MAT 131  
Number Systems of Arithmetic

Instructor: Dr. David Jay Hebert  
Office Phone: 846-4508

Instructor's Office Hours:
10.00 to 12.00 MWF 9.20 to 10.50 TTH and 1.00 to 2.00 on MW
Other times by appointment

Mat 131 Number Systems of Arithmetic: Structure and properties of the number systems of arithmetic. Primarily for prospective or in-service teachers. Prerequisite: MAT103 or 104


Objectives: The student at the end of this course should be able to solve problems using Polya’s step procedure, design and recognize patterns in problems, articulate reason and solutions to problems. With respect to number systems the student will understand various numeration systems and the operations on whole numbers, decimals and fractions. The student will further investigate the nature of numbers and sets.

Content to be Covered:
   Sets and operations using sets
   Whole Numbers operations and properties
   Number Theory
   Fractions
   Decimals, Ratios, Proportions and Present

Methods of Instruction: lectures small group work and discussions are used to convey the information in this class.

Requirements
1. Regular and punctual attendance as stated in this syllabus.
2. Student preparation of homework assignments.
3. Student participation in class discussions and group work.

Evaluation and Grading
1. Assigned homework will be collected at irregular and possibly unannounced intervals and graded at the discretion of the instructor. Because communication is an essential part of everyday life, assignments involving writing will be made and graded.
2. Unannounced daily quizzes may be given throughout the semester.
3. Scheduled tests, three or four, will be given during the semester.
4. For each day you are absent one point will be subtracted from 30 points. At the end of the semester your remaining points will be divided by 30 to determine 5% of your grade.

Grading and Grading Scale

Grades will be assigned according to the following scale:

   A  100%-94%   B  93%-84%   C  83%-74%   D  73%-65%   F  Below 65%
Grading Continued:

There are four categories of scores for this class: tests, homework/quizzes, attendance and final examination. Each category will account for a various amount of your final average according to the following weights:
tests - 65%, attendance 5%, final examination - 20% and homework/quizzes - 10%.

Within each category the average will be computed on a part out of total procedure. For example, suppose that you receive the following scores of three test: 51 out of 57, 78 out of 123, and 44 out of 45. The test average will be computed as follows:

\[
\frac{51 + 78 + 44}{57 + 123 + 45} = \frac{173}{225} = 76.89\%
\]

No late assignments will be accepted, but the two lowest homework - quizzes will be dropped.

Cheating and plagiarism are not tolerated. If it is established that a violation has occurred, the instructor may determine the penalty, or he may report the offense to the department chair and dean of the school. The usual penalty involves a grade of zero on the test, examination, or paper in question.

Class Attendance
1. Prompt and regular attendance is necessary for success in this course. In order to receive credit in this course, the student must attend a minimum of 75% of the class meetings. Classes meeting three times per week will be allowed a total of 11 absences, and classes meeting two times per week will be allowed 7 absences, excused and unexcused. If you exceed the allowable number of absences, a grade of “F” will be assigned as the final grade in the course.
2. When a student is tardy for class, it is the student's responsibility to request that the faculty member change the recorded absence to a tardy. This must be done on the day the tardy occurred. A maximum of 3 tardies will be allowed. Any additional tardies will be recorded as unexcused absences.

Classroom Policies and Make-Up Tests:
Students are expected to conduct themselves in a professional academic fashion at all times. Cell phones are not to be used in this class for any reason. If you have a cell phone out, you may and will be asked to leave the class for the remainder of the period. Make-up examinations will be scheduled at a time convenient to the instructor.

Important Dates:
September 19  Last day a course may be changed from credit/audit
September 19  Grades of W or F in effect
November 9    Last day to withdraw from a course

A drop is not effective and complete until the drop slip has been signed by all parties designated and turned in to the Registrar's office.

If a student has a disability that qualifies under the American with Disabilities Act and requires accommodation, he should contact the Academic Support Lab (Union 311; phone 846-4654) for information on Appropriate policies and procedures.

The instructor reserves the right and privilege to change and alter these guide lines with due notice to the student.