Dr. Donald Adongo, FH 6A-2

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Office Hours: MTR 9:00 – 10:20 am; or by appointment

Section 2 CRN 80588

Meeting: 10:30 am - 11:20 am MTWRF FH 301

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

DEPARTMENT: MATHEMATICS AND STATISTICS

COURSE PREFIX: MAT COURSE NUMBER: 150 CREDIT HOURS: 5

I. TITLE:

Algebra and Trigonometry

II. COURSE DESCRIPTION AND PREREQUISITE(S):

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

III. COURSE OBJECTIVES:

- The student will be able to:
- A. Demonstrate a theoretical, operational, and graphic understanding of functions including polynomial, rational, exponential, logarithmic, trigonometric;
- B. Analyze and solve application problems in algebra;
- C. Represent equations graphically through the use of graphing utility, and to integrate the algebraic and graphic interpretation of these concepts;
- D. Compute the values of the six trigonometric functions for key angles measured in both degrees and radians;
- E. Graph all six trigonometric functions and their transformations;
- F. Use the basic trigonometric identities to verify other trigonometric identities;
- G. Solve trigonometric equations;
- H. Solve right and oblique triangles;
- I. Use the concepts of trigonometry to solve applied problems.

IV. CONTENT OUTLINE:

- A. Equations, and Inequalities
- B. Graphs
- C. Functions and Their Graphs
- D. Polynomial and Rational Functions
- E. Exponential and Logarithmic Functions
- F. Trigonometric functions
- G. Acute angles and right triangles
- H. Radian measure and circular functions
- I. Graphing trigonometric functions
- J. Trigonometric identities
- K. Inverse trigonometric functions
- L. Applications of trigonometry and vectors
- M. Complex numbers and polar form

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, 6th 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 6 major exams (each exam counts 10 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 %	Α
80 - 89 %	В
70 - 79 %	С
60 - 69 %	D
Below 60%	Е

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 six exams will be **September 1, September 20, October 4, October 20, November 7**, and **November 21**.

Final: The Final will be a comprehensive exam covering any material addressed that semester. The Final exam will be on Tuesday, December 5th at 11:30 a.m. in FH 301.

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 once a week (Monday unless it is a holiday). (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 other wise 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 <u>Course ID</u>. 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 (or a W) is Monday, August 21. The last day to drop individual courses and receive a grade of "W" (no penalty) is Thursday, November 16. The last day to change a full semester class from AUDIT to CREDIT is Monday, August 21. The last day to change a full semester class from CREDIT to AUDIT is Thursday, November 16.

No classes during Labor day September 4, Fall Break October 5 - 6, and Thanksgiving break November 22-24.

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 5 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 four written homework scores. Excused absences fall into two broad categories: 1. Absence due to

personal illness or death in the immediate family or other extraordinary personal circumstance. Faculty may require appropriate authentication or documentation. 2. Absence due to student participation in a University Sanctioned Event in which the student serves as a representative of the institution.

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. 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 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

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 42071. 270-809-2018 (voice) 270-809-5889(TDD).

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.

Please fill out this portion, detach and return to the instructor by **Friday August 18, 2017**.

By my signature below, I certify that I have received a copy of the course syllabus for MAT 150-(02) taught by Dr. Donald Adongo during the Fall 2017 Semester. Furthermore, I certify that I have read and understand the contents of the course syllabus.

Printed Name:	

Signature:

Date: