PHIL 2200 - Deductive Logic - Fall 2016 - syllabus

Welcome to PHIL 2200, Deductive Logic! Logic is first and foremost a science of *validity*, or what follows from a given batch of information. It is a *formal* science, which means that symbols are used in accordance with a set of strict rules (like algebra). In this class, we'll be learning the basics of this formal science; I plan also to teach you something about the history of logic and the ways in which it can be applied.

The text for the course is right here:

[forallx.pdf](#)

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Grades: All told, with assignments, quizzes, and the final exam, there are 700 points available in the class. In theory, grades will be assigned along a standard curve: A = 700-658; A- = 657-630; B+ = 629-609; B = 608-588; B- = 587-560; C+ = 559-539; C = 538-518; C- = 517-490; D+ = 489-469; D = 468-448. I promise not to assign grades on a scale more severe than this, but I may make the curve more generous, depending on how everyone is doing. An update will be given mid-semester.

Contact information for the instructor: Charlie Huenemann, Main 208, phone 797-0254; office hours 10-12 on Wednesdays, but I'm also generally available on T/W/Th, and by appointment, email charlie.huenemann@usu.edu. I'm always happy to meet with you - really, I'm a friendly and encouraging fellow who enjoys talking with students - so please feel welcome to knock on my door. I have a blog if you are interested: huenemanniac.wordpress.com (Links to an external site.). Also, on the subject of blogs, you may wish to check out usuphilosophy.com (Links to an external site.) to stay abreast of local philosophical happenings.

Cheating. In class - as in life - never try to pass off someone else's work as your own. I'm completely intolerant of this kind of intellectual theft; it's a cardinal sin of the academy.

Lateness in turning in work: generally there should be none, but life packs surprises, and sometimes work has to be delayed. Be mature about this, and talk to me about it. If you need an alternative exam time, or need some alternative exam arrangement due to disability, please let me know, and we'll work something out.

Day by day readings, assignments, homework, quizzes, topics for PHIL 2200 (Logic)

Date	Topic	Reading and homework (here's what should be done for that day)
8/30	Introduction: what is logic?	none
9/1	Arguments, sentences, validity	read *forallx* chapter 1
9/6	Logical connectives, wffs, parentheses	read *forallx* chapter 2; do exercises B & E (**turn in**) (35 pts)
9/8	Truth tables	read *forallx* chapter 3, 3.1-3.3
9/13	Partial truth tables	read *forallx* chapter 3, 3.4; do evens only in exercises A & B & C
9/15	Partial truth tables for validity Also: *truth trees* (presented in class)	Exercise given in class on 9/13 (**turn in**) (35 pts)
9/20	**Quiz #1**	
9/22	Quantified logic: singular terms and predicates	read *forallx*, 4.1-4.2; do exercise A 1-4, and exercise C 1-3
9/27	Quantified logic: quantifiers	read *forallx*, 4.3, up to p. 66 ("Multiple quantifiers"); do exercise A 5-15
9/29	More work with quantifiers	do exercise C 4-13 (**turn in**) (50 pts)
10/4	Even more work with quantifiers: multiple quantifiers!	read *forallx*, pp. 66 to 76 (the rest of chapter 4); do exercise G
10/6	catch-up day; more practice with quantifiers	none
10/11	**Quiz #2**	
10/13	Semantics I	read *forallx*, 5.1 & 5.2; do exercises A and B
10/18	Semantics II	read forallx, 5.3-5.5; do exercise E (4-6) and exercise

		H (evens only) (**turn in**) (55 pts)
10/20	No class - Friday schedule	
10/25	Studying some philosophical arguments	none
10/27	Studying some more philosophical arguments	none
11/1	Proofs I	read *forallx* 6.1 - 6.3; note the "Basic Rules of Proof" at the end of *forallx*
11/3	Practice with proofs in sentential logic	Exercise given in class on 11/1 (**turn in**) (35 pts)
11/8	More practice	do exercises A and B (**turn in**)
11/10	Proofs II	read *forallx* 6.4-6.9
11/15	Practice with proofs in quantified logic	(exercises given in class)
11/17	More practice	do exercise L (**turn in**) (70 pts)
11/22	**Quiz #3**	
	Thanksgiving break	
11/29	Applications 1	none
12/1	Applications 2	given in class
12/6	Applications 3	given in class
12/8	Applications 4	given in class
12/13	**Final exam, 11:30, in Engineering 104**	