**VC College Preparatory Mathematics: Intermediate Algebra MATH 0303  
Syllabus Guidelines**

**Target Students:** Students who are entering the 12thgrade and have not demonstrated college-readiness as defined by HB5.   
A high priority are those who either did not take Algebra II or those who were not deemed college ready by taking the TSI Assessment   
while in Algebra II.

**Prerequisites:** Satisfactory performance in Algebra I, Geometry, the Algebra I EOC, and Transition to College Beginning Algebra (VC’s Math 0301). Students may show mastery of Transition to College Beginning Algebra (VC’s Math 0301) through Credit by Exam.

**Course Description as defined by Victoria College (VC):**Intermediate Algebra: Topics include the study of relations and functions, inequalities, algebraic expressions, and equations (absolute   
value, polynomial, radical, rational), with a special emphasis on linear and quadratic expressions and equations. Also included are   
factoring techniques, radicals, algebraic fractions, complex numbers, graphing linear equations and inequalities, systems of equations,  
and an introduction to functions. Emphasis is placed on algebraic techniques, in order to successfully complete Math 1314 College   
Algebra. Graphing Calculator use is *not* allowed in this course, including the departmental final examination. A VC Departmental   
Final Exam grade of 75 or higher indicates that the student has met the VC criteria for Math 0303, and the student is prepared for   
VC Math 0314 College Algebra without further assessment or remediation.

**Course Goal as defined by Victoria College:**

The goal of MATH 0303 is to prepare students for the study of Intermediate Algebra (MATH 0303), a course that builds the foundation for the study of College Algebra (MATH 1314).

**Course Goal Student Learning Outcomes & Learning Objectives as defined by Victoria College:**

Upon successful completion of this course, students will be able to:

1. Define, represent, and perform operations on real and complex numbers.

2. Recognize and use algebraic properties, concepts, procedures, and algorithms to combine, transform, and   
 evaluate absolute value, polynomial, radical, and rational expressions.

3. Identify and solve absolute value, polynomial, radical, and rational equations.

4. Identify and solve absolute value and linear inequalities.

5. Model, interpret and justify mathematical ideas and concepts using multiple representations.

6. Connect and use multiple strands of mathematics in situations and problems, as well as in the study of other  
 disciplines.

7. Recognize, understand, and analyze features of a function.

**Course Instructional Materials approved by Victoria College:**

**Textbook:** *College Algebra*, 11th edition, Gustafson and Hughes. ISBN 9781111990909  
 **Discounted Price: $49.00**

**Final Exam Policy approved byVictoria College:**

Victoria College will administer the VC Department Final Exam to VISD students. If a student scores at least a 75   
on the VC Final Exam, the student has met the VC criteria for Math 0303, and the student is prepared for VC Math   
1314 College Algebra without further assessment or remediation at Victoria College.