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Course Outline

Department of Philosophy, History & Politics
Faculty of Arts

PHILOSOPHY 222
Elementary Formal Logic (2,1,0) 3 credits
Fall, 2009

Instructor: **Dr. Jenna Woodrow** Phone/Voice
Mail: 250-828-5208
Office: AE 329 E-Mail: jwoodrow@tru.ca
Office Hours: Thursdays, 11:30-12:20, or by appointment.
Classes: Tuesday: OM 1732, 10:30-11:20 & AE 361, 13:30-14:20
Thursday: OM 1732, 10:30-11:20

Calendar Description: Introduction to contemporary symbolic or formal logic. The course will examine both sentential and predicate logic through the development of a system of deduction based upon semantic tableau techniques and natural deduction. Syntax and semantics will be discussed at an elementary level. Translation of natural language arguments into the formal logic for analysis will be done.

Course Objectives: This course identifies and examines the basic rules for the science of reasoning. In this class you will:

1. Learn the basic principles of reasoning by learning an artificial language that is based upon those principles.
2. Learn the meaning and use of the concept *valid*: How one goes about establishing whether some claim is or is not the consequence of another (accepted) claim. This is the basic criterion for judging an inference good.

Course Description: This course provides an introduction to elementary formal logic.

Required Text: M. Bergmann, J. Moor and J. Nelson, *The Logic Book* 5th Ed., McGraw-Hill, New York, NY: 2009.

Approximate Grading Scale:

Grade	A+	A	A-	B+	B	B-	C+	C	C-	D	F	DNC
/100	100-90	89-85	84-80	79-77	76-73	72-70	69-65	64-60	59-55	54-50	49-0	---
/4	4.0	4.0	3.67	3.33	3.0	2.67	2.33	2.0	1.67	1.0	0.0	0.0

Evaluation

Test 1: Sep. 24

10%

Test 2: Oct. 8

20%

Test 3: Oct. 29

20%

Test 4: Nov. 12

20%

Final Exam to be scheduled by registrar during final exam period

30%

Final Mark

100%

Tentative Schedule of Readings and Tests

Sep. 10	Introduction
Sep. 15-17	Basic Notions of Logic: Chapter 1: 1-18
Sep. 22-24	Basic Notions of Logic: Chapter 1: 19-27
	*Test 1. Sep. 24, 10:30-11:20
Sep. 29-Oct.1	Sentential Logic: Symbolization and Syntax: Chapter 2: 28-50
Oct.6-8	Sentential Logic: Symbolization and Syntax: Chapter 2: 51-74
	*Test 2. Oct. 8, 10:30-11:20
Oct. 13-15	Sentential Logic: Semantics: Chapter 3: 75-93
Oct. 20-22	Sentential Logic: Semantics: Chapter 3: 93-101
Oct. 27-29	Sentential Logic: Semantics: Chapter 3: 101-114
	*Test 3. Oct. 29, 10:30-11:20
Nov. 3-5	Sentential Logic: Derivations: Chapter 5: 160-189
Nov. 10-12	Sentential Logic: Derivations: Chapter 5: 189-208
	*Test 4. Nov. 12, 10:30-11:20
Nov. 17-19	Sentential Logic: Derivations: Chapter 5: 208-228
Nov. 24-26	Predicate Logic: Symbolization and Syntax: Chapter 7: 276-283
Dec. 1-3	Predicate Logic: Sybolization and Syntax: Chapter 7: 284-308
Final Exam	*To be scheduled by the registrar during the Formal Exam Period.

Please note that this is a tentative schedule: The amount of time devoted to each subject is bound to vary depending on the class's

understanding of the material. I reserve the right to make changes at any time, although such changes will usually be announced in class at least one week prior to the date of the change. If you miss a class, please ensure that you are aware of any announcements made.

Logic requires practice: Attendance is mandatory, and students are expected to come to class having read and understood assigned sections. Logic is a skill which must be acquired by practice. Each chapter depends on knowledge of the previous ones so it is crucial that you remain current in your readings and ask questions if you do not understand. It is also critical that you monitor your comprehension of the course material by doing the exercises in the text.

Attendance: Students may not be permitted to write the midterm and/or the final and a **DNC** may be assigned for failing to attend classes as specified in the *TRU Policy Manual (ED(24) 3-1: Student Attendance)* (<http://ca/policy/ed/ed03-1.pdf>).

Please take careful note of the rules regarding tests: Tests will presume that students have read and understood all class materials assigned whether discussed in class or not. There will be no writing of any test save at the scheduled time. If you miss a test, you will receive zero (0%) for that test. However, you may be able to have the next test you write be worth the value of the missed test and the one you write if and only if: (1) you must miss the test for medical or compassionate reasons, and you have documentation to this effect, and (2) you discuss this with the instructor at least one school day prior to the test.

Electronic Media Devices: It is the policy of the Department of Philosophy, History, and Politics that personal computers are not allowed in any 100- or 200- level class. Exceptions may be made after consultation with the instructor. The use of cell phones, digital media players (iPod, MP3, etc.), electronic translators, spellcheckers, etc. is not allowed in any Philosophy, History, or Politics class unless approved by the instructor. Students with disabilities requesting accommodation should contact the Office of Disability Services (see Policy BRD 10-0).

Transferability: This course transfers to UBC as Phil 220, SFU as PHIL 210, and UVIC as PHIL 203.

Plagiarism and Cheating: Cheating is defined as any dishonest or deceptive conduct or attempted conduct by which individuals or groups of individuals use or attempt to use unauthorized aids, assistance, materials, or

methods to represent their academic work, training and standards as other than they are. Plagiarism is defined as an act in which an individual submits the work of another person as his or her own. A student caught in either of these activities will be penalized with at least a zero grade on the particular assignment. Serious cases will result in automatic failure of the course. Please familiarize yourself with the section on academic honesty in the calendar.

Troubles? If you are having any problems with the course, please see me. I am here to help you learn.