

MATH1301 MATHEMATICS FOR ELEMENTARY TEACHERS
KENTUCKY WESLEYAN COLLEGE
FALL 2015

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Monday and Wednesday 1:00 – 5:00 pm

Office Hours: Tuesday and Thursday 10:00 – 10:50 am

or by appointment

Course Description: This is a course designed for pre-service elementary and middle school teachers to ensure the core content for mathematics is understood. We will not only review the basic mathematics required but will also explore how to convey these concepts to students through manipulatives and hands-on activities. We will cover whole number, integer, rational, and real arithmetic, number theory, and sets.

Material Covered: Chapters 1 - 7

Meeting times: Monday, Wednesday, and Friday, 8:00 – 8:50 am

Meeting location: Administration Building Room 210

Credits: 3 semester hours

Textbook: *Mathematical Reasoning for Elementary Teachers, 7th ed.* by Long, DeTemple, and Millman.

Student Learning Objectives: This course is in the General Education Curriculum and, as such, has the following specific learning outcomes:

- **LO 2:** Demonstrate problem-solving ability;
- **LO 4:** Communicate effectively.

Additionally, we expect that a student who successfully completes this course will demonstrate competence in

- addition, subtraction, multiplication, and division of numbers (integer, rational, real);
- converting and working with numbers in different bases;
- creating and working with sets;
- determining and explaining the divisibility of whole numbers;
- explaining standard arithmetic algorithms;
- using various manipulatives and models to represent numbers (integer, rational, real).

Academic Alerts: Wesleyan cares about your success. The Academic Alert system is designed to help you succeed. Instructors issue an alert to you, your advisor, your coach, and the CARES

TEAM if you are having difficulty in class, not responding to your instructors attempts to contact you about attendance issues, or any concerns they might have about your success. The CARES TEAM will work with you to resolve your issues. If you have questions, please talk to your instructor.

Attendance: Attendance is an integral component of learning, successful completion of courses and the professional work ethic. Excessive absences in classes can result in lowered grades and reduction or loss of financial aid. Attendance is reported each class period to the Wesleyan CARES TEAM. Students are responsible for any material or announcements given in class. Six unexcused absences will result in a failing grade.

Homework: Homework will be assigned regularly. Generally, these will be due at the beginning on class one week after being assigned. **Late homework will not be accepted.** Questions about homework should be discussed with the professor either during class or office hours.

Presentation: Each student will give a short presentation in class. You will also write a critique of a classmate's presentation. Details will be provided during the semester.

Participation: You are expected to participate in class. This includes, but is not limited to, asking questions, contributing to discussion, and working problems for the class. Failure to participate will result in the loss of 10 participation points. This includes arriving late, leaving early, texting, sleeping, etc.

Tests: There will be three one hour tests as well as a comprehensive final exam.

Exam Schedule (Tentative): Note these dates are subject to change.

Test 1 Monday, September 21

Test 2 Monday, October 26

Test 3 Monday, November 23

Final Exam: Friday, December 11 from 11:00 am – 1:00 pm

Grading: Points in this course are awarded as follows.

Homework:	150
Presentation:	100
Participation:	100
Exam 1:	150
Exam 2:	150
Exam 3:	150
Final Exam:	200
Total:	1000

Basic Skills Test: In order to pass MATH1301, you **must** pass a basic skills test. This test will cover basic arithmetic skills that are vital to teaching any math course. The exam will consist of twenty questions, and you must get at least eighteen correct to pass. If you fail the exam, you may retake it. You can only take the exam once in any given week, and you must pass it on or before October 22 the last day to drop the course. **If you do not pass the basic skills test, you will fail MATH1301. There are no exceptions.**

Grading Scale: The following percentages will guarantee at least the associated letter grade. A 90%, B 80%, C 70%, and D 60%. Earning less than 60% of the possible points can result in a grade of F.

