Department of Information Science

Course Contract (Course outline and Syllabus)

Year		Semester	

Course Code	CLS109	Title	Statistics	Credit Hours	3-2-3
Campus		Building/ Room Number			

Course Instructor	Office	Office Tel. Ext.
Email	**Office Hours**	**Lecture Room Location**

Teaching Assistant	Office	Office Tel. Ext.
Email	**Office Hours**	**Laboratory Location**

Course Catalog Description
This course introduces data sampling, organizing, and summarizing. Measures of central tendency and spread. Correlation and Regression. Probability and sampling distributions. Statistical inference with application from many fields.
Prerequisites:
ELU 106
Textbook
Introduction to the Practice of Statistics, by David S. Moore and George P. McCabe, 9th Edition, W.H. Freeman and Company Publisher, 2014.
References
None

Course Assessments Plan			
Exam type	**Weight**	**Date**	
Lab/Tutorial			
Exam 1			
Exam 2			
Final Exam			
Homework			
Quizzes			
Final Exam			
Project	Report:	Presentation:	Report Submission:	Presentation:

Topics Covered in this Course

#	Unit #	Topic	No. of teaching hours
1	1	Data Distributions	12
2	2	Data Relationships	3
3	3	Randomness and Probability	9
4	4	Sampling Distributions	6
5	5	Introduction to Inference	7
6	6	Inference for Mean	5

Lab. Assessments Plan

Exam type	Weight	Date
Lab Final Exam		
Exercises		
Quizzes		

Laboratory covered in this course

#	Laboratory title
1	bar chart, pie chart, histogram
2	box plot, stem leaf, bell shaped frequency plot
3	Regression and correlation + SPSS introduction
4	SPSS applied examples
5	Probability + SPSS applied examples
6	Sample distribution + SPSS applied examples
7	Statistical inference
8	Margin of error + SPSS applied examples
9	SPSS applied examples and project
10	SPSS applied examples and project

Course Learning Outcomes

CLO #	CLO statement	CLO mapped to course unit	CLO Level	Student Outcomes
C1	Carry out elementary data analysis	1	M	(1), (5)
C2	Investigate association and relationship between variables	2	M	(1), (5)
C3	Acquire awareness of the probabilistic/random nature of many phenomena that they deal with	3	L	(1)
C4	Learn basic probability laws and be able to apply them	3, 4	L	(1)
C5	Make inferences about population based on information collected in a sample	5, 6	L	(1)

Description of Student Outcomes (High)

SO #	Student Outcome statement

University Grading Policy

Range	95 ~ 100	90 ~ 94	87 ~ 89	83 ~ 86	80 ~ 82	77 ~ 79	73 ~ 76	70 ~ 72	65 ~ 69	60 ~ 64	Less than 60	Fail for Absence
Weight	4.00	3.67	3.33	3.00	2.67	2.33	2.00	1.67	1.33	1.00	0.00	0.00

Letter Grade	A	A-	B+	B	B-	C+	C	C-	D+	D	F	FA

General Policy

Group Work and Cheating Policy: Group work is encouraged for solving assignments. However, copying and claiming someone else's work is not accepted at all. It will be reported and penalized according to the university cheating rules.

Homework Policy: All assignments must be submitted in class and on the BB on the due date. Late assignments will not be accepted.

Attendance Policy: You should attend the section you are registered in. Attending a section which you are not registered in is NOT PERMITED for any reason. Students are encouraged to come to class early. Plan to arrive to class 5 minutes before class starts. To avoid class disturbance, please do not negotiate entrance while the class is going on.

Absence Rules: According to university rules:

• The first warning is issued after 3 hours of absence.

• The second (final warning) is issued after 6 hours of absence.

• An "FA" (Fail for Absence) grade is issued after 7 hours of absence.

Note: Field marked with RED color means it should be same as CDF.

Course Weekly Breakdown

Duration	Topics	Comments
Week 1		
Week 2		
Week 3		
Week 4		
Week 5		
Week 6		
Week 7		
Week 8		
Week 9		
Week 10		
Week 11		
Week 12		
Week 13		
Week 14		
Week 15		
FINAL EXAM		