Sabancı University
FALL 2021

**PHIL 321**
**SYMBOLIC LOGIC**

Instructor: Elif Yavnık
Tuesday 11.40-12.30 online
Wednesday 15.40-17.30 FASS 1098
email: eyavnik@sabanciuniv.edu
Office hours: via Zoom, by appointment

*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, as well as for making Derivations. We will then have a small part of the course devoted to Predicate Logic and its language in order to see how in that language we are 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: 25 points
Midterm: 30 points
Final: 35 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 in a hybrid format. Monday sessions will be online, and students will be able to attend the Wednesday sessions both in class and via Zoom.
Students who join via Zoom are expected to keep their cameras on and microphones off during class. If you are joining via Zoom and would like to speak, please say so in the chatbox on Zoom which I will check regularly. This will be the equivalent of raising your hand in the classroom.
Attendance will be taken on an hourly basis. Attendance follow-up starts at the end of the add-drop period. After 2 unexcused hours your attendance grade will fall by 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 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.

If you are absent *unexcused* for a quiz, you will not be able to make up for it. Quiz days, 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 miss a class, by contacting either me or one of their classmates.

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.

Midterm and Final exams will be held face to face, in the classroom.

Important health measures for face-to-face hours: Everybody in the classroom is required to properly wear a mask, covering their mouth and noses, during the entire face-to-face sessions. All the windows will remain open during these sessions, unless the weather makes it impossible. During the breaks, everyone will leave the room in order to allow the classroom air to be refreshed.

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.

| | |
|---|---|
| WEEK 1 | Introduction to the course – no reading |
| WEEK 2 | Propositions, Arguments, and Logical Properties<br>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 | No class on Tuesday: Study day<br>Wednesday: MIDTERM |
| WEEK 10 | Derivations |
| WEEK 11 | Derivations |
| WEEK 12 | Derivations |
| WEEK 13 | Predicate Language, Syntax, and Semantics |
| WEEK 14 | Critical Thinking |