



**Gifted LearningLinks Program  
Enrichment  
Course Syllabus Template**

**Instructor name: Kelly Lewis  
E-mail address: xxx@xxx.xxx**

**Course Title: Pre-Algebra Preparation: Data, Statistics & Probability  
(Fall, Winter, Spring)**

**Session Date: Fall, Winter, Spring 2011-12**

**Course Description:**

Linked to the national core standards, this Pre-Algebra Preparation course provides a rigorous foundation in elementary mathematics. Through exploration, practice and application, students develop skills to deepen their understanding of mathematical ideas and apply them to real world settings.

*Notes:*

- Students may participate in any or all of these courses, beginning in any session.
- Completion of all three (see 164, 165, 166) prepares students for Pre-Algebra (see courses 167-169).

**Outcomes:** Upon successful completion of this course, students will:

- Know the basic types of graphs and understand how to create them and read them
- Understand how to conduct a sample and survey and how to interpret the results
- Know how to calculate mean, median, mode, and range
- Know the basic types of statistical graphs and understand how to create them and read them
- Understand how to determine number of outcomes using a tree diagram
- Understand how to find combinations and permutations
- Understand how to find probability and odds and the difference between probability and odds

**Resources and Materials:**

*Envision Math* (Grade 6)  
Author: Charles  
Edition: 2011  
Publisher: Prentice Hall School Division  
(textbook is optional)

**CTD Statement on Third-Party Web Sites**

While a staff member (which includes but is not limited to instructors, teaching assistants, residential staff, office staff) may use or refer students to third-party web sites

for instructional purposes, s/he is required to review thoroughly any such web sites for inappropriate content before referencing them. This includes clicking on all links contained in any such web site, reviewing the materials contained on every page within a web site, and ensuring that the web site does not provide links to other inappropriate web sites. If there is any doubt about whether something is appropriate, a staff member is instructed to err on the side of caution and not use the web site or check with a CTD supervisor. If a referenced third-party web site is later determined to contain inappropriate content, the staff member may be subject to discipline.

**Schedule:**

	<b>Topic/Focus</b>	<b>Activities &amp; Reading Assignments</b>	<b>What do I need to complete on Blackboard?</b>
<b>Week 1</b>	Data: Graphs	Introduction videos/links Interactive Activity Independent Practice (optional) Math Journal Course Portfolio Test	Interactive Activity Math Journal Test
<b>Week 2</b>	Data: Samples and Surveys	Introduction videos/links Interactive Activity Independent Practice (optional) Math Journal Course Portfolio Test	Interactive Activity Math Journal Test
<b>Week 3</b>	Statistics: Mean, Median, Mode, and Range	Introduction videos/links Interactive Activity Independent Practice (optional) Math Journal Course Portfolio Test	Interactive Activity Math Journal Test
<b>Week 4</b>	Statistics: Stem-and-Leaf plot, histogram, box-and-whisker plot	Introduction videos/links Interactive Activity Independent Practice (optional) Math Journal Course Portfolio Test	Interactive Activity Math Journal Test
<b>Week 5</b>	Probability: Outcomes and tree diagrams	Introduction videos/links Interactive Activity Independent Practice (optional) Math Journal	Interactive Activity Math Journal Test

	<b>Topic/Focus</b>	<b>Activities &amp; Reading Assignments</b>	<b>What do I need to complete on Blackboard?</b>
		Course Portfolio Test	
<b>Week 6</b>	Probability: Finding Combinations (permutations and combinations)	Introduction videos/links Interactive Activity Independent Practice (optional) Math Journal Course Portfolio Test	Interactive Activity Math Journal
<b>Week 7</b>	Probability: Probability and Odds	Introduction videos/links Interactive Activity Independent Practice (optional) Math Journal Course Portfolio Test	Interactive Activity Math Journal Test
<b>Week 8</b>	Course Project	Math Journal Course Project	Math Journal Course Project
<b>Week 9</b>	Course Portfolio	Math Journal Course Portfolio	Math Journal Course Portfolio

### **Student Evaluation and Grading Policies for Non-Credit Courses Only:**

Enrichment students will receive a final narrative evaluation after the course is complete.

### **Instructor Biographical list:**

- 5 years teaching in-person and online courses 5<sup>th</sup> to higher education.
- Online course designer for two years
- Bachelor of Science in Secondary Mathematics from Louisiana State University, 2005
- Master of Science in Curriculum, Instruction, and Assessment from Walden University, 2009

### **Contact Information:**

*The best way to reach me is by email: xxx@xxx.xxx*