

**MATHEMATICAL STRUCTURES
FOR EARLY CHILDHOOD AND ELEMENTARY TEACHERS
MATH 3603 - 801
SPRING 2013**

Instructor: Tracy Thompson
Office: 342A NCB
Office Hours: TR 4:00-4:30 p.m., R 5:45-6:45 (342A NCB), or by appointment.
Telephone: Office 918-594-8322 (During office hours only, no voicemail).
Cell 918-277-3670, call or text
Email: scovilt@okstate.edu
Room/Time: Room #263 NCB, TR 4:30-5:45

OSU Catalog Description: Prerequisite(s): 1483, 1493 or 1513. Foundations of mathematics and number concepts for prospective early childhood and elementary educators. Problem solving, logic, set theory, functions and relations, number systems, number theory, rational numbers, decimals and fractions, exponentiation, probability, and applications. Class format may emphasize student investigation and discovery, discussion and presentation, and working with mathematical tools. Together with MATH 3403, it prepares students for CIED 3153 and 4153 and/or HDFS 3223.

Important Note: This course is no longer an A-designated General Education course; it will NOT satisfy the General Education Analytic and Quantitative Thought (A) upper division requirement.

Initial Comments: The content and instructional delivery of this course models the current professional thinking and standards endorsed by the National Council of Teachers of Mathematics (NCTM). Here are a few thoughts that will help you be successful

1. MATH 3603 is specifically designed for prospective elementary/ early childhood/ middle level teachers: If you are pursuing a major different from one of these, your advisor will work with you to select a course more appropriate and valuable to your studies.
2. MATH 3603 is a content mathematics class much like other MATH - prefixed courses you have taken: the pedagogical issues related teaching this content in the school setting is addressed in detail in one of the methods courses that you will be taking as part of your program.
3. The value of this course will depend mostly on you - your involvement, effort, and creativity.

Required Textbook: Mathematics for Elementary School Teachers (Fourth edition) by O'Daffer, Charles, Cooney, Dossey and Schielack, 2008. ISBN:9780321448040

Math Tutoring: North Hall 103, hours: M-R 9:00 - 6:00, F 9:00 - 5:00, call 918-594-8232 for more information or to schedule an appointment.

Daily Routine: Almost every class meeting will consist of a combination of lectures, individual and/or group activities, and discussion. In addition, there will be assignments and homework, which must be completed outside of class.

Examination Grades: There will be three (3) fifty-minute in-class examinations with a maximum possible score of 100 points each and a 200 point comprehensive Final Examination during Final's Week. **The Final Examination is scheduled for Thursday, May 2, 2013 at 4:30pm in our regular classroom.** The time for the Final is not negotiable.

There will be **NO MAKE-UP EXAMS** in this course. If one exam is missed, the score on the final will replace the missed exam score only if you request and obtain approval for the instructor in advance of the exam and only for serious and unavoidable conflicts.

Prior documented university-sponsored activities can qualify for this missed exam replacement. Please notify me well ahead of time to gain approval. If this condition is not satisfied, **a grade of 0** will be recorded for the missed exam. If a second exam is missed, it will receive an **automatic grade of 0**.

Quizzes: There will be twelve (12) unannounced quizzes in class. Each quiz will cover material over the homework and/or notes and will be worth 10 points. At the end of the semester the lowest two (2) quizzes will be dropped. There will be no make-ups for quizzes.

Class Attendance/Participation: Class attendance involving active participation is a very important element in your success. As future educators, professionalism and punctuality is expected. A class attendance and participation score will be calculated into your final grade as bonus points with a maximum of 25 points possible.

Course Evaluation: Course grades will be determined according to the following distribution.

Personal Bio	25 points
Exam 1	100 points
Exam 2	100 points
Exam 3	100 points
Quizzes (10)	100 points
Final Exam	200 points
Attendance (Bonus)	25 points
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Total	650 points

Letter grades will be assigned according to the following scale.

563 - 650 points	A
500 - 562 points	B
438 - 499 points	C
375 - 437 points	D
Below 374	F

Drop and Withdrawal Policy: "Dropping" means you are withdrawing from a specific course by you are still enrolled in at least one other OSU course; the last day to drop a course with an automatic grade of "W" is April 5, 2013. "Withdrawal" means you are dropping all courses and are no longer enrolled for the current semester; the last day to withdraw completely from OSU classes with an assigned grade of "W" or "F" is April 19, 2013. Additional information about dropping and withdrawing courses is available on the Spring 2013 Syllabus Attachment. IT IS YOUR RESPONSIBILITY TO KNOW AND COMPLY WITH ALL DEADLINES.

Incomplete Grade: The grade of "I" is given to students who satisfactorily complete the majority of the course work and whose work averages "D" or better, but who have been unavoidably prevented from completing the remaining work of the course. Please speak to me as soon as possible if you think you will not complete the course work during the time allotted for the semester.

Academic Integrity: The University has explicit rules governing academic integrity. Please consult the OSU Spring 2013 Syllabus Attachment. Working with another person or in study groups on problems can be helpful in learning the material. I encourage you to work

together if you find it helpful. However, all written work submitted must be your own. Copying someone else's problem solution or showing your written solution to someone else is prohibited; such behaviors are regarded as violations of academic integrity and will be treated according to the University's policy. In order to be successful in learning the material and doing well on the examinations you must think very hard about the problems themselves BEFORE discussing them with anyone else.

Special Accommodations for Students: "If you think you have a qualified disability and need special accommodations, you should notify the instructor and request verification of eligibility for accommodations from the Office of Student Disability Services. Please advise your instructor of your disability as soon as possible, and contact Student Disability Services to ensure timely implementation of appropriate accommodations. Faculty have an obligation to respond when they receive official notice of a disability but are under no obligation to provide retroactive accommodations. To receive services, you must submit appropriate documentation and complete an intake process during which the existence of a qualified disability is verified and reasonable accommodations are identified" (Spring 2013 Syllabus Attachment).

A final note: I am looking forward to this Spring semester with you! Please do not hesitate to contact me regarding any questions you may have throughout the semester.

Any changes in this syllabus will be communicated to you in class by the instructor.