

**NORTHEASTERN TECHNICAL COLLEGE
COURSE OUTLINE**

COURSE:	PREFIX NO.	EFFECTIVE DATE	NEXT REVIEW DATE		
MATH	MAT 155	Fall 2010	Fall 2011		
TITLE:	CREDITS	CONTACTS			
		CLASS	- LAB	- TOTAL	
Contemporary Mathematics	3	3	0	3	

PREREQUISITES:

Acceptable placement score or completion of MAT 150 with grade of "C" or better

DESCRIPTION:

This course includes techniques and applications of the following topics: properties of and operations with real numbers, elementary algebra, consumer mathematics, applied geometry, measurement, graph sketching and interpretations, and descriptive statistics.

TEXTBOOK(S) OR ALTERNATIVE:

Mathematics - Its Power and Utility, 9th edition, by Karl J. Smith

MATERIALS:

The student should purchase textbook, notebook paper, pencils, erasers, and scientific calculator. A ruler and graph paper are suggested but not required.

COLLATERAL READING:

None

CLASS MANAGEMENT ACTIVITIES (Attendance, tardies, testing, academic dishonesty, etc.):

ACADEMIC DISHONESTY:

Students are expected to do their own work. Please refer to the NETC Student Code and Grievance Procedure for a definition of academic dishonesty and an outline of the disciplinary action that may result.

ATTENDANCE:

Students are expected to attend all scheduled classes and are responsible for all class work, homework, notes, etc., whether or not they are present. In the event of extenuating circumstances, such as illness, you are allowed to miss up to 8 hours. The student will be dropped after missing more than 8 hours of scheduled classes. If an instructor drops a student for excessive absences during the semester, a grade of "F" will be assigned. If the

student withdraws from the course, a grade of "W" or "WF" will be assigned as outlined in the college catalog. There is no such thing as an excused absence!! If you exceed the allowed number of absences, you will be dropped.

TARDIES:

A student is considered tardy if not present for roll call, which is taken at the beginning of the class. Three tardies constitute one-hour of absence.

STUDENT ID POLICY:

It is **mandatory** that every student wear his/her ID at all times on campus. During the first week of classes, the instructor will issue a reminder to wear the ID. This reminder is a warning.

After the first week of classes, instructors are required to dismiss students without an ID from class. The student may get his/her ID (or a new one in Student Services for \$3.00) and return to class before the midpoint of the class. If the student cannot get an ID and return to class by the midpoint, the instructor will record the absence.

DISABILITIES STATEMENT:

Students with disabilities are encouraged to contact the Dean of Student Services to discuss needs or concerns as they pursue an academic program and participate in campus life. The Dean of Student Services will provide guidance regarding official documentation of disabilities and/or accommodation of needs. (See College Catalog)

CLASSROOM ETIQUETTE:

1. Electronic communication devices (pagers, cell phones, etc.) are NOT allowed in the classroom. On-call emergency personnel should see the instructor for an exemption.
2. No visible food or drinks are allowed in the classroom.
3. No radios or headphones are allowed in the classroom.

RESOURCES (A-V, persons, tools/equipment):

Computerized instruction, drill and practice available on selected topics. Ask instructor for suggestions or visit the Success Center.

COURSE TOPICAL OUTLINE (List topics and sub-topics of course) and Calendar of approximate length of time devoted to topic.

TENTATIVE CLASS OUTLINE

<u>WEEK</u>	<u>SECTION</u>	<u>DESCRIPTION</u>
1-2	3.1	Polynomials
	3.2	Similar Terms
	3.3	Simplification
	3.4	Equations
	3.5	Solving Equations
	3.6	Problem Solving with Algebra
TEST 1 _____		
3-4	4.1	Ratio and Proportion
	4.2	Problem Solving with Proportions
	4.3	Percent
	4.4	Problem Solving with Percents
TEST 2 _____		

COURSE TOPICAL OUTLINE: (Continued)

<u>WEEK</u>	<u>SECTION</u>	<u>DESCRIPTION</u>
5-6	7.1	Discount, Sale, Price, and Sales Tax
	7.2	Simple Interest
	7.3	Buying on Credit
	7.4	Credit Card Interest
	7.5	Compound Interest
	7.6	Buying a House
TEST 3 _____		
7-10	6.1	Precision, Accuracy, and Estimation
	6.2	Perimeter
	6.3	Area
	6.4	Volume and Capacity
	6.5	Miscellaneous Measurements
	6.6	Converting Units
TEST 4 _____		
11-13	9.1	Introduction to Probability
	9.2	Probability Models
	10.1	Frequency Distributions and Graphs
	10.2	Measures of Central Tendency

TEST 5 _____

14-15	11.1	Ordered Pairs and the Cartesian Coordinate System
	11.3	Lines
	11.4	Systems and Inequalities

TEST 6 _____

EXAM

LEARNING OUTCOMES/OBJECTIVES OF COURSE:

The student will demonstrate an ability to perform arithmetic operations with integers, rational, decimal and real numbers and to apply these skills to introductory algebraic operations.

COLLEGE WIDE COMPETENCIES: Apply mathematical/computational skills to solve problems.

GENERAL EDUCATION OUTCOME:

Graduates will be able to:

1. use a systematic approach to solving problems.

INSTRUCTIONAL METHODS TO COMPLETE OBJECTIVES:

Problem solving, computerized instruction and videotapes on selected topics will supplement the lectures covering course material.

ASSESSMENT/EVALUATIVE METHODS TO APPRAISE OBJECTIVES:

Any combination of tests, projects, rubrics and final exam will be used to compute your grade for MAT 155. Your final grade for the course will be made up of 80% of the test average plus 20% of the exam grade. A final exam will be given and **NO** test grades will be dropped.

MAKE-UP TEST PROCEDURE:

NO make-up tests are given except in extenuating circumstances. The **student** is responsible for contacting the instructor **prior** to the time the test is scheduled, to arrange a meeting to discuss the process of making up the missed test

GRADING SCALE:

The grade point scale that will be used is as follows:

A = 93 - 100

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B = 85 - 92

C = 77 - 84

D = 69 - 76

F = Below 69