

PHIL 1000: Logic 101

Instructor: Mr. Daniel Adsett
Time: 8:00 AM – 8:50 AM
Location: Marquette Hall 105
Days: Mondays, Wednesdays, and
Fridays
Dates: January 12th – May 2nd
Office: Coughlin Hall 132F
Office Hours: Monday 10:00 AM – 11:30 AM
Tuesday 1:00 PM – 2:30 PM
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Required Text:

Patrick J. Hurley. *A Concise Introduction to Logic*, 12th Edition. United States: Cengage Learning, 2015.
ISBN 10: 1285196546

Description:

This course serves as an introduction to various forms of logical reasoning. We will examine the basic elements of argumentation, propositional logic, informal fallacies and, inductive reasoning. By the end of the course, students should be familiar with the fundamental characteristics of logic – what logic is and is not, logical fallacies, and symbolic logic.

Course Objectives:

1. Knowledge of the distinguishing features of arguments
2. An ability to work comfortably with propositional logic
3. An awareness of how both formal and informal logic relate to life experiences
4. Knowledge of the differences and characteristics of deductive and inductive reasoning

Grading:

There will be six quizzes, five problem sets, two mid-terms, and one exam. The final grade will be based on these tests, problems sets, and attendance. Beginning after Martin Luther King Jr. Day, one point will be given for each class attended for a total of 40 points (39 points plus an additional one to make it even). Students with more than six excused or unexcused absences before 4/10/15 will be withdrawn from the course. Each individual quiz and problem set will be worth 14 points but all 5 quizzes 6 problem sets, taken together, will be graded out of 110 points. Each mid-term will be worth 75 points and the final exam will be worth 200. Quizzes and mid-terms missed for unexcused reasons will not be able to be taken at an alternative time. Problem sets must be handed in during or before class on the days they are due. In all, each student's final grade will be out of 500:

Attendance:	40
Quizzes:	110
Mid-Term I:	75
Mid-Term II:	75
Final Exam:	200
Total:	500

Grading Scale (Letter Grade/Percentage/Points):

A	94-100 (467.50-500)	C	70-75 (347.50-377.49)
AB	88-93 (437.50-467.49)	CD	64-69 (317.50-347.49)
B	82-87 (407.50-437.49)	D	58-63 (287.50-317.49)
BC	76-81 (377.50-407.49)	F	0-57 (0-287.49)

Important Dates:

Mid-Term I: February 4th

Mid-Term II: March 27th

Exam: May 5th, 10:30 AM – 12:30 PM

Attendance Policy:

As already outlined in the **Grading** section, students with more than six excused or unexcused absences before 4/10/15 will be withdrawn from the course. Beginning after Martin Luther King Jr. Day, one point will be given for each class attended for a total of 40 points (39 points plus an additional one to make it even). At the instructor's discretion, failure to participate in class and repeated failure to complete homework will count against the attendance grade – losing up to one point per day – but not the possibility of being withdrawn. Quizzes and mid-terms missed for unexcused reasons will not be able to be taken at an alternative time. However, quizzes and mid-terms missed for (1) severe health reasons (more than a cold, flu, or bodily ache), (2) jury duty, or (3) university sanctioned activities and related travel will be able to be taken at an agreed upon time.

Policies for Late Work and Extra Credit:

Late problem sets will not be accepted. If it is impossible, for one reason or another, to attend class the day the problem set is due, students must either (1) submit the problem set early or (2) scan and e-mail the problem set to the professor before class on the day it is due. There will be no make-up work for students who miss quizzes and/or mid-terms for unexcused reasons. However, each quiz and problem set will be graded out of 14 points for a total of 154 points. Because all quizzes and problem sets taken together will be graded out of 110, students will be able to earn up to 44 additional or extra points that will count toward the final grade.

Policy on Electronic Devices:

Students caught using cellphones or computers in class will lose 2 points per class and should not expect to be informed when they lose these points. Students are encouraged to use the digital copy of the textbook at home but not in class.

Academic Dishonesty:

Anyone found cheating on a quiz, mid-term, or the final exam will receive a grade of zero and will be promptly reported. Those found providing answers to another student or allowing another student to cheat will also receive a grade of zero. For precise definitions of cheating, consult the definition found here: <http://bulletin.marquette.edu/undergrad/academicregulations/>

Disability/Special Needs:

Anyone with a confirmed disability or special need should contact me promptly so that appropriate accommodations, if needed, can be supplied.

Schedule:

Date	Topic	Pages	Deadlines
January 12	Introduction	NA	
14	Arguments, Premises, and Conclusions	1-13	
16	Recognizing Arguments	14-33	Quiz I
19	Martin Luther King Jr. Day – No Class		
21	Deduction and Induction/Validity, Truth, Soundness, Strength, Cogency	33-58	
23	Argument Forms: Proving Invalidity/Extended Arguments	59-79	Quiz II
26	Varieties of Meaning	80-95	
28	The Intension and Extension of Terms/Definitions and Their Purposes	96-104	
30	Definitional Techniques/Criteria for Lexical Definitions	104-121	Quiz III
February 2	Review	NA	
4	NA	NA	Mid-Term I
6	Symbols and Translation	316-329	
9	Truth Functions	330-341	
11	Truth Tables for Propositions	342-350	
13	Truth Tables for Arguments	351-357	Problem Set I
16	Indirect Truth Tables	358-367	
18	Argument Forms and Fallacies I	367-385	
20	Argument Forms and Fallacies II	367-385	Problem Set II
23	Rules of Implication I	388-401	
25	Review	NA	
27	Rules of Implication II	401-410	Problem Set III
March 2	Rules of Replacement I	411-424	
4	Review	NA	
6	Rules of Replacement II	424-437	Problem Set IV
9	Spring Break – No Class		
11			
13			
16	Conditional Proof	437-443	
18	Indirect Proof	443-449	
20	Proving Logical Truths	449-453	Problem Set V
23	Review	NA	

	25	Review	NA	
	27	NA	NA	Mid-Term II
	30	Fallacies in General/Fallacies of Relevance	122-142	
April	1	Fallacies of Weak Induction	143-160	
	3	Easter Break – No Class		
	6			
	8	Fallacies of Presumption, Ambiguity, and Illicit Transference	160-181	
	10	Fallacies in Ordinary Language	182-199	Quiz IV
	13	Analogical Reasoning/Legal Reasoning/Moral Reasoning	524-543	
	15	Review	NA	
	17	Review	NA	Quiz V
	20	The Hypothetical Method/Hypothetical Reasoning: Four Examples from Science	609-618	
	22	The Proof of Hypotheses/The Tentative Acceptance of Hypotheses	618-631	
	24	Causality and Mill's Methods	544-568	Quiz VI
	27	Review – Formal Logic	NA	
	29	Review – Informal Fallacies	NA	
May	1	Overall Review	NA	