

## MATH 2623 - Quantitative Reasoning

### Fall 2026 Syllabus, Section 14, CRN 43422,

Credit hours: 3

## Instructor

Richard Rappach

Email: [rsrappach@ysu.edu](mailto:rsrappach@ysu.edu)

## Public Instructor Information

Instructor Title: Instructor

Instructor Professional Qualifications: M.S. Youngstown State University

Instructor Office Location: Cafaro Hall, Room 609

Instructor Office Phone: 330-941-3302

## 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<br>Chapter 1 | Calculating on the Back of an Envelope<br>Calculating on the Back of an Envelope |                          |
| 8/31    | Chapter 2              | Units and Unit Conversions                                                       |                          |
| 9/7     | Chapter 3              | Percentages, Sales Tax and Discounts                                             |                          |
| 9/14    | Chapter 4              | Inflation                                                                        |                          |
| 9/21    | Chapter 5              | Average Values                                                                   |                          |
| 9/28    | Chapter 6              | Income Distribution- Spreadsheets, Charts, and Statistics                        |                          |
| 10/5    | Chapter 7              | Electricity Bills and Income Taxes- Linear Functions                             |                          |
| 10/12   | Chapter 8              | Linear Functions                                                                 |                          |
| 10/19   | Chapter 9              | Compound Interest- Exponential Growth                                            |                          |
| 10/26   | Chapter 10             | Borrowing and Saving                                                             |                          |
| 11/2    | Chapter 11             | Probability- Counting, Betting, Insurance                                        |                          |
| 11/9    | Chapter 12             | Break the Bank- Independent Events                                               |                          |
| 11/16   | Chapter 13             | How Good Is That Test?                                                           |                          |
| 11/23   | Chapter 13             | How Good Is That Test?                                                           |                          |
| 11/30   | Finals Week            | FINAL EXAM - 12/08/26 --- 8:00a.m. - 10:00a.m.                                   |                          |

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