MATH 135, FINITE MATH

COURSE TITLE: Finite Math

COURSE NUMBER: MATH 135

CREDIT HOURS: 3

INSTRUCTOR: Ms., Rebecca Cambron, rcambron@nafcs.k12.in.us

 Room A216 Phone 812-542-8504 ext 3033

CATALOG DESCRIPTION: Surveys solving and graphing linear equations and inequalities, elementary set theory, matrices and their applications, linear programming, and elementary probability. A standard finite mathematics course.

MAJOR COURSE LEARNING OBJECTIVES: Upon successful completion of this course the student will be expected to:

1. Probability and Sets
2. Solve systems of linear equations using graphing, the substitution method and the elimination method.
3. Perform addition, subtraction and multiplication on matrices.
4. Solve systems of linear equations using various matrix methods.
5. Solve linear programming problems using graphical techniques or the simplex method.
6. Perform the set operations of union, intersection, and complementation.
7. Use Venn diagrams to illustrate properties of sets.
8. Use permutations, combinations, and other counting techniques.
9. Compute probabilities.
10. Use tree diagrams to compute probabilities.
11. Use Markov chains to calculate probabilities.
12. Use and understand variance, standard deviation, the normal distribution, and expected value.
13. Solve a variety of application problems in the above areas.
14. Use a scientific and/or graphing calculator proficiently as related to coursework.
15. Use computer technology which may include the Internet, the Web, email, or computer tutorials to enhance the course objectives.

COURSE CONTENT: Topical areas of study include --

Linear models

Systems of linear equations

Linear programming: graphical or simplex methods

Sets and Venn diagrams

Permutations and combinations

Probability

Expected value

Variance and standard deviation

Markov chains

Matrices

TEXTS/CURRICULUM MATERIALS: Finite Mathematics

 Textbook website: [www.aw.com/lgr](http://www.aw.com/lgr)

**ACADEMIC HONESTY STATEMENT:**

Floyd Central High School is committed to academic integrity in all its practices. The faculty value intellectual integrity and a high standard of academic conduct. Activities that violate academic integrity undermine the quality and diminish the value of educational achievement.

Cheating on papers, tests or other academic works is a violation of Floyd Central High School

rules. No student shall engage in behavior that, in the judgment of the instructor of the class, may be construed as cheating. This may include, but is not limited to, plagiarism or other forms of academic dishonesty such as the acquisition without permission of tests or other academic materials and/or distribution of these materials and other academic work. This includes students who aid and abet as well as those who attempt such behavior.

**COPYRIGHT STATEMENT:**

Students shall adhere to the laws governing the use of copyrighted materials. They must insure that their activities comply with fair use and in no way infringe on the copyright or other proprietary rights of others and that the materials used and developed at Floyd Central High School contain nothing unlawful, unethical, or libelous and do not constitute any violation of any right of privacy.

**ADA STATEMENT:**

Floyd Central High School seeks to provide reasonable accommodations for qualified individuals with documented disabilities. If you need an accommodation because of a documented disability, please contact the Office of Disability Support Services. If you will require assistance during an emergency evacuation, notify your instructor immediately. Look for evacuation procedures posted in your classroom.

**SCHOOL IMPROVEMENT LITERACY GOALS:**

All students will improve their reading comprehension skills and their ability to interact with informational texts.  Reading strategies in this course will include academic vocabulary, mapping, and K-N-W-S worksheets

**ATTENDANCE:**

Attendance will be taken on a daily basis from a seating chart that will be determined at the beginning of each semester. When you are absent, you are responsible for any missed work. You should check the assignment calendar or my website for missed assignments. Per school policy, more than 8 unexcused absences per semester will result in a failure for that semester. (Tardies of more than 5 minutes are considered a full absence.

**\*Note: All students are expected to stay in their assigned seats until the bell has rung.**

**TARDIES:**

Students will be assigned a tardy if they are not in the classroom when the bell rings. I will be enforcing school policy for tardies. This includes detentions after the 3rd tardy and SAL after the 4th.

**EVALUATION:**

Points accumulated from tests, quizzes, homework, writing assignment, and projects will determine a student’s grade. Tests and major projects will be worth 60%, quizzes and small projects will be worth 30%, and homework will be worth 10%. Projects will be placed in one of the 3 categories depending on its point value. The semester grade will be a running total. The semester grade will be worth 85% and the final exam will be worth 20%.

The following grading scale will be used:

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| --- | --- | --- | --- |
| A+ | 100-97% | C+ | 79.99-77% |
| A | 96.99-93% | C | 76.99-73% |
| A- | 92.99-90% | C- | 72.99-70% |
| B+ | 89.99-87% | D+ | 69.99- 67% |
| B | 86.99-83% | D | 66.99-63% |
| B- | 82.99-80% | D- | 62.99-60% |
|  |  | F | 59.99- below |