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| *Approved: April 2015* | *Effective: FALL 2015* | |
| **MATERIAL TO BE COVERED** | **SECTIONS FROM TEXT** | **TIME LINE** |
| Exponents, order of operations. Absolute Value. Real numbers - operations and properties. Algebraic expressions. | 1.2, 1.4-1.7 | 3 Hours |
| Rules of exponents, scientific notation. | 2.1 - 2.4 | 3.5 Hours |
| Solving linear equations. Formulas. Applications of linear equations. Proportions and percent. Solving linear inequalities. | 3.1 - 3.8 | 10 Hours |
| **NOTE: Chapters 4 & 5 will be covered in Math 51B** |  |  |
| Operations with polynomials. Optional: review of rules of exponents. Optional: graphing basic polynomials. | 6.2 - 6.4 Optional: 6.1 | 4 Hours |
| Factoring - GCF, grouping, trinomials, differences of squares, sums and differences of cubes. Solving quadratic equations by factoring. Applications of quadratic equations. | 7.1 - 7.6 | 9.5 Hours |
| Rational expressions - fundamental property, operations. Complex fractions. Solving equations involving rational expressions. Applications of rational expressions. Direct and inverse variation. | 8.1 - 8.7 | 10 Hours |
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| 3-unit class: hours total 42.5 (15 x 2 hours 50 minutes) – hours for exams + 2.5 hour final This outline allows for 3 hours of exams. | | |
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| **\*\* Instructor Note: Students should be informed that upon the completion of Math 51B, they will have a comprehensive final covering Chapters 1 through 9.** | | |
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| Submitted by: Birca, Chavez, Khoddam, Kim, Nitta, Peng, Sun, Tamayo, Terreri, Vazquez Celaya, Wakefield  Math Department Policy can be found at: https://mtsac.instructure.com/courses/33990/files?preview=1988385 | | |