test, and will be reported to the Dean's Office.

Tentative Outline: Changes will be announced in class.

Monday	Wednesday		
Aug 24th	1	26th	2
1.1, 1.2		Quiz 1 , 1.3, 1.4	
31st	3	Sep 2nd	4
1.5, 1.6		1.7, 1.8	1 more day to add/drop
7th		9th	5
no classes		1.9	
14th	6	16th	7
Quiz 2, 2.1		2.2	
21st	8	23rd	9
2.3		2.4, 2.5	
28th	10	30th	11
2.6, 2.7		2.8, Review	
Oct 5th	12	7th	13
Test 1, 3.1, 3.2		3.3, 3.5, 3.6	
12th	14	14th	15
3.6		3.7, 4.1, 4.2	1 more day to drop with "W"
19th	16	21st	17
Quiz 3, 4.3, 4.4		4.5, 4.6	
26th	18	28th	19
4.7, 4.8		Review	
Nov 2nd	20	4th	21
Test 2, 5.1		5.2, 5.3	
9th	22	11th	
5.4, 5.5		no classes	
16th	23	18th	24
5.6, Review		Quiz 4 , 6.1	
23rd	25	25th	26
6.2		Review	
30th	27	Dec 2nd	28
Test 3 , 7.1, 7.2		7.3, 7.4, 7.5	
7th	29	9th	30
7.6, 7.7		Quiz 5, Review	
14th		16th	
Final 10:00 am - 12:00 pm		final week	