

MATH 2623 - Quantitative Reasoning

Fall 2026 Syllabus, Section 05, CRN 40501,

Credit hours: 3

Instructor

Alayne Leone

Email: amleone@ysu.edu

Public Instructor Information

Instructor Title: Alayne Leone

Instructor Professional Qualifications: *Master's, Mathematics, Youngstown State University*

Bachelor's, Mathematics, Youngstown State University

Instructor Office Location: Cafaro Hall Room 526

Instructor Office Phone: 330-941-1383

Course Description

2623. Quantitative Reasoning. Mathematics models emphasizing basic ideas in mathematics and statistics, stressing concept formation rather than manipulative skills. Prereq.: YSU Mathematics Placement Level 15 or higher. 3 s.h.

Course Readings

Group	Title	Author	ISBN
Required	Common Sense Mathematics (2nd Edition)	Ethan D. Bolker & Maura B. Mast	9781470461348

The course readings are subject to change in the event of extenuating circumstances, research developments, current events, and/or to ensure better learning.

Schedule of Topics and Assignments

Week of	Reading(s)	Proposed Topic	Due/To Prepare for Class
8/24	Chapter 1	Calculating on the Back of an Envelope	
8/31	Chapter 1	Calculating on the Back of an Envelope	
9/7	Chapter 2	Units and Unit Conversions	
9/14	Chapter 3	Percentages, Sales Tax and Discounts	
9/21	Chapter 4	Inflation	
9/28	Chapter 5	Average Values	
10/5	Chapter 5	Average Values	
10/12	Chapter 6	Income Distribution- Spreadsheets, Charts, and Statistics	
10/19	Chapter 7	Electricity Bills and Income Taxes- Linear Functions	
10/26	Chapter 8	Linear Functions	
11/2	Chapter 9	Compound Interest- Exponential Growth	
11/9	Chapter 10	Borrowing and Saving	
11/16	Chapter 11	Probability- Counting, Betting, Insurance	
11/23	Chapter 12	Break the Bank- Independent Events	
11/30	Chapter 13	How Good Is That Test?	
12/7	Finals Week		

The course schedule, policies, procedures, and assignments in this course are subject to change in the event of extenuating circumstances, by mutual agreement, and/or to ensure better learning.