JOHN F. KENNEDY HIGH SCHOOL
6715 GLORIA DRIVE SACRAMENTO CA 95831
JFK.SCUSD.EDU
916.395.5090
HOME OF THE COUGARS

2023 - 2024 COURSE SYLLABUS

DEPARTMENT OF MATHEMATICS

1.	**COURSE NUMBER, TITLE, UNITS AND PRINCIPAL/DEPARTMENT APPROVED DESCRIPTION**	
	MIS201 - Integrated Mathematics II (Two semesters; 5 units each semester; 10 units total)	
2.	**GENERAL INFORMATION**	
	Term and year:	Fall 2023 - Spring 2024
	Instructor:	Mr. James Lam
	Class Room:	T5
	Phone number:	395 - 5090 x506805
	E-mail address:	James-Lam@scusd.edu
3.	**TEXTBOOKS AND/OR RECOMMENDED OR REQUIRED READINGS**	
	CCSS Mathematics II Integrated Pathway, by Walch, J. Weston (Walch, ME; 2015)	
4.	**GENERAL OVERVIEW**	
	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.	
5.	**COURSE OBJECTIVES**	
	This program includes all the topics addressed in the CCSS Integrated Pathway: Mathematics II content map. These include (but are not limited to): • 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	

2023 - 2024 COURSE SYLLABUS

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 (graphing 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.

6. COURSE REQUIREMENTS, ATTENDANCE AND SPECIFIC 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 the District Web site 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 most likely fail the class*. Planning your study should include a minimum hour of quality time daily.
The math dept. complies with district protocol, viewable at www.scusd.edu. Make-up work/tests are student's responsibility and may not be allowed without a valid re-admit, or excused absence.

7. DESCRIPTION OF MAJOR ACTIVITIES/EXERCISES/PROJECTS

Instructional Strategies and Activities Include:
· Lecture on concepts and techniques
· Presentation/modeling of examples and strategies
· Large and small group discussions and explorations
· Reading and writing assignments
· Practice and learning through classwork and homework assignments
· Applications to demonstrate relevance and extend learning

2023 - 2024 COURSE SYLLABUS

	· Active student engagement in group work and discussions · Quizzes, and tests to encourage and monitor learning
8.	**GENERAL STATEMENTS**
	Students are expected to be familiar with and adhere to policies in the JFKHS Student Handbook. The student handbook identifies student rights, responsibilities, discipline rules and consequences, behavior, and other information for academic and social success. Student ignorance does not provide justification for failure to follow the information contained in the student handbook. All material submitted can be retained by the instructor. If you desire copies of any submitted materials, then duplicate copies for yourself before submission. The Principal reserves the right to modify and/or change the course syllabus as needed during the course. **ACADEMIC EXPECTATIONS:** • Attendance – Have good attendance whenever possible. If you must be absent for an extended period of time, contact me and keep updated through Google Classroom. • Work Ethic – You may need to work both individually and with a group and participate enthusiastically and constructively. It is bad form to leave your group hanging. • Prepare for class- Do all assigned work on time for upcoming class discussions and activities. **BEHAVIORAL EXPECTATIONS:** (See JFK Student Handbook for details.) **CLASSROOM BEHAVIOR EXPECTATIONS:** The following summarize important expectations for classroom behavior. Students are expected to: • attend class every day. • complete all assignments on time. • be seated and prepared for learning when the bell rings. • treat their classmates with respect; no put downs of any kind. • actively and positively participate in class. • pay attention IN class. teacher will not reteach material outside of class. • demonstrate personal responsibility, honesty, and integrity in all of their actions. **CLASSROOM RULES:** The following few rules guide classroom behavior and activity. • Follow teacher directions and requests immediately. • Keep your hands, feet, and other objects to yourself. • Remain seated unless you have permission to move about the classroom. • Respect the speaker, whether it is the teacher, a student, or someone else. • Students will sit in their assigned seats during class unless otherwise instructed. • Cell Phones off, or silenced. If you choose to listen to music, I hear it, I take it. • Electronic devices should be used for class purposes (see below) • There will be no eating during class. Drinks allowed in closed/capped containers. • NO Passes allowed during first/last 10 minutes of class.

JOHN F. KENNEDY HIGH SCHOOL
6715 GLORIA DRIVE SACRAMENTO CA 95831
JFK.SCUSD.EDU
916.395.5090
HOME OF THE COUGARS

2023 - 2024 COURSE SYLLABUS

ELECTRONIC DEVICES: (read carefully, this is my pet peeve)

It is suggested that electronics (music devices, cell phones, etc.) be turned completely off and away. Cell phones are *not* acceptable calculator devices and their use as such is not permitted under any circumstances.

