

## Course Syllabus: Intermediate Algebra (0320)

### Major Course Requirements:

- Homework: 20% of grade measured on correctness and quality of work
- Tests: 60% of grade measured on correctness and quality of work
- Final: 20% of grade measured on correctness and quality of work

### Course Learning Objective:

|   |   |
|---|---|
| 1 | Define, represent, and perform operations on real and complex numbers.  |
| 2 | Recognize, understand, and analyze features of a function.  |
| 3 | Recognize and use algebraic (field) properties, concepts, procedures (including factoring), and algorithms to combine, transform, and evaluate absolute value, polynomial, rational, and radical expressions. |
| 4 | Identify and solve absolute value, polynomial, rational, and radical equations.   |
| 5 | Identify and solve absolute value equations and inequalities.   |
| 6 | Model, interpret, justify mathematical ideas and concepts using multiple representations.   |
| 7 | Connect and use multiple strands in mathematical situations and problems, as well as in the study of other disciplines.   |

### General Subject Matter Topics:

| Week(s) | Topics  | Learning Objectives |
|---------|---|---------------------|
| 1-3     | Factoring Polynomials                           | 1, 3, 4             |
| 6-8     | Rational Expressions and Equations              | 1, 4, 6, 7          |
| 7-9     | Functions/Absolute Value Equations/Inequalities | 1-5                 |
| 10-15   | Radicals/Radical and Quadratic Equations        | 1, 3-7              |

### Campus Concealed Carry

Texas Senate Bill - 11 (Government Code 411.2031, et al.) authorizes the carrying of a concealed handgun in South Plains College buildings only by persons who have been issued and are in possession of a Texas License to Carry a Handgun. Qualified law enforcement officers or those who are otherwise authorized to carry a concealed handgun in the State of Texas are also permitted to do so. Pursuant to Penal Code (PC) 46.035 and South Plains College policy, license holders may not carry a concealed handgun in restricted locations. For a list of locations, please refer to the SPC policy at: ([http://www.southplainscollege.edu/human\\_resources/policy\\_procedure/hhc.php](http://www.southplainscollege.edu/human_resources/policy_procedure/hhc.php)). Also, pursuant to PC 46.035, the open carrying of handguns is prohibited on all South Plains College campuses. Report violations to the College Police Department at 806-716-2396 or 9-1-1.

### Disability Statement

Students with disabilities, including but not limited to physical, psychiatric, or learning disabilities, who wish to request accommodations in this class should notify the Disability Services Office early in the semester so that the appropriate arrangements may be made. In accordance to federal law, a student requesting accommodations must provide acceptable documentation of his/her disability. For more information, call or visit the Disability Services Office in Rooms 809 and 811, Reese Center Building 8, 806-716-4675

## **Diversity Statement**

In this class, the teacher will establish and support an environment that values and nurtures individual and group differences and encourages engagement and interaction. Understanding and respecting multiple experiences and perspectives will serve to challenge and stimulate all of us to learn about others, about the larger world and about ourselves. By promoting diversity and intellectual exchange, we will not only mirror society as it is, but also model society as it should and can be.