Course Syllabus

Math 64 — Intermediate Algebra   **Section #1268, 4 units**

Professor Tim Busken   **MTWTh, 8:00—10:50 am**

Mail Station 17A/Email Address: tbusken@miracosta.edu   **Room OC-3507**

Course Home Page: timbusken.com/math64.html   **Break: 9:15 – 9:30 am**

Textbook: You must have one of the following

1. Hard copy of textbook: Introductory and Intermediate Algebra for college students by Robert Blitzer, 5th edition WITH MyMathLab access code.

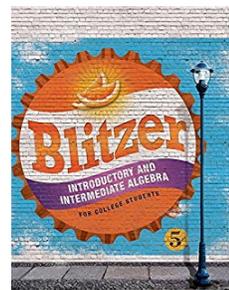*2. Online text*: MyMathLab access code (comes with an ecopy of the textbook)

More Required Materials: In addition to having the MyMathlab access code, a scientific calculator is required for this course. Please bring a calculator to class each day. If you are going to buy a scientific calculator, a good choice is the TI-30XIIS, which costs about $15. Please maintain a notebook and a folder with your notes from class, group and lecture time. Bring you binder with you to every class, along with pencils (or erasable pens), erasers and your textbook.

   Before you come to class, you should read the textbook and attempt the problems in the homework for each section.

Final Exam Date: Thursday, July 27th, 8:30—10:50 am

Grading:

Homework	16%
Tests	60% (5 exams 12% each)
Final Exam	24%

Online Gradebook: The online gradebook is on MyMathlab.

Course Calendar: The course calendar is timbusken.com/math64.html

90% — 100%	A
80% — 89%	B
70% — 79%	C
60% — 69%	D
below 60%	F

Free Tutoring!!! There are two places to get free tutoring on campus, and they are both located in the Library. The Tutoring & Academic Support Center TASC, Telephone 760.944.4449 X7748 offers tutoring by appointment, while the Math Learning Center MLC offers walk-in, no appointment necessary tutoring.

Prerequisites: The prerequisite for Math 64 is a grade of "C" or better in Math 30 or a qualifying score on the math placement test.

Course Description: This algebra course covers radicals, exponents, rational expressions, concepts of relations and functions, exponential and logarithmic functions, linear and quadratic functions, and the solutions of equations from these topics.

Student Learning Outcomes For a given set of problems the student will demonstrate quantitative reasoning by developing a problem-solving strategy, performing appropriate analysis and computation, and critically assessing the meaning of the conclusion or outcome.

Tests: There will be 5 tests (worth 12% each) and a comprehensive final worth 24%. **There will be no make up tests for any reason.** Your final exam score will be substituted for your lowest test score, but only if the final exam score is higher than your lowest test score. If you miss more than one exam, the score of both those missed exams will be zero.

Test	Chapter
Test 1	Chapter 8 Test
Test 2	Chapter 9 Test
Test 3	Chapter 10 Test 1
	10.1, 10.2, 10.3, 10.4
Test 4	Chapter 10 Test 2
	10.5, 10.6, 10.7
Test 5	Chapter 11 Test

The Chapter 12 material will be on the final exam.

Practice Tests: Online pretests for each chapter will be available online on mymathlab. It is recommended you do complete the pretests, but it is not required. Pretests are not worth any homework points.

Homework Homework will be online via MyMathLab. All the homework is due on the last day of class. However, if we are testing on chapter 8, you better have all your chapter 8 homework completed before the test. You may not use internet or technology issues as an excuse for incomplete assignments. There are computers in the Math Learning Center that you may use for the online assignments if you are having issues with your home equipment or if you do not have a computer. The Math Learning Center is located in the Library on the bottom floor. If you need a lot of help with the homework, you need to get over to the MLC before you get far behind.

Lecture: Attending class is an important component of learning. Each meeting includes some notes and discussion to help clarify and understand the main ideas of the sections covered. Students who miss class are still responsible for announcements or changes regarding the course outline, class activities, homework assignments, due dates and exam dates. Please come to lecture alert and prepared to learn. Prior to class, skim through the section and work some of the examples. After lecture, reread the text and review your lecture notes before starting the homework set.

Class Attendance: This is a class that meets face to face. Attendance is mandatory. It is your responsibility to *initial the sign in sheet* at every class meeting. You may be dropped for any absence without notifying me by email during the first week. Please avoid being habitually late or leaving early. Late arrival or early departure from class can be counted as an absence. If you know that you will be absent or very late, please notify me by email me. In the event of an absence,

you are responsible for all material covered in class, turning all assignments in on time and any schedule changes or class announcements. Since attendance is mandatory, you might be dropped after the fourth absence. Re-enrollment (which may occur once) is possible, but you must discuss it with me first. Again, attendance is your responsibility as are its consequences. I drop students who dont attend.

Participation: It is your obligation, as well as your responsibility, to participate in class discussions and in-class assignments. I encourage everyone to be active learners; this means you ask questions in class whenever you do not understand something. I advise you to get to know your classmates and to work in groups outside of class, if possible.

