CGCC Multiple Measures for New Students

As of April 2025

Writing

High School Course

	Grade	WR 121Z	WR 121Q	WR 115	WR 115Q
11TH or 12TH Grade Honors English	A	Recommended			
	B	Recommended			
	C		Required	Recommended	Required
	D or F	Not Recommended		Required	Required
	Grade	**WR 121Z**	**WR 121Q**	**WR 115**	**WR 115Q**
11TH or 12TH Grade English	A	Recommended			
	B	Recommended			
	C		Required	Recommended	Required
	D or F	Not Recommended		Required	Required
	Grade	**WR 121Z**	**WR 121Q**	**WR 115**	**WR 115Q**
10TH Grade English	A	Recommended			
	B	Recommended	Recommended		
	C		Required	Recommended	Required
	D or F	Not Recommended		Required	Required

High School GPA

	Grade	WR 121Z	WR 121Q	WR 115	WR 115Q
High School GPA	A: 4.0-3.3	Recommended			
	B: 3.2-2.7		Recommended		
	C: 2.6-2.0	Not Recommended	Required	Recommended	Required
	D or F: > 2.0			Required	Required

Smarter Balanced

	Score Range	CGCC Course	Coreq
Level 4	>2681	WR121	
Level 3	2589-2681	WR121	Recommended
Level 2	< 2680	WR115	Required

GED Test

GED Score	CGCC Course	Coreq
170	WR121	
160-169	WR121	Recommended
< 159	WR115	Required

ACCUPLACER

	Score Range	CGCC Course	Coreq
Writing	263+	WR121	
	251-262	WR121	Required
	250-261	WR115	Recommended
	< 250	WR115	Required

PLUS

Conversation with students about two different levels.

- WR115 level - focuses on essay structure: starts with thesis statements within the introductory paragraph, moves on to body and conclusion, having good transitions throughout, incorporating outside resources & writing in-text citations and Works Cited pages
- WR121 level - assumes students have a pretty solid understanding of essay structure and grammar; requires students to write drafts and essays every two weeks or so, incorporate feedback, and build on overall writing skills and style

Mathematics

High School Preparation

	Grade	Course(s)	Coreq
Pre-Calc	A/B	MTH 111Z/112Z/243Z/251Z	
	C or lower	MTH 95 or 105Z	Required
	Grade	**Course(s)**	**Coreq**
Algebra 2	A/B	MTH 105Z/111Z/243Z	
	C	MTH 105Z or MTH111Z	+Mth111Q
	C or lower	MTH 95	Required
	Grade	**Course(s)**	**Coreq**
Algebra 1	A/B	MTH 95	
	C or lower	MTH 95	Required

High School GPA

	Grade	Course(s)	Coreq
High School GPA	A: 4.0-3.3	MTH 111Z/112Z/243Z/251Z	
	B: 3.2-2.7	MTH 105Z/111Z/243Z	Recommended
	C: 2.6-2.0	MTH 95 or 105Z	Required
	D or F: > 2.0	Mth95	Required

Smarter Balanced

	Score Range	CGCC Course	Coreq
Level 4	>2681	MTH 111	
Level 3	2589-2681	MTH 111	Recommended
Level 2	< 2680	MTH 98	Required

GED Test

GED Score	CGCC Course	Coreq
170	MTH 111	
160-169	MTH 98	Recommended
< 159	MTH 98	Required

ACCUPLACER

	Score Range	CGCC Course	Coreq
Arithmetic	250-300	MTH 98	
	< 250	MTH 98	Required
	Score Range	**CGCC Course**	**Coreq**
Quantitative Reasoning/ Algebra	300-250	MTH 95 or 105	
	< 250	MTH 95	Required
	Score Range	**CGCC Course**	**Coreq**
Advanced Algebra/ Functions	276+	MTH 251	
	251-275	MTH 112	
	225-250	MTH 111 or MTH 243	
	200-224	MTH 95 or MTH 105	
	<199	MTH 95	Required

PLUS

Conversations with students about the different levels and their comfort with math.

Review course content (MTH 95 & 111 from LBCC):

MTH 95 (Intermediate Algebra) - Skills You Should Know

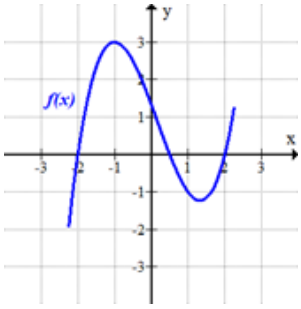
This may be the class for you if you have taken 2 years of Algebra recently. Many high school students start in Math 095.

In Math 95 you will learn all about functions. The concept of a function as well as linear functions, radical functions, polynomial functions, quadratic functions, and exponential functions. Students in 95 also learn function notation, finding domain and range, graphing. Math 95 students also learn to

work with exponents (positive, negative, zero, and fractional), factor polynomials, solve formulas for a specific variable, and convert units using dimensional analysis.

A Math 095 Student can **already** solve these types of problems.

1. The velocity of an Amtrak train is related to its stopping distance by the function: $v(d) = 0.8257\sqrt{d}$, where d is the distance in feet and v(d) is the velocity in miles per hour.
   a. Find the velocity of the train if it requires 1 mile to stop. Answer: 60 mph
   b. Find the distance the train would need to stop if it is traveling 80 mph. Answer: 9387 feet.
2. Use the function graph below to answer the following questions:



   a. Find f(-1)
   b. Find f(1)
   c. Find all values of x such that f(x)=0
   d. Find all values of x such that f(x)=3

Answers:

a. f(-1)=3 b. f(1)=-1 c. x=-1, 1/2,2 d. x=-1

3. Consider the following quadratic equation which describes the motion of a model rocket launch:$h(t) = -5t^2 + 85t + 2$, where h(t) is height in feet and t is time in seconds. What was the maximum height of the rocket and how long did it take the rocket to hit the ground? Answers: The maximum height was 363.25 feet. The rocket hits the ground after 17 sec.

4. A person inhales four copies of a virus and after each minute passes, the virus splits into three identical versions of itself. Create an exponential function that models this situation and estimate how long it will take for there to be one million copies of the virus.Answers: $f(x) = 4(3)^x$f(x); It will take approximately 11.3 minutes.

5. Simplify each expression: a. $\left(\frac{4x^{-2}}{6x^3}\right)^{-5}$ b. $(4u^2)^{3/2}$ c.$\sqrt[3]{-27x^{12}}$

Answers: a. (243x^25)/32 b. 8u^3 c. -3x^4

MTH 111 (College Algebra) - Skills You Should Know

This may be the class for you if you have taken at least two years of Algebra already and feel confident in your algebra skills.

Students in math 111 know how to solve all the following types of equations and how to work with their associated functions: linear, quadratics, higher degree polynomial, exponential, logarithms. They also know how to solve linear systems using matrices.

A Math 111 Student can **already** solve these types of problems:

1. Solve the following system of equations:

$$\begin{cases} 2x - 5y + z = -20 \\ -x + y - z = 6 \\ x - 3y = -11 \end{cases}$$

Answer x = -2, y=3, z=-1

2. $\log_2(x - 6) = 6$

Answer $x = 70$

3. Find all the zeros of the function $f(x) = 4x^3 + 8x^2 - 8x + 12$.

Answer x = -3, $\frac{1}{2} + \frac{\sqrt{3}}{2}i, \frac{1}{2} - \frac{\sqrt{3}}{2}i$

4. Find the inverse function of $f(x) = \sqrt{9x + 9}$.

Answer $x = \frac{x^2 - 9}{9}$