



TEL AVIV אוניברסיטת  
UNIVERSITY תל אביב



### Course Title

Logic and Argumentation

### Lecturer

Dr. Balthasar Grabmayr

### Contact details

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### Semester

Fall 2022

### Short Description

While logic has been one of the central pillars of philosophy since Aristotle, reasoning and argumentation are fundamental to most fields of human inquiry. By providing solid grounds for what distinguishes good arguments from bad ones, logic structures our reasoning and knowledge about the world. In this course we will learn the basics of formal logic, which provides symbolic means for representing and evaluating arguments. We will focus on two logical systems: propositional logic and predicate logic. While propositional logic formalizes reasoning involving “propositional connectives” such as “and”, “not”, and “if...then”, predicate logic allows for a more fine-grained analysis of language. We will gain familiarity with the translation of informal arguments into symbolic languages and with rigorous methods of inference in these logical systems. The tools and abilities taught in this course are not only essential to understanding many areas of contemporary philosophy, but will also enable students to assess the validity of arguments in any field of study in a rigorous and systematic way. No previous knowledge of formal methods or mathematics is required.

### Final grade components

Midterm:

In-class exam, 15%

Final requirement:

In-class exam, 75%

Participation:

Active participation in class, 10%

### Attendance

Attendance is mandatory. Students are permitted a maximum of three unauthorized absences without penalty. Any additional absences will affect the final grade and may result in failure of the course. \*

### Academic Conduct

Plagiarism is taken extremely seriously. Any instance of academic misconduct which includes: submitting someone else’s work as your own; failure to accurately cite sources; taking words from another source without using quotation marks; submission of work for which you have previously received credit; working in a group for individual assignments; using unauthorized materials in an exam and sharing your work with other students, will result in failure of the assignment and will



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likely lead to further disciplinary measures.\*

#### **Final assignment**

Exam dates and submission deadlines are published on the Liberal Arts website. Courses with a final exam also have a second make-up exam. Students requiring an extension for a final paper must submit an Academic Committee Request Form to the Liberal Arts office in advance of the deadline. Late papers will be subject to a point deduction.\*

#### **Additional requirements**

Phones are to be turned-off while in class.

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\* See Liberal Arts academic handbook for further details