

MATH 2623C - Quantitative Reasoning with Co-Requisite Support

Fall 2026 Syllabus, Section 19, CRN 43204,

Credit hours: 5

Instructor

Carey Childers

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Public Instructor Information

Instructor Title: Dr. Carey Childers

Instructor Professional Qualifications:

PhD Applied Mathematics, University of Akron, 2007

Masters Applied Mathematics, University of Akron, 2004

Bachelors Industrial and Systems Engineering, The Ohio State University, 1985

Instructor Office Location: Cafaro Hall

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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	Ch 1 & Co-req Homework, Discussion
8/31	Chapter 1	Calculating on the Back of an Envelope	Ch 1 & Co-req Homework
9/7	Chapter 2	Units and Unit Conversions	Ch 2 & Co-req Homework, Discussion
9/14	Chapter 3	Percentages, Sales Tax and Discounts	Ch 3 & Co-req Homework, Discussion
9/21	Chapter 4	Inflation	Ch 4 & Co-req Homework, Discussion
9/28	Chapter 5	Average Values	Ch 5 & Co-req Homework
10/5	Chapter 6	Income Distribution- Spreadsheets, Charts, and Statistics	Ch 6 Homework, Discussion, Exam 1
10/12	Chapter 7	Electricity Bills and Income Taxes- Linear Functions	Ch 7 Homework, Discussion, Project 1
10/19	Chapter 8	Linear Functions	Ch 8 Homework, Discussion, Project 2
10/26	Chapter 9	Compound Interest- Exponential Growth	Ch 9 & Co-req Homework
11/2	Chapter 10	Borrowing and Saving	Ch 10 & Co-req Homework, Discussion

11/9	Chapter 11	Probability- Counting, Betting, Insurance	Ch 11 Homework
11/16	Chapter 12	Break the Bank- Independent Events	Ch 12 & Co-req Homework
11/23	Chapter 13	How Good Is That Test?	Ch 13 Homework, Exam 2
11/30	Chapter 13	How Good Is That Test?	Ch 13 Homework, Discussion
12/7	Finals Week		Final Exam

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.