

Dr. Donald Adongo, FH 6A-2

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Office Hours: MTRF 8:30 – 9:20 am; and by appointment

Section 2 CRN 11659

Meeting: 9:30 am – 10:20 am MTRF FH 307

<http://campus.murraystate.edu/faculty/dadongo>

DEPARTMENT: MATHEMATICS AND STATISTICS

COURSE PREFIX: MAT

COURSE NUMBER: 140

CREDIT HOURS: 4

I. TITLE:

College Algebra

II. COURSE DESCRIPTION AND PREREQUISITE(S):

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. A student may not receive credit for MAT 140 and 130 or 150. (MAT 140 in combination with MAT 145 will substitute for MAT 150.)

Prerequisite(s): ACT math standard score of at least 21 or MAT 097(105).

III. COURSE OBJECTIVES:

The student will be able to:

- A. Perform arithmetic operations on expressions that include rational exponents, radicals, and complex numbers;
- B. Perform basic operations with polynomials and rational expressions;
- C. Solve a variety of types of equations and inequalities;
- D. Apply the basics of Cartesian graphing to lines and circles;
- E. Demonstrate an understanding of the various classifications of functions and their graphs;
- F. Apply the properties of exponents and logarithms to solve exponential and logarithmic equations;
- G. Solve systems of linear equations in two and three variables.

IV. CONTENT OUTLINE:

- A. Basic Concepts of Algebra
- B. Graphs, Functions, and Models
- C. More on Functions
- D. Quadratic Functions and Equations; Inequalities
- E. Polynomial and Rational Functions
- F. Exponential and Logarithmic Functions
- G. Systems of Linear Equations and Inequalities

V. INSTRUCTIONAL ACTIVITIES:

Lecture, daily assignments, group work, projects, reading assignments, oral presentations, and quizzes on the material.

VI. FIELD, CLINICAL, AND/OR LABORATORY EXPERIENCES:

None

VII. TEXT(S) AND RESOURCES:

Algebra and Trigonometry, by Bittinger, Beecher, Ellenbogen, and Penna, 5th Ed. A graphing calculator is required for portions of this course and will be necessary for exams. Acceptable models include any TI-82, TI-83, TI-84, TI-85, and TI-86. The TI-80, TI-81, TI-89, and TI-92 are not allowed

VIII. EVALUATION AND GRADING PROCEDURES:

- A. Your course grade will be based on Exams, Homework (written), Online Assignments, and the Final Exam. Sixty percent of the course grade will come from 4 major exams (each exam counts 15 percent of the grade), the written homework and online assignments are each worth ten percent, whereas twenty percent of the course grade will come from the final exam.

Grading Scale:	
90 - 100 %	A
80 - 89 %	B
70 - 79 %	C
60 - 69 %	D
Below 60%	E

Exams: The Exams will test your comprehension of concepts and skills not covered on a previous exam. Exams may contain both problem-solving questions and essay questions. Exams occur for everyone (to be fair to everyone) on the scheduled date. Sometimes, however, extenuating circumstances do exist. If you absolutely must miss an exam, you are to stop by or call me (or leave a message with the office if I am not in when you call) before the exam to tell me why you cannot be at the exam. In addition, you must complete the "missed exam form" (see the course website) within one day. If you do not, you will get a zero on that exam with no opportunity to make it up. An excused missed exam will be made up in my office within two days (an extension may be granted in rare cases), with the grade to be determined as explained at that time. Our four exams will be **February 9, March 4, April 1, and April 26.**

Final: The Final will be a comprehensive exam covering any material addressed that semester. The Final exam will be on **Tuesday, May 10th at 8:00 a.m.** in **FH 307.**

Homework: Homework (written) will be assigned at the beginning of each section and will also be listed on the course web site. Homework will be collected at least once a week (generally Mondays). (**No Late Homework**). Homework must be completed in pencil, separate from your notes, and on loose-leaf paper or paper without rough edges. **Staple** your papers together if you have used more than one sheet otherwise your homework **will not be graded**. Your name and class meeting time should be written on the top right part of the first page.

Online Assignments: These are located at **www.MyMathLab.com**. The instructor will give you the Course ID. You will generally have two (2) attempts on each set of problems. The assignments will be available at the beginning of each section covered and will automatically switch off on the due dates. It is your responsibility to check online assignments at the start of any new sections.

Important Grade-dates: The last day to drop a course without receiving a grade is Monday, January 25. The last day to change a full semester class from AUDIT to CREDIT is Monday, January 25. The last day to drop individual courses and receive a grade of "W" (no penalty) is Monday, April 18. The last day to change a full semester class from CREDIT to AUDIT is Monday, April 18, if you qualify for an Audit. (See the Audit policy below.)

No classes during Spring break March 21-25.

B. Auditing: If you seek to change your status to audit, you must continue to do all the graded assignments, to attend classes regularly after the audit is given, to miss no more than 2 class periods after the audit is given, and to maintain at least a 40% average in the course. If these requirements are not followed, then an "E" will be earned for this course.

