# MAT 152B – BASIC ALGEBRA (Part II) -Brock

| Course ID | Room | Days | Start Time | End Time |
|---|---|---|---|---|
| MAT 152B | A213 | M,T,W,R | 08:30 AM | 10:20 AM |

**INSTRUCTOR**: Laurel Brock

**PHONE**: 530-307-9934 (cell) … *please do not call to tell me that you will be absent.*

**WEB SITE:** www.STHSOnline.com/grades ***(Grades are posted here)*** *– password: "ltcc (last 4-digits of phone #)*
**E-MAIL**: lbrock@ltusd.org

**REQUIRED TEXT**: Beginning & Intermediate Algebra 4/e by K. Elayn Martin-Gay
MyMathLab.com **COURSE ID: brock18287**

**COUSE DESCRIPTION**: MAT 152B is a continuation of MAT 152A. Topics covered will include factoring, solving equations with rational and radical expressions, systems of linear equations, and solving quadratic equations. **Calculators are NOT allowed in this class!**

**STUDENT OUTCOMES**: The successful student will:

1. exhibit a proficiency in the topics covered in the course.
2. engage in logical and critical thinking.
3. read technical information.
4. demonstrate the solution to problems by translating written language into mathematical statements, interpreting information, sketching relevant diagrams, analyzing given information, formulating appropriate mathematical statements, and checking and verifying results.

**PREREQUISITE:** Grade of C or better in Math 152A or qualifying score on Math Assessment Test.

**GRADING POLICY**:

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|---|---|
| Homework (18 @ 12 pts) | 15% |
| Quizzes (15 @ 20 pts) | 20% |
| Exams (3 @ 200 pts) | 41% |
| Final (1 @ 350) | 24% |

**GRADING SCALE**:

| | |
|---|---|
| A | 90%-100% |
| B | 80%-89% |
| C | 70%-79% |
| D | 60%-69% |
| F | less than 60% |

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**EXAM POLICY**: Exams will be offered online (MyMathLab), in-the-lab, or in-class. Students are to bring pencils or pens, and paper to each exam. Grading will be based on progress towards the final answer, and the demonstration of understanding of the concept that is being tested; therefore, work must be shown in detail. The more you show me with steps and detail, the better your chances for partial credit. Students who complete the exam online are required to turn in their "shown work" during the next class. Any student who cannot make it to an exam may elect to take the exam up to two days before the exam is scheduled. If all homework assignments are turned in for the quarter, an no more than three assignments are late, then the exam with the lowest score will be counted as extra credit.

**MAKE-UP POLICY**: For **Exams and Final,** make-up is possible, but without a proven medical excuse, a 10% per day penalty will be given for each day the exam is taken late. … make arrangements prior to avoid penalties.

For **Homework,** you must show your work to get credit. Late homework is worth half credit and will **NOT** be accepted after **one week**, and **NO** homework will be accepted after the Final Exam. If you are doing the homework assignments online, you are required to turn in your "shown work" to receive credit. You can turn in your homework early if you know you are going to miss the class. You can consult a classmate, a tutor, your instructor, or anyone for assistance on the homework. *(but do not copy --- it will not benefit you and your learning.)*

**DAILY QUIZZES** The first five minutes of each class, there will be a quiz that covers the main point from the previous lecture. You will be given no more than 10 minutes to complete. Each quiz will count as 25% of you your homework grade. Quizzes **cannot** be made up and are in-class only.

**HOMEWORK POLICY:** Homework is due by the end of class or at midnight the day of class if being done online at MyMathLab. Feel free to consult a fellow classmate, a tutor, your instructor, or anyone else for assistance on the homework. Homework that is turned in within one week of the due date will be counted as half credit. Homework later than one week, points will not be awarded.

**CALCULATORS** The use of calculators is **not allowed** in this course. We will work with calculators towards the end of the quarter.

**LEARNING DISABILITIES:** If you have a learning disability, be sure to discuss your special needs with me during the first week of class. Learning disabilities will be accommodated.

