

**Department of Mathematics and Statistics**  
**MAT 140 — College Algebra — Fall 2024**

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**Course Description:** Course develops and extends the student's basic algebra concepts and problem-solving skills in the context of functions, models, and applications. Topics include exponents and radicals, graphing, setting up and solving equations in linear, quadratic, and other forms, systems of equations, and operations on functions. Properties and applications of linear, quadratic, polynomial, rational, exponential, and logarithmic functions are studied. (4 credit hours)

**Prerequisites:** ACT math standard score of at least 21 or a satisfactory score on a placement exam or MAT 097; students with an ACT math standard score of 19 or 20 or MAT 110 with a minimum grade of C or better must register for a corequisite section.

**Course Objectives:** Primary skills to be acquired involve algebraic manipulation, solving equations, understanding functions and manipulating their graphs, understanding linear, quadratic, polynomial, exponential, and logarithmic 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.

**Phone & e-mail:** 809-3552, [divansic@murraystate.edu](mailto:divansic@murraystate.edu)

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

**Course webpage:** Has **office hours**; a link to it has also been placed on Canvas.  
<http://campus.murraystate.edu/academic/faculty/divansic/24fall/140home.html>

**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, 1–5, 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 MyLab 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 effort. To further give you an exercise in writing things down, you will be given worksheets to take home, which are graded on correctness. Missed in-class worksheets and late take-home worksheets will lose points.

**Don't fall behind:** MAT 140 develops some basic math skills. You have probably seen some of this material before, perhaps a long time ago, but it needs to be reinforced. Mathematics is best learned by doing, so to acquire the needed skills 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 you are having trouble with the material, seek help! Come to office hours, work with other students, take advantage of free tutoring, just don't let your confusion wait until it's exam time, because at that point there will be too little time to get the necessary help.

**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).

**Cell phones:** are not allowed on the desk during class. If I see you using one a lot, I will count you absent for the day. Unfortunately, this policy has been forced by students being glued to their cell phones even while in class.

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

**Participation in class:** is strongly encouraged, as your questions indicate what points need to be addressed in more detail. We will go over some homework in class. You are expected to have worked the problems at home in order to both ask and answer questions on the homework. Part of your final course grade is based on how active you are in class.

**Exams:** There will be four exams whose dates will be announced well in advance.

**Final exam:** is comprehensive and will be held on Monday, December 9th, at 1:30.

**Grade:** For your final grade, each of the four exams is worth 19%, online homework is worth 8%, take-home worksheets are worth 8%, in-class worksheets are worth 4%, and participation in class is worth 4% of the total. Your final exam grade replaces your poorest exam grade only if it is better, so if you are happy with your exam scores during the semester, you don't have to take it. (Note that getting a good grade on the final is more difficult than on a regular exam, since it covers the whole semester.) No extra credit work will be given to repair your grade. The final grade scale is approximately

90%–100%=A, 80%–89%=B, 70%–79%=C, 60%–69%=D, 0%–59%=E.

**Make-ups:** Make-ups for exams will be given only in cases of illness, field trips or other unavoidable circumstances. You will need to provide written verification of the reason for your absence in advance and as soon as possible. If you are unexpectedly absent from an exam, contact me by phone or e-mail **that same day** and arrange to take a make-up. The make-up should occur *soon*, which typically means “before I return the exam”. Make-ups for other graded work will be given at my discretion. Asking for a make-up more than once makes it less likely that I will grant it.

### **Important Dates:**

- i) Last day to Audit or Drop without a Grade: Aug 26
- ii) Last day to Drop Course with a “W” Grade: November 21

For more information on audits, drops, and/or “W” grades, please see the MSU Academic Bulletin/Catalog or visit [www.murraystate.edu/academics/RegistrarsOffice/Registration/index.aspx](http://www.murraystate.edu/academics/RegistrarsOffice/Registration/index.aspx)

**Academic honesty policy:** All students must adhere to the Policy on Academic Honesty described in the current MSU Academic Bulletin/Catalog. Students may appeal decisions related to academic dishonesty by following the Academic Honesty Appeal Procedure described in the current MSU Academic Bulletin/Catalog.

**Recording Notification:** This course may utilize recordings that capture students' faces and/or voices. These recordings may be used for course review by enrolled students and/or instructors, and will not be shared with anyone not enrolled, teaching, or aiding in the instruction of the course. Any video capturing student faces and/or voices will be destroyed after all students have been issued a grade for the course.

