

科目ナンバリング		U-LAS00 10008 LE34										
授業科目名 ＜英訳＞		Logic II-E2 :Inductive & Scientific Reasoning Logic II-E2 :Inductive & Scientific Reasoning					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・後期		曜時限	水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】												
<p>Students will develop applied inductive reasoning skills in Logic II. Inductive reasoning takes observations and infers a general truth from those observations. Inductive logic is the foundation of the scientific method. As an extension of the methods and principles used to identify and use reasoning, students will learn causal and probabilistic theories and methods for the evaluation of reasoning.</p> <p>Concepts and skills learned in Logic II will cover methodologies used within the humanities and the sciences. Students will apply course content by developing a hypothetical research proposal based on any topic they are interested in doing. Research proposal examples include: effective gambling strategies, delicious food, anime/manga techniques, video games, soccer player skills, etc. Students can choose any topic as long as it is something they enjoy.</p> <p>Students will actively practice:</p> <p>(1) developing methods of identifying cogent reasoning and causality</p> <p>(2) logic applied to statistical and scientific reasoning applications</p> <p>(3) evaluation of high quality inductive reasoning in scientific methods</p>												
【到達目標】												
<p>(1) To acquire the ability to assess a scientific argument and inductive reasoning methods.</p> <p>(2) To learn to evaluate scientific writing based on the presented reasoning and statistical conclusions presented.</p> <p>(3) To develop an enhanced ability to understand scientific reasoning.</p>												
【授業計画と内容】												
<p>(1) Course overview and introduction to logic</p> <p>(2-3) Analogy, legal and moral reasoning</p> <p>(4-5) Methods for identifying causality</p> <p>(6-7) Probability</p> <p>(8-9) Statistical reasoning</p> <p>(10-11) Hypothetical and scientific reasoning</p> <p>(12-14) Evaluating science</p> <p>Feedback</p>												
【履修要件】												
特になし												
【成績評価の方法・観点】												
<p>50% - Research Proposal Project</p> <p>25% - Quizzes</p> <p>25% - Class Participation</p>												
Logic II-E2 :Inductive & Scientific Reasoning(2)へ続く												

Logic II-E2 :Inductive & Scientific Reasoning(2)

【教科書】

使用しない

【授業外学修（予習・復習）等】

Students are expected to complete assignments before class and come prepared to discuss the topics.

【その他（オフィスアワー等）】

Students may contact the instructor if they have questions and they may schedule an in-person appointment by email.

【主要授業科目（学部・学科名）】