**MATH 247-02 (Mathematics for Elementary Teachers II)**          **Spring 2017**

**Meetings:** MWF 11:00-11:50 A.M. (205 North Hall)          **Instructor:** Keith Nabb
          Tu 11:00-11:50 A.M. (161 Davee Library)          **Office:** 206F North Hall
**Office Hours:** Mon/Fri Noon-12:50, 2-2:50          **E-mail:** keith.nabb@uwrf.edu
          Tue Noon-2, Wed Noon-12:50          **Phone:** 715-425-3909

**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, calculator use may be
          restricted on some assignments/assessments.

**Description:** Course content will include the real number system, similarity and proportional
reasoning, number theory, measurement, probability and data analysis. Prerequisite: A grade of
C or better in MATH 246.

**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) Miscellaneous Assignments/Homework: Sometimes we will start an activity/assignment
      in class but we will not have time to finish it. In some cases, we will simply discuss it the
      next class meeting as a group. In other cases, it may be collected for a grade. (I'll let you
      know either way.) These miscellaneous assignments will count for 10% of your grade.
  (c) Exams: We will have two exams spaced apart by about 5-6 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) <u>Final Exam</u>: There will be a comprehensive Final Exam worth 20% of the term grade. The Final Exam will take place on Thursday, May 11 from 10:15 a.m.-12:15 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:**

Topics in this course will include (in approximately this order)
1. Fractions (6 weeks)
2. Ratios (1 week)
3. Percent/Decimals (2 weeks)
4. Data/Probability (2 weeks)
5. Geometry/3D geometry/Similarity (3 weeks)

Spring Break is March 13-17.