

# SYLLABUS

## MATH/MATH ED 338 – FALL 2017

### Fundamental Mathematical Concepts for Elementary Teachers II

Math 338: He is unworthy of the name of man who is ignorant of the fact that the diagonal of a square is incommensurable with its side. Plato

MathEd 338: There is little we do in America that is more important than teaching.  
National Research Council, *Everybody Counts*

#### INSTRUCTOR

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#### TIMES

Section 1: M, W, R at 9:00 to 9:50 in Sci A213; T at 9:00 to 9:50 in Sci A212  
Section 2: M, W, R at 2:00 to 2:50 in Sci A213; T at 2:00 to 2:50 in Sci A212

Office Hours: Feel free to stop by anytime that I am not in class. Other times by appointment - just ask.

#### TEXTBOOKS

Mathematics for Elementary School Teachers, Bassarear, 5<sup>th</sup> edition

#### EXAM GROUP

Section 1: Tuesday, December 19<sup>th</sup> at 10:15-12:15 in Sci A212  
Section 2: Wednesday, December 20<sup>th</sup> at 2:45-4:45 in Sci A213

#### GOALS OF THE COURSE

1. Broaden your personal understanding of geometry.
2. Become excited about teaching mathematics, and specifically geometry, to children.
3. Become confident in your ability to teach geometry ideas to children.
4. Become familiar with the elementary school geometry curriculum along with state and national standards.

#### COURSE REQUIREMENTS

A separate grade is given for the mathematics and mathematics education components of this course. Your grade for the course will be based on the following distribution of points:

1. Exams: 45% of the grade. Three exams. At least 75% of each exam will be very similar to the homework exercises. For each exam, you may have 3x5 notecard.
2. Reading Notes: 15% of the grade: Detailed notes and extensions from the readings. A reading notes packet will be available for each exam. **To receive a score of 3 or 5 on a particular reading notes packet, you must score at least 60% on the corresponding exam. Otherwise, the reading notes score is prorated according to the exam score.**
3. Practicum category: 10% of the grade. Complete an in-class practicum with elementary school children. See the *Practicum* handout.
4. Project category: 20% of the grade. (e.g., curriculum, manipulatives, geometry, algebra, etc.).
5. Attendance: 5% of the grade. Students are expected to attend all class periods. Much of the learning in this class will occur either during class, or as a result of attending class. You are allowed four absences during the semester (one week); plan your schedule accordingly (e.g., days before break, etc.). **Athletics and school events are not excused absences – be sure to see me in advance.** Of course there are exceptions for military service obligations. Absences that are beyond your control will be handled on an individual basis. The attendance portion of your grade will be computed according to the following schedule:

Absences:	0-4	5	6
Percentage Points:	5%	3%	0%

It is YOUR responsibility to insure that your name is on the attendance sheet each day that you are in class. **Note: At the discretion of the instructor, up to five additional percentage points may be deducted for excessive absences (more than 6).**

6. Subjectivity category: 5% of the grade. Given at the discretion of the instructor and based on the completion of above-and-beyond work and/or personal growth, but along with such things as attendance, class participation, level of preparation for class periods, work completed in a timely manner, overall performance in the course, etc. **To get a value of 5 means that you performed extraordinary in this course.**
7. Reading Note Quizzes. There will be a total of 12 reading note quizzes during the semester (see the Outline sheet). These quizzes are used only for grades A, A-, and B+. There are no makeups for missed reading note quizzes. The quiz will consist of randomly choosing a problem number, and then you write down what you have written in your packet.
8. Extra Credit category. Homework: Up to 5% extra credit. Each exam will have a list of assigned homework problems. A passing score is defined on the *Homework Information* handout. For exceptional homework submissions, there is a possibility of additional points. **To receive a score of 3 or 5 on a particular homework packet, you must score at least 60% on the corresponding exam. Otherwise, the homework score is prorated according to the exam score.**

### GRADING POLICY

Final letter grades will be assigned as follows:

A, A-, or B+ refer to subjectivity category above

B [90% - 80%]; C (79% - 70%]; D (69% - 60%] F (60% - 0%]

Appropriate + and - scores will be added at the discretion of the instructor. An incomplete will not be given for this course, unless you provide evidence of a situation beyond your control that prevents you from doing your work for a substantial time. A heavy course load is not sufficient reason for an incomplete. Note: Since records for this course are stored on a computer, please keep all materials until final grades have been posted.

