MATH 2661 - Mathematics for Elementary and Middle School Teachers 1

Fall 2026 Syllabus, Section 04, CRN 42009,

Credit hours: 4

Instructor

Michele Fredrick-Jacobson

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Public Instructor Information

Instructor Title: Mrs. Fredrick-Jacobson M.S.
Instructor Professional Qualifications: Master of Mathematics with a minor in computers
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Course Description

2661. Mathematics for Elementary and Middle School Teachers 1. A conceptual development of mathematics topics underlying today's elementary and middle school curriculum. The topics include number theory, operations, functions, and algebraic thinking. Emphasis on multiple approaches and representations, problem solving, and communication of mathematical reasoning. Includes inquiry-based experiences with manipulatives and computing technology. classroom activities developmentally appropriate for elementary and middle school children. Prereq.: At least Level 15 on the Mathematics Placement Test. 4 s.h.

Course Readings

Group	Title	Author	ISBN
Required	Problem Solving Approach to Mathematics for Elementary and Middle School Teachers - MyLab Access	Billstein, Rick	8220145718536

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	Week 1-5, Chapters 1,2,3	Problem solving, Growth Patterns, Logic Numeration systems, Set theory, and Operations of Whole Numbers and Whole numbers in different bases.	Reading Questions, Mathlab, Problem sets, Quizzes
8/31	Continue Chapters 1,2,3	Problem solving, Growth Patterns, Logic Numeration systems, Set theory, and Operations of Whole Numbers and Whole numbers in different bases.	Reading Questions, Mathlab, Problem sets, Quizzes
9/7	Continue Chapters 1,2,3	Problem solving, Growth Patterns, Logic Numeration systems, Set theory, and Operations of Whole Numbers and Whole numbers in different bases.	Reading Questions, Mathlab, Problem sets, Quizzes
9/14	Continue Chapters 1,2,3	Problem solving, Growth Patterns, Logic Numeration systems, Set theory, and Operations of Whole Numbers and Whole numbers in different bases.	Reading Questions, Mathlab, Problem sets, Quizzes

9/21	Review Chapter 1,2,3	Problem solving, Growth Patterns, Logic Numeration systems, Set theory, and Operations of Whole Numbers and Whole numbers in different bases.	Exam 1
9/28	Week 6-10 Chapters 4,5,6	Number Theory, Sets and Operations of Integers, and Introduction to Rational Numbers.	Reading Questions, Mathlab, Problem sets, Quizzes
10/5	Continuou Chapters 4,5,6	Number Theory, Sets and Operations of Integers, and Introduction to Rational Numbers.	Reading Questions, Mathlab, Problem sets, Quizzes
10/12	Continue Chapters 4,5,6	Number Theory, Sets and Operations of Integers, and Introduction to Rational Numbers.	Reading Questions, Mathlab, Problem sets, Quizzes
10/19	Continue Chapters 4,5,6	Number Theory, Sets and Operations of Integers, and Introduction to Rational Numbers.	Reading Questions, Mathlab, Problem sets, Quizzes
10/26	Review Chapters 4,5,6	Number Theory, Sets and Operations of Integers, and Introduction to Rational Numbers.	Exam 2
11/2	Chapter 6,7	Sets of Real numbers, fractions, decimals, percentages, ratio and proportional reasoning, functions	Reading Questions, Mathlab, Problem sets, Quizzes
11/9	Continue Chapter 6,7	Sets of Real numbers, fractions, decimals, percentages, ratio and proportional reasoning, functions	Reading Questions, Mathlab, Problem sets, Quizzes
11/16	Continue Chapter 6,7	Sets of Real numbers, fractions, decimals, percentages, ratio and proportional reasoning, functions	Reading Questions, Mathlab, Problem sets, Quizzes
11/23	Continue Chapter 6,7	Sets of Real numbers, fractions, decimals, percentages, ratio and proportional reasoning, functions	Reading Questions, Mathlab, Problem sets, Quizzes
11/30	Review Chapter 6,7	Sets of Real numbers, fractions, decimals, percentages, ratio and proportional reasoning, functions	Exam 3
12/7	Review For Final		

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