

COURSE OUTLINE

CLASS: **Discrete Mathematics**

PERIODS: **III** (11:28 a.m. – 1:24 p.m.)

INSTRUCTOR: **Coach Atkins**

DESCRIPTION: *Discrete Mathematics* is a practical math course consisting of six key units: **probability, fair outcomes, statistics, matrix applications, graph theory, and sequences**. Emphasis is placed on the practical application and modeling of these topics. Students are introduced to using math to problem-solve in networks, with social choices, and in decision-making. Prerequisites for this course include passing Math 1, 2, and 3, having a working knowledge of basic math operations and manipulations.

GRADING: **Weighted Average System**

A student's grade comes from various categories, which are weighted differently. For the final course grade, each quarter counts as 40% and the cumulative North Carolina Final Exam counts as 20%.

REQUIREMENTS: **Unit Tests (40%)**

Cumulative tests will be given over each main topic or unit. These tests are graded for accuracy and include following directions and showing work. Students are expected to take the test when assigned. Test corrections will be completed in class for partial credit to improve score.

Quizzes (30%)

Every week, a short graded quiz will be given. Quizzes are also graded for accuracy and include following directions and showing work. Retaking a quiz must be approved by the instructor; students are expected to take the quiz when assigned.

Projects (10%)

Most units will have at least one real-world project assigned. Projects must be very neat and will be graded according to a set rubric given in class. Students **MUST** turn in their hand-written rubric with their project. *Unexcused late projects earn a maximum score of 60!*

Practice/Activities (20%)

Practice work and activities are collected *periodically* and graded for **completion, effort, and following directions**. Students may have points deducted for being off-task, not following directions, not being prepared, or not participating. Math practice is VITAL! Therefore, students must complete all assigned take-home practice! This practice is graded for **effort and completeness** (this includes showing all work). All homework should be **written neatly**, and should include the student's first and last name and written work. **Credit is NOT given for undone, partial, or sloppy work.** Late work receives half of the earned credit, but ***will not be accepted*** after that unit's quiz/test has been given!

Extra Credit

Plenty of opportunities for extra credit are available! The POD (Problem Of the Day) that is given most days at the beginning of the class period is the main way to receive extra credit. Although all students *must* attempt the POD, correct answers (with shown work) count as extra credit (there is no penalty for a wrong answer). During the POD time, there will be absolutely **no** communication or collaboration! Extra credit is also given for *properly* correcting the instructor, as well as for other things TBA.

- MATERIALS:
- **at least 2** standard, no. 2 pencils (may use mechanical) with erasers
 - **red pen** (for in-class, peer grading)
 - **3-ring binder with loose-leaf paper (no spiral-bound themebooks)**
 - TI-83 (or better) graphing calculator is recommended but not required.

EXPECTATIONS: Students are expected to follow directions, give effort, and have respect. They should act responsibly and use common sense. Students must be **ready for class** each day when the bell rings, and will be expected to do their best on assignments. All students must pay attention during the teaching, take notes when directed, participate in discussions/activities, answer questions when called upon, and ask questions when necessary. **Completing assignments, participating in class, and briefly reviewing daily are the best methods of ensuring success.** *All classroom interruptions must be reserved for true emergencies only!* Each student should act responsibly and be considerate of others. **If absent from class, it is the STUDENT'S responsibility to contact the instructor, find out what was missed, and arrange to make up any missed work.** Attendance and punctuality are vital to the student's success in school. Students must be present in class for at least HALF of the class period to avoid being counted absent. Students should include their first *and* last name on **all** assignments and keep track of all grades. Students are expected to follow NC, KCS, ALBHS, and classroom rules and policies.

COMMUNICATION: It is **vital** that students contact the instructor whenever any difficulty arises. A class website is available at ***coachedge.weebly.com***. The best methods of personal contact include seeing the instructor before/after class or via e-mail (eduel.atkins@kcs.k12.nc.us).

DISCIPLINE: Should students fail to conduct themselves in a reasonable manner, consequences will be administered to correct the problem. These consequences, based on the severity and frequency of the problem, may consist of student conferences, after-school requirements, parent contacts, parent conferences, after-school detentions, or administrative write-ups.

MISCELLANEOUS: Students should refer to the 2017-2018 *A. L. Brown Student Handbook* for any questions regarding school rules, dress, etc. **Discrete Math Indicators** are available online through NCDPI or on my webpage at ***coachedge.weebly.com***. Tutoring is available most mornings and afternoons--see any math teacher for a schedule.