

PHIL 111 : Introduction to Inductive Logic

Credits: 3

Class Hours: 3 lecture

Description: This course focuses on current society's use of probabilities and statistics, and explores how most academic disciplines use these types of data to analyze information and draw conclusions. Students will better understand and use probabilities, statistics, and risk evaluations to make better decisions, and more generally develop skills to safely draw inferences when available evidence leaves them unsure about what is true.

Semester Offered: Fall, Spring

Designation:

Foundations (Quantitative Reasoning) – FQ

Course Student Learning Outcomes (CSLOs):

1. Apply basic concepts in logic, inductive inference, probability, and decision theory.
2. Create simple probability models, including diagrams and basic decision tables, to solve problems.
3. Evaluate possible and probable decisions under conditions of risk and uncertainty.
4. Critically evaluate the relevance and quality of statistical data in a variety of fields.
5. Explain some of the shortcomings and strengths of employing inductive quantification models in making knowledge claims and decisions.