

Brief Course Outline

Course Title: Introduction to Logic

Course Number and Section

PHILOSOP

2250 550

Instructor Name(s): Emerson Doyle

Instructor Email(s): edoyle9@uwo.ca

Disclaimer: Information in the brief course outline is subject to change. The syllabus posted on OWL Brightspace is the official and authoritative source of information for the course.

Course Description:

This course is intended to introduce students to the art and science of logical reasoning. To the first end, we will develop syntactic and semantic methods to test the validity of arguments using the two most basic and popular systems of modern logic: the logic of sentences, and the logic of first-order predicates with identity and definite descriptions. To the second end, we will investigate the properties of these systems (called meta-theory). This will help us to explain why and how these systems capture and characterize the essential aspects of our valid reasoning, especially in application to science, mathematics, computation, and everyday life.

Learning Outcomes: one outcome per entry

The study of formal logic provides excellent preparation for intellectual work in almost all other disciplines.

Learning, in a systematic way, various methods of sound reasoning—methods that prize precision, clarity, rigour, practice, and patience.

Develop an enhanced ability to engage in disciplined argument and to critically evaluate the arguments of others, especially in philosophical and scientific contexts.

Confront and hopefully overcome personal concerns about “math-phobia”, or the paralyzing aversion to mathematical or technical material.

How to approach an uncertain problem and to persist in the face of adversity.

Textbooks and Course Materials:

- Merrie Bergmann, J. Moore, & J. Nelson (2014). The Logic Book, 6th ed. McGraw-Hill.
- Various supplementary readings to be made available on OWL.

Methods of Evaluation: one assignment per entry

Assignment	Due Date mm/dd/yy	Weight - %
8 Homeworks	various	16%

Assignment	Due Date mm/dd/yy	Weight - %
Daily Quizzes	various	20%
Midterm Exam	June 01	30%
Final Exam	Exam Period	34%

In solidarity with the Anishinaabe, Haudenosaunee, Lūnaapéewak, and Chonnonton peoples on whose traditional treaty and unceded territories this course is shared.

Monday, May 11, 2026

Huron Brief Course Outline

In-course Costs

\$101.95

For Textbooks and Course Materials (below), you are required to include the cost of each textbook or other learning material.

Note whether there are any restrictions that would prevent a student from using a second-hand copy. Here is some suggested text:

- Required textbook: [author, title, edition, publisher, date]. Cost: [insert amount].
 - Or include the weblink of the textbook's publisher site that includes the cost information.
- Students need to purchase this edition. Second-hand or older editions will not be sufficient.
- OR Students are welcome to purchase second-hand or earlier editions of this textbook.
- This course has an optional field trip that costs [insert amount].
- This course has a required field component that costs [insert amount].