



**CORRELATION  
SUNSHINE STATE STANDARDS**

**COURSE TITLE: Integrated Mathematics 3**

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**COURSE NUMBER: 1207330**

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**SUBMISSION TITLE: Contemporary Mathematics in Context, COURSE 3 © 2003**

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BENCHMARK	PAGE(S) OR LOCATION(S) WHERE TAUGHT
<b>1. Demonstrate understanding and use of the real and complex number systems.</b>	
MA.A.1.4.1 associate verbal names, written word names, and standard numerals with integers, rational numbers, irrational numbers, real numbers, and complex numbers.	<b>12, T26, T42, 231, 355, 401</b>
MA.A.1.4.3 understand concrete and symbolic representations of real and complex numbers in real-world situations.	<b>8, 23, 55, 137, 206, 509, 546</b>
MA.A.1.4.4 understand that numbers can be represented in a variety of equivalent forms, including integers, fractions, decimals, percents, scientific notation, exponents, radicals, absolute value, and logarithms.	110, <b>185-186, T217, 465, T521</b>
MA.A.2.4.1 understand and use the basic concepts of limits and infinity.	T221, 389, <b>528-529, 542</b>
MA.A.2.4.2 understand and use the real number system.	<b>T29, T37, 194, 270-271, 273, 275</b>
MA.A.2.4.3 understand the structure of the complex number system.	T231-232
<b>2. Operate on expressions and matrices and solve exponential and logarithmic equations.</b>	
MA.D.1.4.1 describe, analyze, and generalize relationships, patterns, and functions using words, symbols, variables, tables, and graphs.	<b>176, 178, T432, T485</b>

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MA.D.1.4.2 determine the impact when changing parameters of given functions.	15, 431, <b>465, 473, T485</b>
MA.D.2.4.1 represent real-world problem situations using finite graphs, matrices, sequences, series, <i>and recursive relations</i> . <sup>1</sup>	<b>268, 499, T510, 514, 516-518</b>
MA.D.2.4.2 use systems, of equations and inequalities to solve real-world problems graphically, algebraically, and with matrices.	<b>48, 60, T517-518, T548</b>
<b>3. Demonstrate an understanding of the geometry associated with relations and functions.</b>	
MA.C.2.4.1 understand geometric concepts such as perpendicularity, parallelism, tangency, congruency, similarity, reflections, symmetry, and transformations including flips, slides, turns, enlargements, rotations, and fractals.	<b>T303, 305-306, 321, 438, T485, 520-521</b>
MA.C.2.4.2 analyze and apply geometric relationships involving planar cross-sections (the intersection of a plane and a three-dimensional figure).	<b>T553-554</b>
MA.C.3.4.2 using a rectangular coordinate system (graph), apply and algebraically verify properties of two- <i>and three</i> -dimensional figures, including distance, midpoint, slope, parallelism, and perpendicularity.	<b>19, T47, 313, 325-327, 560</b>
<b>4. Apply trigonometry and the properties of similarity and congruence of triangles to problem solving situations.</b>	
MA.A.4.4.1 use estimation strategies in complex situations to predict results and to check the reasonableness of results.	<b>2, 346, 457</b>
MA.B.1.4.3 relate the concepts of measurement to similarity and proportionality in real-world situations.	<b>40, 43, 267, 298, 300-301, 309</b>
MA.B.2.4.1 select and use direct (measured) and indirect (not measured) methods of measurement as appropriate.	<b>26-27, 311, 313, T316</b>

<sup>1</sup> **The portions printed in italic type are not required for this course.**

Indepth = Bold text

Mentioned = Plain text

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MA.B.3.4.1 solve real-world and mathematical problems involving estimates of measurements, <i>including length, time, weight/mass, temperature, money, perimeter, area, and volume</i> and estimate the effects of measurement errors on calculations.	<b>40-42</b> , 322, 342, <b>556</b>
MA.C.3.4.1 represent and apply geometric properties and relationships to solve real-world and mathematical problems including ratio, proportion, and properties of right triangle trigonometry.	<b>26-27, 29</b> , 41, 44, 263, <b>308</b> , 320
<b>5. Demonstrate and understanding of fundamental trigonometric identities.</b>	
MA.C.1.4.1 use properties and relationships of geometric shapes to construct formal and informal proofs.	<b>29, 35</b> , 44, <b>245-246</b>
MA.D.1.4.1 describe, analyze, and generalize relationships, patterns, and functions using words, symbols, variables, tables, and graphs.	177, <b>428-430</b> , 444, <b>450</b> , 469
<b>6. Demonstrate understanding and apply appropriate measures of central tendency and variability.</b>	
MA.E.1.4.2 calculate measures of central tendency (mean, median, and mode) and dispersion (range, standard deviation, and variance) for complex sets of data and determine the most meaningful measure to describe the data.	<b>T246</b> , 367, <b>416-418</b> , T419
MA.E.1.4.3 analyze real-world data and make predictions of larger populations by applying formulas to calculate measures of central tendency and dispersion using the sample population data and using appropriate technology, including calculators and computers.	T147, <b>T158, T168, T384</b> , 418-419
MA.E.3.4.1 design and perform real-world statistical experiments that involve more than one variable, then analyze results and report findings.	<b>3, 140-141, 165</b> , 167, <b>349</b>

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MA.E.3.4.2 explain the limitations of using statistical techniques and data in making inferences and valid arguments.	<b>121-122, 161-162</b>
<b>7. Demonstrate understanding and apply permutations and combinations.</b>	
MA.E.2.4.1 determine probabilities using counting procedures, tables, tree diagrams, and formulas for permutations and combinations.	110, <b>411-412</b> , 415, 419
MA.E.2.4.2 determine the probability for simple and compound events as well as independent and dependent events.	266, <b>T405, T410</b> , 412