

Name of Course: Summer Mathematics Institute      Grade Level(s): -9-10

**Brief Course Description:**

This 5 elective credits (9 days) Summer Mathematics Institute (SMI) prepares and supports students to excel in high school courses in mathematics and to plan for college and career. The curriculum for this course was designed by California State University, Office of the Chancellor. Instruction will be led using EdReady. The program uses data to identify existing knowledge gaps and creates a personalized study plan for each student that meets their personal academic needs. The program consists of live instruction that includes problem solving, STEAM activities, and engagement activities including campus tours and college readiness workshops.

Proposed By: Ed D'Souza/ Eva Serrato /Jermaine Magee      School: All high schools      Date: Jan 15, 2020

**The Following is Proposed for this Course:**

<input type="checkbox"/> Addition	<input type="checkbox"/> Revision	<input type="checkbox"/> A - G	<input type="checkbox"/> Deletion
<input type="checkbox"/> Required Course	<input type="checkbox"/> Content	<input type="checkbox"/> Honors	<input type="checkbox"/> Name of Course
<input checked="" type="checkbox"/> Elective	<input type="checkbox"/> Name Change	<input type="checkbox"/> Career Tech. Ed.	

**The Following Maximum Credits are Proposed for this Course:**

5 Units of Credit in (Subject Area): Elective or in:

**The Following Schools will Offer this Course:**

Carter High       Eisenhower High       Rialto High       Milor/Zupanich

**The Proposed Course will have the Following Budget Implication:**

Individual School Site: No costs associated with it.  
 District Level:  
 Total Estimated Cost:

**Approval Signatures for the Proposed Course:**

Printed Name	Signature	Title	Yes/No	Date
Jermain Magee		Submitting School Department Chair	<input type="checkbox"/> Yes <input type="checkbox"/> No	11-04-20
Dr. Greg Anderson		Carter High School Principal	<input type="checkbox"/> Yes <input type="checkbox"/> No	02-03-21
Frank Camacho		Eisenhower High School Principal	<input type="checkbox"/> Yes <input type="checkbox"/> No	02-03-21
Dr. Carolyn Sweeney		Rialto High School Principal	<input type="checkbox"/> Yes <input type="checkbox"/> No	02-03-21
Kyla Griffin		Milor/Zupanich High School Principal	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	02-03-21
Jeneen Stubblefield	Jeneen Stubblefield	District Math Curriculum Committee Chair	<input type="checkbox"/> Yes <input type="checkbox"/> No	11-04-20
Dr. Patricia Chavez		Curriculum Council Chair	<input type="checkbox"/> Yes <input type="checkbox"/> No	02-03-21

Approved by \_\_\_\_\_ Curriculum Committee on (Date): \_\_\_\_\_

Approved by Curriculum Council on (Date): \_\_\_\_\_

Approved by Rialto Unified School Board on (Date): \_\_\_\_\_

Approved by UC (or N/A) on (Date): \_\_\_\_\_



**Brief Course Description:** The 5 elective credits (9 days) Summer Mathematics Institute (SMI) prepares and supports students to excel in high school courses in mathematics and to plan for college and career. The curriculum for this course was designed by California State University, Office of the Chancellor. Instruction will be led using EdReady, a computer based program that assesses students' readiness for college math. The program uses data to identify existing knowledge gaps and creates a personalized study plan for each student that meets their personal academic needs. The program consists of live instruction that includes problem solving, STEAM activities, and engagement activities including campus tours and college readiness workshops.

**Course Goals:**

- Provide skills and techniques to improve students' knowledge of mathematics
- Improve students' knowledge and skills of quantitative reasoning
- Help to eliminate equity gaps
- Improve college readiness
- Design a personalized learning path for students to fill knowledge gaps
- Have students participate in team learning activities, STEAM projects, "and college knowledge "workshops"

**Main Components of the Summer Mathematics Institute (SMI) Program**

- Mathematics Instruction
- EdReady
- Team Building Activities
- STEAM Activities
- Culturally Relevant Instruction reflected through projects and activities
- College Knowledge Workshops and CSU Campus Visits

**Mathematics Instruction**

Students will get Math Instruction covering the Common Core Algebra Standards as well as the Standards of Mathematical Practice. This instruction is given by a math credentialed teacher.

**EdReady**

Is a math readiness system that employs a knowledge inventory to personalize a learner's path to subject mastery within the context of a specific educational goal. Goals may range from achieving greater success at grade level (e.g., 9th and 10th grade math), to planning for college and career opportunities, or preparation for commonly used placement examinations. The student experience in EdReady begins with a diagnostic to identify the learner's specific knowledge gaps. Then, a custom course of study is recommended for each student, focusing their efforts on

the areas needing the most attention and improvement. Additionally, supporting teachers and other personnel are provided with detailed information about each student's custom learning path, enabling them to provide directed and personalized support. As students meet or exceed their target scores, they will be directed toward additional resources to guide them on their way to greater academic and personal success.

### **Team Building Activities**

Team-building games and activities are a great tool for helping students learn to work together, listen carefully, communicate clearly, and think creatively. They also give your students the chance to get to know each other, build trust as a community and, enjoy mathematics.

### **Science Technology Engineering Art Mathematics (STEAM)**

STEAM activities will be employed to supplement classroom instruction and reinforce the real life application of mathematics. Students will participate in activities such as: gaming software, drone programming, coding, bridge building, case-studies, STEAM career exploration, etc.

### **Culturally Relevant Instruction Reflected through Projects and Tours**

Sites will design individual/group projects or activities to help students learn some elements of their historical cultural heritage as it relates to math.. Through these activities students will contextualize math genius and social application using inclusive historical and cultural references to support a sense of belonging in STEAM majors and professional fields.

### **College Knowledge Workshops and CSU Campus Tours**

Throughout the Summer Mathematics Institute (SAI) program, students will participate in college visits and tours, seminars, hands-on activities, and work on academic planning. The College Readiness curriculum will take place on Fridays, or a weekday mutually agreed by the local CSU campus. During this time, students will be introduced to college entrance requirements, career information and visit college campuses.