

SYLLABUS

DATE OF LAST REVIEW:	12/2019
CIP CODE:	24.0101
SEMESTER:	Departmental Syllabus
COURSE TITLE:	Math Essentials
COURSE NUMBER:	MATH0097
CREDIT HOURS:	3
INSTRUCTOR:	Departmental Syllabus
OFFICE LOCATION:	Departmental Syllabus
OFFICE HOURS:	Departmental Syllabus
TELEPHONE:	Departmental Syllabus
EMAIL:	Departmental Syllabus <i>KCKCC-issued email accounts are the official means for electronically communicating with our students.</i>
PREREQUISITES:	Students need to meet the correct placement measure for this course.

REQUIRED TEXT AND MATERIALS: Please check with the KCKCC bookstore <http://www.kckccbookstore.com/> for the required text for your particular class.

COURSE DESCRIPTION: Math Essentials emphasizes skill building in the operations of basic addition, subtraction, multiplication, and division as they relate to whole numbers, fractions, and decimals. These basic skills are then applied to the areas of ratio and proportion, percents, measurement, basic geometric concepts, and statistics. Algebra is introduced with the study of signed numbers, algebraic expressions, and basic equations. Students will be expected to use appropriate technology as one tool to achieve competency in Math Essentials.

METHOD OF INSTRUCTION: A variety of instructional methods may be used depending on content area. These include but are not limited to: lecture, multimedia, cooperative/collaborative learning, labs and demonstrations, projects and presentations, speeches, debates, and panels, conferencing, performances, and learning experiences outside the classroom. Methodology will be selected to best meet student needs.

EXPECTED LEARNER OUTCOMES:

- A. The student will be able to perform arithmetic calculations.
- B. The student will be able to demonstrate skills using the number system.
- C. The student will be able to solve applications.
- D. The student will be able to use measurements and geometric formulas.
- E. The student will be able to calculate and analyze statistical data.
- F. The student will be able to calculate using signed numbers.
- G. The student will be able solve basic linear equations.

COURSE COMPETENCIES:

Upon successful completion of this course:

The student will be able to perform arithmetic calculations.

- 1. The student will be able to add, subtract, multiply, and divide whole numbers.
- 2. The student will be able to add, subtract, multiply, and divide fractions.
- 3. The student will be able to add, subtract, multiply, and divide decimals.
- 4. The student will be able to use exponential notation.
- 5. The student will be able to apply order of operations.
- 6. The student will be able to convert among fractions, decimals, and percents.

The student will be able to demonstrate skills using the number system.

- 7. The student will be able to read and write numbers.
- 8. The student will be able to round and estimate numbers.
- 9. The student will be able to use ratio notation and recognize equivalent ratios.

The student will be able to solve applications.

- 10. The student will be able to solve application problems involving whole numbers, fractions, and decimals.
- 11. The student will be able to solve rate and ratio problems.
- 12. The student will be able to solve proportions including similar figures applications.
- 13. The student will be able to solve percent applications.

The student will be able to use measurements and geometric formulas.

- 14. The student will be able to convert and use American measures.
- 15. The student will be able to convert and use metric measures.
- 16. The student will be able to convert between American and metric measures.
- 17. The student will be able to calculate the perimeter and circumference of various geometric figures.
- 18. The student will be able to calculate the area of various geometric figures.
- 19. The student will be able to calculate the volume of various geometric figures.
- 20. The student will be able to apply the Pythagorean Theorem.

The student will be able calculate and analyze statistical data.

21. The student will be able to determine statistical measures of mean, median, and mode.
22. The student will be able to calculate grade point average (GPA).
23. The student will be able to interpret tables and pictographs.
24. The student will be able to interpret bar, line, and circle graphs.
The student will be able to calculate using signed numbers.
25. The student will be able to add, subtract, multiply, and divide signed numbers.
26. The student will be able to apply order of operations.

The student will be able to solve basic linear equations.

27. The student will be able to simplify algebraic expressions.
28. The student will be able to apply the distributive property.
29. The student will be able to solve a linear equation of the form $ax + b = c$.

ASSESSMENT OF LEARNER OUTCOMES:

Student progress is evaluated by means that include, but are not limited to, exams, written assignments, and class participation.

The course grade is determined by this grading scale:

A = 90% and above B = 80 - 89% C = 70 – 79% F = 69% and below

There is not a grade of D in Math Essentials.

A grade of an MP is available for students enrolled in the computer-assisted format.

A comprehensive, proctored, departmental final exam will be given in all sections of Math Essentials. This final exam will count a minimum of 25% of each student's course grade.

SPECIAL NOTES:

Material included is intended to provide an outline of the course and rules that the instructor will adhere to in evaluating the student's progress. However, this syllabus is not intended to be a legal contract. Questions regarding the syllabus are welcome any time.

STATEMENTS ON NON-DISCRIMINATION, HARASSMENT AND VIOLENCE, AND EDUCATIONAL EQUALITY

Non-Discrimination Policy Statement

Kansas City Kansas Community College is committed to promoting and sustaining a campus community which identifies and values the individuality of every community member and is dedicated to maintaining a positive environment where diversity is encouraged and fostered throughout the college. KCKCC strongly believes that diversity generates a positive image and awareness and community strength that encourages active involvement and helps enhance organizational effectiveness and culture. KCKCC prohibits discrimination on the basis of race, religion, color, sex (including pregnancy, gender identity, and sexual orientation), parental status, national origin, age, disability, family medical history or genetic information, political affiliation,

military service, or other non-merit based factors. All college actions and policies comply with all state, federal and local laws and regulations.

Harassment and Violence Statement

Kansas City Kansas Community College is committed to providing a non-discriminatory and harassment-free educational, living and working environment for all members of the campus community, including students, faculty, administrators, staff, trustees or visitors. This policy prohibits all forms of sexual or gender-based harassment and sexual assault.

Title IX, regulated by the Office of Civil Rights, prohibits discrimination on the basis of sex in federally funded education programs and activities. All schools who receive any federal financial assistance must comply with Title IX.

Deputy Title IX Coordinator: Sean Burkett, Employee Relations Manager, sburkett@kckcc.edu or 913-288-7269, 7250 State Avenue, Kansas City, Kansas 66112.

Educational Equality Statement

Kansas City Kansas Community College is committed to a policy of educational equity. Accordingly, the College admits students, grants financial aid and scholarships, and conducts all educational programs, activities, and employment without regard to race, color, creed, religion, sex, national origin, age, sexual orientation, marital status, ancestry, veteran status, or disabilities.

Any person having inquiries concerning College compliance with regulations Implementing Title VI of the Civil Rights Act of 1964, Title IX of the Education Amendments of 1972, Section 504 of the Rehabilitation Act of 1973, or the American with Disabilities Act of 1990, is directed to contact Human Resources, Kansas City Kansas Community College, 7250 State Avenue, Kansas City, Kansas 66112, Telephone (913) 288-7646.

Any person needing access to academic programs or college activities due to a documented disability is directed to contact the Student Accessibility and Support Services, 913-288-7664 for accommodations.

More information on these statements and additional resources are available through the links below.

<http://www.kckcc.edu/footer/statements>

<http://www.kckcc.edu/services/reporting/titleix>

<http://www.hhs.gov/ocr/office/file>