

**MATH S-301. Theory and Practice of Teaching Number Theory (CRN: 31668)**

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Topics include: rules of arithmetic, the ring of integers, order axioms and well-ordering of the natural numbers, the division algorithm and Euclidean algorithm, primes and divisibility, congruence and modular arithmetic. Additional topics may include: palindromes, Fibonacci numbers, combinatorial formulas, four numbers game, Egyptian fractions.