

Professor: David McClendon (2046 ASC, phone x2574 (231-591-2574 off campus), hours MTWRF 1-2 or by appointment, email: mcclend2@ferris.edu)

Lectures: 12:00-12:50 PM in Starr 137.

Textbook: *Basic Technical Mathematics with Calculus*, 9th Edition, by Washington, ISBN 978-0-13-814226-1.

Web: This course has a Blackboard page at FerrisConnect (access through MyFSU); check this page regularly for announcements.

Prerequisite: Math 110 with a grade of C- or better, or 19/460 on ACT/SAT math sections.

Course material: Exponents, roots and radicals; scientific notation; rational expressions; functions and graphs, systems of linear equations up to 3×3 ; trigonometry up to and including the solutions of right and oblique triangles.

Learning outcomes: At the end of this course, it is my hope and expectation that you will be able to (among other things):

1. perform operations with exponential and radical expressions, and solve equations involving radicals;
2. apply factoring techniques to simplify algebraic expressions and solve a variety of equations (including linear, quadratic, and systems of linear equations);
3. find the length and midpoint of a segment joining two points in the Cartesian plane;
4. determine whether or not a relation represents a function;
5. sketch graphs of linear and quadratic functions;
6. model real world quadratic problems and solve them;
7. determine whether given lines are parallel or perpendicular;
8. compute the values of trigonometric functions of any angle; and
9. solve right and oblique triangles.

Grading policy: Quiz average: 20%. Three midterms: 20% each. Final exam: 20%. Grades will be curved at the end of the semester, but 90% will be no worse than A-, 80% will be no worse than B-, etc.

Attendance policy: I don't take attendance and have no formal attendance policy (other than that there are no makeup quizzes). That said, I have taught many math courses, and **nothing** is more correlated with strong performance in my classes than attendance in lectures.

Homework: There are daily homework assignments (posted to Blackboard) which are not collected. That said, doing the homework is essential to success in that the homework is your best practice for quizzes and exams.

Quizzes: There will be in-class quizzes on the dates listed on the attached course calendar (I reserve the right to change these dates if necessary). These are short (< 15 minutes long) and more often than not, consist of one problem. The lowest six quizzes are dropped; the other eighteen are averaged to give your quiz average. Makeup quizzes are not given.

Midterms: There are three midterms, given in class on the dates listed on the attached course calendar. None of the midterms are directly cumulative, but mathematics is “inherently cumulative”. You will not be permitted to use study aids or notes on the exams.

You may make up an exam that you miss (whether your absence is excused or not), but the makeup exams may be 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 as with the midterms, you will not be permitted to use any study aids.

Technology usage: You will need a scientific calculator (one that does trigonometry) for some of the quizzes and exams. You will not be permitted to use a mobile phone as a calculator during quizzes or exams, and calculators may not be shared during quizzes or exams.

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.