



MATH 246-02 (Mathematics for Elementary Teachers I)

Fall 2016

Meetings: MWF 1:00-1:50 P.M. (205 North Hall)
Tu 1:00-1:50 P.M. (161 Davee Library)

Office Hours: M & W 9-10; Tu 9-12
F 9-10, 2-3

Instructor: Keith Nabb

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Materials: *Mathematics for Elementary Teachers: A Conceptual Approach*, 6th Ed.,
by Albert B. Bennett & L. Ted Nelson

Note: A significant part of this class is arithmetic. Thus, you will not be allowed to use a calculator for some assignments/assessments.

Description: Course content will include problem solving, reasoning, sets, whole numbers, numeration, decimals, geometry, and measurement. Prerequisites: WPT Math Formula score of 40+, ACT Math score of 20+, or MATH 30

Course Grade:

- (a) Grades will be assigned according to the following scale:

Average	Grade
90 or above	A
80-89	B
70-79	C
60-69	D
59 or below	F

- (b) Homework: At the start of most class sessions, a classmate will work out a homework problem in detail (you will have plenty of prior notice). Participation in facilitating discussion and presenting your solution to the class is worth 10% of the term grade. Evaluation will be based predominantly on your ability to (1) articulate your understanding of the problem, and (2) answer questions (as opposed to just presenting an acceptable solution). For other questions we cannot do in class, please drop in to my office hours.
- (c) Exams: We will have two exams spaced apart by about five weeks. In the event of a low performance on a test, your Final Exam score (if higher than your lowest test) will replace your lowest exam score. The two 50 min exams will count for 25% of your grade. No make-ups are granted.
- (d) Labs: On (most?) Tuesdays, we will spend time in the computer lab using software to support our understanding of what we are learning in class. There will usually be a brief assignment to submit by the end of the period. Lab activity assignments will count for 25% of the term grade. Your lowest lab score will be dropped.
- (e) Paper Reflections: There will be two written assignments. The purpose of these assignments is to reflect on the teaching and learning of mathematics at the elementary

level. Specific criteria and due dates will be provided with each assignment. Each of these papers will count for 10% of the term grade.

- (f) **Final Exam:** There will be a comprehensive Final Exam worth 20% of the term grade. The Final Exam will take place on Wednesday, Dec 21 from 1:00 p.m.-3:00 p.m.

Math Center: The math help center is located in 145 North Hall. Drop in during their regular hours for extra help.

Academic Integrity: For any instances of academic misconduct (plagiarism, copying, using notes/formulas when not allowed, etc.) the office of Student Conduct and Community Standards will be called upon for assistance.

Teacher Content Standards: For detailed information on the teacher content standards for this course, visit the following page:

<https://www.uwrf.edu/MATH/WisconsinContentTeacherStandardsMathematicsCourses.cfm>.

Learning Environment: The UWRF promotes safe, inclusive and effective learning environments that protect the rights and support the interests of both students and faculty. For additional information regarding our inclusivity expectations, academic accommodations, academic conduct expectations and processes, and other syllabi information, please consult <http://go.uwrf.edu/Syllabi>.

1. The University of Wisconsin-River Falls strives to maintain our campus as a place of work and study for faculty, staff, and students that is free of all forms of prohibited discrimination and harassment. If you have concerns about such behavior, contact your instructor, the Office of Student Conduct and Community Standards at 715-425-0720, or the Office of Equity, Diversity, and Inclusion at 715-425-3833. For a list of prohibited behaviors and protected classes or to report something that is inappropriate using an online process, please use this form: <http://www.uwrf.edu/EquityDiversityInclusion/incident.cfm>.
2. The University of Wisconsin-River Falls welcomes students with disabilities into its educational programs, activities, residential halls, and everything else it offers. Those who will need academic adjustments or accommodations for a disability should contact the Ability Services Office. Decisions to allow adjustments and accommodations are made by the Ability Services Office on the basis of clinical documentation that students provide to sufficiently indicate the nature of their situation.

Course Calendar: The schedule that follows is tentative and may be adjusted during the semester to accommodate the needs of the course.

Week No./Week of	Topics Covered
1/Sept 5	Problem Solving Chapter 1
2/Sept 12	Problem Solving

	Chapter 1
3/Sept 19	Sets, Functions, and Reasoning Chapter 2
4/Sept 26	Sets, Functions, and Reasoning Chapter 2
5/Oct 3	Wrap Up Test 1
6/Oct 10	Whole Numbers Chapter 3
7/Oct 17	Whole Numbers Chapter 3
8/Oct 24	Number Theory Chapter 4
9/Oct 31	Number Theory Chapter 4
10/Nov 7	Wrap Up Test 2
11/Nov 14	Geometric Figures Chapter 9
12/Nov 21	Geometric Figures Chapter 9 Thanksgiving Recess Wednesday-Friday
13/Nov 28	Motions in Geometry Chapter 11
14/Dec 5	Motions in Geometry Chapter 11
15/Dec 12	Tessellations Semester Review
Finals/Dec 19	Final Exam Week: MATH 246 Wednesday, Dec 21 from 1:00 p.m.-3:00 p.m.