Math 13700 Mathematics for Elementary Education I Fall 2014

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Welcome to Math 13X00 courses at Purdue. The goal of these courses is to prepare you to be a knowledgeable and confident math teacher in the elementary classroom. We will strive for a deep understanding of the reasoning behind math processes. We will also strive to be able to clearly articulate math ideas using correct vocabulary. You will often be asked to explain your thinking or describe the process you use to solve a problem. Your future students will also need to know more than just how to come up with a number answer. Be prepared to show step-by-step math work and to explain your thinking clearly. Homework papers, quizzes and exams will be graded accordingly.

Textbook: We will be using Reconceptualizing Mathematics 2nd Edition by Sowder, Sowder, and Nickerson, W.H. Freeman, 2014 because it provides activities, discussion ideas and questions that stimulate a deep level of thinking. It is a workbook that we will follow on a daily basis in class. Reading the section in the text before class is recommended to achieve a high grade in the course.
We will sometimes use manipulatives to help us understand or demonstrate concepts. People have different learning styles and you may find the manipulatives useful in clarifying ideas. Because it will be important to use them in your teaching for the benefit of your students, you will gain valuable experience using manipulatives in this course.

Calculators: Another goal of the Math 13X00 courses is to be competent doing arithmetic of whole numbers, decimals, fractions and percents by hand. To that end, **NO CALCULATORS ARE ALLOWED ON QUIZZES AND EXAMS.** Occasionally a calculator will be useful for homework problems or in-class work. There will also be three quizzes given during the semester called "Arithmetic Skills Quizzes." To be prepared for those, a study guide is available on the web page for the course.

Homework: Homework will be done online for most assignments. You will be given an access code to get into the MathPortal system. Each assignment is due on the next class day at 9:00 pm. You are encouraged to complete the assignment before the next class so that you can ask questions related to the problems. The seven lessons with an asterisk indicate assignments to be done with paper and pencil. Go to www.math.purdue.edu/MA13700 to find the specific assignments. These are to be turned in during the next class meeting. Students who are absent on the day a paper assignment is collected or who miss doing an online assignment will have the opportunity to do a make-up assignment at the end of the semester.

Exams: Exams are intended to cover the ideas from the text but not to mimic the homework questions. Questions may require thinking or problem solving not represented by the homework questions. The exams take place in FRNY G140. The dates and times are: September 22nd at 8:00 pm, October 20th at 8:00 pm, and November 18th at 6:30 pm. Put these dates and times on your calendar. Make-up exams will be given only if you have a valid excuse *with documentation* and the course coordinator has been notified prior to the exam. If you are unable to notify the coordinator prior to the exam, *a valid explanation with documentation for the missed exam must be provided*. Unexcused absence from an exam will result in a grade penalty.

Quizzes: A quiz will be given frequently. It is wise to review recent lessons as a way of studying for quizzes. If an occasion arises that prevents you from attending class on the day a quiz is given, you will have an opportunity to take a make-up quiz at the end of the semester. Class participation will count towards one quiz grade. Be prepared to volunteer your ideas during class discussions.

Attendance: Illnesses or circumstances that lead to excessive absences should be discussed privately with the instructor so that appropriate accommodations can be made.

Grading: Grades will be based on three evening exams (100 points each), quizzes (100 points), homework (50 points), and a comprehensive final exam (150 points). An instruction sheet for determining your grade is available on the web page. Note that a point on a homework or quiz paper is not equivalent to a point for the course. A grade of C- or better is required to go on to Math 13800 or 13900.

Last day to drop a course: Wednesday, October 29, 2014 at 5:00 pm.

Cell phones: Checking for messages and sending text messages is not appropriate during class time. Be polite and leave your cell phone alone during that 50 minutes. MP3 players and computers are also not appropriate to use during class.

In the event of a major campus emergency, course requirements, deadlines and grading percentages are subject to changes that may be necessitated by a revised semester calendar or other circumstances beyond the instructor's control. Information will be available at www.math.purdue.edu/MA13700

During the last two weeks of the semester, you will be provided an opportunity to evaluate this course and your instructor. At that time, you will receive an official email from evaluation administrators with a link to the online evaluation site. Your feedback is vital to improving education at Purdue. I strongly urge you to participate in the evaluation system.

FOR STUDENTS CERTIFIED BY ODOS ADAPTIVE PROGRAMS:

If you have been certified by the Disability Resource Center (DRC) as eligible for academic adjustments on exams or quizzes see http://www.math.purdue.edu/ada for exam and quiz procedures for your mathematics course or go to MATH 242 for paper copies.
In the event that you are waiting to be certified by the Disability Resource Center we encourage you to review our procedures prior to being certified.
For all in-class accommodations please see your instructors outside class hours – before or after class or during office hours – to share your Accommodation Memorandum for the current semester and discuss your accommodations as soon as possible.