

<b>Course Title: CAHSEE MATH</b>	<b>Course Description</b>
<p><b>Course No.</b> 4214                      <b>Grade level:</b> 9-12</p> <p><b>Text and Resources:</b>  <i>Meeting the California Challenge: Instruction and Practice for High School Students on the California Mathematics Content Standard;</i> Globe Fearon</p>	<p><b>Course Value:</b> *One Semester</p> <p><b>Credit Value:</b> 1 - 5</p>
<p align="center"><b>Course Content: Key Content Standards and Course Objectives</b></p> <ol style="list-style-type: none"> <li><b>1. Number Sense:</b> Students read, write, and compare rational numbers in scientific notation with approximate numbers using scientific notation (7-1.1), students add, subtract, multiply, and divide rational numbers (integers, fractions, and terminating decimals) and take positive rational numbers to whole-number powers (7-1.2), students convert fractions to decimals and percents and use these representations in estimations, computations, and applications (7-1.3), students calculate the percentage of increases and decreases of a quantity (7.1.6), students solve problems that involve discounts, markups, commissions, and profit and compute simple and compound interest (7.1.7)</li> <li><b>2. Algebra and Functions:</b> Students represent quantitative relationships graphically and interpret the meaning of a specific part of a graph in the situation represented by the graph (7-1.5), solve multistep problems involving rate, average speed, distance, and time or a direct variation.(7.4.2)</li> <li><b>3. Measurement and Geometry:</b> Students use measures expressed as rates and as products to solve problems; check the units of the solutions; and use dimensional analysis to check the reasonableness of the answer (7-1.3)</li> <li><b>4. Mathematical Reasoning:</b> Students analyze problems by identifying relationships, distinguishing relevant from irrelevant information, identifying missing information, sequencing and prioritizing information, and observing patterns (7-1.1) use estimation to verify the reasonableness of calculated results (7-2.1)</li> <li><b>5. Statistics, Data Analysis, and Probability:</b> Students compute mean, median, and mode of data sets (6-1.1), identify claims based on statistical data and, in simple cases, evaluate the validity of the claims (6-2.5), understand the difference between independent and dependent events (6-3.5).</li> </ol>	<p>This course will focus on meeting the California content standards in math. Students will develop skills in number sense; Algebra and functions; measurement and Geometry; statistics, data analysis, probability; and math reasoning.</p> <p>*Open entry/open exit</p>
<p align="center"><b>Methods of Study</b></p> <ol style="list-style-type: none"> <li>1. Students will complete all activities assigned.</li> <li>2. Students will participate in discussion with other class members and/or teacher.</li> </ol>	<p align="center"><b>Evaluation of Performance Standards</b></p> <ol style="list-style-type: none"> <li>1. Students will complete all assignments with a minimum of 70% accuracy.</li> <li>2. The supervising teacher will be satisfied with the quality of the student's work.</li> <li>3. The student must receive a minimum score of 70% on a teacher assigned final evaluation.</li> </ol>