



Irmo High School
International School for the Arts
Precalculus Honors
2017- 2018



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I Course Description

(from the district course catalog) This course meets state requirements for honors courses and is designed for students who plan to take AP Calculus. Course content includes a study of the following functions: trigonometric, polynomial, exponential, logarithmic, rational, radical, and other primary functions. Sequences and series, topics in conics, polar coordinates and parametric equations are included in the course content. This course requires the use of a graphing calculator. This honors course exceeds the state standards for Pre-Calculus in accordance with the honors policy. The course is intended primarily for students who will continue with Advanced Placement Calculus.

Course Standards Link: Scroll down to page 114 of the following document.

<http://ed.sc.gov/instruction/standards-learning/mathematics/standards/scccr-standards-for-mathematics-final-print-on-one-side/>

Students need a graphing calculator (not a CAS model). I recommend a three-ring binder because it offers maximum flexibility for organizing and retaining all materials

- The primary mode of instruction is lecture and demonstration followed by guided practice and assigned independent practice. Students may be called on to respond in class or to go to the board to work problems. If time permits, guided practice may be conducted with students working in pairs.
- Students are expected to take notes in class and to keep all notes, and handouts. Homework and classwork should be completed on paper and should not be done on the same sheet of paper as notes (so that if work is collected, you still have your notes). Homework should be your desk when the bell rings.
- All class notes, assignments and handouts are posted on the class website. Students who are absent should consult the website and (if at all possible) attempt the homework before returning to class.

II Fees & Explanation: No fee is assessed for this course.

III Textbook & Supplemental Resources: *Precalculus*, 4th edition by Robert Blitzer

IV Course Grading Polices, Assessments, & Procedures

South Carolina Grading Scale: 90-100 = A 80-89 = B 70-79 = C 60-70 = D 0-59 = F

Grades are computed using a points system. A student's average is obtained by dividing the total number of earned points by the total number of possible points. Tests, quizzes, and daily assignments are assigned a number of points based on the amount of material covered. Quizzes may be announced or unannounced. Homework is assigned daily and is checked periodically for completeness and quality. Final grades are computed according to school policy.

If a student scores less than 75% on a test or quiz, he or she will have an opportunity to retake that assessment for a maximum mark of 80%. (The 80% ceiling is to encourage students to make their best attempt on the first test instead of gaming the system for more study time.) Late homework is generally not acceptable because many times the homework is gone over in class and thus a student can no longer complete it as independent practice; however, at least one homework grade will be dropped each nine weeks. Assignments and class notes are available on the class website and every attempt should be made to complete assignments even when the student is absent.

V Absences and Make-Up Policies for Irmo High School

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 with 5 school days.

Students who miss a test or quiz due to a one-day absence from this class will be expected to make it up during the following class.

VI Classroom Expectations

[a] Rules

1. Be in your seat when the tardy bell rings with HW out.
2. Stay on task until the class is dismissed; hence, no phones, no earphones/earbuds, and no other unauthorized electronic device usage.
3. Listen and follow directions the first time.
4. Obey all school rules.

I reserve the right to clear calculator memory at any time.

Consequences

First time - Verbal warning
 Second time - detention with the teacher
 Third time - detention with the teacher and parent contacted
 Fourth time – Referral

[b] Electronic device expectations

You may use an electronic device only with permission for a specific academic purpose. If your phone or earbuds are visible during class, you will be assigned detention. Furthermore, do not charge your devices in the classroom.

VII Academic Assistance and Suggestions for Success

Students are strongly encouraged to come to me during Advisory (homeroom) time. Assistance is also available after school. The days for after school help will be announced in class and may change from time to time.

VIII The District Pacing Guide

The district pacing guide is attached to show the topics and the pace of the course.

Days	Lesson/Topic
1	First Day Info. Chapter 1 Review of Algebra 2 Main Topics
2	Parent Functions Piecewise Functions 2.1,2.2
3	Transformations, Average Rate of Change 2.4, 2.5
4	Combining Functions 2.6
5	1-to-1 Functions, Inverses 2.7
6	Catch Our Breath
7	Review
8	Test 1
9	Quadratic Review 3.1
10	Applications 3.1
11	Polynomials 3.2
12	Remainder Theorem, Factor Theorem 3.3
13	Inequalities and Applications
14	Review
15	Test 2
16	Rational Functions 3.7
17	More with Rational Functions 3.7
18	Review
19	Test 3

20	Exponential Functions 4.1,4.2 (honors: Natural Exponential)
21	Logarithms 4.3
22	Properties of Logs 4.4
23	Exponentials and Logs 4.5
24	Applications 4.6 (honors: Law of Cooling)
25	Review
26	Test 4
27	What is a Radian/ Unit Circle 5.1,6.1
28	Introduction to all 6 trig functions, emphasis on domain, reference angles, reciprocal identities 5.2
29	Even/Odd Identities, Pythagorean Identities 5.2
30	Graphs of Sine and Cosine 5.3
31	More with graphing 5.3
32	Review
33	Test 5
34	Graphs of other Trig functions 5.4
35	More graphing 5.4
36	Modeling with Graphs
37	Exam Review
38	Exam Review

39	Exams
40	More modeling (honors)
41	Review
42	Test 6
43	Inverse Trig 5.5
44	Inverse Trig 5.5
45	Simple Harmonic Motion 5.6 (honors)
46	Quest 7
47	Arc length, area of sector
48	Right Triangle Trig 6.2,6.4
49	Right Triangle Trig 6.2,6.4
50	Reference angles, coterminal angles 6.3
51	Evaluating Trig Functions
52	Review
53	Test 8
54	Trig Identities 7.1
55	Sum/Difference/Double Angle Identities 7.2,7.3
56	Power Reducing Identities 7.3
57	Solving Trig Equations, 7.4
58	More Solving
59	Review
60	Test 9
61	Law of Sines 6.5
62	Law of Cosines 6.6
63	Applications, Area
64	Review
65	Test 12

66	Polar Coordinates 8.1 (honors)
67	Polar Graphs 8.2 (honors)
68	More Polar Graphs (honors)
69	Review
70	Quest 11 Polar
71	Parametric Equations 8.3 (honors)
72	More with Parametric Equations (honors)
73	Review
74	Quest 12 Parametrics
75	Vectors 9.1
76	More Vectors
77	Quest 13 Vectors
78	Conics
79	Matrices
80	Matrices
81	Complex Numbers
82	More Complex Numbers
83	Finding Limits Graphically 13.1 (honors)
84	Finding Limits Algebraically 13.2 (honors)
85	Continuous Functions and More Limits (honors)
86	Review Limits
87	Quest 15
88,89	Review for Exams
90	EXAM

