

Northeastern Technical College

MAT 212

Mathematics for Elementary Education II

Course: MAT 212

Title: Mathematics for Elementary Education II

Credits: 3 hours

Instructor:

Office:

Office Hours:

email:

Telephone Number:

Prerequisites: Acceptable placement score or completion of MAT 102 with grade of "C" or better.

Description: This course includes the following topics: basic algebra, geometry, probability, and statistics.

Textbook(s) or Alternative: A Problem Solving Approach to Mathematics for Elementary School Teachers, 10th edition, 2010, by Billstein, Libeskind, and Lott.

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

Learning Outcomes: The student will be able to:

1. understand the terminology of elementary probability theory.
2. find probabilities and simulate probability problems.
3. use permutations and combinations in counting processes.
4. use spreadsheet to summarize data into tables and graphs and to describe data with measures of central tendency.
5. make predications from statistical data.
6. comprehend the misuse of statistics.
7. analyze properties of two and three dimensional geometric shapes.
8. use Coordinate geometry.
9. graph linear and quadratic equations.

Attendance: (Math Department) 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 classrooms. 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.

Evaluative Methods to Appraise Objectives: Chapter or topical tests and a final exam will be used to compute your grade for Mat 212. Projects and/or additional assignments may be assigned at the instructor's discretion. The final grade will be 80% of the test average plus 20% of the exam grade. If the instructor decides not to give a final exam, the student's grade will be the arithmetic average of all test grades. **No** test grades will be dropped under any circumstances.

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>Weeks</u>	<u>Chapter</u>	<u>Description</u>
1 - 3	9	Probability
4 - 6	10	Data Analysis/ Statistics
7 - 9	11	Introductory Geometry
10 - 12	12	Constructions, Congruence, and Similarity
13 – 15	13	Concepts of Measurement