MATH 110 STATISTICS 1 (3 CREDITS)
SYLLABUS (Fall 2017 – Sections 02 & 81)

(**NOTE:** The syllabus is not a contract. The instructor may alter it at any time for any reason.)

BASIC INFORMATION

Instructor: Michael Kovarik
e-mail: Michael.Kovarik@raritanval.edu
Office hours: by appointment
Time: TR 07:00 – 08:20 (Section 02); TR 0:8:30 – 09:50 (Section 81)
Location: S246
Website: www.mkovarik.me/math110/

PREREQUISITE

- Completion of Math 030/030R ("Intermediate Algebra") or
- An appropriate score on the placement test

REQUIRED MATERIAL

Textbook: Introductory Statistics, 10th edition, N. A. Weiss, Pearson, 2016

Calculator: A scientific calculator is required for this class.

MyStatLab: MyStatLab is required for completing the homework.

Spreadsheet Application: Some homework problems may require the use of a spreadsheet application such as *LibreOffice Calc* to analyze large data sets.

MATERIAL TO BE COVERED

Chapter 1 Nature of Statistics:	Sections 1 – 3
Chapter 2 Organizing Data:	Sections 1 – 5
Chapter 3 Descriptive Measures:	Sections 1 – 5
Chapter 4 Probability:	Sections 1 – 6
Chapter 5 Discrete Random Variables:	Sections 1 – 3
Chapter 6 The Normal Distribution:	Sections 1 – 4
Chapter 7 The Sampling Distribution of the Sampling Mean:	Sections 1 – 3
Chapter 8 Confidence Intervals for One Population Mean:	Sections 1 – 3
Chapter 9 Hypothesis Tests for One Population Mean:	Sections 1 – 5

COURSE DESCRIPTION

This is a first course in statistics that introduces the student to the methods and uses of statistical research. Topics include descriptive displays and analysis, classical probability, the normal distribution, the sampling distribution of the mean, inferences concerning means p-values.

POLICIES

ATTENDANCE AND WITHDRAWAL POLICY

Students are expected to attend all classes. Attendance will be taken daily. However, attendance will not directly impact one's grade. Multiple absences that will result in an automatic failure. However, no "make ups" will be permitted if quizzes, tests or the final exam is missed due to absence. Students are solely responsible for withdrawing from the course if they feel unable to meet the expectations.

DELAYED OPENING

If the College announces a delayed opening at any location due to inclement weather or other emergency situation, all offices will be closed and all College classes and/or other activities will be suspended at that location until the delayed opening time. Classes scheduled to begin before the delayed opening time that have 60 minutes or more of instruction time remaining at the delayed opening time will begin at the delayed opening time and conclude at the regularly scheduled ending time. Classes scheduled to begin before the delayed opening time that have fewer than 60 minutes of instruction time remaining at the delayed opening time will be canceled. Classes scheduled to begin at or after the delayed opening time will meet as scheduled.

EXPECTATIONS OUTSIDE THE CLASSROOM

Students are expected to study an average of six hours per week outside of class. Some students may need more according to their individual needs and expectations. Studying includes reading the course text, completing the homework assignments, and optionally seeking additional help or resources.

Students are also expected to check their email daily. Course announcements and reminders will be sent via email. This includes possible rescheduling of tests or quizzes.

STUDENTS WITH DOCUMENTED LEARNING DISABILITIES

Reasonable Accommodation*:* Students with disabilities who require accommodations (academic adjustments and/or auxiliary aids or services) for this course MUST provide documentation of accommodations from the RVCC office of Disability Services, C143. No accommodations will be made without this documentation. For additional information, go to the Disabilities Services website at http://www.raritanval.edu/studentserv/counseling/index.html

VIOLATIONS OF ACADEMIC INTEGRITY

Violations of academic integrity of any type will not be condoned. This includes giving/receiving help on tests, using calculators on tests when not permitted, and copying another student's work. Violators will be reported in writing to the Dean of Academic and Student Services.

GRADING SYSTEM

Grading Scale:	90%	A	75%	C+
	85%	B+	70%	C
	80%	B	60%	D

Note: a minimum grade of C in Statistics I is required in order to take Statistics II.

Homework (0%): Homework will be assigned weekly. It is expected that students complete each homework assignment by its stated due date. Homework doesn't contribute directly to one's cumulative grade, but will indirectly be reflected on one's test performance.

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Project (20%): A project will be due at the last day of class. This project will require the use of technology to analyze a large dataset. Students are expected to work on the project individually and without external help (including help from tutors).

Tests (50%): Two tests are scheduled. They are to be completed in-class. The first test will cover chapters 1 – 5.The second test will cover chapters 6 – 9.

Exam (30%): An end-of-course examination (the "final") is to occur sometime after the last class. The date and time are to be determined. A grade 50% or greater is required on the exam to pass the course, even if the cumulative course grade exceeds 60% (the threshold for passing).

Make up-policy: There will be NO MAKE UPS for the tests or the final examination. Missing a class during such an assessment earns one a grade of "zero". Latecomers will not be given extra time.

Rescheduling policy: The dates for the quizzes and tests (see next page) are tentative and are subject to change depending on the pace of the course. If this does happen, an email will be sent

Curving policy: The grade one earns on any given test or the final examination may be curved according to the following formula:

$$curved\ grade = 100\% \times \left(\frac{new\ grade}{100\%}\right)^{1-\alpha}$$

Here, α is a number ranging from 0 (inclusive) to 1 (exclusive) that describes how generously a given assessment will be curved. This number may differ from assessment to assessment, but will be constant from student to student.

IMPORTANT DATES

2017-09-07: First day of class.
2017-10-10: Test I (covering chapters 2-5)
2017-11-14: Test II (covering chapters 6-9)
2017-11-23: Turkey day (no class)
2017-12-14: Last day of class / projects due.

The final examination will occur sometime between **December 18th** and **December 21st .** The exact time, date, and location are to be determined.