

Course Syllabus

Course Name: Pathway to Statistics

Course Number: STA1001

Term/Session: Spring 2018/2

Reference Number: 587947

Days/Times: MW/ 2 - 4:45 PM

Location: 72/163

Faculty Contact Information

Instructor:	Adrian Iorgoni
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Course Description

This course will lay the foundation for further statistical study. This course introduces basic statistical concepts and focuses on data analysis and quantitative reasoning. This course emphasizes both written and verbal communication of statistical concepts, and helps prepare the student for inferential statistics courses. This course is designed for students who don't intend to major in math, science, computer science, business, etc. Please check your degree requirements before enrolling in this course. Students who complete this course will be prepared to enter STA 2023, MGF 1106/1107, and QMB 2100. This course will not serve as a prerequisite for MAT 1033 or MAC 1105.

Course Prerequisites

Course Prerequisites: MAT0018 with a grade of "C" or higher or recommendation of the Mathematics department.

Co-requisites: None

General Course Outcomes

The following topics will be covered in this course.

1. Algebra for Statistics and Geometry
2. Statistical terminology and Data Collection Methods
3. Introduction to Probability
4. Organizing Data
5. Descriptive Statistics
6. The Normal Distribution
7. Modeling Bivariate Data

Required Course Materials

Required Text: Broward College Customized version of *Statistical Reasoning for Everyday Life* by Bennett, Briggs, and Triola

In addition, this course utilizes the following required software or hardware tools: MyMathLab

Methods of Instruction

This is a 3-credit hour course with exams. In this class, you will engage in structured in-class and out-of-class activities. You will achieve the course objectives through interactive lecture, in class practice problems, class participation, homework assignments, and assessments.

Grading and Exam Policy

Assessment	Graded Points	Percent of Final Grade
My Math Lab	200	20%
Tests 4 @ 150 pts.	600	60%
Final	200	20%
Total	1000	100%

Grading Scale	
Grades	Percentage
Grade = A	90-100+%
Grade = B	80-89.9%
Grade = C	70-79.9%
Grade = D	60-69.9%
Grade = F	59.9%-0.0%

Make-up Exams Make-up exams will only be considered under extenuating circumstances, and with prior notification and documentation (original funeral notice, original doctor note, etc.). Scheduling appointments and vacations are not valid reasons for requesting a make-up exam. Your lowest Test will be replaced by your final exam grade if necessary.

Course Attendance and Participation Policy

It is very important for you to actively participate in this class. If you stop participating in class, do not submit assignments, or fail to take quizzes or tests **prior to the withdrawal date**, you will be withdrawn from class and receive a W or, if it is your third attempt, an F.

If you stop participating **after the withdrawal date**, you will receive an F. To avoid this situation, you should remain an active learner in this class and always communicate extenuating circumstances to your instructor. Ongoing communication with the instructor is critical to your course success. Completion of tests, assignments, and other class activities are used as indicators of your participation in order to satisfy this reporting requirement.

Academic Dishonesty

Broward College expects its students to be honest in all of their course work and activities. Breaches of academic honesty include cheating, plagiarism, misrepresentation, bribery, and the unauthorized possession of examinations, papers, or other class materials that have not been formally released by instructors. A student's academic work must be the result of his or her own thoughts or self-expression.

Breaches of the College's policies pertaining to academic dishonesty may result in academic penalties imposed by the instructor in accordance with BC Policy 4.19. Academic penalties may include, but are not limited to, a failing grade for a particular assignment or a failing grade for the course. Additionally, the student may be referred to the Dean of Students of the campus/center for violations of the Student Code of Conduct for disciplinary action.

Suggested Course Schedule

Week		Date	Topics/ Textbook Sections
1	M	1/8	1.1 What Is/Are Statistics? 1.2 Sampling 1.3 Types of Statistical Studies 1.4 Should You Believe a Statistical Study?
1	W	1/10	2.1 Fractions 1.5 Data Types and Levels of Measurement 2.2 Decimals
2	M	1/15	Holiday
2	W	1/17	2.3 Percents 2.4 Scientific Notation and Significant Digits 2.5 Uses of Percentages in Statistics
3	M	1/22	TEST 1(Ch. 1 & 2) 3.1 Frequency Tables 3.2 Two-Way Tables
3	W	1/24	3.3 Picturing Distributions of Data 4.1 Using Formulas 4.2 What is Average?
4	M	1/29	4.3 Shape of Distributions 4.4 Measures of Variation (Range and Standard Deviation Only) 4.4 Measures of Variation (Quartiles and Five Number Summary Section Only)

4	W	1/31	5.1 What is Normal? 5.2 Properties of the Normal Distribution
5	M	2/5	TEST 2(Ch. 3 & 4) 5.2 Properties of the Normal Distribution 6.1 Sets and Venn Diagrams
5	W	2/7	6.2 Notation for Describing Outcomes 6.3 Basic of Probability 6.4 Combining Probabilities
6	M	2/12	TEST 3(Ch. 5 & 6) 7.1 Introduction to Graphing 7.2 Slope
6	W	2/14	7.3 Seeking Correlation 7.4 Interpreting Correlation 8.1 Solving Equations
7	M	2/19	8.2 Introduction to Graphing Lines 8.3 Linear modeling
7	W	2/21	8.4 Best-Fit Line and Prediction 8.5 Growth:Linear vs Exponential
8	M	2/26	TEST 4(Ch. 7 & 8) Final Exam Review
8	W	2/28	FINAI EXAM

****Schedule may be changed at the discretion of the instructor. It is your responsibility to verify dates and topics.**