**MAT 167, Principles of Statistics, Spring 2017, 30474**
**M/W 3:00 – 4:15pm, room E202**
**Elizabeth Godwin**

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|---|---|
| **PREREQUISITE:** | MATH 137, Intermediate Algebra |
| **TEXT:** | Elementary Statistics, 13th edition by Triola |
| | MyStatLab: godwin19156 |
| | Also required: TI-83 or TI-84 calculator |

**COURSE DESCRIPTION:** THIS COURSE INTRODUCES THE BASIC CONCEPTS OF STATISTICS AS THEY APPLY PRIMARILY TO BUSINESS, THE TECHNOLOGIES, AND THE SOCIAL SCIENCES. THE TOPICS INCLUDE METHODS OF SUMMARIZING DATA, MEASURES OF CENTRAL TENDENCY AND DISPERSION, CORRELATION AND LINEAR REGRESSION, BASIC PROBABILITY, BINOMIAL AND NORMAL DISTRIBUTIONS, HYPOTHESIS TESTING FOR ONE AND TWO POPULATIONS AND CONFIDENCE INTERVALS.

**MEASUREMENTS:**

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| 3 tests | 100 points each | 300 |
| HW in MSL | see below | 100 |
| 10 Quizzes | see below | 100 |
| In class assignments | see below | 300 |
| Final project | 100 points | 100 |

Final grade = (total points earned/900) *100

Grade equivalents: A 93 – 100, A- 90 – 93, 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, N if the student completed less than 60% of work.

**Attendance:** Your attendance in the classroom, participation in classroom work/projects and preparation for each class is required and is essential to success in the course. If you are unable to attend class then I expect you to email me before if possible but afterwards at the very least. This is for your protection. If something happens then you will have written documentation. There will be no makeups for tests and in class assignments. If you are not in class on these days then you will get a 0. If an unusual circumstance arises and you provide adequate documentation then I will consider allowing a makeup.
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**Course Setup:** This course will be a "flipped course." What that means is that you will read the chapter and PowerPoints and watch the videos in advance of class. Then you will be take a brief quiz on the material from the reading and videos at the beginning of the next class. These are just to make sure you did the reading and watched the videos and took notes. Then we will review concepts and go over examples in class. The next day will consist of a graded in class group activity on the current topic.
In addition to the readings and videos, you will have homework in MyStatLab. This is a required part of the course. You will need to purchase a code to get into MyStatLab and get registered by September 29th so you can begin working on these assignments in a timely manner. The due dates on these assignments are guidelines. You will be able to work on these after the due date but you should be keeping up with them as much as possible to ensure success in the course. Additionally, there will be a final project in this course which we will talk about later in the course.

**Support Services:** Tutorial services, peers, or meeting with me for extra help during office hours.

**Office Hours:**     Mondays 11:00 – 12:00 noon
Tuesdays 10:30 – 11:30 am
Wednesdays 2:00 – 3:00 pm
Thursdays 10:30 – 11:30 am
or by appointment in C206
**Email** egodwin@trcc.commnet.edu , Phone (860) 215-9452

**Class Cancellation**: In case of inclement weather, check the college website for class
cancellations or call 860-215-9000 for recorded message on the college
phone. If for some reason, I need to cancel class I will post an announcement in
Blackboard.  You should set up your school email so that it will forward to your
personal email so you can receive these notifications in a timely manner.

**MyCommNet Alert:**   **MyCommNet** is a system that sends text messages and emails to anyone
signed up in the event of a campus emergency. Additionally, TRCC sends
messages when the college is delayed or closed due to weather. All students are
encouraged to sign up for myCommNet Alert. A tutorial is available on the
Educational Technology and Distance Learning Students page of the web site.
http://www.trcc.commnet.edu/div_it/educationaltechnology/Tutorials/myCommNet
Alert/MIR3.html

**Plagiarism and Academic**
**Honesty:**            At TRCC, we expect the highest standards of academic honesty. The
Board of Trustees' Proscribed Conduct Policy prohibits cheating on
examinations, unauthorized collaboration on assignments, unauthorized access
to examinations or course materials, plagiarism.