Success in this Course: Mathematics is a "learn by doing" subject. A good rule is to set aside eight to twelve hours per week to do your homework assignments and to complete other study and learning tasks. These tasks include: completing homework, reading the text, doing examples from the text, making outlines or 3x5 cards, memorizing formulas, rules or processes, viewing videos or getting help from your instructor or from peers in the Math Learning Center (MLC), or the Tutoring & Academic Support Center (TASC). Do not allow yourself to fall behind in your work. Catching up before a test is an extremely difficult task. Identify early on areas you need to work on and hold yourself accountable to seeking the help you need from tutoring. Allow for plenty of study time in your schedule. ALWAYS practice positive self-talk. Maintain a positive attitude.

Counselors: A big part of college is learning time management and how to deal with the combination of academic and personal stresses which occur throughout a time when you are attempting to be at your best. It takes many of us years to learn these critical life skills. Please know that our college has excellent resources in its counselors for everything from academic and personal advice to personal growth classes—classes which teach you about the excellent resources our campus has and where it's at, classes which teach you strategies for coping with stress, and what to do if you can't, and classes which provide strategies on how to study, set realistic goals and better manage your time.

Accommodation of Disability: Students with disabilities who may need academic accommodations should notify me in private within the first two weeks of instruction. MiraCosta College has a program called Disabled Students Programs & Services (DSPS), and DSPS will answer any questions you may have regarding eligibility requirements, support services, and how to obtain their services. Contact DSPS 760-795-6658 at for more information.

Academic Integrity: This class will be conducted in accordance with basic standards of academic honesty supported by MiraCosta Colleges Academic Standards & Policies, stated in the course catalog. In addition to disruptive behavior, harassment, or willful disobedience, cheating, plagiarism, or other forms of academic dishonesty are not acceptable and will not be tolerated. Students are expected to conduct themselves in an ethical manner that promotes a safe and harmonious learning environment while on the campus. Charges of misconduct and disciplinary sanctions may be imposed upon those who violate these standards of conduct, or provisions of college regulations.

Mobile Phone and Personal Electronics Use Policy: If you carry a mobile phone and/ or personal electronics, turn it/them OFF, or set it/them to Vibrating Mode while in class. Disrupting the

learning environment with use of mobile phone and/or personal electronics is not good etiquette.

Drops: If you decide to drop the course, use SURF to drop yourself. Don't wait for me to drop you automatically. If I drop you and you want to be reinstated, see me quickly.

OUTLINE OF COURSE CONTENT

The course will address the following topics:

I. Solve absolute value equations and inequalities
A. Equations with no solution, some solutions, and all solutions
B. Inequalities with no solution, some solutions, and all solutions
C. Interval notation including unions and intersections.

II. Exponents and radicals
A. Rational exponents
B. Binary operations with radicals
C. Rationalizing denominators
D. Solving radical equations
E. Complex numbers.

III. Quadratic equations and functions
A. Factoring to extract roots
B. Completing the square
C. Quadratic formula
D. Complex numbers as solutions
E. Varied applied problems
F. Graphing quadratic equations.

IV. Relations and functions
A. Domain and range
B. Inverse functions
C. Composite functions.

V. Logarithmic and exponential functions
A. Definitions
B. Graphs
C. Properties
D. Exponential and logarithmic equations
E. Applications.

VI. Introduction to conic sections
A. Equation of a circle centered at any point
B. Completing the square to find the equation of a circle
C. Solving systems of non-linear equations

To register for Summer Math 64:

1. Go to www.pearsonmylabandmastering.com.
2. Under Register, select **Student**.
3. Confirm you have the information needed, then select **OK! Register now**.
4. Enter your instructor's course ID: busken13912, and **Continue**.
5. Enter your existing Pearson account **username** and **password** to **Sign In**.

    You have an account if you have ever used a Pearson MyLab & Mastering product, such as MyMathLab, MyITLab, MySpanishLab, MasteringBiology or MasteringPhysics.

    ➢ If you don't have an account, select **Create** and complete the required fields.
6. Select an access option.
    ➢ Enter the access code that came with your textbook or was purchased separately from the bookstore.
    ➢ Buy access using a credit card or PayPal account.
    ➢ If available, get temporary access by selecting the link near the bottom of the page.
7. From the You're Done! page, select **Go To My Courses**.
8. On the My Courses page, select the course name **Summer Math 64** to start your work.

To sign in later:

1. Go to www.pearsonmylabandmastering.com.
2. Select **Sign In**.
3. Enter your Pearson account **username** and **password,** and **Sign In**.
4. Select the course name **Summer Math 64** to start your work.

To upgrade temporary access to full access:

1. Go to www.pearsonmylabandmastering.com.
2. Select **Sign In**.
3. Enter your Pearson account **username** and **password,** and **Sign In**.
4. Select **Upgrade access** for **Summer Math 64.**
5. Enter an access code or buy access with a credit card or PayPal account.