

# Pre-Algebra

**MATH 101 – 5 Credits – Jul/Aug 2011**



## Class Description:

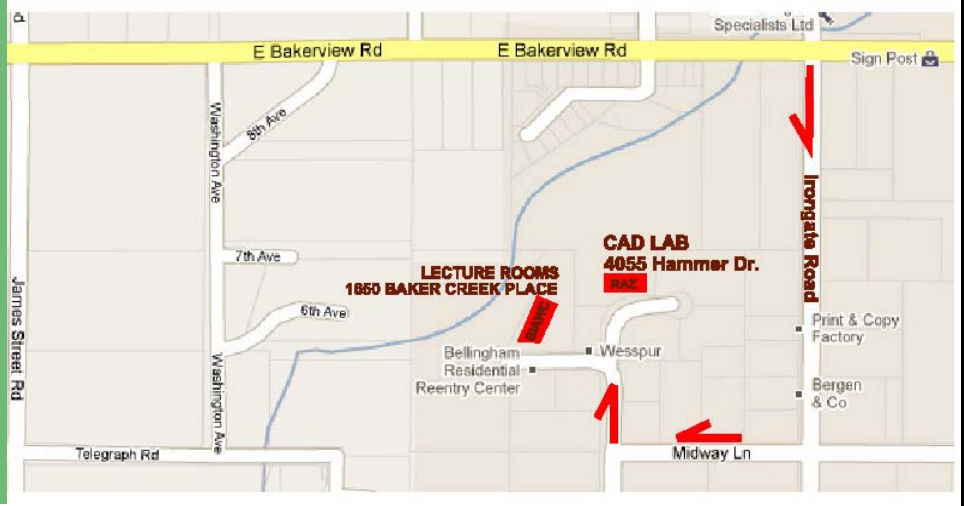
This class offers a review of algebra skills in preparation for Math 111. Topics to be covered include order of operations, factoring, inequalities, polynomials, exponents, scientific notation, algebraic equations, systems of equations, and quadratic functions. Students will gain an understanding of these mathematical tools in the context of practical problem solving.

## Location:

**BIAWC Building:**  
1650 Baker Creek Place  
Bellingham, WA 98226

### Directions:

East on Bakerview Road  
Turn right onto Irongate Road  
Turn right onto Midway Lane  
Turn right onto Hammer Drive  
Park in back of building



## Dates and Times:

The class is scheduled to run on **Tuesday and Thursday evenings at 6:00-9:00 PM from July 12<sup>th</sup> to August 25<sup>th</sup>** with a one week break at the midpoint. Please see the Class Calendar on the third page for course schedule and material.

## Tuition and Registration:

Tuition must be paid before the class begins. Program enrolled students have seniority for this class and should register online three-weeks before the class begins. Continuing education students may begin registering online two-weeks before the class begins. Students may also send class registrations by mail to the following address:

**Washington Engineering Institute**  
**Registration Office**  
**PO Box 483**  
**Custer WA 98240**

## **Class Materials Provided by the Institute:**

- **Text Book on Loan: Pre-Algebra** by Ron Larson, Published by McDougal Littell. ISBN: 0618250034. The textbook is owned by WEI and loaned to students. The textbooks must be returned at the end of class to gain a transcript grade. A fee of \$30 shall be paid for damaged, lost, or destroyed books.

## **Class Materials Provided by the Student:**

- **3-Ring Binder**
- **Scientific Calculator**
- **Engineering Paper**

## **Instructor**

### **Katherine Bren, EIT, MSE**

**Experience:** 8 years of experience in public and private civil engineering industry. Ms. Bren is currently the Registrar for the Washington Engineering Institute. In addition, Ms. Bren teaches math classes at the Institute.

**Education:** Master of Science in Engineering, University of Washington  
Bachelor of Science in Industrial Engineering, University of Washington

## **Format:**

**Class Structure:** Evenings will typically run in three one-hour blocks as follows:

6:00 PM – Class setup and first hour  
6:50 PM – Break  
7:00 PM – Class  
7:50 PM – Break  
8:00 PM – Class last hour

## **Final Exam and Grades:**

Students will be graded by attendance (40%), homework (40%), and final exam (20%). The Instructor holds the sole authority to issue grades and issues grades based on a 4.0 schedule as follows.