**Disabilities**         If you have a disability that may affect your progress in this course, please meet
with a Disability Service Provider (DSP) as soon as possible.  Please note that
accommodations cannot be provided until you provide written authorization from
a DSP.

| College Disabilities Service Provider | |
| --- | --- |
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| Matt Liscum, Counselor<br>(860) 215-9265<br>Room A113 | • Learning Disabilities<br>• ADD/ADHD<br>• Autism Spectrum<br>• Mental Health Disabilities |
| Elizabeth Willcox, Advisor<br>(860) 215-9289<br>Room A113 | • Medical Disabilities<br>• Mobility Disabilities<br>• Sensory Disability |

**Digication**:   All students are required to maintain an online learning portfolio in Digication that uses the college template.

**BOARD OF REGENTS FOR HIGHTER EDUCATION AND CONNECTICUT STATE COLLEGES AND UNIVERSITIES POLICY REGARDING SEXUAL MISCONDUCT REPORTING, SUPPORT SERVICES AND PROCESSES POLICY**

**Statement of Policy for Public Act No. 14-11: An Act Concerning Sexual Assault, Stalking and Intimate Partner Violence on Campus:**
"The Board of Regents for Higher Education (BOR) in conjunction with the Connecticut State Colleges and Universities (CSCU) is committed to insuring that each member of every BOR governed college and university community has the opportunity to participate fully in the process of education free from acts of sexual misconduct, intimate partner violence and stalking. It is the intent of the BOR and each of its colleges or universities to provide safety, privacy and support to victims of sexual misconduct and intimate partner violence."

**UNITED STATES DEPARTMENT OF EDUCATION AND OFFICE OF CIVIL RIGHTS TITLE IX STATEMENT OF POLICY:**

"Title IX of the Education Amendments of 1972 (Title IX) prohibits discrimination based on sex in education programs and activities in federally funded schools at all levels. If any part of a school district or college receives any Federal funds for any purpose, all of the operations of the district or college are covered by Title IX.

Title IX protects students, employees, applicants for admission and employment, and other persons from all forms of sex discrimination, including discrimination based on gender identity or failure to conform to stereotypical notions of masculinity or femininity. All students (as well as other persons) at recipient institutions are protected by Title IX – regardless of their sex, sexual orientation, gender identity, part-or full-time status, disability, race, or national origin-in all aspects of a recipient's educational programs and activities."

If any student experiences sexual misconduct or harassment, and/or racial or ethnic discrimination on Three Rivers Community College Campus, or fears for their safety from a threat while on campus, please contact Edward A. Derr, the Diversity Officer and Title IX Coordinator:

Edward A. Derr
Title IX Coordinator and Diversity Officer
Admissions Welcome Center * Office A116
574 New London Turnpike, Norwich CT 06360
860.215.9255 * EDerr@trcc.commnet.edu

**Topics:**  These are the topics we will be covering in class.
**Chapter 1 Introduction to Statistics**

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1-1 Review and Preview
1-2 Statistical and Critical Thinking
1-3 Types of Data
1-4 Collecting Sample Data
**Chapter 2 Summarizing and Graphing Data**
2-1 Review and Preview
2-2 Frequency Distributions
2-3 Histograms
2-4 Graphs that Enlighten and Graphs that Deceive
**Chapter 3 Statistics for Describing, Exploring and Comparing Data**
3-1 Review and Preview
3-2 Measures of Center
3-3 Measures of Variation
3-4 Measures of Relative Standing and Boxplots
**Chapter 4 Probability**
4-1 Review and Preview
4-2 Basic Concepts of Probability
4-3 Addition Rule
4-4 Multiplication Rule: Basics
4-5 Multiplication Rule: Complements and Conditional Probability
4-6 Counting
**Chapter 5 Discrete Probability Distributions**
5-1 Review and Preview
5-2 Probability Distributions
5-3 Binomial Probability Distributions
5-4 Parameters for Binomial Distributions
**Chapter 6 Normal Probability Distributions**
6-1 Review and Preview
6-2 The Standard Normal Distribution
6-3 Applications of Normal Distributions
6-4 Sampling Distributions and Estimators
6-5 Central Limit Theorem
**Chapter 7 Estimates and Sample Sizes**
7-1 Review and Preview
7-2 Estimating a Population Proportion
7-3 Estimating a Population Mean
**Chapter 8 Hypothesis Testing**
8-1 Review and Preview
8-2 Basics of Hypothesis Testing
8-3 Testing a Claim about a Proportion
8-4 Testing a Claim about a Mean
**Chapter 9 Inferences from Two Samples**
9-1 Review and Preview
9-2 Two Proportions
9-3 Two Means:  Independent Samples
9-4 Two Dependent Samples (Matched Pairs)
**Chapter 10 Correlation and Regression**
10-1 Review and Preview
10-2 Correlation
10-3 Regression