



Course Outline
 MAT 0018C (2)
 Developmental Mathematics I (2010 Rev.)

General Course Information

Common Course Number: MAT0018C (2)

Course Title: Developmental Mathematics I (2010 Rev.)

Prerequisite(s): None

Co-requisite(s): None

Contact Hour Breakdown: CR 3 CLASS 3 LAB 1

Discipline: Mathematics

Catalog Description: This is the first course in college-preparatory two-course sequence (MAT 0012C and MAT 0024C) designed to prepare students for MAT 1033C Intermediate Algebra. This course emphasizes the fundamental mathematical operations with application to beginning algebra. Significant time will be devoted to connections between mathematics and other academic disciplines and to applications outside educational settings. Minimum grade of C required for successful completion. This course does not apply toward mathematics requirements in general education or toward any associate degree.

Major Topics/ Concepts/ Skills/ Issues

- Operations with integers
- Fractions, decimals and percents
- Geometric figures and their measures
- Properties of rational numbers
- Operations on rational numbers
- Simplification of polynomials
- Equation solving techniques recommended

Major Learning Outcomes with Evidence, Core Competencies and Indicators

Students will be able to analyze situations where mathematical reasoning is an appropriate tool.	
Corresponding Evidence of Learning	
<ul style="list-style-type: none"> • Student will be able to determine and apply appropriate properties of rational numbers. • Student will be able to determine and apply appropriate properties of equations. • Student will be able to differentiate plausible solutions to problems. • Student will be able to place rational numbers in order. • Student will be able to apply appropriate formulas for problem solving. 	
Core Competency: Think	
Indicators	Assessments
<ul style="list-style-type: none"> • analyze data, ideas, patterns, principles, perspectives • employ the facts, formulas, procedures of the discipline 	<ul style="list-style-type: none"> • Locally developed multiple choice exam • Portfolio
Students will be able to determine equivalent forms of expressions.	
Corresponding Evidence of Learning	
<ul style="list-style-type: none"> • Student will be able to apply appropriate skills to simplify expressions in rational numbers. • Student will be able to evaluate algebraic expressions for specific values of the variables. • Student will be able to simplify algebraic expressions 	
Core Competency: Think	
Indicators	Assessments

<ul style="list-style-type: none"> employ the facts, formulas, procedures of the discipline 	<ul style="list-style-type: none"> Locally developed exam/objective Locally developed multiple choice exam Portfolio
Students will be able to implement study skills.	
Corresponding Evidence of Learning	
<ul style="list-style-type: none"> Student will be able to describe their learning style and how different learning styles effect their approach to learning mathematics. Student will be able to understand the impact of time management and implement a time management scheme. Student will be able to recognise the effects of stress and anxiety on test taking and know some methods of coping. Student will be able to practice effective note taking. Student will be able to employ effective techniques to prepare for and take exams. 	
Core Competency: Act	
Indicators	Assessments
<ul style="list-style-type: none"> assess the effectiveness of personal behavior and choices 	<ul style="list-style-type: none"> Portfolio
Students will be able to read in a mathematical context.	
Corresponding Evidence of Learning	
<ul style="list-style-type: none"> Student will be able to extract critical mathematical information from a body of text. Student will be able to translate English statements into mathematical statements. 	
Core Competency: Think	
Indicators	Assessments
<ul style="list-style-type: none"> analyze data, ideas, patterns, principles, perspectives draw well-supported conclusions 	<ul style="list-style-type: none"> Locally developed exam/objective Locally developed multiple choice exam Portfolio

Shared Assessment(s) in this Course

- Portfolio
- Final Exit Exam

[College Curriculum Committee Website](#)

Office of the Vice President for Academic Affairs & Chief Learning Officer
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