

## PHIL 1000: Logic 102

Instructor: Mr. Daniel Adsett  
Time: 9:00 AM – 9:50 AM  
Location: Olin Engineering Building 128  
Days: Mondays, Wednesdays, and  
Fridays  
Dates: August 25<sup>th</sup> – December 6<sup>th</sup>

Office: CO 132F  
Office Hours: 10:00 AM – 11:30 AM  
Mondays and Wednesdays  
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### Required Text:

Patrick J. Hurley. *A Concise Introduction to Logic*, 12<sup>th</sup> 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 ten quizzes, two mid-terms, and one exam. The final grade will be based on these tests as well as attendance. Beginning after Labor Day, one point will be given for each regular class (a class without either a mid-term or a quiz) attended for a total of 26 points. Students with more than six excused or unexcused absences before 11/14/2014 will be withdrawn from the course. Each individual quiz will be worth 14 points but all ten quizzes, taken together, will be graded out of 100 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. In all, each student's final grade will be out of 476:

Attendance:	26
Quizzes:	100
Mid-Term I:	75
Mid-Term II:	75
Final Exam:	200
Total:	476

**Grading Scale (Letter Grade/Percentage/Points):**

A	94-100 (447.44-476)	C	70-75 (333.20-390-31)
AB	88-93 (418.88-447.43)	CD	64-69 (304.46-333.19)
B	82-87 (390.32-418.87)	D	58-63 (276.08-304.45)

**Important Dates:**

Mid-Term I: September 15<sup>th</sup>

Mid-Term II: November 5<sup>th</sup>

Exam: December 9<sup>th</sup> 1:00 PM – 3:00 PM

**Attendance Policy:**

As already outlined in the **Grading** section, students with more than six excused or unexcused absences before 11/14/2014 will be withdrawn from the course. Beginning after Labor Day, one point will be given for each regular class (a class without either a mid-term or a quiz) attended for a total of 26 points. 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 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 alternative time.

**Policies for Late Work and Extra Credit:**

Because there are no written or group assignments for this class and because the final grade entirely depends on attendance and test performance, there will be no penalty for late work. There will be no make-up work for students who miss quizzes and/or mid-terms for unexcused reasons. However, each quiz will be graded out of 14 points for a total of 140 points. Because all quizzes are marked out of 100, students will be able to earn up to 40 additional or extra points that will count toward the final grade.

**Policy on Electronic Devices:**

Students who are caught using cellphones or computers in class will be considered absent for the day. This will not only affect the final grade, but will also count toward the six permitted absences before 11/14/2014. Those with digital copies of the textbook are encouraged to use them 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 <http://bulletin.marquette.edu/undergrad/academicregulations/>

**Disability/Special Needs:**

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

**Schedule:**

Date	Topic	Pages	Deadlines
August 25	Introduction	NA	
27	Arguments, Premises, and Conclusions	1-13	
29	Recognizing Arguments	14-33	Quiz I
September 1	Labor Day – No Class		
3	Deduction and Induction/Validity, Truth, Soundness, Strength, Cogency	33-58	
5	Argument Forms: Proving Invalidity/Extended Arguments	59-79	Quiz II
8	Varieties of Meaning	80-95	
10	The Intension and Extension of Terms/Definitions and Their Purposes	96-104	
12	Review	NA	
15	NA	NA	Mid-Term I
17	Mid-Term Break – No Class		
19			
22	Definitional Techniques/Criteria for Lexical Definitions	104-121	
24	Review	NA	
26	Symbols and Translation	316-329	Quiz III
29	Truth Functions	330-341	
October 1	Truth Tables for Propositions	342-350	
3	Truth Tables for Arguments	351-357	Quiz IV
6	Indirect Truth Tables	358-367	
8	Argument Forms and Fallacies I	367-385	
10	Argument Forms and Fallacies II	367-385	Quiz V
13	Rules of Implication I	388-401	
15	Review	NA	
17	Rules of Implication II	401-410	Quiz VI
20	Rules of Replacement I	411-424	
22	Rules of Replacement II	424-437	
24	Review	NA	Quiz VII

	27	Conditional Proof	437-443	
	29	Indirect Proof	443-449	
	31	Proving Logical Truths	449-453	Quiz VIII
November	3	Review	NA	
	5	NA	NA	Mid-Term II
	7	Fallacies in General/Fallacies of Relevance	122-142	
	10	Fallacies of Weak Induction	143-160	
	12	Fallacies of Presumption, Ambiguity, and Illicit Transference	160-181	
	14	Fallacies in Ordinary Language	182-199	Quiz IX
	17	Analogical Reasoning/Legal Reasoning/Moral Reasoning	524-543	
	19	Review	NA	
	21	The Hypothetical Method/Hypothetical Reasoning: Four Examples from Science	609-618	Quiz X
	24	The Proof of Hypotheses/The Tentative Acceptance of Hypotheses	618-631	
	26	Thanksgiving – No Class		
	28			
December	1	Review – Formal Logic	NA	
	3	Review – Informal Fallacies	NA	
	5	Overall Review	NA	