

Antalya Bilim University
Department of Economics
Statistics I - STAT 1201
Fall 2021/2022

Class time & Place: Thursday 09:30 to 12:30

Office hours: tba

Dr. Michael Wegener
michael.wegener@antalya.edu.tr
+90 531 357 66 98

The primary purpose of this course is to introduce students to the basic concepts and methods of statistics. After completing this course, students will be able to

1. understand, use and interpret quantitative statistical methods.
2. understand real -life data and make use of data for decision -making processes.
3. use statistical software packages as a supportive tool to analyse and visualise data.

Course Book:

Paul Newbold et al., Statistics for Business and Economics, 8th Edition, Pearson.

Students are responsible for getting a hard copy of the course book asap.

Recommended Readings:

The lecturer will provide additional reading material

Developing Graduate Attributes

Students will be encouraged to develop the following graduate attributes by undertaking the course activities and mastering the course contents. These attributes will be assessed within the following assessment tasks:

- skills involved in scholarly enquiry;
- an in-depth engagement with the essential topics in the field of microeconomics and (social) contract theory;
- the capacity for analytical and critical thinking;

- the ability to engage in independent and reflective learning.

Academic Honesty, Plagiarism & Cheating

Plagiarism is using the words or ideas of others and presenting them as your own. Plagiarism is a type of intellectual theft. It can take many forms, from deliberate cheating to accidentally copying from a source without acknowledgement. Students caught in either plagiarism or cheating during exams or in one of their homeworks will be reported to the department and faculty which will take disciplinary action.

Assessment Criteria:

- 1) **Midterm Exam (40%) + Final Exam (50%) + Homework, Project, Course Attendance (10%):** Students are responsible for all course materials until midterm exams. The final exam is cumulative and will focus on all units and topics studied throughout the course, but emphasis will be placed on the topics covered after the midterm.
- 2) **The passing grade performance at the end of the semester should be at least 50/100.**

Course Schedule (Tentative)

WEEK 1: Introduction to the Course

WEEK 2: Describing Data - Graphical Analysis

WEEK 3: Describing Data - Numerical Analysis

WEEK 4: Probability

WEEK 5: Discrete Random Variables & Probability Distributions

WEEK 6: Continuous Random Variables & Probability Distributions

WEEK 7: Probability Distributions

WEEK 8: Midterm Exam

WEEK 9: Sampling & Sampling Distributions

WEEK 10: Estimation - Single Populations

WEEK 11: Estimation – Additional Topics

WEEK 12: Hypothesis Testing - Single Populations

WEEK 13: Hypothesis Testing - Additional Topics

WEEK 14: Repetition & Questions