

Campbellsville University

MATH/CIS

Course syllabus

Dr. Janet L. Miller

I. TITLE: MTH 202, Mathematics for Elementary Teachers II, 3 hours.

II. COURSE DESCRIPTION: This course is designed to improve preservice elementary teachers' knowledge of the mathematics relevant to elementary and middle school teaching. In addition, this course will actively involve preservice teachers in their own learning, with the intention of creating a greater understanding of the nature of mathematics. The course will cover four content areas; (1) Statistics and Probability (2) Geometric Figures (3) Measurement (4) Algebra and Functions. This course is required for elementary/middle school education majors. Prerequisite: MTH 111, College Algebra with a "C" or better. This course will not count toward a mathematics major.

III. TEXTBOOK: "Mathematics for Elementary School Teachers, A Conceptual Approach" by Bennet, Burton, Nelson, & Ediger 10th Edition published by McGraw-Hill, WCB, 2016

IV. OBJECTIVES:

1. Students will demonstrate the ability to think logically and to problem solve.
2. Students will communicate, reason, and make estimates involving the topics listed above.
3. Students will demonstrate the ability to make connections between their subject matter knowledge and the mathematical ideas they need to teach young children.
4. Students will participate in the art of problem posing, questioning, interpreting children's concepts, and brainstorming on corrective measures for children with misconceptions.
5. Students will make connections between the various branches of mathematics and their relevance to the real world.
6. Students will communicate in writing topics related to this course.

V. COURSE REQUIREMENTS:

1. Attendance Policy: Each student is expected to attend every class. Roll will be taken at each class meeting and in the event of a student missing more than 6 times 4 points will be deleted from the final grade average for each absence past 6. This course will comply with the University's Student Attendance Policy (see the Student Handbook). *THE STUDENT IS STILL RESPONSIBLE FOR ANY MATERIAL COVERED AND/OR DUE IN THE EVENT OF THEIR ABSENCE.* Each Student must bring to class their textbook, paper, and pen or pencil

2. Testing and Grading: There will be three 100 point exams and a 150 point comprehensive final exam. Regardless of the reason for missing an exam, the student will take any make-up exam during the last week of classes. If the student fails to schedule and take the make-up test during that week, then a zero will be recorded as the grade on that exam. Weekly quizzes over the homework will be given once a week. A quiz average will be worth 100 points after several of the lowest quiz grades are dropped, thus eliminating the need for make-up quizzes. If a student misses the final exam for ANY REASON then the grade of X will be given for the course grade unless the student's average grade is an F and cannot be raised by a final exam score. If a grade of X is given the student has one month after reentering the University to take a special examination in order to change this grade. (See the University Bulletin Catalog). If the student fails to take the final examination within the required period a zero will be recorded for the final exam score and averaged with the student's other scores.

The grading scale is based on 550 points and is determined using percents as follows:

Grading Scale	
Percent of Points Earned	Grade
90 - 100	A
80 - 89	B
70 - 79	C
60 - 69	D
0 - 59	F

3. Teaching Methods: Students will be taught through lecture, active learning, assigned written work, and problem solving.

4. Course Outline

- a. Chapter 7 Statistics
- b. Chapter 8 Probability and Counting
- c. Chapter 9 Algebra
- c. Chapter 10 Geometric Figures
- d. Chapter 11 Measurement
- e. Chapter 12 Transformations: Constructions, Congruence, and Similarity Mappings

5. Classroom Behavior: Each student is expected to conduct themselves in a socially acceptable manner. Courtesy toward the professor and other students in the class is essential. Each student is expected to stay in the classroom during the entire class period. Leaving the classroom to do things like; answer the telephone, go to the bathroom, or to get a breath of fresh air are not acceptable since it disrupts the entire class. Students are also expected to arrive on time, stay awake during class, not engage in social chit chat during the lecture, and to participate when called upon. Failure to behave properly can result in the student being permanently dismissed from class.

