



Irmo High School  
International School for the Arts  
Pre-Calculus CP  
2019 - 2020



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**I. Course Description** Prerequisite: Algebra 1, Geometry College Preparatory and Algebra 2 College Preparatory (or Honors). This course is designed for students who have completed Algebra 2 at the college preparatory or honors level and who wish to experience a challenging introduction to college mathematics. The Pre-Calculus course content is rigorous, including an intense study of the following functions: trigonometric, polynomial, exponential, logarithmic, rational, and radical. Topics in conics, polar coordinates and parametric equations are included in the course content. This course requires the use of a graphing calculator. The course is intended primarily for students who will continue with Calculus or Advanced Placement Calculus AB. This course meets the state standards for Pre-Calculus.

**II. Fees & Explanation**

A fee of \$0 is assessed for this course.

**III. Textbook, Supplemental Resources and Needed Materials**

Pre-Calculus with Limits A Graphing Approach 6th Edition, Brooks/Cole Cengage Learning, ©2012  
TI – 84 graphing calculator (may borrow), 3-ring binder with notebook paper (or spiral notebook with separate folder to hold loose papers) and graph paper. **Bring a charged Chromebook to school!**

**IV. Course Grading Policies, Assessments, & Procedures**

- a. Student's grade is earned in three categories: Classwork/Homework /Take Home Quizzes (20%), Quizzes (35%), and Tests (45%)
- b. To calculate a weighted grade: Average each of the categories, for example.  
CW/HW/THQ Avg:  $90 \times 20 = 1800$   
Quiz Avg:  $80 \times 35 = 2800$   
Test Avg  $78 \times 45 = 3510$   
Add the scores:  $1800 + 2800 + 3510 = 8110$  then divide by 100 = 81%
- c. Classwork (CW) – Complete required independent problems before the end of class.  
Homework (HW) – Complete the remainder of problems for homework. Homework is not assigned for punishment, rather for practice. If you practice a skill, you will get better at it!  
Take Home Quizzes (THQ) - students receive a THQ each Friday we meet. It is due the following Thursday at the beginning of class. If turned in on Tuesday at the beginning of class, the student can earn +10 extra points.  
Quizzes are taken in class. Some may be electronic. Each quarter the students will have a chance to earn a way to drop their lowest quiz score for the quarter.  
Tests are taken in class and will cover material from the unit.
- d. Students do not have the option to redo or retake any assessments. Late work will receive a 20% deduction from the earned grade. A "No work? No credit!" policy applies. You must show work to justify your answers! Absent students may turn in work according to section V.
- e. South Carolina Grading Scale  
A (100 - 90) B (89 - 80) C (79 - 70) D (69 - 60) F (Below 60)

## **V. Absences and Make-Up Policy**

Students will be permitted to make-up work missed due to an absence. If the student misses 1 day, the make-up work must be completed within 2 school days. If the student misses 2 or more consecutive days, the make-up work must be completed within 5 school days. If circumstances dictate that the material which had been missed requires more time to be made up, the teacher will have the discretion to extend the deadline.

Students who miss a test, quiz, or other class work due to an absence will need to make up the work after school or at a time agreed upon with the teacher within five days of returning to school. If at all possible, a test or other major assignment missed due to a prearranged absence should be completed before the absence occurs.

Students are strongly encouraged to record all assignments, dates, and grades. Absent students are expected to check **EDMODO.COM** or ask a classmate to collect the assignments they miss. Ultimately, it is the student's responsibility to ensure that all work, especially assignments missed due to an absence, is completed in a timely manner.

## **VI. Classroom Expectations/ Classroom Management Plan**

**a.** Students are expected to complete assignments, participate in class through note taking, class discussions as well as occasional group work and independent work. I do expect students to be on time to class, wear their ID and adhere to District 5 dress code policy. I do expect students to be Respectful, Responsible & Reputable!

**b.** Electronic device expectations: The use of electronic devices (personal and chomebooks) will vary. Students who do not use their device accordingly will be referred to their administrator.

**c.** Every student has the right to learn! Therefore, if a student is disrupting the learning environment, I will give a verbal warning. If the behavior continues, I will contact the parent. If the situation does not improve, the student will be sent to his/her administrator.

**d.** Students: We now have Student Portal! Do you want to know your grade? You can now check the Student Portal (of course when appropriate). Do not ask me!!

**e.** Parents: The best way to contact me is through email. I usually respond within 24 hours. Also, please leave a phone number so that I can reach you ~ sometimes it is easier to discuss issues over the phone than typing them in an email. I do keep my grade book up to date! Please sign up for Parent Portal to stay informed on grades.

## **VII. Honor Code**

*In order to foster an environment of mutual trust & respect, we believe, within the community of School District 5 of Lexington & Richland counties, each individual should accept the personal responsibility to exhibit & promote academic & social integrity. (Policy IKABA) The Academic Honesty Policy is implemented to ensure students submit credible work that is evident of their content mastery. Students should complete their own work and be evaluated based upon its originality. Every effort should be made to avoid academic dishonesty and misconduct in all its forms, including plagiarism, fabrication or falsification, cheating, and other academic misconduct.*

## **VIII. Academic Assistance and Suggestions for Success**

Academic Assistance is available on Wednesday's from 3:45 – 4:45 (subject to change) Additionally, students may use the time provided during the school day, Extended Learning, on Mon, Tues, Thurs, Fri. from 11:28 - 11:57 to receive academic assistance from me. You can contact me through email or get a pass in advanced. Since I have lunch duty some weeks during ELT, I may not be available.

