Algebra & Geometry I   MAT 055   Fall 2015

Instructor: Mr. Aylward
caylward@leyden212.org

Office Hours:
Semester 1:
Tuesday – 7:00 A.M. – 7:25 A.M.
Wednesday – 8:20 A.M. – 8:45 A.M.

Semester 2:
Monday – 2:35 P.M. – 3:25 P.M.
Tuesday – 7:00 A.M. – 7:25 A.M.
Wednesday – 8:20 A.M. – 8:45 A.M.
Thursday - 2:35 P.M. – 3:25 P.M.
Friday - 2:35 P.M. – 3:25 P.M.

Overview: This course is a dual-enrollment course through Triton College. Successful completion of this course (a "C" or better with a passing grade on the final exam) will be recognized by Triton College. Successful completion of this course will exempt you from taking the placement exam for math, and will enable you to go directly into college level math (if you go to Triton).

Course Materials: The following is a list of what you will need for this course.
1. TI-83, TI-83+, TI-84, or TI-84+ (required)
 2. MyMathLab Subscription (required)
3. Elementary and Intermediate Algebra: Concepts and Applications, 5th edition; Bittinger (optional)
4. Geometry: Fundamental Concepts and Applications; Bass (required)

Expectations: The list shown below is designed to promote your success in this course. Failure to follow these guidelines could equate to failing this course.
1. For each hour of class time you are expected to work 2-3 hours outside of class reviewing notes and completing homework.
2. Attendance and punctuality is mandatory.
3. Your active participation during class time is essential. You will be regularly called on to answer questions throughout the lessons and work out problems at the board. During this time take thorough notes, as this will be your main support outside of class.
4. Academic honesty is expected at all times, during homework, quizzes, and tests.
        a. Aside from calculators, the use of electronic devices is forbidden during tests and quizzes.
         b. Students can seek out help on homework, but the assignment must be completed by no one but the enrolled student.
        c. Follow the Triton Academic Honesty Policy, which is reiterated in this syllabus.
5. Unacceptable behavior, such as being disruptive or text messaging, is grounds for being dropped from the class. The student will receive one warning prior to the possibility of being dropped.

6. If you are absent for a test or quiz, you must schedule and take it after school. All make up tests will be on MyMathLab, and there will be no partial credit given; answers will be simply right or wrong.

7. Utilize my office hours for extra help or Triton's Academic Success Center in A-112 for tutoring.

8. Students are required to be registered on the MyMathLab website by Wednesday, August 12th. If not, you will be dropped from the course.

Bonuses: There are two effort related incentives built into this course. Three major contributors to student success are homework completion, effort in class, and attendance.

1. Achieve a 90% average accuracy rate on homework at the end of the semester to drop a test score.

2. Maintain perfect attendance throughout the semester to drop four homework grades. MyMathLab.com: Your homework in this course will be online and graded for accuracy. Follow the directions below to access MyMathLab, where you will find your assignments. Homework completed after the due date will not be accepted. To register go to www.mymathlab.com.

Your grade in this course will be weighted using the percentage break down shown below.   This grade breakdown comes from Triton, and is a little different than what you typically see at Leyden.

15% Class Work and Homework (Detailed class notes, in class assignments, and online homework). Your grade will be calculated in My Math Lab.

20% Quizzes (As listed in the syllabus)

35% Tests (As listed in the syllabus)

30% Final Exam (As listed in the syllabus)

The grading scale shown below will determine your letter grade for this class.

A 90%   B 80%   C 70%   D 60%   F Below 60%

Receiving a grade of C or better:

1. You must score a 60% or higher on the final exam.

2. Your average grade for the entire course must be a 70% or more.

3. NOTE: The prerequisite for the next course is a C or better in this course.

Course Description: The study of properties of real numbers, solving first degree equations and inequalities, formulas, problem solving, the Cartesian coordinate system, operations with polynomials, and basic geometry. Course Objectives: Upon completing this course, students will develop:

1. Identify and apply the basic properties of the real number system.

2. Simplify fraction and perform the four operations on real numbers and polynomials.

3. Apply the order of operations to algebraic expressions.

4. Solve linear equations and linear inequalities in one variable.

5. Analyze and solve word problems (including those involving percent) using linear equations and inequalities.

6. Express solutions to inequalities using interval notation.

7. Graph and write the equations of lines (including horizontal and vertical lines) in slope intercept form and point- slope form.