IX. ATTENDANCE POLICY:

Students are expected to adhere to the MSU Attendance Policy outlined in the current MSU Bulletins.

Class attendance will be taken daily. If you miss class you are responsible for obtaining the day's notes and assignments. While you are not graded on class attendance, you are expected to attend every class period or your grade will suffer (indirectly) if you do not attend. If you have four or less absences (or do not miss at all) this semester, I will drop your four lowest online assignment scores and two written homework scores. To level the playing field between those who must miss classes because of MSU and those who do not, the only kind of absence which will not be counted in this regard is a university-required absence. Thus, anything else (for instance, being sick, going on a job interview, taking care of a sick relative, etc.) will count as one of these absences.

Note the following provisions on arriving late to class or leaving early:

Every two tardies (arriving late) will count as an absence.

Leaving class early will count as an absence unless you provide me with a reason in advance.

X. ACADEMIC HONESTY POLICY:

Murray State University takes seriously its moral and educational obligation to maintain high standards of academic honesty and ethical behavior. Instructors are expected to evaluate students' academic achievements accurately, as well as ascertain that work submitted by students is authentic and the result of their own efforts, and consistent with established academic standards. Students are obligated to respect and abide by the basic standards of personal and professional integrity.

Violations of Academic Honesty include:

Cheating - Intentionally using or attempting to use unauthorized information such as books, notes, study aids, or other electronic, online, or digital devices in any academic exercise; as well as unauthorized communication of information by any means to or from others during any academic exercise.

Fabrication and Falsification - Intentional alteration or invention of any information or citation in an academic exercise. Falsification involves changing information whereas fabrication involves inventing or counterfeiting information.

Multiple Submission - The submission of substantial portions of the same academic work, including oral reports, for credit more than once without authorization from the instructor.

Plagiarism - Intentionally or knowingly representing the words, ideas, creative work, or data of someone else as one's own in any academic exercise, without due and proper acknowledgement.

Instructors should outline their expectations that may go beyond the scope of this policy at the beginning of each course and identify such expectations and restrictions in the course syllabus. When an instructor receives evidence, either directly or indirectly, of academic dishonesty, he or she should investigate the instance. The faculty member should then take appropriate disciplinary action.

Disciplinary action may include, but is not limited to the following:

- 1) Requiring the student(s) to repeat the exercise or do additional related exercise(s).
- 2) Lowering the grade or failing the student(s) on the particular exercise(s) involved.
- 3) Lowering the grade or failing the student(s) in the course.

If the disciplinary action results in the awarding of a grade of E in the course, the student(s) may not drop the course.

Faculty reserve the right to invalidate any exercise or other evaluative measures if substantial evidence exists that the integrity of the exercise has been compromised. Faculty also reserve the right to document in the course syllabi further academic honesty policy elements related to the individual disciplines.

A student may appeal the decision of the faculty member with the department chair in writing within five working days. Note: If, at any point in this process, the student alleges that actions have taken place that may be in violation of the Murray State University Non-Discrimination Statement, this process must be suspended and the matter be directed to the Office of Institutional Diversity, Equity and Access. Any appeal will be forwarded to the appropriate university committee as determined by the Provost.

Note: Faculty reserve the right to invalidate any examination or other evaluative measures if substantial evidence exists that the integrity of the examination has been compromised.

In this Course, violations of Academic Honesty will result in a failing grade awarded on the particular exercise involved.

XI. 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, gender, sexual orientation, religion, age, veteran status, or disability in 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. For more information, contact the Executive Director of Institutional Diversity, Equity and Access, 103 Wells Hall, (270) 809-3155 (voice), (270) 809-3361 (TDD).

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 should contact the Office of Student Disability Services, 423 Wells Hall, Murray, KY 42017. 270-809-2018 (voice) 270-809-5889 (TTD).

XII. Other required departmental or collegiate committee information

Electronic Communication Policy: It is the default policy of the Department of Mathematics and Statistics that, without the prior consent of the course instructor, no device may be used for electronic communication in class. This shall include cell phones, smart-phones, computers, laptops, and tablets. In addition, this includes verbal calling, incoming calls, email, text messaging, the use of cell phone calculators on tests and quizzes, and the use of the wireless capabilities of calculators or other electronic devices. Unless given special permission in advance from the course instructor for potential cases of emergency or critical family situations, cell phones must be kept on silent and out of sight (i.e. secured to a person's belt or kept in a bag or purse away from desks). Should a student's cell phone be visible, ring, or should the student be engaged in some other form of unauthorized usage that the course instructor finds to be disruptive to the class, the student may be asked to leave class and not return for that class period, and be counted absent for that day. Similar restrictions and penalties apply to use of other electronic devices, unless permitted by the instructor for that class period.

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Please fill out this portion, detach and return to the instructor by **Friday January 22, 2016**.

By my signature below, I certify that I have received a copy of the course syllabus for MAT 140-(02) taught by Dr. Donald Adongo during the Spring Semester of 2016. Furthermore, I certify that I have read and understand the contents of the course syllabus.

Printed Name:

Signature:

Date: