

Hagerstown Community College
MASTER SYLLABUS

COURSE: MAT 099 Introductory Algebra, 3 credits

SEMESTER/YEAR: Fall 2016

LEAD INSTRUCTOR: Rich Campbell, Carrie Hawbecker, Rebecca Kendrick

COURSE DESCRIPTION:

Prerequisite: MAT 098 or appropriate score on placement test. (3 Credits) This is a developmental course covering the topics usually included in a high school Algebra I course. Included are units on the properties of the real number system, solving linear equations and inequalities, operations with algebraic expressions, exponents, scientific notation, unit conversions, conversions between fractions, decimals, and percents, ratios, and proportions. A minimum of six hours per week should be expected using MyMathLab to complete online homework and tutorial programs. Students in this course may be required to attend the Learning Support Center for additional instruction and skill-building exercises. Total of 45 contact hours.

TEXTBOOK: **Required** – MyMathLab access code, ISBN 0321880161
 Required – TI-30X IIS calculator
 Optional – *Developmental Mathematics* (Guided Notebook) by Trigsted, Bodden, Gallaher. ISBN 0134442202

STUDENT LEARNING OUTCOMES:

Upon successful completion of this course students should be able to...

1. Use mathematical equations to construct and solve word problems in various contexts, and interpret results with appropriate terms and units.
2. Communicate, interpret, and explain mathematical concepts using appropriate symbolic notation and vocabulary.
3. Simplify, model, and evaluate numerical and algebraic expressions in the real number system using the order of operations.
4. Solve linear equations and inequalities in one variable.
5. Find the area, circumference, and perimeter of simple and complex regions.
6. Convert within and between US and metric units of measure, between time and temperature, and between decimals, fractions, and percents.
7. Simplify exponential expressions with positive and negative exponents.
8. Convert between scientific and decimal notations and multiply and divide using scientific notation.
9. Combine polynomials through addition, subtraction, multiplication, and division, including synthetic division.

CREDIT HOUR REQUIREMENT: minimum of 112.5 hours

To earn one academic credit at HCC, students are required to complete a minimum of 37.5 clock hours (45 fifty-minute “academic” hours) of coursework per semester. Those hours of coursework may be completed through a combination of hours within the classroom and hours outside the classroom. Certain courses may require more than the 37.5 minimum hours of coursework per credit. For most classes, students should expect to do at least 2 hours of coursework outside of class for each hour of in-class coursework.

MAT 099, a 3-credit course, has an average time commitment of 112.5 hours:

LECTURE	Direct Faculty Instruction (In Class)	Student Work (Out of Class)
Lecture and in-class assignments	37.5 Hrs. (final exam taken in class)	
Exams		16 Hrs. to Prep 4 Hrs. to Complete
Homework/Quizzes (MyMathLab)		55 Hrs.

HYBRID	Direct Faculty Instruction (In Class)	Student Work (Out of Class)
Lecture	19 Hrs.	
Learning Support Center Assignments	16.5 Hrs.	
Exams		16 Hrs. to Prep 6 Hrs. to Complete
Homework/Quizzes (MyMathLab)		55 Hrs.

ONLINE	Direct Faculty Instruction	Student Work
Lecture	19 Hrs. (videos/Guided Notebook)	
Offline Assignments	16.5 Hrs.	
Exams		16 Hrs. to Prep 6 Hrs. to Complete
Homework/Quizzes (MyMathLab)		55 Hrs.

COURSE POLICIES:

Honor Code: Upon admission to HCC all students sign a pledge to uphold an honor system which holds the qualities of honesty and integrity in highest regard for the duration of their educational experience.

Services for Students with Disabilities: Students who have a disability are encouraged to identify themselves to the Disability Support Services (DSS) office as early as possible. Reasonable accommodations based on current documentation are provided to qualified students. Contact the Disability Support Services office at 240-500-2628 or at dss@hagerstowncc.edu to request accommodations.