

MATH 392 (MATH 613A)
Elementary Number Theory
Fall 2016

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Text: *Elementary Number Theory*, 2nd Edition, by Charles Vanden Eynden, Waveland Press.

Final Grade:

There will be a Mid-term exam	30%
Final	60%
Assignments	10%

Content: Topics to be covered:

- Euclidean algorithm, gcd, lcm, primes, fundamental theorems of arithmetic;
- congruences, solving linear congruences, Chinese remainder theorem, higher order congruences;
- quadratic reciprocity;
- factorization, primality testing;
- diophantine equations.