

**MORAVIAN COLLEGE**  
**COURSE SYLLABUS**  
SPRING 2013

PHIL 210 Symbolic Logic  
MW 6b (2:35 PM – 3:45 PM)  
Classroom: Comenius 105  
Instructor: Dr. Bernie Cantens  
Office: Comenius 107  
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Web Page: <http://berniephilosophy.com/>  
Office Hours: MW 9:00-10:30

**Text**

*The Power of Logic* (4<sup>th</sup> Edition) Editors Frances Howard-Snyder, Daniel Howard Snyder and Ryan Wasserman (New York: McGraw-Hill, 2009)

ISBN 978-0-07-3407737-1

**Course Description:**

In-depth analysis of various types of arguments, including those in knowledge theory and ethics, which relate to professional and social issues; verbal puzzles; categorizing schemas.

**Learning Outcomes/Competency**

The following outcomes are expected of students who complete this course:

- 1)- Understand the nature of reasoning.
- 2)- Articulate his/her thoughts in a logical and clear fashion.
- 3)- Recognize fallacies
- 4)- Construct good arguments.
- 5)- Evaluate deductive arguments.
- 6)- Evaluate inductive arguments.

**Topics:**

- 1)- Basic Logical Concepts
- 2)- Informal Fallacies
- 3)- Categorical Logic
- 4)- Statement Logic
- 5)- Statement Logic Proofs

**Learning Methods:**

Readings, lectures, discussions, exercises, and exams.

**Attendance Policy:**

Attendance is mandatory. Students will lose 1 point for every unexcused absence up to a possible 5 points.

**Academic Dishonesty Policy**

See Student Handbook pp. 32 – 38

**Student Behavior:**

See Student Handbook pp. 38 – 40

**Disability**

Students who wish to request accommodations in this class for a disability should contact Elaine Mara, Assistant Director of Learning Services for Disability Support, 1307 Main Street (extension 1510). Accommodations cannot be provided until authorization is received from the office of Learning Services.

**Grading/Measures of evaluations:**

- Test 1: February 4, 20%
- Test 2: February 25, 20%
- Test 3: March 20, 20%
- Test 4: April 3, 20%
- Test 5: May 1, 20%

**Extra Credit**

Students will have the opportunity of earning up to a maximum of 3 extra credit points. Students who attend 3 philosophy club meetings or other selected meetings with philosophical content (must be approved by professor beforehand) will earn 3 extra credit points. If you only attend 1 or 2 meetings you will receive no extra credit.

A 100-95; A- 94-90; B+ 89-87; B 86-84; B- 83-80; C+ 79-77; C 76-74; C- 73-70; D+ 69-67; D 66-64; D- 63-60; F <59

**PROGRAM AND READING ASSIGNMENTS**

<b>DATE</b>	<b>TOPIC</b>	<b>HOME WORK DUE</b>
	<b>BASIC CONCEPTS</b>	
January 14	Introduction	
January 16	1.1 Validity and Soundness	
January 21	<b>NO CLASS</b>	

January 23	1.2 Forms and Validity Some Logic	1.1(A) All; 1.1(B) All 1.1(C) All; 1.1(D) All
January 28	1.3 Counterexamples and invalidity 1.4 Strength and Cogency	1.2(A) 1-30; 1.2(B) 1-15 1.2(C) 1-15; 1.2(D) 1-15
January 30	Review	1.3(A) 1-10; 1.3(B) 1-10; 1.4(A) All; 1.4(B) All; 1.4(C) All
	<b>IDENTIFYING ARGUMENTS</b>	
February 4	<b>TEST 1</b>	
	<b>INFORMAL FALLACIES</b>	
February 11	4.1 Fallacies of Irrelevance	2.1(A) 1-25; 2.1(B) 1-10 2.2(A) 1-10
February 13	4.2 Fallacies of Ambiguity	4.1(A) 1-20; 4.1(B) All; 4.2(A) All
February 18	4.3 Fallacies Involving Unwarranted Assumptions	4.3(a) All
February 20	Review	
	<b>CATEGORICAL LOGIC</b>	
February 25	<b>TEST 2</b>	
	<b>CATEGORICAL LOGIC:</b>	

	<b>SYLLOGISM</b>	
February 27	<b>No Class</b>	
March 4	<b>Recess</b>	
March 6	<b>Recess</b>	
March 11	5.1 Standard Forms of Categorical Statements 5.2 Traditional Square of Opposition 5.3 Further Immediate Inferences	
March 13	6.1 Standard Form, Mood, and Figure 6.2 Venn Diagrams and Categorical Statements 6.3 Venn Diagrams and Categorical Syllogisms	5.1(A) 1-10; 5.2(A) 1-15 5.2(B) 1-10; 5.2(C) 1-4
March 18	6.4 Modern Square of Opposition Review	6.1(A) 1-10; 6.1(B) 1-15 6.3(A) 1-10  6.4(A) 1-5
March 20	<b>TEST 3</b>	
	<b>STATEMENT LOGIC</b>	
March 25	7.1 Symbolizing English Arguments 7.2 Truth Tables	7.1(A) 1-20; 7.1(C) 1-10 7.1(D) 1-10; 7.2(A) 1-25
March 27	7.3 Truth Tables and Arguments	7.3(A,B) 1-20
April 1	7.5 Logically Significant Categories	7.5 (A,B,C, 1-10)

April 3	<b>TEST 4</b>	
	<b>STATEMENT LOGIC: PROOFS</b>	
April 8	8.1 Implicational Rules of Inference	
April 10	8.2 Five Equivalence Rules	8.1(A) 1-10; 8.1(C) 1-20 8.1(D) 1-25
April 15	8.3 Five More Equivalent Rules	8.2(C) 1-10; 8.2(D) 1-10
April 17	8.4 Conditional Proofs	8.3(C) 1-10; 8.3(D) 1-10
April 22	8.5 <i>Reductio ad Absurdum</i>	8.4(A) 1-20;
April 24	Review	8.5(A) 1-10
May 1, Wed. 8:30 AM	<b>TEST 5</b>	