### **Grading legend**

4.0	A
3.7	A-
3.3	B+
3.0	B
2.7	B-

2.4	C+
2.0	C
1.7	C-
1.3	D+
1.0	D
0.7	D-

AU	Class audited with no grade earned
EXP	Experiential credit granted per policy
EDU	Prior education credit granted per policy
I	Incomplete – Instructor Allows Extra Time to Complete
W	Withdrawn from class

## July/Aug 2011 – Pre-Algebra –MATH 101

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
4	5	6	7	8	9	10
<b>No Class This Week</b>						
11	12 <b>6:00-9:00 PM</b> <b>Chapter 1</b> • Variables • Integers • Coordinate plane	13	14 <b>6:00-9:00 PM</b> <b>Chapter 2</b> • Distributive property • Simplifying Variables • Equations adding/subtracting • Equations mult/division	15	16	17
18	19 <b>6:00-9:00 PM</b> <b>Chapter 3</b> • Solving two step equations • Like terms • Inequalities adding/subtracting • Inequalities mult/division	20	21 <b>6:00-9:00 PM</b> <b>Chapter 4</b> • Factors • Greatest common factor • Least common multiple • Exponents • EET – Powers of Ten	22	23	24
25	26 <b>6:00-9:00 PM</b> <b>Chapter 5</b> • Rational numbers • Fractions adding/subtracting • Fractions mult/division	27	28 <b>6:00-9:00 PM</b> <b>Chapter 6 &amp; 7</b> • Ratios • Probability and Odds • Percents and Fractions	29	30	31

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Monday		Tuesday		Wednesday		Thursday		Friday		Saturday		Sunday	
1		2		3		4		5		6		7	
No Class This Week													
8		9	6:00-9:00 PM	10		11	6:00-9:00 PM	12		13		14	
		<b>Chapter 8</b> • Intercepts • Slope of a Line Slope Intercept Form				<b>Chapter 9</b> • Square roots • Pythagorean theorem • Right triangles Sine and Cosine Ratios							
15		16	6:00-9:00 PM	17		18	6:00-9:00 PM	19		20		21	
		<b>Chapter 10</b> • Triangles • Areas • Surface Areas Volumes				<b>Chapter 12 – Select Sections</b> • Polynomials add/subtract • Polynomials multiplication • Quadratic Functions Quadratic Equation							
15		16	6:00-9:00 PM	17		18	6:00-9:00 PM	19		20		21	
		<b>Chapter 13</b> • Angles and Polygons • Translations • Symmetry				<b>Final Exam</b>							
22		23		24		25		26		27		28	
No Class This Week													



PO Box 483  
 Custer WA 98240  
[admin@weiedu.org](mailto:admin@weiedu.org)  
 (360) 739-1428

## Class Registration Form 2010 v2.0

**Returning students with a Student ID do not need to fill out the gray portions of this form.**

<b>Name</b>	
<b>Address</b>	
<b>Phone</b>	
<b>Email</b>	

<b>Class Requested</b>	<b>MATH 101 – Pre-Algebra</b>
<b>Class Month / Date</b>	<b>July/Aug 2011</b>

**WAC 490-105-160 – State Licensed School Reporting Requirements:**

<b>Student ID #</b>		
<b>SSN #</b>		
<b>Date of Birth</b>		
<b>Gender</b>		
<b>Disability</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
<b>Race</b>	<input type="checkbox"/> American Indian or Alaska Native <input type="checkbox"/> Asian <input type="checkbox"/> Black/African American <input type="checkbox"/> Hawaiian Native or Pacific Islander <input type="checkbox"/> Hispanic <input type="checkbox"/> White/Caucasian <input type="checkbox"/> Multi-racial <input type="checkbox"/> Other	
<b>Prior Education</b>	<input type="checkbox"/> Less than high school graduation <input type="checkbox"/> GED <input type="checkbox"/> High School Graduate <input type="checkbox"/> Post H.S., no degree or certificate <input type="checkbox"/> Associate Degree <input type="checkbox"/> Bachelor Degree <input type="checkbox"/> Master or Doctorate Degree	GED Year _____ Graduation Year _____  Graduation Year _____ Graduation Year _____ Graduation Year _____
<b>Name of Last School Attended</b>		

\_\_\_\_\_  
**Student Signature**

\_\_\_\_\_  
**Date**