

PHIL 2200 - Deductive Logic - Spring 2017 - syllabus
Professor Charlie Huenemann

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: In theory, grades will be assigned along a standard scale: A = 93%-100%; A- = 90-92; B+ = 87-89; B = 83-86; B- = 80-82; C+ = 77-79; C = 73-76; C- = 70-72; D+ = 67-69; D = 60-66. 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.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) |
|------|--|---|
| 1/10 | Introduction: what is logic? | none |
| 1/12 | Arguments, sentences, validity | read <i>forallx</i> chapter 1 |
| 1/17 | Logical connectives, wffs, parentheses | read <i>forallx</i> chapter 2; do exercises B & E (turn in) (34 pts) |
| 1/19 | Truth tables | read <i>forallx</i> chapter 3, 3.1-3.3 |
| 1/24 | Partial truth tables | read <i>forallx</i> chapter 3, 3.4; do evens only in exercises A & B & C |
| 1/26 | Partial truth tables | Exercise given in class on 1/24 (turn in) (20 pts) |
| 1/31 | True/False questions about logical concepts | nothing |
| 2/2 | Quiz #1 | on chapters 1-3 |
| 2/7 | Quantified logic: singular terms and predicates | read <i>forallx</i> , 4.1-4.2; do exercise A 1-4, and exercise C 1-3 |
| 2/9 | Quantified logic: quantifiers | read <i>forallx</i> , 4.3, up to p. 66 ("Multiple quantifiers"); do exercise A 5-15 |
| 2/14 | More work with quantifiers | do exercise C 4-13 (turn in) (20 pts) |
| 2/16 | Even more work with quantifiers: multiple quantifiers! | read <i>forallx</i> , pp. 66 to 76 (the rest of chapter 4); do exercise G (turn in) (24 pts) |
| 2/21 | no class; follow Monday schedule | none |
| 2/23 | work day with quantifiers | none |
| 2/28 | Quiz #2 | on chapter 4 |
| 3/14 | Semantics I | read <i>forallx</i> , 5.1 & 5.2; do exercises A and B |

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| 3/16 | Semantics II | read <i>forallx</i> , 5.3-5.5; do exercise E (4-6) and exercise H (evens only) (turn in) (33 pts) |
| 3/21 | Philosophical application: "Anselm and Actuality" | none |
| 3/23 | "Anselm and Actuality," cont.'d | none |
| 3/28 | Proofs I: sentential logic | read <i>forallx</i> 6.1 - 6.3; note the "Basic Rules of Proof" at the end of <i>forallx</i> |
| 3/30 | Practice with proofs in sentential logic | Exercise given in class on 3/28 (turn in) (20 pts) |
| 4/4 | More practice | do exercises A and B (turn in) |
| 4/6 | More practice | |
| 4/11 | Quiz 3 | |
| 4/13 | Proofs II: quantified logic | read <i>forallx</i> 6.4-6.9; turn in exercise C (all) (40 pts) |
| 4/18 | Practice with proofs in quantified logic | (exercises given in class) |
| 4/20 | More practice | |
| 4/25 | More practice | |
| 4/27 | More practice | |
| 5/2 | Final exam, 3:30, in Main 115 | |