**REGISTRATION:**

- You must register for this class at the Office of Admissions and Records.
- Friday, July 10; Last day to drop the class with no penalty or mark on your record.
- Monday, July 20; Last day to drop the class and receive a grade of W.
- After July 20, if you are enrolled, you will receive some kind of grade.

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**TUTORING**: Tutors are available at no cost in Math Success Center on a drop-in basis, Mon-Fri (hours: tba). More scheduling information will be posted in class as it is available.

**A WORD ON HONESTY:** Cheating or copying will not be tolerated. People who cheat dilute the honest effort of the rest of us. If you cheat on a quiz or exam you will receive an F for the course, not merely for the test. Other college disciplinary action including expulsion might occur. Please don't cheat in this class. If you are having difficulty with this course, please see me.

**LECTURE & HOMEWORK SCHEDULE:**

| Date | Section | Topic |
|---|---|---|
| Mon. 6/29 | Intro | Introductions & Syllabus; |
| | 2.5 | Review – Formulas & Problem Solving |
| | 4.1 | Solving Systems of Linear Equations by Graphing |
| Tue. 6/30 | 4.2, | Solving Systems of Linear Equations by Substitution |
| | 4.3 | Solving Systems of Linear Equations by Addition |
| Wed. 7/1 | 4.5, | Systems of Linear Equations and Problem Solving |
| | Review Chpt 4 | Chapter 4 Review |
| Thu. 7/2 | 6.1, | The GCF and Factoring by Grouping |
| | 6.2 | Factoring Trinomials of the Form ?$^{?}$ ? ?? ? ? |
| Mon. 7/6 | 6.3, | Factoring Trinomials of the Form ??$^{?}$ ? ?? ? ? and perfect square trinomials |
| | 6.4 | Factoring trinomials of the form ??$^{?}$ ? ?? ? ? by Grouping |
| Tue. 7/7 | 6.5, | Factoring Binomials |
| | 6.6 | Solving quadratic equation by factoring |
| Wed. 7/8 | 6.7, | Quadratic equations and Problem Solving |
| | Review | Exam 1 Review |
| Thur. 7/9 | **Exam 1** | **Exam 1 (2.5, 4.1- 4.3, 4.5, 6.1 – 6.7)** |

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|---|---|---|
| Mon. 7/13 | 7.1, 7.2 | Rational functions and simplifying rational expressions<br>Multiplying and dividing rational expressions |
| Tue. 7/14 | 7.3,<br>7.4 | Adding and Subtracting rational expressions with common denominators and LCD<br>Adding and Subtracting rational expressions with unlike denominators |
| Wed. 7/15 | 7.5,<br>7.6 | Solving equations containing rational expressions<br>Proportion and problem solving with rational equations |
| Thu. 7/16 | 7.7,<br>8.4 | Simplifying complex fractions<br>Variation and problem solving |
| Mon. 7/20 | 9.2,<br>9.3 | Absolute value equations<br>Absolute value inequalities |
| Tue. 7/21 | Review | Review for Exam 2 |
| Wed. 7/22 | **Exam 2** | **Exam 2 (7.1, - 7.7, 8.4, 9.2 – 9.3)** |
| Thu. 7/23 | 10.1, 10.2 | Radicals and Radical Functions<br>Rational Exponents |
| Mon. 7/27 | 10.3,<br>10.4 | Simplifying Radical Expressions<br>Addiding, Subtracting, and Multiplying Radical Expressions |
| Tue. 7/28 | 10.5,<br>10.6 | Rationalizing denominators and numerators of radical expressions<br>Radical equations and Problem Solving |
| Wed. 7/29 | 10.7,<br>Review | Complex Numbers<br>Review for Exam 3 |
| Thu. 7/30 | **Exam 3** | **Exam 3 (10.1 – 10.7)** |
| Mon. 8/3 | 11.1,<br>11.2 | Solving quadratic equations by completing the square<br>Solving quadratic equations by the quadratic formula |
| Tue. 8/4 | Final Review | Final Exam Review |
| Wed. 8/5 | **Final Exam** | **Comprehensive Final Exam**<br>(all studied sections including 11.1 – 11.2) |