I. COURSE INFORMATION

Time & Place: T.R 5:30 - 6:45 PM in Center for Sciences 107
Instructor: Sarah Ives
Office Phone: 361.825.2151
Office Address: Center for Instruction 358
Office hours: Tues., Wed., & Thurs. 3-5pm, and by appointment
E-mail Address: Sarah.Ives@tamucc.edu
Web Address: http://sci.tamucc.edu/~sives

II. COURSE DESCRIPTION

This research based course provides the conceptual framework for understanding and applying properties, models and operations of number systems. Related topics are studied in problem solving settings. Most students in this course have learned mathematics through a rule based, abstract instructional program. This course is designed to emphasize in-depth basic understandings of number systems and arithmetic patterns, which are core ideas in the elementary mathematics curriculum. Communicating concepts, processes or solutions effectively, in oral and written forms, will be emphasized. Using physical models to teach the content topics and understanding how learning occurs through their use will be a substantial portion of the class instructional plan.

This course is intended for students seeking certification in elementary education, bilingual education, special education, and BSIS 4-8 programs. The course will cover chapters 1-6 in the textbook.

III. PREREQUISITES

MATH 1314: College Algebra or equivalent, or placement beyond College Algebra on the departmental placement test.

IV. TEXTBOOKS & MATERIALS

Required materials: Scientific calculator (will need for future SMTE classes as well)

Required texts:
- Mathematical Reasoning for Elementary Teachers, Long, DeTemple & Millman, 5th edition (will also be used for SMTE1351 and SMTE3352)
- Principles and Standards for School Mathematics, NCTM, 2000 (available online with 120 day free trial)
- TEKS (http://www.texas.gov/rules/tac/chapter111/index.html)
- Family Math Night presentation materials may cost up to $5

Suggested texts:
- Error Patterns in Computation, 10th edition, by Ashlock, Robert & Merrill, 2009
- Texas Edition of Elementary and Middle School Mathematics: Teaching Developmentally, Van de Walle, Karp, Bay-Williams, 7th edition

V. STUDENT LEARNING OUTCOMES (see http://sci.tamucc.edu/~sives/1350/syllabus-fall11)

VI. ASSESSMENT & EVALUATION

"Work" (see policies below)  30%  90-100  A
Family Math Project 25%  80-89  B
Class presentation/teaching 25%  70-79  C
Final Exam 20%  60-69  D
<60  F

VII. TENTATIVE COURSE SCHEDULE

See course calendar online at http://sci.tamucc.edu/~sives/1350/calendarFall11.html (do not print: will be updated throughout the semester).
VIII. CLASS POLICIES

• Work category consists of math journals, homework, and in-class assignments and quizzes. Math journals are email assignments and are due before the next class period starts. It is your responsibility to ensure that I receive and can open/read email assignments—please use standard document software. I will always acknowledge receipt of email messages and respond quickly with your score.

• Fraction mastery quiz – you must pass this quiz with a 75% score to pass this course. You may not use a calculator on this quiz.

• Class presentations – you will present a number system project to the class by groups; details can be found on the course website. Attendance is required for all class presentation days; any absence will affect your presentation grade.

• Attendance: Attendance is expected and is reflected in individual and group participation. Missing quizzes, presentations and class activities will jeopardize your grade. If you must be absent, you are expected to communicate with me (and your table group) before class or as soon as possible. Email is encouraged (Sarah.Ives@tamucc.edu) or you can call 825-2151 and leave a voicemail. For any absence with a documented excuse, students may make up the work and turn it in late the next class period.

• Late homework: late homework will be accepted at the discretion of the instructor and points will be deducted.

• The final exam will be cumulative. A review sheet can be found on the course website.

• If you have any questions please email or see me during office hours.

IX. DROPPING A CLASS

I hope that you never find it necessary to drop this or any other class. However, events can sometimes occur that make dropping a course necessary or wise. Please consult with me before you decide to drop to be sure it is the best thing to do. Should dropping the course be the best course of action, you must initiate the process to drop the course by going to the Student Services Center and filling out a course drop form. Just stopping attendance and participation WILL NOT automatically result in your being dropped from the class. Friday November 4th is the last day to drop a class with an automatic grade of “W” this term.

X. ACADEMIC HONESTY

Academic Honesty: university students are expected to conduct themselves in accordance with the highest standards of academic honesty. Academic misconduct for which a student is subject to penalty includes all forms of cheating, such as illicit possession of examinations or examination materials, forgery or plagiarism.

XI. DISABILITY SERVICES

The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact the Disability Services Office at (361) 825-5816 or go to the office at Driftwood 101. If you are a returning veteran and are experiencing cognitive and/or physical access issues in the classroom or on campus, please contact the Disability Services office for assistance at (361) 825-5816.

XII. GRADE APPEALS PROCESS

As stated in University Rule 13.02.99.C2, Student Grade Appeals, a student who believes that he or she has not been held to appropriate academic standards as outlined in the class syllabus, equitable evaluation procedures, or appropriate grading, may appeal the final grade given in the course. The burden of proof is upon the student to demonstrate the appropriateness of the appeal. A student with a complaint about a grade is encouraged to first discuss the matter with the instructor. For complete details, including the responsibilities of the parties involved in the process and the number of days allowed for completing the steps in the process, see University Rule 13.02.99.C2, Student Grade Appeals, and University Procedure 13.02.99.C2.01, Student Grade Appeal Procedures. These documents are accessible through the University Rules Web site at http://www.tamucc.edu/provost/university_rules/index.html. For assistance and/or guidance in the grade appeal process, students may contact the Office of Student Affairs.