



EAP Senior Year Mathematics (QRAT)

School district teachers have partnered with faculty from Sierra Community College and California State University Sacramento as well as the Placer County Office of Education to develop an Early Assessment Program (EAP) Senior Year Mathematics (QRAT) course. The purpose of this course is to provide a post-Algebra 2 or Math 3, college preparatory mathematics experience so that students enter college ready for college-level math without remediation. Most classes will be done in collaborative group settings, solving real-world problems, using a variety of methods to lead students to self-discovery. This makes students the facilitators of their own education, and collaboration is shown to significantly contribute to a positive, meaningful, and memorable learning experience.

Pre-requisites: Students must have passed Algebra 2 or Math 3 both semesters.

Samantha Walker (Room C307)

Samantha-Walker@scusd.edu (916)395-5090

Please see Infinite Campus for more course information: <http://www.scusd.edu>

Textbook: There is no textbook. Materials will be provided as they are assigned.

Required Materials: paper; pencil

Suggested Materials: 3-ring binder; graph paper; scientific or graphing calculator

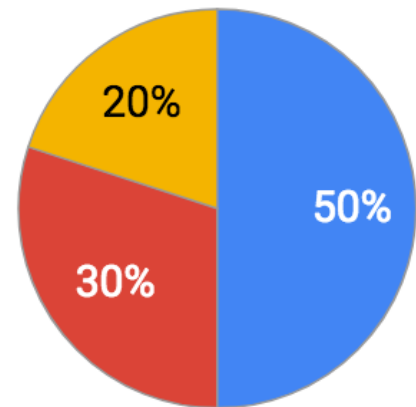
Grading Policy

GRADING SCALE

90% - 100%	A
80% - 89.9%	B
70% - 79.9%	C
60% - 69.9%	D
50% - 59.9%	F

Weighted Grade Categories

- Journals and Quizzes
- Projects and Unit Tests
- Class Activities and Homework



JOURNALS AND REWRITES: Journals the largest proportion of the grade since they encourage growth in communication of math in a precise way. They are done in class after the end of each section. Therefore, if a student earns an unsatisfactory grade on a journal entry, he or she has one opportunity to rewrite it for full credit. All other grades are final.

MAKE-UP POLICY FOR ABSENTEEISM: When a student is absent, it is his/her responsibility to find out what assignments and notes were missed and make up that work promptly (typically 1 day is allowed for each day absent). Since class activities can never be duplicated exactly, and you will be journaling mostly about class activities, do not miss class if at all possible. It is important to communicate with me if you expect multiple absences.

Course Outline:

The teacher serves as a facilitator or guide for students to direct their own learning.

- Daily review
- Daily number sense including mental math, number talks, and open-middle problems
- Daily learning through exploration, solving, and discussion in collaborative groups
- Daily exit slip to evaluate learning
- Detailed journal entries following each section (2 to 3 weeks). Rubrics are provided.
- Assessments (Unit tests)



The course is divided into eight sections with the following titles.

Semester 1	Semester 2
Unit 1: Developing Mathematical Practices*	Unit 6: Inverse Function*
Unit 2: Algebraic Foundation for Higher Math*	Unit 7: Piecewise and Non-Invertible Functions
Unit 3: Complex Numbers	Unit 8: Matrices and Linear Programming*
Unit 4: Polynomial and Rational Functions	Unit 9: Economic Applications (The best part!)*
Unit 5: Intro to Concepts of Calculus*	

*These units are the main focus of the mathematical topics in QRAT.

Course Goals :

- Ignite passion to learn
- Create problem identifiers & problem solvers while developing reasonability & number sense.
- Build a foundation for the future
- Be able to communicate mathematically in various ways.
- Test into college level mathematics
- Work as part of a collaborative team in a variety of situations.

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.
- Journal – reflecting on your learning and thinking is a very important component of this class and an essential component to a successful college experience.
- Homework – there minimal homework UNLESS you are unable to finish your in class activities or journal prompts... in which case you may finish for homework. However, if you use this option as a way of not participating in class, you and your teammates will lose points.

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

Behavioral Expectations:

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 the speaker, whether it is the teacher, a student, or someone else.

ELECTRONIC DEVICES: 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: Tutoring will be by appointment or drop-in when available.