Syllabus

Course Information
- MAT135 – 11325 Topics in Contemporary Math
- Monday 6:30pm to 9:15pm
- Room Number B125

Instructor Information
- Office Hours: Monday and Wednesday 4:00pm till 6:00pm (Appointment Only)
- Phone Number: (860)373-0143 (Leave a message)
- Email: Padrick77@gmail.com

Course Description

This course will expose students to topics in mathematics that are useable and relevant in today's world. Students will apply mathematical ideas while working in within a social context.

Required Text

Understanding Our Quantitative World, Janet Anderson and Todd Swanson, MAA, 205

Supplies
- 3-ring binder with loose-leaf paper
- Graph Paper
- Writing Utensil (Pencil, Blue or Black Pen)
- A Graphing Calculator
- Access to a computer connected to the internet

Disabilities Statement

Students with hidden or visible disabilities who may require special accommodations and support services are encouraged to notify the instructor and Chris Scarborough (860) 892-5751, who is coordinating services to students with disabilities, during the first two weeks of class.

Academic Integrity Policy

Each Student is expected to demonstrate his/her knowledge of the subject matter on each assignment and test. Any student(s) caught cheating on a test will receive a zero for that test and will not be allowed to make-up that test.

College Withdrawal Policy

May 14th   Last day to withdraw from class (Withdraw at the Registrar's Office)

Class Cancellation Policy

If class is canceled by the school, pay attention to radio and TV announcements, call the college's main phone number (860) 886-0177, or visit the college's homepage http://www.trcc.commnet.edu .

If class is canceled by the instructor, a notice will be placed on the classroom door. If time permits, students will be notified by email.

Method of Evaluation
- Participation and Attendance – 15%
    - 1 Point given per day you come to class and participate
- Weekly Quiz - 13 Quizzes will drop lowest 3 – 40%
    - Given at the end of the class based on the work gone over that class
- Projects – 20%
    - 2 projects will be assigned during the semester each project will require internet research and be due 2 weeks after the assignment is given
- Final Exam – 25%
    - Final will cover all material gone over this semester. Students that have achieved a 93% or higher during the semester will be exempt from the final exam.

Grading System

These letter grades and corresponding numerical grades will be used for all assignments and the course grade: A (93-100), A- (90-92), B+ (87-89), B (83-86), B- (80-82), C+ (77-79), C (73-76), C- (70-72), D+ (67-69), D (63-66), D- (60-62), F (below 60)

Assignments

Assignments will be given on a weekly basis. All students are expected to work on assignments regularly and to seek assistance if the problems are not understood. All work should be kept in a notebook which may be reviewed by the instructor at any time.

Attendance

Students are expected to attend all classes, to arrive for class on time, and to remain for the duration of the class meeting. It is the student's responsibility to request any missed work, assignments, or materials before the next class.   Students who are consistently tardy, leave class early, and/or walk in and out of class are a distraction to the instructor and the other students. This results in a disruption of the class and the learning process.

Rules of Conduct in Class
- Respect each person
- No food or beverages in the classroom
- Electronic devices must be turned off or silenced during class.
- Student Behavior: "*The College has the right and responsibility to take appropriate action when a student's conduct directly and significantly interferes with the College's educational mission and the rights of others to purse their educational objectives in an environment conductive to learning.*" –from the TRCC Student Handbook. Such action will, at a minimum, be the dismissal of the student from the remainder of the day's class and any graded work from that day will be graded as a zero.

Assignment List

1/25   **Objectives** Chapter 1 Functions
- Four representations of functions
  - Symbolic
  - Graphical
  - Tabular
  - Verbal
- Determining if a rule is a function
- Homework

2/1   **Objectives** Chapter 1 Functions
- Domain and Range
- Piecewise Functions
- Homework

2/8   **Objectives** Chapter 2 Graphical Representations of Functions
- Construction of graphs
- Special parts of graphs
- Homework

2/22   **Objectives** Chapter 2 Graphical Representations of Functions
- Using your calculator for graphing
- Homework

3/1   **Objectives** Chapter 3 Applications of Graphs
- Using graphs in real-life situations
- Homework
- Project on the Application of Functions to Everyday Life
  - Due March 22nd

3/15   **Objectives** Chapter 4 Displaying Data
- Histograms
- Pie Charts
- Homework

3/22   **Objectives** Chapter 4 Displaying Data
- Scatter Plots
- Homework

3/29   **Objectives** Chapter 5 Describing Data: Mean, Median, and Standard Deviation
- Measures of Central Tendency
  - Mean
  - Mode
  - Median
  - Range

- Box-Whisker Plots
- Homework

4/5   **Objectives** Chapter 5 Describing Data: Mean, Median, and Standard Deviation
- Standard Deviation
- Normal Distributions
- Project on the Application of Functions to Everyday Life
- Project on Application of Statistics
  - Due on April 19th
- Homework

4/12   **Objectives** Chapter 7 Linear Functions
- Linear Equations
  - Slope
  - Slope Intercept Form
- Applications of Linear Functions
- Homework

4/19   **Objectives** Chapter 8 Regression and Correlation
- Linear Regression
- Least-Squares Regression
- Higher Order Regressions
- Homework

4/26   **Objectives** Chapter 8 Regression and Correlation
- Real Life Applications of regression
- Homework

5/3   **Objectives** Chapter 13 Probability
- Outcomes
- Probability Distributions
- Applications
- Homework

5/10   **Objectives** Final Exam Review
5/17   **Objectives Final Exam**