

Department of Mathematics and Statistics
MAT 150 — Algebra and Trigonometry — Fall 2017

Course Description: Course is an intensive study of college algebra and trigonometry. A combination of MAT 140 and MAT 145, it is a faster-paced course for students with some familiarity with the subjects. MAT 150 may be used as a “refresher” course to help prepare students for MAT 250. (5 credit hours).

Prerequisites: ACT math standard score of at least 23 or MAT 097. Restriction: A student who receives credit for MAT 150 may not receive credit for MAT 130, 140 or 145. (Credit for the combination of MAT 140 and MAT 145 will substitute for MAT 150.)

Course Objectives: Primary skills to be acquired involve algebraic manipulation, solving equations, understanding functions and their graphs, manipulating the graphs, understanding linear, quadratic, polynomial, exponential, logarithmic and trigonometric functions, and solving some simple real-world problems.

Instructional Activities: Lectures, problem solving, assignments.

Field, Clinical, Laboratory Experiences, Resources: None.

Instructor: Dubravko Ivanšić [DOO-brahv-ko EE-vahn-shich] Ivanšić is the last name.

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Office: Faculty hall 6A1 (in the Department of Mathematics and Statistics annex)

Course webpage: (A link to this has also been placed on Canvas.)

<http://campus.murraystate.edu/academic/faculty/divansic/17fall/150home.html>

Office Hours: Ask me or check the webpage.

Textbook & Content Outline: Marvin Bittinger et al, Algebra & Trigonometry, Graphs and Models, 6th edition (old editions will not work!), covering chapters (or their portions) J, 1–9.

Graphing calculator: A graphing calculator is required to take this course. The TI-84 is recommended, and is the one that I will use in class. Any other graphing calculator is OK, but be aware that you are responsible to learn how to operate it, as I can offer only limited help here.

Homework and worksheets: The list of homework problems is on the webpage and each section will be assigned after we cover it. I recommend that you first go over the assigned problems in the textbook using pencil and paper, and then use the online homework system MyMathLab to test your skill on the homework.

Afterwards, we will discuss the homework and work on similar problems using in-class worksheets, which are graded on completeness. To further promote a continuous effort in the course and give you an exercise in writing things down, you will be given worksheets to take home, which will be graded on correctness. Both in-class and take-home worksheets will contain some representative problems, but to succeed on tests you will need to work on all of the homework problems. Missed in-class worksheets and late take-home worksheets will lose points.

Don't fall behind: MAT 150 is a fast-paced course covering ideas that most of you have already seen in high school. We will not have time to cover everything that is required in class, therefore, you will have to fill in the gaps yourself. While in this course you will see and do many things you may have seen before, don't think that you can do them independently until you have made sure by working out problems on your own.

Mathematics is best learned by doing and to acquire proficiency it is essential that you do many homework problems. For quality results, expect to spend at least one to two hours of study time for every hour of class time. If some things aren't clear to you, come to me for help as soon as possible, and not the day before the exam...

Attendance: Students are expected to adhere to the MSU Attendance Policy outlined in the current MSU Bulletins. Attendance is strongly encouraged every day, and roll will be taken. If you missed ten or fewer classes during the semester, you get 3% bonus points. Note that you are not penalized for missing a class (the points are in excess to your total grade), so an absence is counted as such regardless of the reason (“excused” or not).

Seating: If there are seats available in the front rows of the classroom, no one will be allowed to sit in the back rows.