<p style="text-align: center;"><b>Necessary conditions for an A- or A</b></p> <ul style="list-style-type: none"> <li>• Submit a written proposal justifying such a grade</li> <li>• A: Subjectivity must be 5; A-: Subjectivity must be <math>\geq 4</math></li> <li>• No late submissions</li> <li>• At least 75% in the exam category</li> <li>• At least 18% in the project category</li> <li>• At least 10% in the reading note category</li> <li>• No more than 3 missed/wrong "reading note" quizzes</li> <li>• No more than 4 absences</li> </ul>	<p style="text-align: center;"><b>Necessary conditions for a B+</b></p> <ul style="list-style-type: none"> <li>• Submit a written proposal justifying such a grade</li> <li>• At least 60% in the exam category</li> <li>• At least 15% in the project category</li> <li>• At least 6% in the reading note category</li> <li>• At least 6% in the reading note category</li> <li>• No more than 5 missed/wrong "reading note" quizzes</li> </ul>
	<p style="text-align: center;"><b>Necessary conditions for a B</b></p> <ul style="list-style-type: none"> <li>• At least 12% in the project category</li> <li>• At least 6% in the reading note category</li> </ul>

## **ACADEMIC MISCONDUCT POLICY**

You are encouraged to work with others in the class (also with friends or tutors), but all of the work that you submit must be substantially your own. It is perfectly fine to get help, but you must personally understand whatever you submit for credit.

Academic misconduct is an act in which a student:

- Seeks to claim credit for the work or efforts of another without authorization or citation;
- Uses unauthorized materials or fabricated data in any academic exercise;
- Forges or falsifies academic documents or records; or
- Assists other students in any of these acts.

Examples of academic misconduct include, but are not limited to: cheating on an examination; submitting a paper or assignment as one's own work when a part or all of the paper or assignment is the work of another; submitting a paper or assignment that contains ideas or research of others without appropriately identifying the sources of those ideas; stealing examinations or course materials; submitting, if contrary to the rules of a course, work previously presented in another course; knowingly and intentionally assisting another student in any of the above, including assistance in an arrangement whereby any work, classroom performance, examination or other activity is submitted or performed by a person other than the student under whose name the work is submitted or performed.

For a full discussion of the academic misconduct rules on the UWSP campus see Chapter 14 of the Rules of the Board of Regents, Wisconsin Administrative Code:

<http://www.google.com/url?sa=t&rct=j&q=&esrc=s&frm=1&source=web&cd=1&ved=0CB0QFjAA&url=http%3A%2F%2Fwww.uwsp.edu%2Fdos%2FDocuments%2FUWS%252014.docx&ei=v2zzU4XdH9jgoAS0pYKQBw&usq=AFQjCNE3yU8CJfs0O4CXRnkUIT-aZkSPrA>

## **WORK LOAD**

University guidelines suggest that to do well in a course, students may need to spend 2-3 hours outside of class for each hour in class. Since this class meets four hours a week, you should expect to spend 8-12 hours a week in preparation for this course.

## **STUDENT RIGHTS AND RESPONSIBILITIES**

You should be fully aware of your rights and responsibilities as a UWSP student. These are detailed in the *UWSP Community Bill of Rights and Responsibilities*:

<http://www.uwsp.edu/dos/Documents/Community%20Rights%20and%20Responsibilities%20book.pdf>

## **FINAL NOTE**

I invite and appreciate your comments and suggestions for the course as it unfolds. Please share with me in person or in writing your reactions and perceptions. Your contributions will serve to enhance the course for you, your classmates, and future students