

Sabancı University
FALL 2020

PHIL 321: SYMBOLIC LOGIC

Instructors: Elif Yavnik
Wednesday 14.40-16.30
Thursday 13.40-14.30
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Office: SSBF 2025
Office hours: By appointment, via Zoom

*Please note that this syllabus is tentative and subject to change.

Course Description

This course aims to provide a basic but detailed introduction to Symbolic Logic. We will begin the semester by discussing the benefits of studying Logic. Our first task will be to learn its vocabulary. It will be to your advantage to learn this vocabulary well at the beginning, as it will make it much easier for you to follow the course. The majority of the course time will be allocated to Propositional Logic. We will acquire the skills for doing Logic, such as constructing Truth Tables and Truth Trees, and making Derivations. We will then have a smaller part of the course devoted to Predicate Logic, its language, and to doing basic derivations in it. In Predicate Logic we will be able to express not only the relations between the propositions, but also the relations internal to them. After having thus developed skills in following logical connections, if there is time remaining at the end of the semester, we will turn our attention to arguments and processes of reasoning, in order to strengthen our abilities of Critical Thinking.

Course Requirements and Grading

Attendance: 10 points

Quizzes: 30 points

Midterm: 30 points

Final: 30 points

This course requires studying regularly and building on acquired skills, therefore attendance is key to doing well in it.

The course will be held synchronously on Zoom, and attendance is compulsory.

Attendance follow-up starts at the end of the add-drop period.

Please keep your cameras on during class.

After 2 unexcused absences your attendance grade will fall 1 point with every unexcused absence. (That is to say, with 3 unexcused absences you get a 9/10, with 4 you get 8/10, etc.)

Absences for medical reasons are excused when documented with a doctor's report. An absence may also count as excused in case a life situation that you need to attend arises: in that case email and check with me beforehand.

If you are absent *unexcused* for a quiz, you will not be able to make up for it. Quizzes, assignments, schedule changes, and other information will be announced in class and not necessarily be repeated. It is the students' responsibility to be up to date with that information in case they missed a class, by contacting either me or one of their classmates.

Quizzes will help you keep up with the material. We will have around 6 announced quizzes. They are meant to both make sure that you don't fall behind without realizing, and to help you acquire points in a way that is easier than the exams.

We will have one Midterm Exam and one Final Exam in this course.

Point to letter grade conversion chart:

A	100-94
A-	93-90
B+	89-87
B	86-84
B-	83-80
C+	79-77
C	76-74
C-	73-70
D+	69-65
D	64-60
F	59-0

Academic Integrity

Dishonesty of any kind will not be tolerated in this course. Dishonesty includes, but is not limited to, cheating, plagiarism, fraud, and any failure to cite all materials and sources in your work. A student found guilty of such conduct will receive a grade of "F".

Anti-Discrimination Policy

The classroom will be free from all discrimination based on, including but not limited to, race, ethnicity, creed, religion, language, disability, gender, and sexual orientation. The students are expected to maintain this environment.

Special Needs

It is the policy of Sabancı University to accommodate students with special needs and disabilities. To determine accommodations and/or academic adjustments, please let us know and contact the Disabled Students Support Unit of CIAD (specialneeds@sabanciuniv.edu).

Reading and Course Schedule – The readings will be made available on SUCourse.

N.B. The reading list and the course schedule are tentative and subject to change. Any changes will be announced in class. It is the student's responsibility to be up to date with the reading and work requirements.

INTRODUCTION

WEEK 1

October 7&8 Introduction to the course – no reading

PROPOSITIONAL LOGIC

WEEK 2

October 14&15 Propositions, Arguments, and Logical Properties

Language, Syntax, and Semantics

WEEK 3

October 21&22 Language, Syntax, and Semantics

Truth Tables

WEEK 4

October 28&29 No Class – National Holiday

WEEK 5

November 4&5 Truth Tables

WEEK 6

November 11&12 Truth Tables

WEEK 7

November 18&19 Truth Trees

WEEK 8

November 25&26 Truth Trees

WEEK 9

December 2&3 Truth Trees

WEEK 10

December 9&10 Truth Trees

WEEK 11

December 16 **MIDTERM**

December 17 Derivations

PREDICATE LOGIC

WEEK 12

December 23&24 Derivations

WEEK 13

December 30&31 Derivations

WEEK 14

January 6&7 Derivations