A Day	B Day	Days	Lesson/Topic
8/21	8/22	1	First Day Info
8/23	8/26	2	Parent Functions and Lines 1.1,1.2,1.3
8/27	8/28	3	Transformations/Even/Odd 1.4
8/29	8/30	4	Piecewise Defined Functions Chapter 1
9/3	9/4	5	Combining Functions 1.5
9/5	9/6	6	1-to-1 Functions, Inverses 1.6
9/9	9/10	7	More with Inverses 1.6
9/11	9/12	8	Review
9/13	9/16	9	<b>Test 1</b>
9/17	9/18	10	Quadratic Review 2.1
9/19	9/20 Int.	11	Applications
9/23	9/24	12	Polynomial Graphing 2.2,2.3
9/25	9/26	13	Remainder Theorem, Factor Theorem 2.3
9/27	9/30	14	Inequalities and Applications
10/1	10/2	15	More Inequalities and Applications
10/3	10/4	16	Review
10/8	10/9	17	<b>Test 2</b>
10/10	10/11	18	Rational Functions 2.6,2.7
10/14	10/15	19	More with Rational Functions
10/16	10/17	20	Solving with Rational Functions
10/18	10/21	21	More Solving including inequalities
10/22	10/23	22	Review
10/24 End of Q 1	10/29	23	<b>Test 3</b>

10/30	10/31	24	Exponential Functions 3.1
11/1	11/4	25	Logarithms 3.2
11/5	11/6	26	Properties of Logs 3.3
11/7	11/8	27	Solving Exponentials and Logs 3.4
11/11	11/12	28	Applications 3.5
11/13	11/14	29	Review
11/15	11/18	30	<b>Test 4</b>
11/19	11/20	31	What is a Radian/ Unit Circle 4.1,4.2
11/21	11/22	32	Arc Length/Area of a Sector 4.1
11/25	11/26	33	Introduction to all 6 trig functions, emphasis on domain, reference angles, reciprocal identities 4.2
12/2 Int.	12/3	34	Unwrap the Unit Circle/ Even/Odd Identities, Pythagorean Identities 4.5
12/4	12/5	35	More Graphs of Sine and Cosine 4.5
12/6	12/9	36	More with graphing 4.6
12/10	12/11	37	Quiz/Begin Exam Review
12/12	12/13	38	Exam Review
12/16	12/17	39	Exam Review
12/18	12/19	40	<b>Exam</b>
12/20 Winter Break	1/6	41	Graphs of Other Trig Functions 4.6
1/7	1/8	42	More Graphing
1/9	1/10	43	Review
1/11	1/14	44	<b>Quest 5</b>
1/15	1/16 End of Q2	45	Right Triangle Trig 4.3

1/17	1/21	46	Inverse Trig 4.7
1/22	1/23	47	More Inverse Trig 4.7
1/24	1/27	48	Applications
1/28	1/29	49	Review
1/30	1/31	50	<b>Test 6</b>
2/3	2/4	51	Using Fundamental Identities 5.1
2/5	2/6	52	Verifying Identities 5.2
2/7	2/10	53	Solving Trigonometric Equations 5.3
2/11	2/12	54	More Solving Trigonometric Equations 5.3
2/13	2/14	55	<b>Quest 7</b>
2/18	2/19 Int.	56	Sum/Difference/Double Angle Identities 5.4
2/20	2/21	57	Solving Trigonometric Equations
2/24	2/25	58	Power Reducing Identities
2/26	2/27	59	Review
2/28	3/2	60	<b>Test 8</b>
3/4	3/5	61	Law of Sines 6.1
3/6	3/7	62	Law of Cosines 6.2
3/9	3/10	63	Area/Applications 6.3
3/11	3/12	64	Review
3/17	3/18	65	<b>Test 9</b>
3/19	3/20	66	Parametric Equations 9.4
3/21	3/22	67	Parametric Equations 9.4
3/25 End of Q3	3/26	68	Vectors in the Plane 6.3
3/4	3/5	61	Law of Sines 6.1

3/6	3/7	62	Law of Cosines 6.2
3/9	3/10	63	Area/Applications 6.3
3/11	3/12	64	Review
3/17	3/18	65	<b>Test 9</b>
3/19	3/20	66	Parametric Equations 9.4
3/21	3/22	67	Parametric Equations 9.4
3/25 End of Q3	3/26	68	Vectors in the Plane 6.3
3/27	3/30	69	More Vectors in the Plane 6.3
3/31	4/1	70	Review
4/2	4/3	71	<b>Test 10</b>

4/6	4/7	72	Conics: Circles and Parabolas 9.1
4/8	4/9 Holiday Spring Break	73	Ellipses 9.2
4/20	4/21	74	Hyperbolas 9.3
4/22	4/23	75	Systems
4/24	4/27	76	Review
4/28	4/29	77	<b>Test 11</b>
4/30	5/1	78	Binomial Theorem 8.4
5/4 Int	5/5	79	More Binomial Theorem
5/6	5/7	80	Complex Numbers
5/8	5/11	81	Matrices
5/12	5/13	82	Matrices
5/14	5/15	83	Finding Limits Graphically

5/18	5/19	84	Finding Limits Algebraically
5/20	5/21	85	Continuous Functions and More Limits
5/22	5/26	86	<b>Quest 13</b>
5/27	5/28	87	Review for Exams
5/29	6/1	88	<b>Exam</b>
6/2	6/3	89	$\frac{1}{2}$ day
6/4	6/5	90	$\frac{1}{2}$ Day