Bemidji State University

MATH 3064: Number Concepts for Teachers

A. COURSE DESCRIPTION

   Credits: 4  
   Lecture Hours/Week: 0  
   Lab Hours/Week: 0  
   OJT Hours/Week: *.*  
   Prerequisites: None  
   Corequisites: None  
   MnTC Goals: None  

   This course provides a background in number concepts that are pertinent to school mathematics. Topics  
   include scientific notation, number sense, properties of integers, prime and composite numbers, divisors, 
   GCDs, LCMs, the number of divisors, the sum of divisors, the Euclidean Algorithm, famous unsolved  
   problems, finite mathematical systems, modular arithmetic, introductory graph theory and applications, 
   permutations, combinations, sorting, congruences, sequences, direct and indirect proofs, mathematical 
   induction, and traveling salesman problem and algorithms. Emphasis will be given to problem solving 
   techniques as they relate to number concepts. Prerequisite MATH 1011 or equivalent or consent of 
   instructor. Might not be offered every year.

B. COURSE EFFECTIVE DATES: 01/13/2014 - 01/07/2021

C. OUTLINE OF MAJOR CONTENT AREAS

   None

D. LEARNING OUTCOMES (General)

   None

E. Minnesota Transfer Curriculum Goal Area(s) and Competencies

   None

F. LEARNER OUTCOMES ASSESSMENT

   As noted on course syllabus

G. SPECIAL INFORMATION

   None noted