De Anza College Math 46 (Educ 46) – Math for Elementary Education

Instructor: Danny Tran Email: trandanny@fhda.edu

Welcome to Math 46! I'm excited to have you in this fully online, asynchronous course designed especially for future elementary and middle school teachers. In this class, you'll explore mathematics as a way of thinking—focusing on logical reasoning, problem solving, and understanding how math connects to real-world situations. You'll engage with topics like number systems, sets, and mathematical reasoning while also experiencing learning strategies you can use in your own future classrooms. The course includes a mix of discussion posts, homework, reflections, and exams, all structured to support your understanding at your own pace. Even though the course is asynchronous, you are not alone—please reach out if you need help, and take advantage of tutoring and support resources available to you. I'm looking forward to a great quarter working with you!

Course Description: This course is designed for prospective elementary and middle school teachers. It gives an introduction to the discipline of mathematics as the use of logical, quantitative, and spatial reasoning in the abstraction, modeling, and problem solving of real-world situations. The main topics in the course include the origins of mathematics, mathematical reasoning and problem-solving strategies, theory of sets, integers and integral number theory, rational numbers and proportion, real numbers and decimal notation, and measurement. Throughout the course students will experience the learning of mathematics in a way that models how they can create an active learning environment for their future students.

Book: *Mathematical Reasoning for Elementary Teachers* by Long (6th or 7th edition)

Grading:		
	Discussion Posts	55 points
	Homework	110 points
	Reflections	55 points
	Projects	120 points
	Exam	70 points
	Final Exam	90 points
	Total	**500 points**

Grades:

A	[93%, 100%]	B+	[87%, 90%)	C+	[77%, 80%)	D	[60%, 70%)
A-	[90%, 93%)	B	[83%, 87%)	C	[70%, 77%)	F	[0%, 60%)
		B-	[80%, 83%)				

Late Assignment Policy: If you are unable to complete an assignment on time, you may turn in homework up to 1 week late for half credit.

Disability Support Services: If you need disability support services, please email dss@deanza.edu, phone (408) 864-8838, or visit https://www.deanza.edu/dsps/dss/.

Need help with this course? Want to more personal connections this quarter? Student Success Center tutors and workshops are ready for you! Watch the SSC Welcome Video to learn more.
Tutoring: Go to http://deanza.edu/studentsuccess and click to join a Zoom tutoring room during open hours.

Workshops: Attend a Skills Workshop, a content-specific math/science workshop, an Accounting chapter review workshop, or a Listening and Speaking workshop.

Resources: Join the SSC Resources Canvas site to see content and learning skills links.
After-hours or weekend tutoring: See the Online Tutoring page for information about NetTutor (via Canvas) or Smarthinking (via MyPortal).
We know that students who participate in tutoring, group study, or workshops for three or more hours succeed at much higher rates than those who do not. The students who most need the help may reluctant, but they do participate if instructors encourage and incentivize them to use the resources in some way. Perhaps students can improve their grade on an assignment, quiz or exam if they show they did something extra to prepare, such as tutoring, workshop or study group.

We're here to help! Get in touch to schedule a class visit, or
arrange to bring your class to visit us in Zoom to see how it works.

Questions, comments, or suggestions? Contact Co-Directors Melissa Aguilar aguilarmelissa@fhda.edu or Diana Alves de Lima alvesdelimadiana@fhda.edu the appropriate SSC contact.

Student Learning Outcome(s):

• Analyze mathematical problems from elementary mathematics, apply problem solving techniques using a variety of methods, solve these problems individually and in groups, and communicate results mathematically through a variety of forms.
• Utilize ideas from number theory, distinguish types and properties of numbers, and employ mathematical rules for operating on rational and irrational numbers using verbal, symbolic, geometric, and numerical methods.
• Examine and evaluate myths and realities about the contemporary discipline of mathematics and its practitioners.
• Identify and discuss developments in the history of elementary mathematics from a variety of cultures.

Office Hours:

M,T,W,TH	8:40 AM - 9:30 AM	S16