If you must, please use your electronic devices to support your learning and have the good judgment not to use them for other purposes during class. Immediately put it away when asked until class is dismissed. If you are using your electronic devices inappropriately, I **will not ask** you to put it away. This is your first, last, and only warning.

Failure to adhere to this policy will automatically result in a "U" for your citizenship grade. Secondly, if there are any "retakes" of a quiz/test, you will not be entitled to it. In addition, any "extra credits" (non-HW) that you may be given will become null and void. Lastly, if you choose to waste your time in class, do **NOT** come to me for help outside of class (tutoring), seek help elsewhere.

COURSE REQUIREMENTS, ATTENDANCE AND GRADING POLICY:

Grading Scale:

89.5% - 100%	A
79.5% - 89.49%	B
69.5% - 79.49%	C
59.5% - 69.49%	D
0 % - 59.49%	F

55%	Tests, group tests, quizzes, other assessments, common unit exams
20%	Final Exam
25%	Participation in all class activities, and completion of assignments, warm-ups, practice, etc.
Up to 2%	Extra Credit added Participation/Assignments category

HOMEWORK AND STUDY: Homework and student study is an essential part of your education. Any student expecting to do well in this course should carefully read the text and do all the assigned work.

LATE SUBMISSION OR RESUBMISSION:
It is the student's responsibility to find out what assignments, activities, and notes were missed and make up that work promptly. Check Google Classroom. There is little to no penalty for late submission or resubmission if it is completed ***within one week*** of assignment due date. After that time, up to 80% of grade can be given; else, 50% of the grade will be given.

MAKE-UP TESTS/QUIZZES: Only allowed with an excused absence (must be cleared on IC). You will be allowed up to the amount of days you were out (unless other arrangements made with Mr. Lam). Otherwise, 50% will be given.

2023 - 2024 COURSE SYLLABUS

TESTS/EXAMS: A comprehensive test to measure students' mastery of skills and concepts will be given, as a minimum, at the end of each chapter/unit; mid-chapter tests and quizzes will also be given based on chapter content. Students will be informed of the comprehensive test date at least a week in advance. Unexcused absences before the test date do not excuse a student from taking the test as scheduled. Lastly, a comprehensive final must be taken at the end of each semester.

There are no test RETAKES. However, students will be given an opportunity of a REDEMPTION TEST, often outside of class time, to improve test scores. (at 90% original value, up to 25%)

CHARACTERISTICS OF QUALITY WORK: Using the following guidelines will help you master the Integrated Mathematics II objectives. Quality work has the following characteristics.

- Is complete with full solution. That is, all problems are completed or at least attempted.
- The supporting work for each problem is shown completely using proper algebraic conventions and notations.
- The work is done neatly.
- The work is done accurately.

CHARACTERISTICS OF A SUCCESSFUL STUDENT: Students that are successful in school generally exhibit the following traits:

- Is consistently present for class in body and spirit.
- Desires to learn the material presented.
- Uses time wisely.
- Does practice work, study, and test preparation faithfully.
- Asks thoughtful questions during class.
- Actively participates in class and gets extra help when needed.

2023 - 2024 COURSE SYLLABUS

ACADEMIC DISHONESTY: Academic dishonesty is considered a serious offense in my class. Students cheating will face serious consequences. Any such work will receive no credit, and cannot be made up. I encourage collaboration on all assignments but I expect the work you hand in (assignments, exam/quiz, etc.) to be your own.

Teachers value a lot of qualities: excellence, intelligence, courage, enthusiasm, maturity, a respect for others, perseverance, a sense of humor, confidence, open-mindedness, depth, kindness, etc...

The most important value is academic honesty.

If we tolerate academic dishonesty, we lose trust and credibility. The entire process of learning becomes a sham. Can anybody profess to be perfectly honest in every situation? Perhaps not. But when we work to preserve academic honesty, we create an environment where:

- Equity is preserved.
- We can trust what we say and do.

CHEATING / COPYING: A student uses another student's work (whether oral, written, or computerized) as a basis for figuring out how to complete their own work.

Some examples:

- copying homework assignments
- Using another student's assignment / project / response as a basis for forming their own ideas for completing an assignment / project (borrowing homework or projects for "inspiration")
- Use of any “AI” source (ChatGPT, etc.)
- Giving a student the opportunity to cheat or copy (either by actively giving an assignment, or by "leaving it there" for somebody to "discover.")

In short: "Understand together. Write it up alone. Think for yourself."

CALCULATOR USE AND EXPECTATION: A scientific calculator (preferably TI models) is necessary for this course. A graphing calculator is <u>not</u> necessary for this class (and may not be allowed on many tests). The calculator is a tool to aid in learning concepts, not just a means of computation. Scientific calculator (not graphing calculators) use will be allowed on tests and quizzes during the year. Absolutely no cell phones will be allowed on tests as calculators. DESMOS is a good website/app, but will not be able to be used on assessments.