6. Academic Integrity: Cheating will not be tolerated in this course. The first time a student is determined to be cheating on an exam or quiz a grade of zero will be assigned to that testing device. The second time the student is caught cheating on an exam or quiz the course grade will automatically become an F regardless of past or future performances in this course.

7. CELL PHONE (or similar device) POLICY: Each student is required to read and sign a contract describing the cell phone policy for this course. A copy of the contract will be kept on file and another provided to the student. This course adheres to a NO TOLERANCE POLICY ON CELL PHONE (or similar device) USE during class time. (See the attached contract.)

8. Electronic Devices, Programmable Devices, and Calculators:

There may be restricted use of graphing calculators as determined by the professor. However non-graphing calculators will be required for this course. Students will not be allowed to “share” calculators during a quiz or an exam. Use of a cell phone or programmable device will not be permitted on any quiz or exam.

9. Children In-Class Policy: Only in extreme cases are children allowed in the classroom or laboratory facilities, and then only with approval of the professor **prior to class**.

10. Title IX Statement: Campbellsville University and its faculty are committed to assuring a safe and productive educational environment for all students. In order to meet this commitment and comply with Title IX of the Education Amendments of 1972 and guidance from the Office for Civil Rights, the University requires all responsible employees, which includes faculty members, to report incidents of sexual misconduct shared by students to the University’s Title IX Coordinator.

Title IX Coordinator:

Terry VanMeter

1 University Drive

UPO Box 944

Administration Office 8A

Phone – 270-789-5016

Email – twvanmeter@campbellsville.edu

Information regarding the reporting of sexual violence and the resources that are available to victims of sexual violence is set forth at : www.campbellsville.edu/titleIX

11. Disability Statement: Campbellsville University is committed to reasonable accommodations for students who have documented physical and learning disabilities, as well as medical and emotional conditions. If you have a documented disability or condition of this nature, you may be eligible for disability services. Documentation must be from a licensed professional and current in terms of assessment. Please contact the Coordinator of Disability Services at 270-789-5192 to inquire about services.

10. Campus Security Phone Numbers: OFFICE: 270-789-5555 CELL: 270-403-3611

VII. AUXILIARY TEXTBOOKS AND RESOURCES:

1. Modern Mathematics by Ruric Wheeler
2. A Survey of Mathematics with Applications by Angel and Porter
3. Any college algebra text

VIII. MY LOCATION: My office is in Carter Hall #315. My office hours will be posted by my door. If those hours do not work with your schedule feel free to make an appointment. My email address is jmiller@campbellsville.edu. My office phone number is 789-5325.

Cell Phone and Computer Use Policy Contract for MTH 202

PLEASE READ THE FOLLOWING VERY CAREFULLY SINCE, THIS IS A NO TOLERANCE POLICY ON PHONE USE IN CLASS AND THE FAILURE TO COMPLY IS SEVERE.

(1) USE OF CELLULAR TELEPHONES IS PROHIBITED DURING CLASS TIME. THIS INCLUDES TEXT MESSAGING. COMPUTER USE FOR OTHER THAN CLASSROOM USE IS ALSO PROHIBITED.

(2) ANY STUDENT USING THEIR PHONE (OR COMPUTER OFF TASK) DURING CLASS TIME WILL BE ASSIGNED A FAILING GRADE FOR THE COURSE and will no longer need to attend the class.

(3) Although different policies exist in varying courses this course has a NO TOLERANCE POLICY ON TELEPHONE USE DURING CLASS. Research has shown that a student using a cell phone unrelated to the course material during class time diminish their abilities to learn the subject matter [*]. No student needs this kind of handicap while trying to master the subject. If using the telephone is more important than your grade in the course then wasting your time and the professor's time is an unnecessary outcome.

(4) For purposes of campus safety Dr. Miller will have a cell phone at her disposal in case of an emergency.

(5) TURN OFF YOUR PHONES AND PUT THEM SOMEWHERE THAT DOES NOT CREATE A TEMPTATION AT THE BEGINNING OF EVERY CLASS.

I understand what is stated in this policy and agree to adhere to these conditions under penalty of a failing grade.

Student

Date

Dr. Janet Miller, Professor

Date

