



Irmo High School
International School for the Arts
Precalculus Honors
2018- 2019



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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). Class instruction will be given on the TI-84.

- 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 should be your desk when the bell rings. Homework will be assessed by brief quizzes each day.
- 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* (Stewart, 2010)

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 will be assessed by brief quizzes. Final grades are computed according to school policy.

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 Material Covered

First nine Weeks: Polynomials, rational functions, transformation of functions

Second Nine Weeks: Exponential and logarithmic functions, triangle trigonometry

Third Nine Weeks: Trigonometric and Inverse trigonometric functions, graphing trig functions

Fourth Nine Weeks: Polar functions, DeMoivre's Theorem, vectors in 2 and 3 dimensions