This course may require the recording of students' faces and/or voices by the university and/or its applicable technology vendor for the purpose of compliance with the university's testing integrity protocol, requiring the use of Respondus Monitor and/or Lockdown Browser for exams and/or quizzes. These testing integrity protocols may make reasonable requests to demonstrate that your testing environment remains free of impermissible aids. If a 360° video capture or scan of a student's residential environment at the time of the test or exam is not permitted, students must make every attempt to complete exams at another space that is appropriate and relatively free from distractions, such as a public library or other public space.

**Starfish:** Your success is important! Murray State University uses Starfish to communicate with students about academic progress and success. Check your Murray State email regularly for notifications and alerts sent through the Starfish network. If you need help, you can “Raise Your Hand” in Starfish to send an alert. Log into your Starfish account through myGate to use this and other features.

**Mental Health Resources:** If you or someone you know is experiencing mental health concerns or could benefit from speaking with a counselor, there are free and confidential resources available from three separate sources:

**Counseling Center** ([www.murraystate.edu/counselingcenter](http://www.murraystate.edu/counselingcenter)) offers free and confidential mental health counseling, offering both in-person and remote sessions for all enrolled students. C104 Oakley Applied Science, open 8:00-4:30 M-F, walk-in hours 9:00 to 2:00 M-F (when the University is open), 270-809-6851, [msu.counselingcenter@murraystate.edu](mailto:msu.counselingcenter@murraystate.edu)

**Psychological Center** ([www.murraystate.edu/psychologicalcenter](http://www.murraystate.edu/psychologicalcenter)) offers free and confidential counseling services, as well as psychological evaluations. 401 Wells Hall, 270-809-2504.

**TimelyCare** (Available in Canvas, at [timelycare.com/murraystate](http://timelycare.com/murraystate), or on the TimelyCare app) offers several free virtual services, including TalkNow, scheduled counseling appointments, health coaching, and on-demand yoga and meditation. Their services are available 24/7. In an emergency, you can also contact **Murray State Police** at 270-809-2222 or call the **24-hour crisis hotline** at 988.

**Students with Disabilities:** Students requiring special assistance due to a disability should visit the Office of Student Disability Services immediately for assistance with accommodations. For more information, students with disabilities should contact the Office of Student Disability Services, 423 Wells Hall, Murray, KY 42071. Telephone: 270-809-2018 (Voice) 270-809- 5889 (TDD). Email: [msu.studentdisabilities@murraystate.edu](mailto:msu.studentdisabilities@murraystate.edu). The Office of Student Disability Services will work directly with professors regarding any specific accommodation needs that may be applicable to the particular classroom setting.

**Non-Discrimination Policy Statement:** Murray State University endorses the intent of all federal and state laws created to prohibit discrimination. Murray State University does not discriminate on the basis of race, color, national origin, sex, gender identity, sexual orientation, religion, age, veteran status, or disability in employment or application for employment, admissions, or the provision of services and provides, upon request, reasonable accommodation including auxiliary aids and services necessary to afford individuals with disabilities equal access to participate in all programs and activities.

In particular and without limiting the preceding and pursuant to and consistent with the requirements of Title VI of the Civil Rights Act of 1964 and its regulations 34 CFR 100 et seq.; Section 504 of the Rehabilitation Act of 1973 and its regulations 34 CFR 104; Title IX of the Education Amendments of 1972, 20 USC 1681 et seq., and its regulations 34 CFR 106 et seq; and the Age Discrimination Act of 1975 and its regulations 34 CFR 110, Murray State University does not discriminate on the basis of race, color, national origin, sex, handicap, or age in its educational programs and activities. This non-discrimination in education programs and activities extends to employment and admissions and to recruitment, financial aid, academic programs, student services, athletics, and housing. Murray State is required by Title IX and 34 CFR part 106 not to discriminate on the basis of sex and the prohibition against sex discrimination specifically includes a prohibition of sexual harassment and sexual violence.

For more information concerning the application of these provisions contact: the Executive Director of Institutional Diversity, Equity, and Access/ Murray State University Title IX Coordinator, Murray State University, 103 Wells Hall, Murray, KY 42071. Telephone: (270) 809-3155; Fax: (270) 809-6887; TDD: (270) 809-3361; Email: [msu.titleix@murraystate.edu](mailto:msu.titleix@murraystate.edu).