Utica High School

Transition to College Syllabus

Miss. Yinger (Room 203)

Course Description:

Transition is for students who want to prepare themselves for the core of a college mathematics course, and possibly test-out of some basic college courses. Students who do not want to enter a mathematics-related major in college might be interested in this course. It provides for a more in-depth approach to algebraic and geometric applications to concrete problem settings. Graphing and calculators play a key role in the course. They provide concrete representation of relationships and access to demanding, realistic problems.

Grading Policy:

Each student's grade will be determined by the following criteria:

- Tests/Quizzes
- Homework/Classwork
- Activities/Projects
- Participation
- Binder Checks (a three ring binder and dividers are required for this class).

This will be a points based system.

Grading Scale:

90 - 100 = A 80 - 89 = B

70 - 79 = C 60 - 69 = D

0 - 59 = F

Class Rules:

Be Respectful Be Prepared

Be on Time Be Attentive

***** All school rules will also be enforced*****

Class Procedures:

1. Make sure your name, the date, and the class period are on all assignments.
2. Assignments are to be turned in at the beginning of class or they are late.
3. IPads are to be charged and ready to use on a regular basis.
4. Focus during class discussion and work on assignments/activities when time is given.
5. Miss. Yinger dismisses class, not the bell (everyone needs to be seated when the bell rings).
6. All cell phones must be left in lockers per school policy. Failure to comply with this school rule; student will be sent to the office.

Attendance:

Tardiness: Students are expected to arrive on time for class. The third time a student is tardy during a grading period they will receive a lunch detention. The fourth tardy they will receive a Wednesday detention. A fifth tardy in a grading period they will receive a referral to the office for a Saturday School, In-School Suspension, or Suspension.

Absences: make up work due to an excused absence must be made up promptly. The time allotted for makeup work shall not exceed one day more than the period of absence. **It is the responsibility of the pupil to arrange for and to complete the necessary work.** Work missed through truancy or unexcused absence cannot be accepted for credit.

Homework Policy:

- Assignments must be turned in on time for full credit.

- Late assignments will receive half credit for the first day late. Each day after that, the full amount that can be received will be reduced by 10%. (i.e. second day late – worth up to 40%, third day late - worth up to 30%, etc.)
- Some assignments will be taken to be graded and others will be marked for completion.

Activity/Project Policy:

Students are expected to remain on task when given time for activities and projects. Any student who abuses the time given for activities/projects will no longer be given the opportunity to participate in the activity or project. Students who lose the privilege to participate will be given an alternative assignment to complete.

Testing Policy:

Students will be able to retake a test for any chapter. The retake test will not be the same test but it will cover the same material as the original. Every student that wished to retake a test must complete the necessary remediation's. This could include but is not limited to completing missing homework assignments throughout the chapter, reteaching sessions to cover important skills, or completing alternative assignments as necessary.

Cheating:

Cheating includes: plagiarism, copying someone else's work or allowing someone to copy your work.

First Offense: The student(s) will receives a zero on the assignment, test, or quiz.

Second Offence: The student(s) will be reported to the office and disciplinary action will take place.

Denial of Credit Policy:

Semester course: Any student who accumulates more than eight (8) incidents of a zero (0) for that class period, for that day, and every day in excess of eight (8) days.

Full-year course: Any student who accumulates more than sixteen (16) incidents per class of non-professional absences in a year-long course, excused or unexcused will receive a zero (0) for that class period, for that day and every day excess of the sixteen (16) days.

Course Outline:

Chapter R: Review [Columbus State Book]

Section R.1	Real Numbers
Section R.2	Algebra Essentials
Section R.3	Geometry Essentials
Section R.4	Polynomials
Section R.5	Factoring Polynomials
Section R.6	Synthetic Division
Section R.7	Rational Expressions
Section R.8	*n*th Roots; Rational Exponents
Review Day	Review over all the review material
Test	Review Test

Chapter 1: Trigonometric Functions [Trigonometry Book]

Section 1.1	Angles
Section 1.2	Angle Relationships and Similar Triangles
Section 1.3	Trigonometric Function
Section 1.4	Using the Definitions of the Trigonometric Functions
Review Day	Review Chapter 1
Test	Chapter 1 Test

