



**Math 46.01Z – Mathematics for Elementary Education**  
**Meets: TTh, 1:30 PM to 3:45 PM**  
**Online classes via Zoom**

**Fall 2021**

<b>Instructor:</b> Lilit Mazmanyman	
<b>Contact:</b> <a href="mailto:mazmanymanlilit@fhda.edu">mazmanymanlilit@fhda.edu</a>	<b>Office hours:</b> Friday, 1:00 – 2:00 PM, online via Zoom (check Canvas for instructions)

Instructional method is **synchronous**. Lectures will be delivered online via Zoom during scheduled class times. Virtual breakouts will be used for group collaboration. Instructions how to connect Zoom lectures can be found on Canvas, which are accessible to you via **MyPortal** as you are enrolled in the course. You can also access Canvas using direct link (<https://deanza.instructure.com>) with your MyPortal login credentials. We will communicate via Canvas Inbox, discussion board, Zoom office hours, and emails. Check periodically Canvas announcements. Instructions to access in Zoom online classes and office hours can be found on our Canvas course. Information about Canvas and Online Education Orientation can be found in Canvas on the Student Resources page: <https://deanza.instructure.com/courses/3382>. The Student Online Resources hub with extensive information and tips can be found at [deanza.edu/online-ed/students/remotelarning](https://deanza.edu/online-ed/students/remotelarning).

**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.

**Requisites**

- *Prerequisite:* Intermediate Algebra (MATH 109, MATH 114 or MATH 130) or equivalent.
- *Advisory:* EWRT 211 and READ 211, or ESL 272 and 273.
- *Note:* Also listed as EDUC 46.

**Textbook**

Long, Calvin T., DeTemple, Duane W., Millman, Richard "Mathematical Reasoning for Elementary Teachers", 7th Edition.

**Calculator**

- You are allowed to use a scientific calculator.
- If you do not have calculator, you can use online calculator via website as DESMOS (<https://www.desmos.com>) or GeoGebra (<https://www.geogebra.org>).
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<b>Homework (HW)</b>	<ul style="list-style-type: none"> <li>• Homework is assigned each week due Sunday.</li> <li>• Homework must be completed and submitted online on Canvas.</li> <li>• After the due date/time, HW cannot be submitted for credit.</li> <li>• The lowest homework score will be dropped.</li> </ul>
<b>Group Work and Discussions (GWD)</b>	<ul style="list-style-type: none"> <li>• There are 4 group work and discussions.</li> <li>• GWD must be completed in groups of at least two and no more than four.</li> <li>• Topics and details will be discussed in class.</li> </ul>

<b>Research Paper (RP)</b>	<ul style="list-style-type: none"> <li>• Each student must submit a research paper on a contemporary or historical mathematical source.</li> <li>• Student must be ready to present the report orally.</li> <li>• It will be assigned in the middle of the quarter due end of the quarter.</li> </ul>																																								
<b>Quizzes (Q)</b>	<ul style="list-style-type: none"> <li>• There are 4 quizzes through Canvas.</li> <li>• Quizzes are timed and they are assigned on Thursday due Sunday.</li> <li>• NO MAKE-UP QUIZZES are given.</li> <li>• Missed quiz is graded as a zero (0).</li> <li>• The lowest quiz score will be dropped.</li> </ul>																																								
<b>Exams &amp; Final Exam (EX, FE)</b>	<p>There are 3 examinations through Canvas.</p> <ul style="list-style-type: none"> <li>• EX 1 &amp; 2 are one hour each and Final exam is two (2) hours.</li> <li>• EX 1 &amp; 2 and the FE dates are on the course schedule.</li> <li>• It is recommended to have ready one or two sheets of notes.</li> <li>• There are NO MAKE-UP examinations.</li> <li>• An absence from any examination earns a grade of zero (0).</li> <li>• You MUST take the final exam to pass the course.</li> </ul> <p>Check the announcements for instructions and follow the course schedule on Canvas.</p>																																								
<b>Grading</b>	<p>Students will be graded on homework (HW), group work and discussions (GWD), research paper (P), quizzes (Q), and exams (EX1 &amp; 2, FE).</p> <p><b>Distribution of weights for each category</b></p> <table border="1" data-bbox="427 1024 1143 1310"> <thead> <tr> <th>Category</th> <th>% Weight on Final Grade</th> </tr> </thead> <tbody> <tr> <td>Homework</td> <td>10 %</td> </tr> <tr> <td>Group Work and Discussions</td> <td>10 %</td> </tr> <tr> <td>Research Paper</td> <td>10 %</td> </tr> <tr> <td>Quiz</td> <td>10 %</td> </tr> <tr> <td>Exam 1</td> <td>20 %</td> </tr> <tr> <td>Exam 2</td> <td>20 %</td> </tr> <tr> <td>Final Exam</td> <td>20 %</td> </tr> </tbody> </table> <p><b>Grading Scale</b></p> <table border="1" data-bbox="427 1373 966 1520"> <tbody> <tr> <td></td> <td></td> <td>A</td> <td>94-100</td> <td>A-</td> <td>90-93</td> </tr> <tr> <td>B+</td> <td>87-89</td> <td>B</td> <td>83-86</td> <td>B-</td> <td>80-82</td> </tr> <tr> <td>C+</td> <td>77-79</td> <td>C</td> <td>70-76</td> <td>D</td> <td>60-69</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>F</td> <td>&lt;60</td> </tr> </tbody> </table> <p><b>Extra Credit</b></p> <p>During the course you will have opportunities for extra credits. There will be extra problems included in the coursework.</p>	Category	% Weight on Final Grade	Homework	10 %	Group Work and Discussions	10 %	Research Paper	10 %	Quiz	10 %	Exam 1	20 %	Exam 2	20 %	Final Exam	20 %			A	94-100	A-	90-93	B+	87-89	B	83-86	B-	80-82	C+	77-79	C	70-76	D	60-69					F	<60
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### Important Dates and Deadlines

