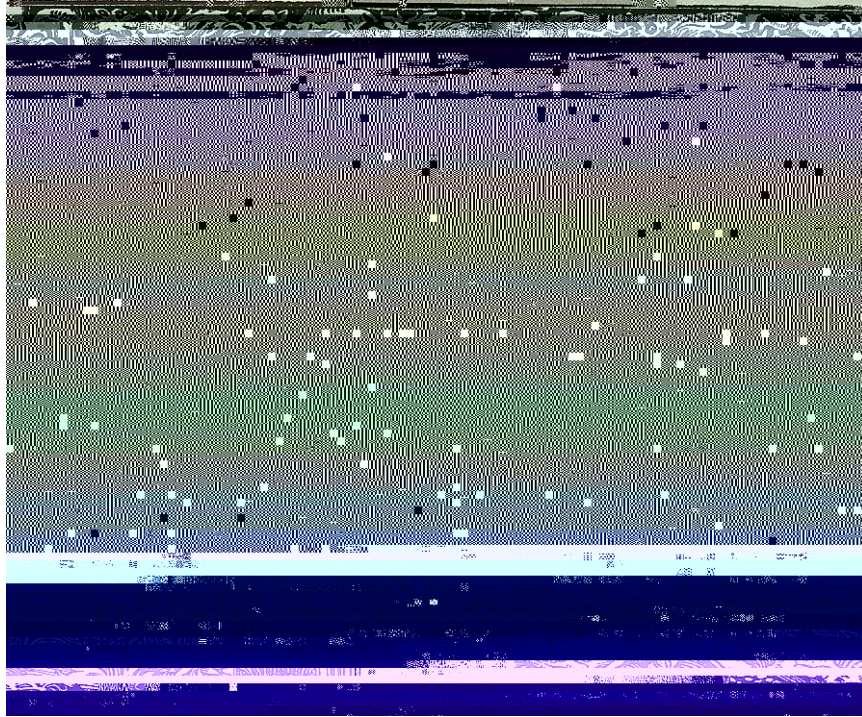**WESTERN UNIVERSITY**
DEPARTMENT OF PHILOSOPHY
Undergraduate Course Outline 2018-19

Philosophy 2250: Introduction to Logic

Full Year   **Instructor:**
Monday, Wednesday, Friday 11:30-12:20
AHB 1B02

LEARNING OUTCOMES

- be able to formalize demonstrations and claims made in ordinary English in the language of first order modal predicate logic with identity and descriptions
- be able to render such formalizations back into flowing English prose, given an interpretation of the variables
- be able to determine whether such formalizations are well formed
- be able to use trees and derivations to determine consequence/derivability, inconsistency/contradiction, and equivalence/interderivability
- be able to establish consequence, inconsistency, and equivalence by direct appeal to the semantics for first order modal predicate logic with identity and definite descriptions
- be able to identify models that establish non-consequence, consistency, and non-equivalence and explain why those models work
- be able to explain what it means for a decision procedure to be consistent, sound, complete, and decidable, and for a language to be compact, extensional, and expressively complete
- be able to identify the principal parts of a demonstration by mathematical induction and explain how they work together to establish a conclusion
- be able to identify some of the philosophical problems associated with the use of names and descriptions and with integrating modal with predicate logic

REQUIREMENTS

Attendance as recorded by record of assignment completion and pick-up		10%
Exam 1 – Chapters 1-3	October 3	15%
Exam 2 – Chapters 4-6	October 31	15%
Exam 3 – Chapters 7-9	Exam period	15%
Exam 4 – Chapter 10	January 30	15%
Exam 5 – Chapters 11-13	March 6	15%
Exam 6 – Chapters 15-18	Exam period	15%

Guidelines:
- There will be an assignment due for each second class.
- Answers on assignments should be surrounded by sufficient white space to permit insertion of comments.
- Except where answers are only one or two lines long, only one question should be answered on a page.
- Because mistakes made on earlier assignments can be repeated on subsequent ones, it is important to review returned assignments before preparing subsequent ones.
- Assignments are corrected, but not graded. To earn credit, assignments must be picked up in the following class.
- Assignments submitted late receive 50% credit; assignments picked up late lose 50% credit. Assignments submitted more than one class late receive no credit. Assignments not picked up within two classes from the due date are not retained.
- Assignments not submitted or picked up in the classroom are considered submitted or picked up late (drop box or office drop off or pick up is not an alternative)
- It is understood that students may not always be able to complete all assigned questions. In

such cases a representative sample of questions from each assigned exercise set should be completed. It is expected that all assigned questions will normally be answered.
- Doing multiple assignments at the same time is a good way to train yourself to keep making the same mistakes. Simultaneous submission of multiple assignments is prohibited.
- A 50% average on examinations is necessary to pass the course; it is also sufficient to pass the course.

AUDIT
Students wishing to audit the course should consult with the instructor prior to or during the first week of classes.

DEPARTMENT OF PHILOSOPHY POLICIES
The **Department of Philosophy Policies** which govern the conduct, standards, and expectations for student participation in Philosophy courses is available in the Undergraduate section of the Department of Philosophy website at http://uwo.ca/philosophy/undergraduate/policies.html.
It is your responsibility to understand the policies set out by the Senate and the Department of Philosophy, and thus ignorance of these policies cannot be used as grounds of appeal.

ACCOMMODATION

Students who are in emotional/mental distress should refer to Mental Health@Western http://www.uwo.ca/uwocom/mentalhealth/ for a complete list of options about how to obtain