**New York City College of Technology**

**Mathematics Department**

**MAT 1372/D550 Statistics with Probability**

**T,Th 8 am - 9:40 am on Blackboard Collaborate**

**Instructor**: Dr. Marianna Bonanome

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 Office Hours: Tuesdays/Thursdays 12-12:30 pm on Blackboard Collaborate.

**Prerequisites:** MAT 1375 with a grade of C or better is pre- or co-requisite for the course.

**Text:** *Introductory Statistics* (Third Edition), by Sheldon M. Ross (Required)

 *Statistics with Microsoft Excel* (5th Edition), by Beverly J. Dretzke (Optional)

**Course Objectives:** Topics include sample spaces and probabilities, discrete probability distributions (Binomial), expectation and variance, continuous probability distributions (Normal, Student, Chi-Square), confidence intervals, hypothesis testing, and correlation and regression. Spreadsheets are used throughout the semester.

**Technology:** Microsoft Excel with Tools: Data Analysis (comes with Excel). We will work extensively on the computers in the classroom. You will need a storage device to save all your work throughout the semester.

**Grading:**

|  |  |  |  |
| --- | --- | --- | --- |
| 93.0–100 | A | 77.0–79.0 | C+ |
| 90.0–92.9 | A- | 70.0–76.9 | C |
| 87.0–89.9 | B+ | 60.0–69.9 | D |
| 83.0–86.9 | B | 0–59.9 | F |
| 80.0–82.9 | B- |  |  |

 W = withdrawal up to Thursday, May 14, 2020

 WF = withdrawal after Thursday, May 14, 2020 (WF = F)

Note: Students who are failing should consider withdrawing officially before 5/14/2020 to avoid an F or WF.

**Exams (55% of grade):**

There will be 3 exams + a final exam. The lowest of the 3 exam grades will be dropped.

**Exam #1** – In-class exam

**Exam #2 -** **WeBWorK exam 33%, Written work 33%, Oral question 33%**

**WeBWorK exam:** An exam in WeBWorK will be made available on the designated exam day during class time (8 am – 9:40 am).

**Written work:** Worked out solutions to the WeBWorK exam problems must be submitted in order to receive credit for the exam. These written solutions may be handwritten on paper and scanned into a single pdf document. The pdf of your written work must be submitted through Blackboardby the close time of the exam (9:40 am). Points will be taken off for every minute the pdf is late.

**Oral question:** I will schedule a short, private, 5 minute session with you where I ask you to describe your method for answering one of the exam questions.

**Exam #3** - this will be a written project. Details will be posted on Blackboard.

*A missed exam will count as a 0 and will be the lowest grade that is dropped.*

**Final Exam (35% of grade):**

A full period final examination is given the last class meeting of the semester with date: TBD. It covers all topics studied. It **must** be taken to pass the course. More details will be forthcoming as I have them.

**Homework (10% of grade):** Homework will be assigned via WeBWorK and open source, online homework system.

<http://mathww.citytech.cuny.edu/webwork2/>

**Blackboard**

General information on the course, homework, assignments and tests can be found on our

course Blackboard site, login at:

<https://ssologin.cuny.edu/cuny.html?resource_url=https%3A%2F%2Fbbhosted.cuny.edu%252Fwebapps%252Flogin%252Fnoportal>

Blackboard online help is available at:

[https://help.blackboard.com/Collaborate/Ultra/Participant](https://urldefense.proofpoint.com/v2/url?u=https-3A__help.blackboard.com_Collaborate_Ultra_Participant&d=DwMF-g&c=pRW6ZPn_LDv0DnDIAK65Ad0CA4hBS-2mAmNa2_oHfF0&r=ZuSB2l-OmuDOCs-hFwYWqCdBE8giOWCHIv9D9xZ1ttk&m=ISf57NsIzmebdCjDwnzE37FdQOxjqlmYzs1VBXZ-_C0&s=CU86sU8QA_sTHaSI3FERy_6-OrUhjW9gJ3XNLkTXW1Q&e=)

You are expected to consult our Blackboard site and check your City Tech email regularly.

**Help** is available during my Blackboard Collaborate office hours Tuesdays/Thursdays 12:00 pm – 12:30 pm and during online tutoring:

Mondays: 1:00 pm – 8:00 pm

Tuesdays: 10:00 am – 2:00 pm & 4:00 pm – 8:00 pm

Wednesdays: 12:00 noon – 2:00 pm & 4:00 pm – 7:00 pm

Thursdays: 10:00 am – 8:00 pm

Fridays: 11:00 am-8:00 pm

In the virtual classroom with url https://us04web.zoom.us/j/3554939996

**Academic Misconduct**: includes (but is not limited to) giving or receiving assistance on a test, quiz, or homework assignment for which such assistance is not permitted, falsifying a document to obtain an excusal from a test, and using unauthorized notes on a test or quiz. A more complete definition of Academic Misconduct, see the Student Handbook.

**Tentative Schedule:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Date** | **Section(s)** | **Date** | **Section(s)** |
| 1/28 | Introduction to Excel | 3/19 | 5.7, 6.2, **9am Extra Credit Quiz**  |
| 1/30 | 2.1-2.4 | 3/24 | 6.3, 6.4 |
| 2/4 | 3.2-3.5 | 3/26 | **Exam #2** |
| 2/6 | 2.5, 3.7 | 3/31 | 6.5, 6.7 |
| 2/11 | 12.1-12.3 | 4/2 | 7.3 |
| 2/13 | 4.1-4.3 | 4/21 | 7.4.1 |
| 2/18 | **Exam #1** | 4/23 | 7.6 |
| 2/20 | 4.4 | 4/28 | 8.2 |
| 2/25 | 4.5 | 4/30 | 9.2, 9.3.1 |
| 2/27 | Relative freq. dist.&z-score | 5/5 | 9.4 |
| 3/3 | 5.2 | 5/7 | 13.2 |
| 3/5 | 5.3, 5.4 | 5/12 | 13.3 |
| 3/10 | 5.5 | 5/14 | **Project Presentations** |
| 3/12 | **No Class** | 5/19 | **Review** |
| 3/17 | **Blackboard trial run** | 5/21 | **Final** |

**Note**: This schedule, the choice of problems/sections and the grading scale are tentative and may change. Any changes will be announced during regular class meetings.