科目ナンバリング	U-LAS00 10006 LE34				
授業科目名<英訳>	Logic I-E2 :Sentential Logic and Deductions Logic I-E2 :Sentential Logic and Deductions	担当者所属職名・氏名	医学研究科　講師　SAHKER, Ethan Kyle		
群	人文・社会科学科目群	分野(分類)	哲学・思想(基礎)	使用言語	英語
旧群	A群	単位数	2単位	週コマ数	1コマ	授業形態	講義（対面授業科目）
開講年度・開講期	2025・前期	曜時限	金4	配当学年	主として1・2回生	対象学生	全学向

[授業の概要・目的]

Students of all disciplines will learn the basic concepts of logic. [Warning] This class is not based on mathematical logic. Rather, this is a philosophy-based course. Logic is the study of evaluating thought processes and determining the quality of reasoning and argumentation. Students will learn how to develop and evaluate persuasive arguments through deductive reasoning. Deductive reasoning identifies a general truth and determines the validity of the observational conclusions. First, an introduction to the philosophy and concepts of logic will be presented. Then, students will learn principles used to produce and evaluate sound informal logic (content of arguments). Next, students will learn principles used to produce and evaluate sound formal logic (structure of arguments). The content of the course applies to all disciplines and will improve students' ability in persuasion.

Students will actively practice:
(1) producing and identifying valid and sound deductive arguments
(2) evaluating the content of arguments
(3) evaluating the structure of arguments

[到達目標]

(1) To develop an ability to evaluate the intent/meaning of statements and systematically evaluate validity.
(2) To gain skills in the extraction and development of valid logical conclusions.
(3) Students will practice writing phrases in English based on logical arguments, with emphasis on simplicity and clarity. After completion of the course, students should acquire improved communication skills in English and their native language.

[授業計画と内容]

(1) Course overview and introduction to logic
(2-3) Basic Concepts
(4-5) Language, meaning, and definition
(6-7) Informal fallacies
(8-9) Categorical propositions & Syllogisms
(10-11) Propositional logic & Deduction
(12-13) Predicate logic
(14) Review
(15) Final exam
(16) Feedback

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Logic I-E2 :Sentential Logic and Deductions(2)

[履修要件]

特になし

[成績評価の方法・観点]

40% - Final Exam
20% - Quizzes
20% - Short Personal Reflection Paper
20% - Class Participation

[教科書]

使用しない
Not required. Optional reference books are provided below

[参考書等]

（参考書）
Lee SF. (2017). 『Logic: A complete introduction.』ISBN:B01J24WGYW

[授業外学修（予習・復習）等]

About 1-3 hours of study and preparation are required per week outside of class.

[その他（オフィスアワー等）]

Students are expected to complete assignments before class and come prepared to discuss the topics. One short personal reflection paper will also be required.

[主要授業科目（学部・学科名）]