York Technical College
Course Syllabus

Course Information:

Course Prefix/Number: MAT 011
Course Title: Developmental Mathematics Basic Workshop
Lecture Hours/Week: 1.0
Lab Hours/Week: 0.0
Credit Hours/Semester: 0.0 DL Attendance/VA Statement Textbook Information

COURSE DESCRIPTION:

This course provides support for mastery of MAT 032 competencies (e.g. may include but is not limited to laboratory work, computerized instruction, and/or projects).

Additional Information: MAT 011 provides support of mastery of the numbers and operation competencies. This course is intended for students who need assistance in basic arithmetic skills. Based on assessment of student needs, instruction includes performing the four arithmetic operations with whole numbers, fractions, decimals, and percents. Application skills are emphasized.

COURSE COMPETENCIES:

Module 1: Numbers and Operations - Understand numbers, ways of representing numbers, relationships among numbers, and number systems

1. Compare and order whole numbers, fractions, decimals, and percents efficiently and find their approximate location on a number line.
2. Work flexibly with whole numbers, fractions, decimals and percents to solve problems.
3. Use ratios and proportions to represent quantitative relationships.
4. Use factors, multiples, prime factorization, and relatively prime numbers to solve problems.
5. Develop meaning for integers and represent and compare quantities with them.

Module 2: Numbers and Operations - Understand meanings of operations and how they relate to one another.

1. Explain the meaning and effects of arithmetic operations with fractions, decimals, and integers.
2. Use the associative and commutative properties of addition and multiplication and the distributive property of multiplication over addition to simplify computations.

Module 3: Numbers and Operations - Compute fluently and make reasonable estimates.

1. Select appropriate methods and tools for computing with rational numbers from among mental computation, estimation, calculators or computers, and paper and pencil, depending on the situation, and apply the selected methods.

2. Develop and analyze algorithms for computing with fractions, decimals, and integers and develop fluency in their use.

3. Develop and use strategies to estimate the results of rational number computations and judge the reasonableness of the results.

4. Develop, analyze, and explain methods for solving problems involving proportions.

MINIMAL STANDARDS:

EXIT STANDARDS:
A grade average of 70 percent on graded material is required for completion of this laboratory course. A student who scores lower than 70 percent must remain in the lab.

Zero-level courses do not count as meeting graduation requirements in any degree, diploma or certificate program.

COURSE REQUIREMENTS:

In addition to the following requirements, each instructor may provide specific guidelines concerning his/her expectations.

ATTENDANCE REQUIREMENTS:
York Technical College students are responsible for all material covered and for all assignments made in all classes. Students are expected to attend all class sessions. At the discretion of the instructor, three times being tardy counts as one absence.

Minimum: Students are required to attend 80 percent of the laboratory hours assigned for the semester. Students whose absences exceed 20 percent of the hours assigned will be dropped from the class.

Enrollment in developmental education math courses numbering 001 through 099 shall be limited to a maximum of 30 semester credit hours as stated in the catalog.

EVALUATION STRATEGIES/GRADING:

Upon completion of the course requirements, the student should be competent in performing the following tasks with an **overall minimum average of 70% accuracy:**

Laboratory work, Computerized instruction, and/or Projects. Each Module counts 33 1/3 % of the final grade.

WITHDRAWALS:
* Withdrawal before mid-term = grade of "W."
* Withdrawal after mid-term because of attendance violations or grades = grade of "U."
(A student who withdraws after mid-term with a valid reason may receive a "W" at the discretion of the instructor.)

ACADEMIC HONESTY:
Academic dishonesty includes using another's work without giving credit to the source and cheating of any type. Any student caught cheating or involved in any other academic dishonesty will be given a grade of zero on that assignment and will be subject to further disciplinary action. (York Technical College Handbook)

GRADES EXPLAINED:

1. SC - Satisfactory Completion - does not affect GPR calculations; earns credit hours or CEU's; generates no points. Indicates satisfactory completion on assignments and evaluations in class and a score of 70 or better in the course.

2. S - Satisfactory - does not affect GPR calculations; earns credit hours of CEU's; generates no grade points. Indicates satisfactory progress on assignments and evaluations in class and a score of 61 - 69 in the course.

3. U - Unsatisfactory - does not affect GPR calculations; earns no credit hours or CEU's; generates no grade points. Indicates unsatisfactory grades on assignments and evaluations in class, and a score of 60 or below in the course.

Probation: A majority of unsatisfactory grades of "U" will cause a student to be placed on probation. Students placed on probation will receive a letter giving them specific information about their registration options. Any student on probation who fails to earn a majority of satisfactory work by the end of their next semester of work will be subject to suspension at the end of the
probationary semester.

ENTRY-LEVEL REQUIREMENTS:

All students are given the COMPASS for initial placement. Students must score between 0 - 25 in Math to enter this math course.

Students may enter the labs at age 16 with special permission from the Associate Vice President for Student and Academic Affairs at York Technical College, the Learning Assistance Center Department Manager, and a letter from the principal of the last high school he/she attended.

PREREQUISITES
None.

CO-REQUISITES
None.

METHODS OF INSTRUCTION:

The math lab is a cooperative learning lab where various methods of instruction are used including paper/pencil, CAI, audio-visual, and lecture.

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