**Syllabus**

**Three Rivers Community College**

**Math K123 (T1) - Elementary Statistics**

**CRN# 32250**

**M 6:00 - 8:45, Room D 104**

**Instructor**: Lance Heard

**Office Hours**: By Appointment

**Phone Number**: (860)514-6499

**e-mail**: lheard@trcc.commnet.edu

 heardl@nfaschool.org

 leheard@snet.net

**Required Materials**: The required software is mystatlab. The course ID for this program is heard66215

The textbook is ***Introductory Statistics***, 10th ed. by Neil A. Weiss. The textbook is available with the required software.

Students will be required to have a scientific calculator in class.

**Credits**: 3 credit hours

**Prerequisite***:* [***MAT\* K095***](http://catalog.threerivers.edu/content.php?catoid=4&catoid=4&navoid=181&filter%5Bitem_type%5D=3&filter%5Bonly_active%5D=1&filter%5B3%5D=1&filter%5Bcpage%5D=4#tt9449) *or* [***MAT\* K095I***](http://catalog.threerivers.edu/content.php?catoid=4&catoid=4&navoid=181&filter%5Bitem_type%5D=3&filter%5Bonly_active%5D=1&filter%5B3%5D=1&filter%5Bcpage%5D=4#tt8968)with a “C#” grade or better or appropriate placement∞ through multiple-measures assessment process.

**Course Description**: This course considers fundamental concepts of probability and statistics. The topics include exploratory data analysis (tables, graphs, measures of central tendency and dispersion), basic probability, applications of binomial and normal distributions, confidence intervals, hypothesis testing and Chi-Square Goodness-of-Fit Test.

**Grading Policy**: A student will receive one of the following grades: A, A-, B+, B, B-, C+, C, C-, D+, D, D-, F, W, P, or Audit. Your grade will be determined in the following manner:

1. Tests. There will be 5 online tests given throughout the semester. The tests will be worth 60 percent of the final grade. The lowest test grade will be dropped if you take all 5 tests. There will be no make up test without a doctor’s note.

2. Homework. Homework will be assigned after each section throughout the semester and will be worth 15 percent of the final grade. All work must be shown. A list of answers is not acceptable. The homework should be kept in a notebook or an organized folder.

3. Quizzes. Quizzes will be given throughout the semester on previously covered material. These quizzes will be taken on the mystatlab software. The best 5 scores will be counted. The quizzes will be worth 15 percent of the final grade.

4. Projects. Students will be required to complete two projects throughout the semester. These projects will be worth 10 percent of the final grade.

**Grade Equivalents**: **A** 93 – 100 **B+** 87 – 89 **C+** 77 – 79 **D+** 67 - 69 **F** ≤ 59

 **A-** 90 – 92 **B**  83 – 86 **C**  73 – 76 **D**  63 – 66

 **B-** 80 – 82 **C-** 70 – 72 **D-** 60 – 62

**College Withdrawal Policy:** A student who finds it necessary to discontinue the course must complete a withdrawal form in the Registrar’s Office at the time of the withdrawal. Students may withdraw from class any time before September 10 without being in good standing or obtaining prior permission from the instructor. After that period, a student wishing to withdraw must obtain written authorization of the instructor to receive a “W” grade for the course. Students who do not withdraw but stop attending will be assigned an “UF”. Eligibility for refund of tuition is based upon the date of withdrawal.

 **ACCOMMODATIONS:** Students with learning disabilities should contact the Learning Specialist, Matt Liscum, at 860-215-9265 or via email at mliscum@trcc.commnet.edu as soon as possible to ensure timely accommodations. Students with physical disabilities should contact Elizabeth Willcox at 860-215-9289 or via email at ewillcox@trcc.commnet.edu to facilitate accommodations. All testing accommodations MUST be discussed with the instructor in a timely manner, that is, *at least* one to two class meetings prior to any scheduled test for which accommodations are needed.

