## Test 2 Study Guide

CIS 306

Dr. John P. Baugh - Winter 2021

Total:	/ 150
1. [15 pts]	Cryptography calculation (RSA)
2. [15 pts]	Cryptography calculation (RSA)
3. [15 pts]	Modular arithmetic
4. [15 pts]	Congruence modular arithmetic (using the (a-b)/c property)
5. [20 pts]	Greatest common divisor (GCD) using Euclid's algorithm
6. [20 pts]	Two-person, zero sum game clear equilibrium strategy (not mixed strategy)
7. [15 pts]	Finding vectors given points
8. [15 pts]	Find magnitudes of given vectors
9. [10 pts]	Finding distance from a point to a line
<ul> <li>10. [10 pts] Given a polygon, use the Surveyor's formula to find the area</li> <li>Make SURE to know what clockwise and counter-clockwise mean, and why they're important for this formula.</li> </ul>	

- With a triangle, it's not a big deal (you flip the result if you get a negative)
- With a polygon with greater than three sides, you will get a very different answer if you don't know clockwise vs counter-clockwise