<https://www.deanza.edu/calendar/>

<b>Monday</b>	<b>September 20</b>	First day of Fall Quarter 2021
<b>Saturday</b>	<b>October 2</b>	Last day to add classes
<b>Sunday</b>	<b>October 3</b>	Last day to drop classes with no record of "W" Last day to drop classes for full refund or credit

<b>Thursday</b>	<b>November 11</b>	Veterans Day holiday, no class
<b>Friday</b>	<b>November 12</b>	Last day to drop classes with a "W"
<b>Thursday-Sunday</b>	<b>November 25-28</b>	Thanksgiving holiday, no classes
<b>Tuesday</b>	<b>December 7</b>	Final examination

### Online Education Center

- [Student Resource Hub](#): Visit this site for tips, guides and answers to your questions about using Canvas, Zoom and other online learning tools that your classes may be adopting.
- [Staying Organized](#): This webpage has advice for planning and staying on top of your online coursework.
- [Canvas Help](#): Need technical support with Canvas? This page has information on how to get help.
- [More Student Resources](#): Visit this page for more links and tips.

### California Virtual Campus

- [Get Ready for Online Learning](#): This website has videos about getting "tech ready," managing your time, communicating with instructors and more.

### Student services and support

<https://www.deanza.edu/online-spring/#Services>

- Tutoring and Library Help
- Computers and Tech Products
- Internet Access
- Food and Financial Assistance
- Health and Psychological Services

### Attendance, Drops or Withdrawals

- Regular online attendance is essential for success in the course.
- You must not miss a class in the first week of the quarter or you will be dropped.
- A student who discontinues coming to class and does not drop the course will automatically receive a 'F' grade for the course.
- It is the student's responsibility to drop or withdraw from this course by the college deadlines.

### Academic Honesty and Discipline Policy:

Students are expected to abide by the DeAnza College Code of Conduct and not participate in academic dishonesty.

[https://www.deanza.edu/policies/academic\\_integrity.html](https://www.deanza.edu/policies/academic_integrity.html)

### Student Success Center

<http://deanza.edu/studentsuccess/mstrc/>

Hours of online Zoom Tutoring Center are Monday to Thursday 9:00-6:00 PM and Friday 9:00 AM-12:30 PM.

The SSC provides free tutoring services such as individual, drop-in, groups, in-class and workshops.

For individual tutoring, fill out a weekly individual application:

[http://deanza.fhda.edu/studentsuccess/mstrc/weekly\\_ind.html](http://deanza.fhda.edu/studentsuccess/mstrc/weekly_ind.html)

For group tutoring, contact to Helen at [nguyenhelen@deanza.edu](mailto:nguyenhelen@deanza.edu).

### Disability Support Services

<https://www.deanza.edu/dsps/dss/>

Students with disabilities who qualify for academic accommodations must provide a notification from the Disability Support Services (DSS) and discuss their specific needs with the instructor at the beginning of the quarter.

For information or questions about eligibility, support services or accommodations to disability (physical or learning disability) please contact Disability Support Services (DSS).

Phone number: (408) 864-8753

Email: [dss@deanza.edu](mailto:dss@deanza.edu)

**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.