8. Find slopes of lines and interpret slopes as rates for contextualized examples.

9. Apply the laws of exponents and scientific notation.

10. Classify, add, subtract, multiply and divide polynomials (including special binomials).

11. Demonstrate an understanding of basic geometry terminology, geometric figures, and angle relationships.

12. Identify the relationships in polygons, including special quadrilaterals.

13. Calculate perimeter, area and volume of basic figures.

14. Use properties to prove triangle congruence and use properties to solve similar triangle problems.

Academic Honesty Policy from the Triton College Catalog, 2012-2013 (pgs 33-34) Triton College closely adheres to principles of academic honesty and integrity. The academic honesty policy is designed to inform students and faculty of the expectations and procedures associated with the honest pursuit of a Triton College education. Overall, academic achievement is a product of personal commitment, and investigation of knowledge, and a pursuit of independent and honest work, both in and out of the classroom. All forms of cheating deprive the student of achieving true academic success and are therefore, considered a serious violation. Furthermore, all incidents of cheating will result in a disciplinary response from college officials. Below is a non-inclusive list of behaviors that are considered to be violations of academic honesty.

Examples of Academic Dishonesty
• copying someone else's work or answers
 • allowing another student to copy your work or answers for internal or external class assignments
• using materials or information hidden on one's person during quizzes and examinations
• obtaining and using tests and answers in an unauthorized fashion
• providing course materials such as papers, lab data, reports, or answers to be used by another student
• fabricating information for the purpose of completing an assignment, quiz, exam or presentation
• taking an exam in place of another student or having someone take an exam in your place
• turning in the same paper to two different classes without receiving permission from both instructors
• copying a computer program for unauthorized use
• breaking into or utilizing college owned computer files in an unauthorized manner
• altering a grade sheet or forging a signature on an academic document
• enrolling in a telecourse while serving as an employee in the Media Center or within six months of termination Another example of academic dishonesty, known as plagiarism, is less simple to define, but is nonetheless considered a serious violation. When using direct quotes or ideas created by someone other than yourself, it is imperative that the source of information be clearly identified. It is appropriate and acceptable to borrow ideas, thoughts and data from other sources as long as the original authors receive credit for their contributions through referencing.
Examples of Plagiarism

• borrowing or paraphrasing (other than common knowledge) for a paper without referencing the source intentionally or knowingly representing the words or ideas of another as your own
• purchasing a term paper or having someone write a paper to submit as your own work All members of the Triton College community including faculty, staff and fellow students share responsibility for maintaining an academically honest learning environment. Therefore, all members of the Triton College community are eligible to report apparent acts of academic dishonesty to the Dean. Below is a non-inclusive summary of consequences that may result from student violation of the academic honesty policy.

Consequences of Academic Dishonesty
• a failing grade for the assignment in question
• a failing grade for the course
• placement on academic probation
• a notation on the academic transcript stating,
• "Student violated academic honesty policy" for a specific course
• an immediate suspension from the class for one or more class sessions
• administrative withdrawal from the course in question
• administrative withdrawal from the student's major or related majors as determined by the dean
• suspension or academic dismissal from Triton College

Schedule: This agenda is tentative and subject to change.

Week 1 8/12-8/14	Lecture: 1.1-1.2, Lecture 1.3-1.4
Week 2 8/17-8/21	Quiz 1.1-1.4, Lecture: 1.5, 1.6, 1.7, 1.8
Week 3 8/24-8/28	Review, Test ch.1, Lecture 2.1, 2.2, 2.3
Week 4 8/31-9/4	Lecture 2.4, Quiz: 2.1-2.4, 2.5, 2.6 , 2.7
Week 5 9/8-9/11 9/7 no school	Review, Review, Test ch.2, 3.1
Week 6 9/14-9/18	Lecture 3.1, 3.2, 3.2, 3.3, 3.3
Week 7 9/21-9/25	Lecture 3.4,3.4, Review 3.1-3.4, Quiz: 3.1-3.4, 3.5
Week 8 9/28-10/2	Lecture 3.5, 3.6, 3.6,3.7, 3.7
Week 9 10/5-10/8 10/9 no school	Review ch.3, Test ch.3, Lecture 4.1, 4.1,
Week 10 10/13-10/16 10/12 no school	Lecture 4,2, 4.2, 4.3, 4.3
Week 11 10/19-10/23 10/20 no school	Lecture 4,4. 4,4, Rev: 4.1-4.4, Quiz: 4.1-4.4
Week 12 10/26-10/30	Lecture 4.5, 4.5, 4.6, 4.6, 4.7
Week 13 11/2-11/6	Lecture: 4.7, 4.8, 4.8, Rev ch.4, Test ch.4
Week 14 11/9-11/13	Lecture: G1, G1, G2, G2, G3
Week 15 11/16-11/20	Lecture G3, G4, G4, Rev: G1-G-4, Quiz G1-G4
Week 16 11/23-11/24	G5, G5
Week 17 11/30-12/4	G7, G7, G8, G8, G9
Week 18 12/7-12/11	Rev ch. G, Test ch. G, Final Review 4days
Week 19 12/14-12/18	Final Exams