**BOARD OF REGENTS FOR HIGHER 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 Vickie Baker, the Diversity Officer and Title IX Coordinator:

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**Class Cancellation:**

In the unlikely event that a class needs to be canceled by the

 instructor, a notice will be placed on the classroom door prior to the start of class. If

 time permits, you will be notified by the instructor via email as soon as possible prior to

 the canceled class.For college cancellations, pay attention to the radio & TV

announcements, call the college’s main phone number, (860)8860177, or visit the college’s home page, www.trcc.commnet.edu. It is also suggested all students register for The myCommnetAlert Notification System. This system is used to deliver important information to students, faculty, and staff regarding weather related class cancellations.

The system delivers both email messages, and text messages over cellular phones to those individuals who are registered. To register, log on to your myCommnet account at

 **http://my.commnet.edu/ and follow the link to myCommnet Alert.**

 **Academic Dishonesty:**

Academic integrity is essential in all aspects of college coursework and learning. I have zero tolerance for academic dishonesty. It is expected that YOU complete all your assigned work. Communication or collaboration of any sort is absolutely prohibited during any exam. Academic Misconduct is punishable in a number of ways, including a score of a zero on the assignment where the cheating took place, a grade of an F in the course and/or possible censure on your permanent record. All cases of academic dishonesty will be referred to the Academic Dean. Do not let yourself come under the suspicion of academic dishonesty.

**Digication:**  All students are required to maintain an online learning portfolio in Digication that uses the college template. Through this electronic tool students will have the opportunity to monitor their own growth in college-wide learning. The student will keep his/her learning portfolio and may continue to use the Digication account after graduation. A Three Rivers General Education Assessment Team will select and review random works to improve the college experience for all. Student work reviewed for assessment purposes will not include names and all student work will remain private and anonymous for college improvement purposes. Students will have the ability to integrate learning from the classroom, college, and life in general, which will provide additional learning opportunities. If desired, students will have the option to create multiple portfolios.

**COURSE OUTCOMES:**

1. Construct and interpret graphs (histograms, bar graphs, stem and leaf plots) and tables (frequency and relative frequency) for sets of data.

2. Calculate and interpret 3 measures of center (mean, median and mode) and select the appropriate measure of center to use for the set of data presented.

3. Calculate and interpret 3 Measures of Dispersion (range, standard deviation and five-number summary) then select the appropriate Measure of Dispersion to use for the data presented.

4.Solve and interpret word problems using the z score to measure relative position(s).

5. Understand and use the definition of probability and the basic rules of addition, multiplication and counting to solve probability word problems.

6. Understand and use contingency tables to solve probability word problems.

7. Understand and apply the appropriate probability distribution (binomial, standard normal or normal) needed to solve probability word problems.

8. Explain what the Central Limit Theorem is and how it is used in Inferential Statistics.

9. Determine appropriate sample sizes necessary for estimating population means.

10. Understand and develop confidence intervals for estimating population means.

11. Understand and use Hypothesis Testing to test a claim about a population mean.

**Course Outline** (subject to change)

09/09 Sections 2.1, 2.4, 3.1, and 3.2

09/16 **Quiz 1**; Sections 3.3 - 3.5

09/23 **Test 1;** Section 4.1 - 4.3

09/30 **Quiz # 2;** Sections 4.4, 4.6, and 4.8

10/07 **Test 2;** Sections 5.1 - 5.3

10/14 **Quiz # 3;** Sections 6.1 & 6.2

10/21 **Test 3;** Section 6.3 & 6.5

10/28 **Quiz #** **4*;*** Sections 7.1 - 7.3

11/04 **Test 4**

11/11 Sections 8.1 - 8.3

11/18 **Quiz # 5;** Sections 9.1, 9.3, 9.4

11/25 Section 13.1 & 13.3

12/02 **Quiz # 6;** Review

12/09 **Test 5**

The instructor has the right to change/modify this syllabus at any time with proper notification to the class.