

**MORAVIAN COLLEGE**  
**COURSE SYLLABUS**  
SPRING 2011

PHIL 211 Symbolic Logic  
T TR 3b (10:20 AM - 11:30 PM)  
Classroom: Zinzendorf 103  
Instructor: Dr. Bernie Cantens  
Office: Zinzendorf 203  
Phone/E-Mail: (610) 861-1589/ bcantens@moravian.edu  
Web Page: <http://berniephilosophy.com/>  
Office Hours: T and TR 1:00 PM – 2:00 PM  
W 11:00 AM-12:00 PM

**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)- Identifying Arguments
- 3)- Informal Fallacies
- 5)- Categorical Logic
- 6)- Statement Logic
- 7)- 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. Students can make up lost points in unexcused absences by actively participating in class discussions. Unexcused absences included only the following: (1) sickness with a doctor’s note, (2) death in the family or (3) some other extraordinary event.

**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 Mr. Joe Kempfer, 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 3            20%
- Test 2: February 22        20%
- Test 3: March 22            20%
- Test 4: April 7               20%
- Test 5: May 5 (8:30 AM) 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 18	Introduction	
January 20	1.1 Validity and Soundness	

January 25	1.2 Forms and Validity Some Logic	1.1(A) All; 1.1(B) All 1.1(C) All; 1.1(D) All
January 27	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
February 1	Review	1.3(A) 1-10; 1.3(B) 1-10; 1.4(A) All; 1.4(B) All; 1.4(C) All
February 3	<b>TEST 1</b>	
	<b>IDENTIFYING ARGUMENTS</b>	
February 8	2.1 Arguments and Nonarguments 2.2 Well-Crafted Arguments	
	<b>INFORMAL FALLACIES</b>	
February 10	4.1 Fallacies of Irrelevance 4.2 Fallacies of Ambiguity	2.1(A) 1-25; 2.1(B) 1-10 2.2(A) 1-10
February 15	4.3 Fallacies Involving Unwarranted Assumptions	4.1(A) 1-20; 4.1(B) All; 4.2(A) All
February 17	Review	4.3(a) All
February 22	<b>TEST 2</b>	
February 24	<b>No Class</b>	
	<b>CATEGORICAL LOGIC</b>	
March 1	5.1 Standard Forms of Categorical Statements 5.2 Traditional Square of Opposition 5.3 Further Immediate Inferences	
	<b>CATEGORICAL LOGIC: SYLLOGISM</b>	

March 3	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 8	<b>Recess</b>	
March 10	<b>Recess</b>	
March 15	6.4 Modern Square of Opposition	6.1(A) 1-10; 6.1(B) 1-15 6.3(A) 1-10
March 17	Review	6.4(A) 1-5
March 22	<b>TEST 3</b>	
	<b>STATEMENT LOGIC</b>	
March 24	7.1 Symbolizing English Arguments 7.2 Truth Tables	
March 29	7.3 Truth Tables and Arguments	7.1(A) 1-20; 7.1(C) 1-10 7.1(D) 1-10; 7.2(A) 1-25
March 31	7.5 Logically Significant Categories	7.3(A,B) 1-20
April 5	Review	7.5 (A,B,C, 1-10)
April 7	<b>TEST 4</b>	
	<b>STATEMENT LOGIC: PROOFS</b>	
April 12	8.1 Implicational Rules of Inference	
April 14	8.2 Five Equivalence Rules 8.3 Five More Equivalent Rules	8.1(A) 1-10; 8.1(C) 1-20 8.1(D) 1-25

April 19	8.4 Conditional Proofs 8.5 <i>Reductio ad Absurdum</i>	8.2(C) 1-10; 8.2(D) 1-10 8.3(C) 1-10; 8.3(D) 1-10
April 21	8.6 Proving Theorems	8.4(A) 1-20; 8.5(A) 1-10
April 26	8.6 Proving Theorems (continued)	8.6(A) 1-20; 8.6(B) Challenging Theorems
April 28	Review	
May 5 Thursday 8:30 AM	<b>TEST 5</b>	