
COURSE PREFIX/NO:	MAT 032
COURSE TITLE:	Developmental Mathematics
LEC HRS/WEEK:	3.0
LAB HRS/WEEK:	0.0
CREDIT HRS/SEMESTER:	0.0

[Distance Learning Attendance/VA Statement](#)
[Textbook Information](#)

COURSE DESCRIPTION

Developmental Mathematics includes a review of arithmetic skills, and focuses on the study of measurement and geometry, basic algebra concepts, and data analysis. Application skills are emphasized.

COURSE COMPETENCIES

Module 1: Signed Numbers, Linear Equations, and Formulas.

1. Review of simplifying and evaluating numerical expressions using the rules for signed numbers and the order of operations.
2. Solve linear equations using the addition and multiplication properties of equality.
3. Solve linear equations using the distributive property.
4. Solve application problems that can be modeled with linear equations.
5. Solve linear equations that contain decimals and fractions.
6. Evaluate and rearrange formulas.

Module 2: Graphing Linear Equations

1. Locate ordered pairs on a rectangular coordinate system.
2. Graph linear equations with two variables using a table of values.
3. Graph linear equations with two variables using x and y intercepts.
4. Graph linear equations with two variables using slope intercept method.

Module 3: Powers, Polynomials, and Scientific Notation

1. Apply the laws of exponents to simplify algebraic expressions.
2. Add, subtract, multiply, and divide with polynomials.
3. Convert numbers between scientific notation and ordinary notation.
4. Multiply and divide numbers in scientific notation.

Module 4: Geometry and Measurement

1. Find perimeters and areas of two dimensional geometric figures and composite figures.
2. Find volumes of three dimensional geometric figures.
3. Recognize, use, and calculate with metric unit and U.S. measures.
4. Convert measurements between the metric system and the U.S. customary system.
5. Measure distances with metric and U.S. customary rules.

Module 5: Critical Thinking Skills Demonstration Project

1. Use learning outcome from one of the four modules to demonstrate critical thinking skills.
2. Complete project as an individual or group assignment based on the instructor's guidelines.

ATTENDANCE

The College attendance policy stated in the College handbook will be honored. "Students are responsible for attending all scheduled meetings in the courses in which they are enrolled until they have completed all course requirements. When absent, students are expected to communicate with faculty members and are responsible for all material covered and for all assignments made in all classes. An absence is defined as nonattendance for any reason. Students who are absent from a class more than 10 percent of the hours assigned may be withdrawn. A grade of "W" is assigned if the student's last date of attendance is on or before midterm. If a student is withdrawn from a course and the last date of attendance is after midterm, the grade assigned may be a "W" or a "WF."

ACADEMIC INTEGRITY

Students are bound by the policies stated in the York Technical College Catalog and Handbook. A student violating these policies will be subject to academic discipline.

EVALUATION STRATEGIES/GRADING:

The final course grade will be determined by the student's performance on five modules, homework, and a final examination.

Grades are assigned to students as follows:

Module 1 = 17.5%

Module 2 = 17.5%

Module 3 = 17.5%

Module 4 = 17.5%

Module Test Counts 10% + My Math Lab Counts 5% + Module Worksheet or Module Quiz Counts 2.5% = 17.5%

Module 5 = 10%

Final Exam = 20%

Grading Scale:

A 90 – 100

B 80 – 89

C 70 – 79

D 60 – 69

F Below 60

MINIMAL STANDARDS

A grade average of "C" (70 percent or greater) is required to enter MAT 155 or MAT 101. A student who scores lower than 70 percent must repeat the course.

COURSE REQUIREMENTS:

See the York Technical College Catalog and Handbook for attendance, withdrawal, and student conduct policies.

ENTRY-LEVEL REQUIREMENTS:

A student entering this course must be competent to perform the following tasks:

1. Evaluate arithmetic expressions with integers, fractions, and decimals.
2. Solve problems using percents.

PREREQUISITES: MAT 031 with minimum grade of C or equivalent

CO-REQUISITES: None

Disabilities Statement: Any student who feels s/he may need an accommodation based on the impact of a disability should contact the Special Resources Offices (SR) at 803-327-8007 in the 300 area of Student Services. The SRO coordinates reasonable accommodations for students with documented disabilities.