Chapter 2: Acute Angles and Right Triangles [Trigonometry Book]

Section 2.1	Trigonometric Functions of Acute Angles
Section 2.2	Trigonometric Functions of Non-Acute Angles
Section 2.3	Finding Trigonometric Function Values Using a Calculator
Section 2.4	Solving Right Triangles
Section 2.5	Further Applications of Right Triangles
Review Day	Review Chapter 2
Test	Chapter 2 Test

Chapter 11: Circles [Holt Geometry Resource Book]

Section 11.1	Lines That Intersect circles
Section 11.2	Arcs and Chords
Section 11.3	Sector Area and Arc Length
Section 11.4	Inscribed Angles
Section 11.5	Angle Relationships in Circles
Section 11.6	Segment Relationships in Circles
Section 11.7	Circles in the Coordinate Plane
Review Day	Review Chapter 11
Test	Chapter 11 Test

Chapter 1: Graphs, Equations, and Inequalities [Columbus State Book]

Section 1.1	Rectangular Coordinates, Graphing Utilities, Introduction to Graphing Equations
Section 1.2	Solving Equations Using a Graphing Utility
Section 1.3	Quadratic Equations
Section 1.4	Complex Numbers, Quadratic Equations in the Complex Number System

Section 1.5	Radical Equations; Equations Quadratic in Form; Absolute value Equations; Factorable Equations
Review Day	Review Chapter 1
Test	Chapter 1 Test

Chapter 3: Functions and Their Graphs [Columbus State Book]

Section 3.1	Functions
Section 3.2	The Graph of a Function
Section 3.3	Properties of Functions
Section 3.4	Library of Functions; Piecewise-defined Functions
Section 3.5	Graphing Techniques: Transformations
Review Day	Review Chapter 3
Test	Chapter 3 Test

Chapter 4: Linear and Quadratic Functions [Columbus State Book]

Section 4.1	Linear Functions, Their Properties, and Linear Models
Section 4.3	Quadratic Functions and Their Properties
Section 4.4	Building Quadratic Models from Verbal Descriptions and from Data
Section 4.5	Inequalities Involving Quadratic Functions
Review Day	Review Chapter 4
Test	Chapter 4 Test

Chapter 4: Matrix Operations [Holt Algebra 2]

Section 4.1	Matrices and Data
Section 4.2	Multiplying Matrices
Section 4.3	Using Matrices to Transform Geometric Figures
Section 4.4	Determinants and Cramer's Rule

Section 4.5	Matrix Inverses and Solving Systems
Section 4.6	Row Operations and Augmented Matrices
Review Day	Review Chapter 13
Test	Chapter 13 Test

Chapter 7: Exponential and Logarithmic Functions [Holt Algebra 2]

Section 7.1	Exponential Functions, Growth, and Decay
Section 7.2	Inverse of Relations and Functions
Section 7.3	Logarithmic Functions
Section 7.4	Properties of Functions
Section 7.5	Exponential and Logarithmic Equations and Inequalities
Section 7.6	The Natural Base, *e*
Review Day	Review Chapter 7
Test	Chapter 7 Test

Chapter 3: Radian Measure and Circular Functions [Trigonometry Book]

Section 3.1	Radian Measure
Section 3.2	Applications of Radian Measure
Section 3.3	The Unit Circle and Circular Functions
Section 3.4	Linear and Angular Speed
Review	Review current material
Test	Test over current material

Chapter 4: Graphs of Circular Functions [Trigonometry Book]

Section 4.1	Graphs of Sine and Cosine Functions
Section 4.2	Translations of Sine and Cosine Functions
Section 4.3	Graphs of Tangent and Cotangent Functions
Section 4.4	Graphs of Secant and Cosecant Functions
Review Day	Review Chapter 4

Test	Chapter 4 Test

Chapter 5: Trigonometric identities [Trigonometry Book]

Section 5.1	Fundamental Identities
Section 5.2	Verifying Trigonometry Identities
Review	Chapter 5 Review
Test	Chapter 5 Test