PHI 3130 MODERN LOGIC

Dr. Sally Ferguson

Course Overview:

This course in modern logic begins with a discussion of the logical properties of natural language, and proceeds to a formal treatment of the sentential calculus and the theory of qualification. It will provide the student with a broad grounding in basic formal reasoning.

Required Texts:

Bergmann, Moor, and Nelson, *The Logic Book,* (McGraw-Hill, 1998)

Homework and Exams:

Twelve homework assignments will be due in class on specific dates. Late homework will only be accepted in cases of legitimate excuse. If you must be away from class on the day homework is due, arrange to have another student deliver your homework, or deliver it early yourself. There will be three exams, each will be equally weighted at 25%, for a total of 75% of the student's final grade. Make-up exams will only be given in cases of legitimate excuse, such as documented illness.

Grading Policy:

The two lowest homework grades for each student will be dropped. The remaining ten homework grades will be averaged to determine the student's overall homework grade. This overall grade will be worth 25% of the student's final grade. The remaining 75% of the student's final grade will be based on three exams.

Attendance:

Class attendance is mandatory. Students who have poor attendance records will find their final grade reduced by as much as one-half of a letter grade. Hose with exemplary attendance will find their final grade increased by a similar amount.

Class Schedule: (Subject to revision – each student is responsible for any changes announced in class)

Part One:	Arguments and Logical Properties.	Sections 1.1 – 1.7.
Part Two:	Symbolization and connectives of Sentential Logic.	Sections 2.1 – 2.4.
Part Three:	Truth Tables in Sentential Logic.	Sections 3.1 – 3.6.
Part Four:	Derivations in Sentential Logic.	Sections 5.1 – 5.5.
Part Five:	Symbolization in Predicate Logic.	Sections 7.1 – 7.9.
Part Six:	Derivations in Predicate Logic.	Sections 10.1 – 10.6.