

## MATH 2623C - Quantitative Reasoning with Co-Requisite Support

Fall 2026 Syllabus, Section 02, CRN 42510,

Credit hours: 5

### Instructor

Samuel Shannon

Email: sjshannon@ysu.edu

### Public Instructor Information

**Instructor Title:** Lecturer

**Instructor Professional Qualifications:**

Master of Science in Mathematics, Youngstown State University, 2025

Bachelor of Science in Mathematics, Pennsylvania Western (Clarion) University, 2023

Bachelor of Science in Education, Secondary Mathematics Education, Pennsylvania Western (Clarion) University, 2023

**Instructor Office Location:** Cafaro Hall 603

**Instructor Office Phone:** 330-941-1816

### Course Description

2623C. Quantitative Reasoning with Co-Requisite Support. Mathematics models emphasizing basic ideas in mathematics and statistics, stressing concept formation rather than manipulative skills. This course includes corequisite support for students requiring remediation in mathematics while studying quantitative reasoning. Emphasis for the support will be placed on prerequisite skills needed for MATH 2623 as well as just in time review through the use of appropriate technology. 5 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 6  | Income Distribution- Spreadsheets, Charts, and Statistics |                          |
| 10/12   | Chapter 7  | Electricity Bills and Income Taxes- Linear Functions      |                          |
| 10/19   | Chapter 8  | Linear Functions                                          |                          |
| 10/26   | Chapter 9  | Compound Interest- Exponential Growth                     |                          |

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|-------|-------------|-------------------------------------------|
| 11/2  | Chapter 10  | Borrowing and Saving                      |
| 11/9  | Chapter 11  | Probability- Counting, Betting, Insurance |
| 11/16 | Chapter 12  | Break the Bank- Independent Events        |
| 11/23 | Chapter 13  | How Good Is That Test?                    |
| 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.