Math 1332.033HY Contemporary Math Hybrid

Course Syllabus: Fall 2023 R @ 1:30pm MS-130

"Northeast Texas Community College exists to provide personal, dynamic learning experiences empowering students to succeed."

Instructor: Dr. Doug Richey
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Office Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Online
	9:00 – 10:50	9:00 – 10:50	9:00 – 10:50	9:00 – 12:20	Online Appointment	Everyday

This syllabus serves as the documentation for all course policies and requirements, assignments, and instructor/student responsibilities.

Information relative to the delivery of the content contained in this syllabus is subject to change. Should that happen, the student will be notified.

Alternate Operations During Campus Closure and/or Alternate Course Delivery Requirements

In the event of an emergency or announced campus closure due to a natural disaster or pandemic, it may be necessary for Northeast Texas Community College to move to altered operations. During this time, Northeast Texas Community College may opt to continue delivery of instruction through methods that include, but are not limited to: online through the BlackBoard Learning Management System, online conferencing, email messaging, and/or an alternate schedule. It is the responsibility of the student to monitor NTCC's website (http://www.ntcc.edu/) for instructions about continuing courses remotely, BlackBoard for each class for course-specific communication, and NTCC email for important general information.

Additionally, there may be instances where a course may not be able to be continued in the same delivery format as it originates (face-to-face, fully online, live remote, or hybrid). Should this be the case, every effort will be made to continue instruction in an alternative delivery format. Students will be informed of any changes of this nature through email messaging and/or the BlackBoard course site.

Video Recording of Course Activities
Certain portions of this course may be recorded via video conferencing software to assist students in course material review or later viewing by a student who was not able to attend the live session. The recordings will be made available only to students within the course and will cease to be available upon completion of the course. Students may not retain, reproduce, or share recordings.

Course Description:) Intended for Non STEM (Science, Technology, Engineering, and Mathematics) majors. Topics include introductory treatments of sets and logic, financial mathematics, probability and statistics with appropriate applications. Number sense, proportional reasoning, estimation, technology, and communication should be embedded throughout the course. Additional topics may be covered.

Prerequisite(s): None.

Student Learning Outcomes: Upon successful completion of this course, students will:

0132.1 Use appropriate symbolic notation and vocabulary to communicate, interpret, and explain mathematical concepts.

0132.2 Define, represent, and perform operations on real numbers, applying numeric reasoning to investigate and describe quantitative relationships and solve real world problems in a variety of contexts.

0132.3 Use algebraic reasoning to solve problems that require ratios, rates, percentages, and proportions in a variety of contexts using multiple representations.

0132.4 Apply algebraic reasoning to manipulate expressions and equations to solve real world problems.

0132.5 Use graphs, tables, and technology to analyze, interpret, and compare data sets.

0132.6 Construct and use mathematical models in verbal, algebraic, graphical, and tabular form to solve problems from a variety of contexts and to make predictions and decisions.

Evaluation/Grading Policy: Two major 150 point examinations, evenly spaced throughout the semester, will be given and together will be worth 75% of the final grade. The combination of a series of special online assignments, quizzes, and homework will be worth 25%. A – 90%; B – 80%; C – 70%; D – 60%; F-Below 60%.

Required Instructional Materials: MATH IN SOCIETY ED 2.4
AUTHOR: LIPPMAN

Publisher: Openstax   **ISBN Number: 9781479276530**

Optional Instructional Materials: None

Minimum Technology Requirements: Scientific Calculator

Required Computer Literacy Skills: Access to a computer with internet connection.

Course Structure and Overview: Attendance and participation required.
Communications: All graded work returned the next face to face class meeting after it has been submitted.

Institutional/Course Policy: Cell phone usage will be monitored by the instructor to insure meaningful academic usage. The college's official means of communication is via your campus email address. I will use your campus email address and Blackboard to communicate with you outside of class. Make sure you keep your campus email cleaned out and below the limit so you can receive important messages**.**

NTCC Academic Honesty/Ethics Statement:
NTCC upholds the highest standards of academic integrity. The college expects all students to engage in their academic pursuits in an honest manner that is beyond reproach using their intellect and resources designated as allowable by the course instructor. Students are responsible for addressing questions about allowable resources with the course instructor. Academic dishonesty such as cheating, plagiarism, and collusion is unacceptable and may result in disciplinary action. This course will follow the NTCC Academic Honesty and Academic Ethics policies stated in the Student Handbook. Refer to the student handbook for more information on these subjects.

ADA Statement:

It is the policy of NTCC to provide reasonable accommodations for qualified individuals who are students with disabilities. This College will adhere to all applicable federal, state, and local laws, regulations, and guidelines with respect to providing reasonable accommodations as required to afford equal educational opportunity. It is the student's responsibility to request accommodations. An appointment can be made with the Academic Advisor/Coordinator of Special Populations located in Student Services and can be reached at 903-434-8264. For more information and to obtain a copy of the Request for Accommodations, please refer to the special populations page on the NTCC website.

Family Educational Rights and Privacy Act (FERPA):
The Family Educational Rights and Privacy Act (FERPA) is a federal law that protects the privacy of student education records. The law applies to all schools that receive funds under an applicable program of the U.S. Department of Education. FERPA gives parents certain rights with respect to their children's educational records. These rights transfer to the student when he or she attends a school beyond the high school level. Students to whom the rights have transferred are considered "eligible students." In essence, a parent has no legal right to obtain information concerning the child's college records without the written consent of the student. In compliance with FERPA, information classified as "directory information" may be released to the general public without the written consent of the student unless the student makes a request in writing. Directory information is defined as: the student's name, permanent address and/or local address, telephone listing, dates of attendance, most recent previous education institution attended, other information including major, field of study, degrees, awards received, and participation in officially recognized activities/sports.

Tentative Course Timeline (*note* instructor reserves the right to make adjustments to this timeline at any point in the term): At the time of need instruction will be provided and announced weekly.

<u>**Course Outline**</u>

I. Problem Solving: Read pages 1-34; solve Exercises 1-74, page 18

Enhancement: Johnny and the Train
Application: Problem Solving Model

II. Growth Models: Read pages 173-196; solve Exercises 1-15, page 193

Enhancement: Stopping Distance
Application: Pandemic "Corona Virus" Covid-19

III. Statistics: Read pages 227-245; solve Exercises 1-20, page 243

Enhancement: Random Number Chart
Application: Type II Diabetes Survey

Midterm Homework and Examination due October 13th, 2022

IV. Describing Data: Read pages 247-278; solve Exercises 1-12, page 175

Enhancement: Election Bar Graphs
Application: Statistical Measures Worksheet

V. Probability: Read pages 279-286; solve Exercises 1 – 50, page 310

Enhancement: M&M Experiment
Application: Deck of Cards

VI. Sets: Read pages 319-331; solve Exercises 1-44, page 329

Enhancement: Fun with Sets
Application: Euler Circle Analysis

Final Homework and Examination Due December 8th, 2022