JOHN F. KENNEDY HIGH SCHOOL
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JFK.SCUSD.EDU
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HOME OF THE COUGARS

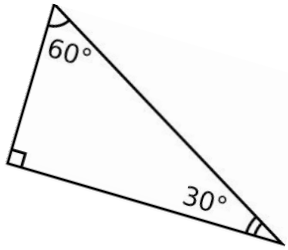
2019-2020 COURSE SYLLABUS

Integrated Mathematics II (Two semesters; 5 units each semester; 10 units total)

Math II continues students' study of topics from algebra, geometry, and statistics in a problem-centered, connected approach. Functions and algebraic representations of geometric concepts are the principal topics of study. Students will be expected to describe and translate among graphic, algebraic, numeric, tabular, and verbal representations of relationships and use those representations to solve problems. The new Common Core high school standards call on students to practice applying mathematical ways of thinking to real world issues, prepare students to think and reason mathematically, and emphasize mathematical modeling.

This program includes all the topics addressed in the CCSS Integrated Pathway: Mathematics II content map. These include:

- Extending the Number System
- Quadratic Functions and Modeling
- Expressions and Equations
- Applications of Probability
- Similarity, Right Triangle Trigonometry, and Proof
- Circles With and Without Coordinates



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Textbook: Common Core State Standards, Mathematics II, Integrated Pathway Walch

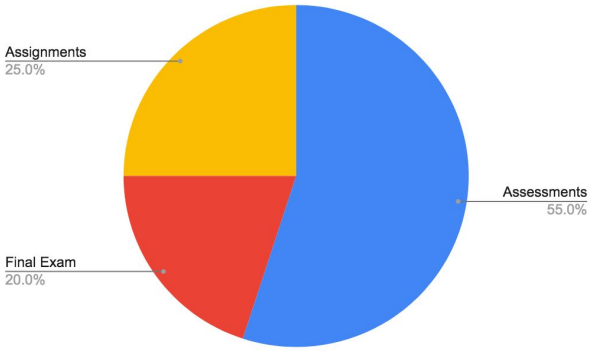
Required Materials: Pencils, colored pencils, highlighters, and a dedicated binder or tabbed section of a binder and loose leaf paper. No work will be accepted that is bound in or torn from a notebook.
Students may use a calculator in class if they exchange it for their Student ID or bring their own.
Rulers, compasses, protractors, and some other supplies are available for class.

Grading Policy Grades are based on demonstrated mastery of concepts and development of skills, not effort or potential. *A major component of your grade is determined by your results on exams and quizzes.* Progress reports are available on scusd.edu in Infinite Campus. Student overall performance is determined by exams (including final exam) and quizzes as well as assignments, which comprises homework (based on work collected), in class assignments (based on work collected such as worksheets, activities), and projects. *Assignments are a guide as to what is most important and what will be tested.* Assignments are given daily. Students not actively engaged in assignments and study will not be as successful. Planning your study should include a minimum hour of quality time daily. The math department complies with district protocol, viewable at scusd.edu. Make-up work/tests are the students' responsibility and may not be allowed without a valid re-admit, or excused absence.

GRADING SCALE

90% - 100%	A
80% - 89.9%	B
70% - 79.9%	C
60% - 69.9%	D
0 % - 59.9%	F

Category grades are weighted below:
55% Assessments (Tests, Quizzes, and some Projects)
20% Final Exam (One final for each Semester)
25% Assignments (Daily Practice, Warm-ups, and Exit Slips to assess your progress)



MAKE-UP POLICY FOR ABSENTEEISM: When a student is absent, it is his/her responsibility to find out what assignments, activities and notes were missed and make up that work promptly. Typically one day is allowed for each day absent). Since class activities can never be duplicated exactly, do not miss class if at all possible.

Course Objectives :
Students will acquire and demonstrate knowledge of the concepts, definitions and properties required to meet the Integrated Mathematics II standards. Students will develop critical thinking and decision-making skills by connecting concepts to practical applications needed to be productive members of society. All students are expected to demonstrate the following objectives:

- Students should be able to work with functions represented in a variety of ways: graphical, numerical, analytical, or verbal.
- Students should understand the connections among these representations.
- Students should be able to communicate mathematics both orally and in well-written sentences and should be able to explain solutions to problems.
- Students should be able to model a written description of a physical situation with a function.
- Students should be able to handle a faster and more rigorous curriculum with an expectation of higher-level thinking.
- Students should be able to use technology (scientific calculators and graphing software) to help solve problems, experiment, interpret results, and verify conclusions.
- Students should be able to determine the validity of solutions, including sign, size, relative accuracy,and units of measurement.

Academic Expectations:

- Attendance – this course is very collaborative and participatory. So, being in class is essential.
- Work Ethic – in addition to attendance, you will be required to work with a group and participate enthusiastically and constructively.
- Prepare for class- do all assigned reading or work for upcoming class discussions and activities.

ACADEMIC DISHONESTY: Academic dishonesty is considered a serious offense in any class. Students cheating will receive a zero grade for that assignment. I encourage collaboration on all practice assignments but I expect the work you submit (assignments, projects, exam/quiz, etc.) to be your own.

Behavioral Expectations (See JFK Student Handbook for details.):
CLASSROOM RULES: The following few rules guide classroom behavior and activity.

- If you make a mess, clean it up, but avoid making messes.
- If you move something, put it back where it belongs.
- If you need classroom materials, get them yourself without disruption.
- Respect all people in the classroom, whether it is the teacher, a student, or someone else.
- A Class Pass will be available. One person may use it at a time for five minutes, and if you abuse the pass, you will be restricted in using it. Do not use it every day or take too long.

ELECTRONIC DEVICES: Personal electronics (music devices, cell phones, etc.) are to be turned completely off and away with exceptions for appropriate cell phone usage as discussed during class. Other technology will be available for class applications.

Extra Help: Bring your questions at lunch or let me know when you are coming after school.