

Identification	Department	School of Economics and Management	
	Program	Undergraduate	
	Subject	BSA 215 Statistical Methods for Economics and Business– 3KU/6ECTS credits	
	Term	Fall, 2019	
	Instructor	Vusal Mammadzayev	
	E-mail	vmammadzayev@ada.edu.az v.mammadzayev@ada.edu.az	
	Classroom/hours	Mehseti Str. 41, Monday 18:30-21:00, Room 305N	
	Language	English	
Prerequisites	MATH 101 Calculus - Mathematics skills - Curiosity about Statistics		
Compulsory/ Elective	Compulsory		
Textbooks and course materials	1) Paul Newbold, William L. Carlson and Betty M. Thorne `` Statistics for Business and Economics ’’, 8 th edition, 2013. (NW) 2) Levine, Krehbiel, Berenson, `` Business Statistics: A First Course ’’, 5 th edition, 2010. Supplementary book: Statistics for Managers Using Microsoft Excel by D. Levine, D. Stephan, T. Krehbiel, M. Berenson, 6 th edition, 2011.		
Grading System	Methods		Percentage (%)
	Midterm Exam	4.11.19	30
	Group Project	23.12.19	10 (Students have to submit their group projects by the end of the first week of November. This assignment will allow students to do small statistical analysis and apply techniques that were 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 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 were acquired through Lectures and practical sessions).

	Quizzes (3)	07.10.19 18.11.19 09.12.19	15 (Each quiz is 5% of final grade and will take 25 minutes)
	Attendance		5
	Activity		5
	Final Exam		35
	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 in order 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>		
Class Activity and Attendance	<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 has to be provided by student. In this case, the absence will not be resulted with grade subtraction. Students should come to the classes on time. Late arrival more than 10 minutes will be resulted as absence on the attendance sheet. In case of late arrival, student has to inform Instructor in advance.</p> <p>Important Note: If the student miss 25% of the all classes during the semester, he or she will not be allowed to participate in examination.</p> <p>- Class activity 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 Director'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		Topics	Textbook/Chapters
1	16.09.19	Using Graphs to Describe Data	Chapter 1 (NW)
2	23.09.19	Using Numerical Measures to Describe Data	Chapter 2 (NW)
3	30.09.19	Elements of Chance: Probability Methods	Chapter 3 (NW)
4	07.10.19	Discrete and Continuous Probability Distributions (Quiz 1)	Chapter 4,5 (NW)
5	14.10.19	Distribution of Sample Statistics	Chapter 6 (NW)
6	21.10.19	Confidence Interval Estimation: One Population	Chapter 7 (NW)
7	28.10.19	Hypothesis Test of Single Population	Chapter 9 (NW)
8	4.11.19	Midterm-exam	
9	11.11.19	Hypothesis Tests of Single Population (cont)	Chapter 9 (NW)
10	18.11.19	Two Population Hypothesis Tests (Quiz 2)	Chapter 10 (NW)
11	25.11.19	Two Variable Regression Analysis	Chapter 11(NW)
12	02.12.19	Multiple Variable Regression Analysis	Chapter 12 (NW)
13	09.12.19	Multiple Variable Regression Analysis (cont) (Quiz 3)	Chapter 12 (NW)
14	16.12.19	Additional Topics in Regression Analysis	Chapter 13 (NW)
15	23.12.19	Course Review/ Group Project	
16		Final Exam	