

Section 2: Monday, 9:00 - 11:40 A.M., Jacobetti 125N (first two - three weeks only and then at **Sandy Knoll School** (remainder of semester)

Office: NSF 1113, 227-1603

Hours: As posted and by appointment

Objectives: To explore various methodologies for teaching topics in elementary school mathematics and to fully examine the K-8 mathematics curriculum as specified in the *NCTM Principles and Standards* and the *Michigan Curriculum Frameworks*. Technology will be explored and aspects of classroom management will also be addressed.

Requirements:

1. Attendance is absolutely necessary. If you must miss a class because of an emergency, you are responsible for calling and leaving a message or emailing me. One or more unexcused absences may result in a grade of "F".
2. You will be required to do outside readings, textbook analyses and analyses of videotapes by Marilyn Burns. Written assignments, often based on material in our text, will be given each week, are typically worth 5-15 points, and will be due at the next class meeting. (Each week's assignment will be posted on WebCT.) **In emergency cases only**, assignments will be accepted one day late (up to 5 P.M.) without penalty. After that time, points will be taken off systematically. In-class assignments, based on activities with manipulatives, may also be given and will be collected on the day of the activity. If you are absent when an assignment is due, and you have notified me of your absence, your grade will not be jeopardized. However, I do expect the assignment to be submitted by Thursday of that week.
3. For most of the semester, we will meet at Sandy Knoll School on Seventh St. We will have approximately 1 hr. and 40 min. of class time and 1 hour of observation time each week. During our class time, I expect you to fully participate in class discussions and groupwork activities and take notes on material presented. For observation time, you will select a specific grade level, and although somewhat dependent on availability, will spend the semester in that classroom with the teacher and the children. Your active participation in that classroom is encouraged - you may assist groups of children or work directly with a child having difficulty. I do expect you to dress and act professionally at all times while at the school. (Note: Please eat breakfast before you come to class. I prefer you do not eat while we are working on activities.)
4. You will teach at least 1 lesson, or develop at least one learning center, which may be double-counted and coordinated with either the science methods course or the children's literature or reading course in the block. You must submit a lesson plan to me, and to the classroom teacher, before you teach and it should include at least the following:
 - a. Michigan Curriculum Frameworks Standard(s)/Benchmark(s) addressed by the lesson;
 - b. goals/objectives of the lesson;
 - c. grade level for which lesson is geared;

some feedback to you, in written form. My comments will be based on the following criteria:

- a. evidence of thorough planning;
 - b. your teaching performance;
 - c. the professional image you project;
 - d. student response
4. Throughout the semester, you must keep a journal of these classroom experiences. To assist you, I will give you a guideline for the first day of observation. Generally, you are to document the methodology of the teacher, the content of the lesson and other pertinent experiences with the children. It is especially important that you study the teacher's classroom management techniques and comment on them. I will collect these journals after mid-semester and again at the end of the semester to peruse your entries. I do expect you to write a reflection on the lesson you conduct in the classroom. This will be your journal entry for that day. The journal is worth 40 points.
5. One of the main projects for the semester is the writing and illustrating of a children's "tradebook." More details will be given 2-3 weeks before the assignment is due (which will probably be in late Oct.). You may want to consult with other instructors in the block since it is possible to double count this assignment. The project is worth 30 points.
6. The final project of the class will be your personal "field experience folder" (20 points). The main components will consist of:
- a. "Attitudes Towards Math" paper;
 - b. "Expectations" pages from the *NCTM Principles and Standards document*;
 - c. journal entries;
 - d. class notes, text analyses and class assignments;
 - e. class handouts and resources;
 - f. a reflection on the semester.

I will collect the folders the week before final exams so that I may grade them and return them to you at the final class meeting during exam week.

Text: Elementary and Middle School Mathematics, Teaching Developmentally, 5th ed., by John A. Van DeWalle.

90 - 100 A's
80 - 89 B's
70 - 79 C's
60 - 69 D's
Below 60 F

Note 1: Take advantage of my office time to seek help and/or resources as needed.

Note 2: If you have a need for disability-related accommodations or services, please inform the Coordinator of Disability Services in the Disability Services Office at 2001 C.B. Hedgcock (227-1700; TTY 227-1543). Reasonable and effective accommodations and services will be provided to students if requests are made in a timely manner, with appropriate documentation, in accordance with federal, state, and University guidelines.

Note 3: The videotapes you will be required to view are located in the Seaborg Center Resource Rm., West Science 2609. They are also on reserve at the main desk of the Library.

Note 4: Covering the K-8 curriculum, every mathematical topic at every grade level, is a huge task. I will do my best to help prepare you for teaching mathematics at the elementary level, but please be cognizant of the fact that we will not have time to cover each topic at each grade level in depth. I often will focus on the 3rd - 5th grade levels because it is then easier to adapt activities to the lower grades. However, I hope you will provide input as the semester continues so that I can provide you with the best experience possible.