Math 1303 - Math in the Liberal Arts   Fall 2014

COURSE INFORMATION	Lecture Location:	MTH 215
	Lecture Times:	MWF 13:00 – 13:50
	Instructor:	Dr. Karl Frinkle
	Office:	MTH 112
	Office Hours:	MWF 9:00 – 9:50, 11:00 – 11:50, MW 15:30 – 16:30,
		TR by appointment only
	Office Phone:	(580) 745 – 2028
	E-mail:	kfrinkle@se.edu
	Website:	http://homepages.se.edu/kfrinkle

TEXT   *A Survey of Mathematics with Applications* (9th edition), Angel, Abbott and Runde, ISBN # 9780321759665

COURSE OVERVIEW   This course is an overview of mathematics including basic reasoning, problem solving, set theory, logic, geometry, number theory, probability, and statistics.

As a general education course, this course will satisfy the goal of the mathematical or quantitative reasoning component of general education: to develop the ability of students to understand and apply mathematical abstraction. As such, students will (1) solve problems using the principles of algebra or symbolic logic; (2) apply mathematical reasoning to analyze and interpret quantitative information; and (3) use and interpret mathematical formulas.

COURSE OBJECTIVES   By the end of the, students should be able to:
- Identify statements as simple or compound and classify compound statements.
- Write statements in symbolic form.
- Construct correct truth tables for compound statements involving up to three simple statements.
- Determine whether compound statements are equivalent.
- Determine whether short arguments are valid or invalid.
- Identify and use appropriate set notation.
- Use appropriate vocabulary in set theory.
- Construct and use Venn diagrams to solve application problems.
- Construct statistical graphs and identify information from statistical graphs.
- Identify, compute, and interpret measures of central tendency and measures of dispersion.
- Identify polygons.
- Determine unknown lengths and angles in geometric figures.
- Compute perimeter and area and similar geometric measurements.
- Convert numerals between various systems of numeration.
- Convert numerals between various bases.
- Identify types of numbers.
- Compute different representations of equal numbers.
- Identify different types of probability.
- Compute probabilities and odds.
- Use the internet or library resources to write a paper in mathematics.

GRADES   There will be four exams worth 100 points each. Exam dates will be given during class, but you should expect one every two or three weeks. There will be a final exam worth 100 points. The final exam is comprehensive and will be given on Wednesday, December 10th from 14:00-16:00. There will be no makeup exams after the test dates.

The total of all quizzes will be worth 100 points. Homework will be assigned at the end of each

class and quizzes on the homework will be given approximately two class days after the homework is assigned, unless designated otherwise. No makeup quizzes will be given but only the ten highest will count.

There will be a paper and oral presentation assigned during the semester worth 100 points.

There are a total of seven 100 point scores and the lowest of these seven will be dropped to bring the point total for the semester to 600 points.

Grading will be done on a straight scale:

Letter Grade	Percentage Range	Points Range
A	90-100 %	540-600
B	80-89 %	480-539
C	70-79 %	420-479
D	60-69 %	360-419
F	0-59 %	0-359

POLICIES

Cheating will not be tolerated in any shape or form. If you are caught cheating, it will be reported to the appropriate academic offices, and appropriate action will be pursued.

All cell phones, pagers, CD/MP3 players, laptops, calculators and other such devices must be turned off and put away before class begins. If you are caught using a cell phone or any other electronic device during class, your final grade will be dropped by **one letter grade per incident**.

It is also expected that everyone will behave in a kind and courteous manner towards fellow students and the instructor.

I reserve the right to change any policies as I see fit to ensure that you are indeed receiving the best possible education that I can give you in the subject matter at hand. If I feel a certain aspect of the course does not appear to be effective in its method, I will attempt to change it (for the better I hope).

IMPORTANT DATES FOR FALL 2014

- 2014.08.18 - Classes begin
- 2014.08.22 - Last day to enroll in or add classes
- 2014.08.22 - Last day to drop a class with no grade record
- 2014.08.22 - Last day to drop a class with refund/no charges
- 2014.10.15 - Last day to drop a class with automatic W
- 2014.10.31 - Last day to complete final application for graduation
- 2014.11.14 - Last day to drop a class
- 2014.12.10 - Final Exam from 14:00-16:00
- 2014.12.12 - Classes end

SPECIAL ACCOMMODATIONS

Any student needing special accommodations due to a disability should contact the Coordinator for Disability Services, GDJ Student Union, Suite 328 or call (580) 745 – 2392 (TDD# 745 – 2704). It is the responsibility of each student to make an official request for accommodations to the Coordinator.

AT-RISK STUDENTS

Any student experiencing mental or emotional issues who desires free, confidential, clinical counseling is encouraged to contact the SE Counseling Center at (580) 745 – 2988 to schedule an appointment during normal working hours Monday – Friday, 8:00 AM to 5:00 PM. For after hours mental health emergencies, please call SE Campus Police at (580) 745 – 2911 or the Mental Health Crisis Hotline at 1 – (800) – 522 – 1090.