Saint Joseph’s College

Department of Mathematics

MAT 200 Fundamentals of Statistics

Fall 2016

Dr. Eugene Callahan

**Class time and location:** Thu 6:15 PM-9:00 PM, Room MCE 303

**Office hours:** By appointment

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**Catalogue Description:** This course covers descriptive statistics, probability distributions such as Normal, Standard Normal, F, T and Chi-Squared along with their associated applications: inference, hypothesis testing and analysis of variance.

**Objective of the Course:**

**Text:** *Introduction to Probability*, John E. Freund. Dover, 1993.

**Course website:** I will post information on the Blackboard cite for this class. Please be sure you check it regularly.

**Grading:** We will have three in-class tests during the term. They will be on the following days:

**TBD**

There will be a final during finals week and the class grade will be determined as follows:

* average of the three tests 50%
* final 35%
* class participation 15%

**Grading Scale (where x is the grade):**

* x > .93 A
* .90 <= x < .93 A-
* .87 <= x < .90 B+
* .83 <= x < .87 B
* .80 <= x < .83 B- etc.

**Goals:**

**Outline:**

* Possibilities
* Probabilities
* Expectations
* Events
* Rules of Probability
* Conditional Probabilities
* Probability Distributions
* The Law of Large Numbers
* Using Excel for Statistical Analysis
* Application: Political Polling
* Application: Sports
* Application: Insurance
* Application: Weather

Selected applications will be added as time permits. We will use technology as appropriate including spreadsheets.

**Web Bibliography:** See Blackboard for useful websites.

**Core Outcomes (The Mathematical, Physical and Natural World):**

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**Benchmark Assessment:** The final exam grade will serve as the assessment tool for this course.

**Plagiarism / Academic Honesty:** The College expects students to observe academic integrity in all aspects of their academic life, including the conduct of their examinations, assignments, and research. All members of the College community share the responsibility of creating a climate of academic integrity, based on fairness to others and respect for oneself. Violations of academic integrity are treated very seriously. Plagiarism (the act of copying, stealing, or representing the ideas or words of another as one’s own without giving credit to the source), cheating on examinations, and all forms of academic dishonesty are forbidden. Students found guilty of such behavior are subject to appropriate disciplinary action, which may include a reduction in grade, a failure in the course, suspension, or expulsion.

**Student accessibility services:** St. Joseph's College, in accordance with the Americans with Disabilities Act, provides assistance and resources for students with disabilities.  If you have a documented disability -  physical, psychological, medical, or learning -  which may impact your academic learning, please contact Kris Percival, Director of the Academic Center. Kris can be contact at McEnetgart Hall, Room 306, 718.940.5314, or [kpercvial@sjcny.edu](mailto:kpercvial@sjcny.edu). This office will assist you in getting appropriate accommodations at the College and in the classroom.  All information will be kept confidential and private. Students should also work with their instructor to make arrangements if they require accommodations for test taking, carrying out assignments, or other academic needs.