



Mathematics for College Liberal Arts (1207350) Year-at-a-Glance

Scope and Sequence 2024 - 2025

Please Note: All standards in the state course description are designed to be learned by the end of the course. This guide represents a recommended timeline and sequence to be used voluntarily by teachers for planning purposes. Specific question regarding when content will be addressed in a specific course are best answered by the individual teacher.

Course Resources

Publisher Resource:

Pearson "Mathematical Ideas" Miller, Heeren, Hornsby, Heeren

In Mathematics for College Liberal Arts, instructional time will emphasize five areas:

- (1) analyzing and applying linear and exponential functions within a real-world context;
- (2) utilizing geometric concepts to solve real-world problems;
- (3) extending understanding of probability theory;
- (4) representing and interpreting univariate and bivariate data and
- (5) developing understanding of logic and set theory.

Curricular content for all subjects must integrate critical-thinking, problem-solving, and workforce-literacy skills; communication, reading, and writing skills; mathematics skills; collaboration skills; contextual and applied-learning skills; technology-literacy skills; information and media-literacy skills; and civic-engagement skills.

All clarifications stated in the benchmarks, whether general or specific to Mathematics for College Liberal Arts, are expectations for instruction of that benchmark.



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Quarter 1 (August 12 – October 11)	Quarter 2 (October 15 – December 20)
<p>Unit 1: Linear Equations, Functions, and Models Students extend their understanding of equations to include inequalities in one and two variables.</p> <p>Unit 2: Algebraic Reasoning and Functions Students extend their understanding of solving and graphing exponential and logarithmic equations and functions in one and two variables.</p> <p>Unit 3: Financial Literacy Students will apply understanding of working with functions to financial literacy situations.</p>	<p>Unit 4: Geometric Reasoning Students extend their geometric understanding of geometric theorems and proofs, congruence and similarity and dimensional analysis.</p> <p>Unit 5: Trigonometry Students define and use trigonometric ratios, identities or functions to solve problems.</p>
Quarter 3 (January 6 – March 13)	Quarter 4 (March 24 – May 30)
<p>Unit 6: Set Theory Students will explore basic ideas of set theory, representing their learning both verbally and symbolically. Students will apply properties of set theory to solve problems.</p> <p>Unit 7: Logic and Discrete Theory Students will develop an understanding of the fundamentals of propositional logic, arguments, and methods of proof.</p>	<p>Unit 8: Data Displays Students extend their understanding of data analysis and probability by working with categorical and numerical data with one and two variables.</p> <p>Unit 9: Data Analysis and Probability Students will solve problems involving univariate and bivariate numerical data and use and interpret independence and probability.</p>