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## Math 202: Mathematics for Elementary Teachers Spring 2007

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Dr. Chris Tweddle  
317 Koch Center  
488-1161  
ct55@evansville.edu

MWF 1–1:50 PM  
124 Koch Center  
<http://faculty.evansville.edu/ct55>

**Catalog Description.** This course treats problem solving, the real number system, elementary number theory, geometric topics and others. For elementary education majors only. Prerequisite: Math 101.

**Course Objectives.** Math 202 is the second in a two-part sequence of courses (together with Math 101) required for Elementary Education majors at the University of Evansville. The topics include properties of the number system, including the development of the real numbers, beginning with whole numbers; ideas from elementary number theory, covering divisibility, least common multiples and greatest common divisors; and topics from geometry, such as 2- and 3-dimensional shapes, and measurement. Emphasis is placed on problem solving techniques and communicating mathematical ideas. This course is intended to empower the prospective teacher to answer the “why” questions that will inevitably arise in the classroom. We will make no attempt to address the “how” or “when” questions; a course in methods will focus on pedagogical techniques for the classroom and curriculum issues will be decided by the school board for the district in which the teacher is employed.

**Required Text.** Billstein, Libeskind and Lott, *A Problem Solving Approach to Mathematics for Elementary School Teachers*, 9th edition, Pearson Education, Inc., 2007.

**Office Hours.** MWF 10 AM–Noon, MF 3–4 PM and R 1–3 PM; additional times can be arranged by appointment.

**Exams.** There will be three in-class exams, worth 100 points each; dates will be announced at least two weeks in advance. Review sessions will be held in the evening prior to each exam. A cumulative final, worth 150 points, will be given on Thursday, May 3, at 12:30 PM.

**Quizzes.** There will be (at least) six ten-point quizzes given throughout the semester; the highest five scores will count towards your final grade. Quizzes may be unannounced.

**Projects** There will be five twenty-point group projects. We will begin the projects in-class, but they may need to be completed outside of class.

**Homework.** Exercises will be assigned to accompany the material covered in class. Homework will not be collected; however, you *may* see similar problems on the tests and quizzes. Completion of the assignments is essential to success in this class.

**Attendance.** You are responsible for any information (including announcements) that you miss. The course website will have up-to-date information. Arriving late or leaving early, reading the newspaper, text-messaging, etc. disrupts the class and is rude and unprofessional.

**Course Grades.** Your grade in the course will be based on the 600 points described above. The class will be graded on a ten point scale; pluses and minuses will be influenced by such factors as attendance and participation.

**Make-up Policy.** An opportunity to make up missed work will only be granted in the event of a *documented* emergency or illness. If you anticipate a conflict with an announced exam, speak with me **before** the scheduled date.

**Extra Credit.** There will be no extra credit assignments.

**Academic Honesty.** Cheating will not be tolerated. We will follow the University's honor code, which reads "I will neither give nor receive unauthorized aid nor will I tolerate an environment which condones the use of unauthorized aid." Collaboration on homework assignments and projects is encouraged; note that work to be submitted for a grade should be your own and not copied from a fellow student.

**Students with Disabilities.** It is the policy and practice of the University to make reasonable accommodations for students with properly documented disabilities. Written notification to faculty from the Office of Counseling and Health Education is required for any academic accommodations. If you are eligible to receive an accommodation and would like to request it for this course, please discuss it with me and allow two weeks notice. If you have questions about services for students with disabilities or procedures for requesting services, you may contact the Office of Counseling and Health Education at 488-2663.

**Disclaimer.** I reserve the right to change the dates and policies outlined above at my discretion. Any changes will be announced well in advance.