**MATHEMATICS (FULL)  -  Content Knowledge**

**DIRECTIONS:** In order to meet the Content Knowledge Requirements candidates must show that they have had undergraduate or graduate coursework that fulfills the Domains of the Subject Matter Requirements (SMRs) as set down by the Commission on Teacher Credentialing. Using this form read the domains listed on the left. In the right-hand column, list the Course Number, title, and catalog description in which you think the domain outlined was covered. It must be a course that is on your transcript. It can be from a Community College or 4-year institution or a graduate school. Courses from Teacher Education programs cannot be included. Professional development courses do not count. It is very likely that you may list more than one course for each domain, it is preferable that you do so. It is also likely that one course may fulfill several domains. **You will need to include a copy of your transcripts (unofficial are acceptable) in your email.**

When complete, save the document titling it (last name)(first name)(Content area)(net id)2022 and send it to smc@csueastbay.edu . In the Subject Line of the email write “Content Knowledge (Last Name).”  If these conventions must be followed for your submission to be reviewed.

**Name**: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **Net ID**: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Undergraduate/Graduate Schools Attended**: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
  
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| **Content Area/Domains** | **List Course Number(s), Title(s) and include the catalog description. (All college/university catalogs are online and contain course descriptions. These are necessary especially for classes with generic names, eg Math 203: Intermediate Algebra)** |
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| **Domain 1: Number and Quantity:** Candidates demonstrate an understanding of number theory and a command of number sense as outlined in California Common Core Content Standards for Mathematics (Grade 6, Grade 7, Grade 8, and High School). Candidates demonstrate a depth and breadth of conceptual knowledge to ensure a rigorous view of number systems and its underlying structures. They prove and use properties of natural numbers. They formulate conjectures about the natural numbers using inductive reasoning and verify conjectures with proofs. (CSET Subtest 1) |  |
| **Domain 2: Algebra:** Candidates demonstrate an understanding of the foundations of algebra as outlined in the California Common Core Content Standards for Mathematics (Grade 7, Grade 8, and High School). Candidates demonstrate a depth and breadth of conceptual knowledge to ensure a rigorous view of algebra and its underlying structures. They are skilled at symbolic reasoning and use algebraic skills and concepts to model a variety of problem-solving situations. They understand the power of mathematical abstraction and symbolism. (CSET Subtest 1) |  |
| **Domain 3: Geometry:** Candidates demonstrate an understanding of the foundations of geometry as outlined in the California Common Core Content Standards for Mathematics (Grade 7, Grade 8, and High School). Candidates demonstrate a depth and breadth of conceptual knowledge to ensure a rigorous view of geometry and its underlying structures. They demonstrate an understanding of axiomatic systems and different forms of logical arguments. Candidates understand, apply, and prove theorems relating to a variety of topics in two- and three-dimensional geometry, including coordinate, synthetic, non-Euclidean, and transformational geometry. (CSET Subtest 2) |  |
| **Domain 4: Probability and Statistics:** Candidates demonstrate an understanding of statistics and probability distributions as outlined in the California Common Core Content Standards for Mathematics (Grade 7, Grade 8, and High School). Candidates demonstrate a depth and breadth of conceptual knowledge to ensure a rigorous view of probability and statistics and their underlying structures. They solve problems and make inferences using statistics and probability distributions. (CSET Subtest 2) |  |
| **Domain 5: Calculus:** Candidates demonstrate an understanding of trigonometry and calculus as outlined in the California Common Core Content Standards for Mathematics (High School). Candidates demonstrate a depth and breadth of conceptual knowledge to ensure a rigorous view of trigonometry and calculus and their underlying structures. They apply the concepts of trigonometry and calculus to solving problems in real-world situations. (CSET Subtest 3) |  |