

Identification	Subject	BSA 215 Statistical Methods for Economics and Business 3KU/6ECTS credits	
	Program	Undergraduate	
	Department	School of Economics and Management	
	Term	Fall Semester 2022	
	Instructor	Afruz Niftaliyeva	
	E-mail	afruzniftaliyeva@yahoo.com afruzniftaliyeva@asoju.edu.az	
	Classroom/hours	Tuesday 10:10-11:40 Saturday 13:40-15:10	
	Language	English	
Prerequisites	MATH 101 – Calculus		
Compulsory/ Elective	Compulsory		
Textbooks and course materials	<p>1) Paul Newbold, William L. Carlson and Betty M. Thorne ``Statistics for Business and Economics’’, 8th edition, 2013. (NW)</p> <p>2) Levine, Krehbiel, Berenson, ``Business Statistics: A First Course’’, 5th edition, 2010.</p> <p>Supplementary book:</p> <p>Statistics for Managers Using Microsoft Excel by D. Levine, D. Stephan, T. Krehbiel, M. Berenson, 6th edition, 2011.</p>		
Grading System	Methods	Percentage (%)	
	Midterm Exam	30	
	Quizzes	10 (2 quizzes)	
	Activity	5	
	Attendance	5	
	Final Exam	40	
	Total	100	
Course objective and content	<p>The first course in the core statistics sequence cover topics in Probability Theory and Mathematical Statistics. The main purpose of these courses is to provide you with a foundation of statistics and probability. The tools learned in these courses are essential building blocks for the other econometrics’ courses in the sequence. Focus in these courses will be on basic principles, including among other things: probability, random variables, conditional probability, probability densities and distributions, characteristic functions, test statistic formulation and distribution theory, statistical inference, and basic regression. Emphasis will be placed on applied problem solving using the tools learned in the class.</p>		
Learning Outcomes	<p>After this course, students will be able to calculate descriptive and numerical measures and probabilities based on both sample and population datasets to make initial inferences about population parameters. Furthermore, they will acquire skills to test population parameters by using Hypothesis testing based on sample observations. During the lectures, students will obtain insights about the involvement of statistical methods in real business and economic applications.</p>		
Policy	<p>Quiz Each Quiz will worth 10% of final grade. It is planned to be conducted on university if education is face to face and will be consists of open questions. Further details about quiz will be communicated by Instructor.</p> <p>Attendance Policy 5 % of final grade will be given for class attendance. Students should attend all classes. The proof of reason for unavoidable absence must be provided by student. In this case, the absence will not be resulted with grade subtraction.</p> <p>Students should come to the classes on time. Late arrival more than 15 minutes will be resulted as absence on the attendance sheet. In case of late arrival, student must inform Instructor in advance.</p> <p>Important Note: If the student miss 30% of all classes during the semester, he or she will not be allowed to participate in examination.</p>		

	<p>Class participation in this course: 5% of the final grade will be given for class participation. It is required from students to contribute to the class discussion and actively participate in team works. The quality of contribution will be the main factor not the quantity of contribution.</p> <p>Academic Dishonesty Students are expected to conduct themselves in a professional manner. Academic dishonesty such as plagiarism and cheating will not be tolerated. Therefore, students are expected to be honest and ethical in their academic work. Cases of academic dishonesty will be immediately reported to the Director's office for disciplinary action.</p> <p>Office Hours The instructor will be available to consult with students regarding class related questions regularly by appointment. Meetings with students outside office hours should be scheduled in advance by sending an e-mail to the instructor.</p>
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Tentative Schedule

Week		Topics	Textbook/Chapters
1	17.09.2022 20.09.2022	Introduction to Statistics. Basic definitions and terminologies.	Chapter 1 (NW)
2	24.09.2022 27.09.2022	Using Graphs to Describe Data	Chapter 1 (NW)
3	01.10.2022 04.10.2022	Using Numerical Measures to Describe Data	Chapter 2 (NW)
4	08.10.2022 11.10.2022	Elements of Chance: Probability Methods (Quiz 1)	Chapter 3 (NW)
5	15.10.2022 18.10.2022	Conditional Probability and Bayes Theorem	Chapter 3 (NW)
6	22.10.2022 25.10.2022	Discrete Probability Distributions	Chapter 4 (NW)
7	29.10.2022 01.11.2022	Continuous Probability Distribution	Chapter 5 (NW)
8	05.11.2022 08.11.2022	MIDTERM EXAM Holiday	
9	12.11.2022 15.11.2022	Sampling Distribution of Sample Means	Chapter 6 (NW)
10	19.11.2022 22.11.2022	Sampling Distribution of Sample Proportion	Chapter 6 (NW)
11	26.11.2022 28.11.2022	Confidence Interval Estimation of Unknown Population Mean	Chapter 7 (NW)
12	03.12.2022 05.12.2022	Confidence Interval Estimation of Unknown Population Mean when population variance is unknown.	Chapter 7 (NW)
13	10.12.2022 12.12.2022	Confidence Interval Estimation: Further Topics. (Quiz 2)	Chapter 8 (NW)
14	17.12.2022 19.12.2022	Hypothesis Tests of Single Population.	Chapter 9 (NW)
15	24.12.2022 26.12.2022	Review Class	
TBA		FINAL EXAM	