

Identification	Subject	BSA 250/A Statistics– 3KU/6ECTS credits	
	Program	Undergraduate	
	Department	School of Economics and Management	
	Term	Fall Semester 2023	
	Instructor	Afruz Niftaliyeva	
	E-mail	afruziftaliyeva@yahoo.com , afruziftaliyeva@asoiu.edu.az	
	Classroom/hours	Thursday, 18:30-21:00	
	Language	English	
Prerequisites	MATH 215		
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	
	Project	10	
	Quizzes	10	
	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 5% of final grade. It is planned to hold in the fourth, tenth and thirteenth week of Semester. It is planned to be conducted on university if education is face to face and will be consists of Multiple-choice and open questions. Exam time will be 30 minutes. Further details about quiz will be communicated by Instructor.</p> <p>- Group Project. Students must submit their group projects by the end of the first week of May. This assignment will allow students to do small statistical analysis and apply techniques that was taught throughout lectures. The topic of assignment for each group will be assigned by Instructor and Students will form groups consisting of 3 students in each. Students are required to provide a Report and 10 minutes Presentation based on their assigned topics. The exact deadline for submission of Report will be announced during the lecture. The</p>		

	<p>detailed feedback and further comments related to structure and quality of Report will be provided by Instructor after submission. This assignment gives an opportunity for students to conduct research independently and use the statistical tools and techniques that acquired through Lectures and practical sessions.</p> <p>- Attendance Policy</p> <p>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 25% of all classes during the semester, he or she will not be allowed to participate in examination.</p> <p>- Class participation in this course:</p> <p>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>	
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 Dean's office for disciplinary action.	
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.	
Tentative Schedule		
Week/ Date	Topics	Textbook/Chapters
1 21.09.2023	Introduction to Statistics. Basic definitions and terminologies.	Chapter 1 (NW)
2 28.09.2023	Using Graphs to Describe Data	Chapter 1 (NW)
3 05.10.2023	Using Numerical Measures to Describe Data	Chapter 2 (NW)
4 12.10.2023	Elements of Chance: Probability Methods (Quiz 1)	Chapter 3 (NW)
5 19.10.2023	Conditional Probability and Bayes Theorem	Chapter 3 (NW)
6 26.10.2023	Discrete Probability Distributions	Chapter 4 (NW)
7 2.11.2023	Continuous Probability Distribution	Chapter 5 (NW)
8 9.11.2023	Midterm Exam	
9 16.11.2023	Sampling Distribution of Sample Means	Chapter 6 (NW)
10 23.11.2023	Sampling Distribution of Sample Proportion	Chapter 6 (NW)
11 30.11.2023	Confidence Interval Estimation of Unknown Population Mean	Chapter 7 (NW)
12 7.12.2023	Confidence Interval Estimation of Unknown Population Mean when population variance is unknown.	Chapter 7 (NW)
13 14.12.2023	Confidence Interval Estimation: Further Topics. (Quiz 2)	Chapter 8 (NW)
14 21.12.2023	Hypothesis Tests of Single Population.	Chapter 9 (NW)
15 28.12.2023	Review Class	
16	Final Exam	