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MATH 215: Introduction to Statistics

CUNY School of Professional Studies

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CUNY School of Professional Studies

MATH 215 – INTRODUCTION TO STATISTICS

General Education

Required Core B – Mathematical and Quantitative Reasoning

No pre- or co-requisites

COURSE DESCRIPTION

Introduces the basic principles of statistics and probability, with an emphasis on understanding the underlying concepts, real-world applications, and the underlying story that the numbers tell. Uses Microsoft Excel's statistical functions to analyze data. Provides an introduction to probability, descriptive statistics, hypothesis testing, and inferential statistics.

REQUIRED CORE AREA LEARNING OUTCOMES B: MATHEMATICAL & QUANTITATIVE REASONING

The goal of this course is to help each student master the foundational concepts and skills associated with the subject matter.

Students will:

1. Interpret and draw appropriate inferences from quantitative representations, such as formulas, graphs, or tables.
2. Use algebraic, numerical, graphical or statistical methods to draw accurate conclusions and solve mathematical problems.
3. Represent quantitative problems expressed in actual language in a suitable mathematical format.
4. Effectively communicate quantitative analysis or solutions to mathematical problems in written or oral form.
5. Evaluate solutions to problems for reasonableness using a variety of means, including informed estimations.
6. Apply mathematical methods to problems in other fields of study.

REQUIRED TEXTS

This is a Zero Textbook Cost (ZTC) course. All required readings will be provided free of charge through the course site. This course uses *Concepts in Statistics*, a new set of digital course materials designed using open educational resources (OER) instead of a traditional textbook. You can freely access all readings, videos, quizzes and other activities through course site in the CUNY Blackboard platform. This course is different from most other courses in these ways:

- There is no separate textbook. Everything you need is here in your learning management system. No online access code is required.
- Learning outcomes are clear throughout the course. Every learning activity is linked directly to something you need to know or do to succeed in this course.
- Students receive guidance on where to focus their attention. As you complete self-check questions and quizzes, you'll get feedback on which areas need more attention.

- You can take graded quizzes twice. Quizzes can help you learn. If you don't like your first quiz score, you can keep studying and retake it. The higher score counts.
- Instructors can see where students are struggling. Learning data make it easy for me to see problem areas and offer individualized help.
- The more you use the course materials, the more I can help. When you participate, it provides information to help me help you succeed in the course.

This Lumen Mastery course was created with funding from the Bill & Melinda Gates Foundation through the Next Generation Courseware Challenge. This course is part of a research project exploring how well students perform using Lumen Mastery materials compared to what's been used in other course sections. Learning data will be used to analyze what's working, what's not working, and how to improve the educational experience Lumen Mastery provides. Individuals using the courseware will be asked to provide consent to use their data for research purposes. Completing this form is one of the course assignments.

GRADING

EVALUATION	PERCENT
Discussions (5)	20%
Quizzes (11)	30%
Assignments (12)	30%
Exams (2)	10%
Final Exam	10%

All course activities address all LOs.

GRADING DISTRIBUTION

A	93-100
A-	90-92.9
B+	87-89.9
B	83-86.9
B-	80-82.9
C+	77-79.9
C	73-76.9
C-	70-72.9
D	60-69
F	Below 60

ACCESSABILITY AND ACCOMMODATIONS

The CUNY School of Professional Studies is firmly committed to making higher education accessible to students with disabilities by removing architectural barriers and providing programs and support services necessary for them to benefit from the instruction and resources of the University. Early planning is essential for many of the resources and accommodations provided. Please see: [Disability Services on the CUNY SPS Website.](#)

ONLINE ETIQUETTE AND ANTI-HARASSMENT POLICY

The University strictly prohibits the use of University online resources or facilities, including Blackboard, for the purpose of harassment of any individual or for the posting of any material that is scandalous, libelous, offensive or otherwise against the University's policies. Please see: ["Netiquette in an Online Academic Setting: A Guide for CUNY School of Professional Studies Students."](#)

ACADEMIC INTEGRITY

Academic dishonesty is unacceptable and will not be tolerated. Cheating, forgery, plagiarism and collusion in dishonest acts undermine the educational mission of the City University of New York and the students' personal and intellectual growth. Please see: [Academic Integrity on the CUNY SPS Website.](#)

TUTORING

CUNY SPS offers all students a variety of tutoring services, free of charge, both online and in person. Please see: [Tutoring.](#)

HELP DESK

For assistance with access to CUNY SPS and CUNY computing resources, please see the [Help Desk](#) website for contact details and semester hours.

STUDENT SUPPORT SERVICES

If you need any additional help, please visit Student Support Services: [Student Support Services.](#)