

Philosophy 220
Logic
Fall 2009

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Opening Prayer

O Ineffable Creator, true Fountain of light and wisdom, shed the brightness of Thy light upon the darkness of my understanding. Grant me acuteness in understanding what I read, power to remember it, readiness in learning it, subtlety in interpreting it, and clearness in expressing it. Order the beginnings of my work, direct its progress, and bring it to fulfillment, through Christ our Lord. Amen.

—St. Thomas Aquinas

Course Books

Harry J. Gensler, *Introduction to Logic*

Grading

Grading will be on the basis of the following items:

Participation & Attendance	10%
Homework	15%
Three Examinations	75%

Students are expected to attend every class meeting. Excessive unexcused absences will count against the final grade. Students must bring university-approved and other excusable absences to the attention of the instructor.

Students with influenza symptoms (temperature of 100° or greater accompanied by a cough or sore throat) should stay home from classes

and minimize their contact with other people from the onset of symptoms until at least 24 hours after their fever has returned to normal without the use of fever-reducing medicine.

Students unable to attend classes due to influenza should consult the university's pandemic web site and complete the on-line form informing professors of their absence.

<http://www.stthomas.edu/pandemic/plan/default.html>

Lecture notes for material not covered in the required textbook will be available on the course web-site. Students who miss class due to illness are encouraged to make an appointment with the instructor as needed to review material covered during classes they were unable to attend.

In the event of a serious outbreak of influenza on campus, other adaptations to the usual method of instruction will be made, as appropriate.

Homework must be turned in by the day of the examination over the homework material unless otherwise assigned.

Examinations will consist mostly of problems, but may include some definitions and short-answer questions as well.

The ordinary penalty for plagiarism or other forms of cheating will be a course grade of "F".

Course grades will be assigned on the basis of the percent of possible points earned in accordance with the following schedule:

A	90 – 100%
B	80 – 90%
C	70 – 80%
D	60 – 70%
F	< 60%

("Plus" and "minus" may be attached to grades at the discretion of the instructor.)

Schedule of Topics & Assignments

DATE	TOPIC	READING	EXERCISES
10 Sep	What is Logic?		
15 Sep	Validity Stoic Logic Forms Disjunctive Syllogisms Hypothetical Syllogisms	Lecture Notes Gensler, ch. 3: sections 1, 8–9	G 3.1 G 3.8
17 Sep	Chain Arguments Dilemmas	Lecture Notes	
22 Sep	Derivations: Principles Three Basic Kinds Direct Proof Indirect Proof Conditional Proof	Gensler, ch. 3: sections 10–13 Gensler, ch. 4: sections 1–2	G 3.10-13 G 4.2
24 Sep	Multiple Assumptions	Gensler, ch. 4: sections 4–5	G 4.5b
29 Sep	Refutation	Gensler, ch. 2: sections 2–3 Gensler, ch. 4: section 3 Carroll, “What the Tortoise Said to Achilles” (WWW)	G 3.3 G 4.3b
1 Oct	EXAMINATION (STOIC LOGIC)		
6 Oct	Aristotelian Logic Terms Predicables & Categories	Lecture Notes Aristotle, selection from <i>Categories</i> & <i>Topics</i>	
8 Oct	Division	Lecture Notes	

DATE	TOPIC	READING	EXERCISES
13 Oct	Definition Propositions AEIO Propositions	Lecture Notes Gensler, ch. 14 Plato, <i>Euthyphro</i> Carroll “Humpty Dumpty” (WWW)	
15 Oct	Logical Relations Opposition Conversion	Lecture Notes	
20 Oct	Categorical Syllogisms Figure, Mood & Validity 1st Figure Syllogisms 2d & 3d Figures	Lecture Notes	
22 Oct	Invalidity	Lecture Notes	
27 Oct	Probable Reasoning: Analogy Retroduction	Gensler, ch. 13.1-6 Gensler, ch. 13.7-9 Sacrobosco, <i>Tractatus on the Sphere</i> (WWW) Čapek, “The Fall of the House of Voticky” in <i>Tales from Two Pockets</i> , pp. 102- 111 (Library Reserve)	
29 Oct	Using Logical Forms Disputation	Lecture Notes	
3 Nov	EXAMINATION (ARISTOTELIAN LOGIC)		
5 Nov	Disputation		
10 Nov	Analysis		
12 Nov	Disputation or Analysis		
17 Nov	Analysis		
19 Nov	The Predicate Calculus Quantifiers— Translation Derivation	Gensler, ch. 5: section 1–2	G 5.1–2

DATE	TOPIC	READING	EXERCISES
24 Nov	Multiple Quantifiers Translation	Gensler, ch. 5: section 4	G 5.4
1 Dec	Derivations (con'd.)	Gensler, ch. 5: section 5	G 5.5
3 Dec	Identity Translation	Gensler, ch. 6: section 1	G 6.1
8 Dec	Derivation Other Relations Translation	Gensler, ch. 6: section 2–3	G 6.2b G 6.3
10 Dec	Derivation	Gensler, ch. 6: section 4	G 6.4b
15 Dec	EXAMINATION (ARGUMENT CONSTRUCTION & ANALYSIS; PREDICATE CALCULUS) at 1330–1530		