Professor: David McClendon (2046 ASC, phone x2574 (231-591-2574 off campus), hours M 4-5, TR 2-3, W 3-4 or by appointment, email: `mcclend2@ferris.edu`)

Lectures: TR 12:00-1:15 in STR 202.

Textbook: *Finite Mathematics* by Soo T. Tan, 11th edition (ISBN 9781305758827).

Calculator: On most (but not all) graded assignments, you will be permitted to use a calculator. You need only a standard scientific calculator, but a graphics calculator like a TI-80 series model would be helpful in this class.

Web: I maintain a personal web page at `http://mcclendonmath.com/122.html`; there's nothing there yet, but handouts and other documents will be periodically uploaded there.

Prerequisite: Math 115 with a grade of C- or better, or the equivalent. Essentially this means algebra.

Course material: Lines, systems of linear equations, linear programming, and interest.

Learning outcomes: After completing Math 220, it is my hope and expectation that students will be able to:

1. Write equations of lines and apply linear equations in solving supply-demand problems;
2. Solve systems of linear equations;
3. Perform matrix operations and apply matrix operations to solving systems and input-output models;
4. Graph linear inequalities and solve linear programming problems graphically (including applications);
5. Solve linear programming problems using the simplex method; and
6. Solve problems involving simple and compound interest, find present and future values of an annuity, and solve amortization problems.

Grading policy: Class participation: 5%. Homework: 8%. Quiz average: 8%. Midterm exams: 18% each. Final exam: 25%. Grades will be curved at the end of the semester, but an average of 90% guarantees you at least an A-, an average of 80% guarantees you at least a B-, etc.

Attendance policy: I have no formal attendance policy. That said, **nothing** is more correlated with strong performance in my classes than attendance in lectures.

Homework: There will be daily homework assignments, taken from the textbook. These assignments are **occasionally** collected on dates not announced in advance and graded not for correctness, but for completion. You receive full credit if it looks like you made a serious attempt to solve most of the problems, and you will not if it looks like you just copied answers or if you only did a small amount of the problems. While I don't deduct for errors, I will make comments on your homework while grading to help keep you from making the same mistakes on exams.

Quizzes: There will be nine in-class quizzes on the dates listed on the attached course calendar (I reserve the right to change these dates if necessary). These are ≤ 10

minutes long and cover the material that has been covered in class since the previous quiz or exam. The lowest three quizzes are dropped; the other six are averaged to give your quiz average. Makeup quizzes are not given under any circumstances.

Midterms: There are three midterms given in class on the dates listed on the attached calendar. The midterms are not directly cumulative, but mathematics is "inherently cumulative".

You may make up an exam that you miss (whether your absence is excused or not) but the makeup exams are considerably more difficult. If you miss an exam, contact the professor; you are to make up the exam at the *earliest possible time*.

Final exam: The final exam is cumulative, and has the same format as the midterms.

Supplies: I recommend bringing a couple of colored pens or pencils to class each day, as some of the pictures we will draw to explain concepts are much more easily understandable when drawn in color.

Getting help: The best place to receive help is my office. In class, I will not have time to take many homework questions, and I will not be able to present all perspectives on a topic. In office hours, I am able to discuss the material at a much more friendly pace and offer some alternate viewpoints that may help you understand the material better.

If you cannot make my scheduled office hours, you can come talk to me anytime my office door is open. Also, I am more than happy to make an appointment to discuss the material with you. Send me an email.

Students with disabilities who require reasonable accommodations to fully participate in course activities or meet course requirements should register with the Educational Counseling and Disability Services office (x3057, `ecds@ferris.edu`). While ECDS will send me a letter outlining the accommodations to make for you, I would appreciate it if you could contact me immediately for assistance with any necessary classroom accommodations.

Academic dishonesty: Papers will be monitored for "magic answers". Issues with academic dishonesty are taken very seriously, will almost always result in an F for the class, and will be referred to the Office of Student Conduct.