

Sabancı University
SPRING 2024

PHIL 321
SYMBOLIC LOGIC

Instructor: Elif Yavnik
email: eyavnik@sabanciuniv.edu
Thursday 13.40-15.30 online via Zoom
Friday 14.40-15.30 online via Zoom
Online Zoom Link: <https://sabanciuniv.zoom.us/j/91219261832>
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 constructing Truth Tables and Truth Trees, and for making Derivations in Propositional Logic. We will then have a small part of the course devoted to Critical Thinking where we will learn to apply our Logic background to processes of reasoning.

Course Requirements and Grading

Attendance: 10 points

Quizzes: 25 points

Midterm: 30 points

Final: 35 points

Attendance:

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

Attendance will be taken on an hourly basis. Attendance follow-up starts at the end of the add-drop period. After 3 unexcused hours your attendance grade will fall by 1 point with every unexcused absence. (That is to say, with 4 unexcused absences you get a 9/10, with 5 you get 8/10, etc.)

Absences for medical reasons are to be documented with a doctor's report, and acceptance of medical reports are due to instructor approval.

An absence may also count as excused in case a life situation that you need to attend arises: in such cases please email me beforehand, if possible.

In order to take a make up exam, the medical report must be submitted within 3 days after the original exam date.

Quizzes:

Quizzes will help you keep up with the material. 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.

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

Midterm and Final Exams:

Midterm and Final Exams will be held face to face.

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.

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| WEEK 1 | Introduction to the course – no reading |
| WEEK 2 | Propositions, Arguments, and Logical Properties Language, Syntax, and Semantics |
| WEEK 3 | Truth Tables |
| WEEK 4 | Truth Tables |
| WEEK 5 | Truth Trees |
| WEEK 6 | Truth Trees |
| WEEK 7 | Truth Trees |
| WEEK 8 | Truth Trees |
| WEEK 9 | MIDTERM |
| WEEK 10 | Derivations |
| WEEK 11 | Derivations |
| WEEK 12 | Derivations |
| WEEK 13 | Derivations |
| WEEK 14 | Critical Thinking |