

Northeastern Technical College

MAT 155

Contemporary Math

Course : MAT 155

Title : Contemporary Math

Credits: 3 Hours

Instructor:

Office:

Office Hours:

email:

Telephone Number:

Prerequisites: Acceptable placement score or completion of MAT 150 with a grade of a 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,, Karl J Smith.

College Wide Competencies: Apply mathematical/computational skills to solve problems.

Learning Outcomes: 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.

General Education Outcome: Graduates will be able to :

1. use a systematic approach to solving problems.

Attendance: (Math Department Policy): 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 at any time during the semester, a grade of a F will be assigned. If the student withdraws from the course, a grade of a W or a 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.** A student is considered tardy if not present for roll call, which is taken at the beginning of the class. Three tardies constitute 1 hour of absence.

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.

Student Disabilities:

Students with disabilities are encouraged to contact the Vice-President for Student Services to discuss needs or concerns as they pursue an academic program and participate in campus life. The Vice-President for Student Services will provide guidance regarding official documentation of disabilities and/or accommodation of needs.

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 classrooms.
3. No radio or headphones are allowed in the classrooms

ID Policy:

It is mandatory that every student wears his/her ID at all times when on the Cheraw 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.

Assessment 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
- B = 85 - 92
- C = 77 - 84
- D = 69 - 76
- F = Below 69

Tentative Class Outline

| <u>WEEK</u> | <u>Sect.</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 |
| <hr/> | | | |
| 3 - 4 | 4.1 | Ratio and Proportion | |
| | 4.2 | Problem Solving with Proportions | |
| | 4.3 | Percent | |
| | 4.4 | Problem Solving with Percents | Test 2 |
| <hr/> | | | |
| 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 |
| <hr/> | | | |
| 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 |
| <hr/> | | | |
| 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 |
| <hr/> | | | |
| 14 - 15 | 11.1 | Ordered Pairs and the Cartesian Coordinate System | |
| | 11.3 | Lines | |
| | 11.4 | Systems and Inequalities | Test 6 |
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| EXAM | | | |