Course Policies:

- Cell phones are prohibited in the classroom, unless they are turned off and inside a container, like a backpack.
- Headphones connected to listening devices are forbidden in the classroom.
- Excessive talking with other students is disruptive to instruction and will not be tolerated.
- A respectful conduct towards fellow students and your instructor is expected at all times.
- Excused absences will need to be arranged at least 24 hours in advance. Medical emergencies are an exception, but written documentation will need to be produced in this case. Assignments will not be made up for unexcused absences.
- Anyone in violation of course policies will be warned once, then asked to leave the classroom.

Academic Misconduct: Kentucky Wesleyan College expects its students to adhere to the highest standards of academic honesty. Any student who, beyond a reasonable doubt, violates these standards is subject to disciplinary action by the faculty member in whose class the academic dishonesty has occurred and by proper college authorities. Examples of acts constituting academic dishonesty include (but are not limited to) the following:

- (1) Knowingly participating in fraudulent activities relating to examinations, assignments or projects: e.g.
 - Plagiarism - claiming or implying that the ideas or works of others are one's own original thoughts (includes making use of reports, term papers, films or other writing advertised for sale).
 - Writing reports, etc., or completing projects for others to submit for evaluation.
 - Submitting work that has been submitted in another class (unless there is written permission and it is acceptable to the instructor).
 - Taking examinations for another student. Any form of cheating during the administration of an examination.
 - Intentionally missing examinations to obtain information from class members for illegitimate make-up of examinations.
 - Providing material or information to another person with knowledge that these materials or information would be used improperly.
- (2) Theft of examinations, projects, grade books, etc. Alteration of grades or scores on examinations, reports or in grade books. Procedures and penalties: A faculty member who finds beyond a reasonable doubt that a student has committed an act of academic dishonesty shall have the option after consultation with the academic dean of imposing one of the following penalties:
 - Substitute examination or assignment.
 - A grade of "F" for examination or assignment.
 - Expulsion from the class with a grade of "F" for the course.
 - Recommendations to the academic dean that the student be expelled from the college.

In addition to being honest, Kentucky Wesleyan students are expected to be civil and respectful to their instructors and fellow students. The faculty member may handle first-time, relatively minor offenses by himself or herself. The faculty member should include the Vice President of Academic Affairs in more serious cases. The Vice President of Academic Affairs may withdraw the student from the class and/or file disciplinary charges to the Vice President

of Student Services. See “Student Code of Conduct,” standard #10, in the KWC Student Handbook.

Procedures for review or appeal of penalties may be found in the Kentucky Wesleyan College Student Handbook.

Disability Support Statement: *“Kentucky Wesleyan College is committed to providing access to programs and services for qualified students with disabilities. If you are a student with a disability and require accommodations to participate and complete requirements for this class, notify me immediately and contact Dr. Leah Hoover at the Office of Disability Services (FOB #15 or 270-852-3212) for verification of eligibility and determination of specific accommodations.”*

Tentative Schedule:

Week	Dates	Monday	Wednesday	Friday
1	8\26 – 8\28		Introduction	2.1
2	8\31 – 9\4	2.2	2.3	2.4
3	9\7– 9 \11		3.2	3.3
4	9\14 – 9\18	3.4	Catch up	Review
5	9\21– 9\25	Test 1	1.1	1.2
6	9\28 – 10\2	1.3	1.4	1.5
7	10\5 –10 \9	1.6	4.1	4.1
8	10\12– 10\16	4.2	4.2	
9	10\19– 10\23	4.3	4.3	Review
10	10\26– 10\30	Test 2	5.1	5.2
11	11\2– 11\6	5.3	6.1	6.1
12	11\9– 11\13	6.2	6.3	6.4
13	11\16– 11\20	7.1	7.2	Review
14	11\23– 11\27	Test 3		
15	11\30– 12\4	Presentations	Presentations	Review

Disclaimer Statement: The professor reserves the right to make changes to the syllabus, including project due dates and test dates (excluding the officially scheduled final examination), when unforeseen circumstances occur. These changes will be announced as early as possible so that students can adjust their schedules.