Understanding and Teaching Mathematics at the Elementary and Middle School Levels

MATH 6155 - Number Theory for Teachers

Governors State University
June 16 – August 6, 2015
Tuesday and Thursday, 1:30 – 4:20 p.m.

MATH 6155 Number Theory for Teachers – 3 graduate credit hours

This course is designed to model effective teaching strategies to promote a deep understanding of mathematical content and skills of critical thinking and problem solving skills among students at elementary and middle school levels. This course will introduce mathematical concepts and theories at elementary and middle school levels. Topics include whole numbers, decimals, fractions, integers, rational numbers, irrational numbers and real numbers; concepts of operations and related properties; factors and multiples, GCF, and LCM; prime and composition numbers; concepts and operations and exponents and scientific notations; and concept/estimation of radicals. *Prerequisite: None*

Instructor Expertise: Dr. Xiaobo She is an Assistant Professor of Mathematics Education in the College of Education at GSU. Besides teaching mathematics methods and content courses for pre-service teachers, Dr. She has been deeply involved in efforts to promote professional development in mathematics for in-service teachers at elementary and middle school levels. In terms of her background, Dr. She earned a BS in Chemistry, certifications to teach mathematics at 4-8, 9-12 grade levels and Ph.D. IN Curriculum and Instruction with a focus on Mathematics Education at Texas Tech University. Before joining the faculty at GSU, Dr. She worked as a middle school and secondary teacher in both Texas and Kentucky. With a solid understanding of the public school system, her current courses are well prepared to meet the needs of Common Core State Standards for Mathematics.

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