Phil. 5333 A, Logic, Fall 2016, Strake 206
MW 12:10-1:15.
Problem Tutorial: time to be determined.
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Office Hours: M – F 11-12 noon, and by appointment

Objectives of Course:
(1) To learn the theories and doctrines involved in the Aristotelian, verbal conception of logic. This is logical theory or the 'science' of logic.
(2) To learn how to apply Aristotelian logical theories to actual logical problems, both text-book problems and the logic of real discourse. This is the 'art' or 'craft' of logic, and is the focus of the course.
(3) To learn how to connect logic with grammar and rhetoric in oral and written discourse.
(4) To apply logic to your own thought, speech, and writing, in school and out.

Requirements:
1. Two tests during the semester, each worth 25% of semester grade.
2. Cumulative final Examination, worth 25% of semester grades.
3. Problems: quizzes, homework, and class participation, altogether worth 25%.

Please Note: Scheduled quizzes, pop quizzes, and homework assignments CANNOT be turned in late and they CANNOT be made up. Your two lowest quiz or homework grades will be dropped when computing your grade for (3) above.

The instructor reserves the right to adjust your final average upward (but not down) by up to 3%, based on class participation and especially improvement during the semester.


Special accomodations: Accommodations for special circumstances—both formal accommodations authorized by UST and informal accomodations—must be arranged in the first week of class.


Consultation Texts on Reserve in the Library:

Read = required reading assignments; you should do this reading before class.
HW = homework exercises. You should do them before class. Sometimes you will be asked to turn in your homework at the beginning of class, at other times in-class quizzes will be given, and at other times you will be asked questions in class which you must answer orally. All turn-in homework assignments must be printed in hard copy and turned in at the beginning of class. Homework and quiz assignments will not be accepted via email or other electronic media; and they will not be accepted late for any reason. Missed work is accommodated by dropping the two lowest quiz/homework grades. Please do not ask for other specia
PS = Problem Set
Part 1: Grammar, Rhetoric, and Logic

22 Aug: Introduction to Logic; Grammar
Read:  R & R: Prologue: Logic and the Liberal Arts
HW:  PS 1: Grammar Review

24 Aug: Rhetoric: An Introduction: 3 kinds of persuasive discourse: 5 parts of a persuasive speech
Read:  R & R: Lesson 2, “Rhetoric: An Introduction”
       R & R: Lesson 3: The Canon of Five Rhetorical Skills and the Five Parts of a Speech
HW:  PS 2: Gorgias, *Encomium of Helen*
     PS 3: Rhetorical Analysis of Plato, *Apology of Socrates*

29 Aug: Rhetoric: Persuasive Discourse: the Three Appeals
Read:  R & R: Lesson 4, “Rhetoric: the Three Appeals”
HW:  PS 4: Identifying the three appeals

31 Aug: Transition to Logic
Read:  R & R: Lesson 5: Aristotle Invents Logic
       R & R: Lesson 6: the Logic of Discovery and Proof
       R & R: Lesson 7: Language, Thought, and Reality
HW:  PS 4: Turn-in homework on 3 appeals.
     PS 5: Logic as problem solving
     PS 6: Identifying arguments, propositions, and terms
     PS 7: Kinds of Signs

5 Sep: Labor Day holiday

Part 2: The Logic of Terms

7 Sep: Working toward Definitions: Answering the ‘What?’ Question: Categories
Read:  R & R: Lesson 8: “Working toward Definitions: Answering the ‘What?’ Question: Categories”
HW:  PS 8: Recognizing and Using Categories

12 Sep: Working toward Definitions: the Predicables
Read:  R & R: Lesson 9, Predicables
     PS 9: Recognizing Essence, Property, and Accident

14 Sep: Working toward Definitions: Causes
Read:  R & R: Lesson 10: Answering the “Why?” Question: Causes
HW:  PS 8 & 9: Turn in HW on categories and predicables.
     PS 10: Recognizing the four causes

19 Sep: Types of Definitions: Logical, Causal, Descriptive
Part 3: The Logic of Propositions

21 Sep: Statements and Propositions
Read: R & R Lesson 12: Statements and Propositions
HW: PS 11: Turn in homework on different types of definitions.
HW: PS 12: Distinguishing different kinds of propositions

26 Sep: Properties of Categorical Propositions
Read: Lesson 13: Properties of Categorical Propositions
HW: PS 13: Distinguishing four kinds of categorical propositions: A, I, E, O

28 Sep: Recognizing Kinds of Categorical Propositions
Read: R & R Lesson 14: Recognizing Kinds of Categorical Propositions
HW: PS 13: Turn in HW on recognizing A, I, E, O propositions.
HW: PS 14: Advanced categorical propositions

3 Oct: Identifying Categorical Propositions in prose passages
Read: R & R Lesson 15: Categorical Propositions in context
HW: PS 15: Propositions in Context

5 Oct: Euler and Venn Diagrams of Propositions
Read: R & R Lesson 16: Euler and Venn Diagrams of Propositions
HW: PS 15: Turn in HW on finding categorical propositions in prose passages.
   PS 16: Using Euler and Venn Diagrams to picture categorical propositions

10 Oct: Columbus Day Holiday

12 Oct: First Test

17 Oct: Opposition
Read: R & R Lesson 17: “Opposition”
HW: PS 17: Using the Classical Square of Opposition

19 Oct: Conversion and Obversion
Read: R & R Lesson 18: Conversion
   R & R Lesson 19: Obversion
24 Oct: Hypothetical Propositions  
Read: R & R Lesson 20, “Hypothetical Propositions”  
HW: PS 18 & 19: Turn in homework on converting and obverting propositions.  
HW: PS 20: Recognizing and symbolizing hypothetical propositions

26 Oct: Advanced Hypothetical Propositions  
Read: R & R Lesson 21, “Advanced Hypothetical Propositions”  

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**Part 4: The Logic of Arguments**

31 Oct: Beginning Reasoning  
Read: R & R Lesson 22: Distinguishing inductive and deductive reasoning  
R & R Lesson 23: Categorical Syllogism  
HW: PS 22: Distinguishing deductive and inductive reasoning  
HW: PS 23: Identifying the logical structure of categorical syllogisms

2 Nov: Rules for the Validity of Syllogisms  
Read: R & R Lesson 24: Validity of Categorical Syllogisms  
HW: PS 24: Using the Rules to determine validity of categorical syllogisms

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7 Nov: Categorical Syllogisms in Prose  
Read: R & R Lesson 25: Categorical Syllogisms in Prose  

9 Nov: Venn Diagrams for Categorical Syllogisms  
Read: R & R Lesson 26: Venn Diagrams of Categorical Syllogisms  
HW: PS 25: Turn in homework on validity of categorical syllogisms in prose.  
HW: PS 26: Venn Diagrams of Categorical Syllogisms

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14 Nov: Enthymemes and Epicheiremas  
Read: R & R Lesson 27: Enthymemes and Epicheiremas  
HW: PS 26: Turn in homework on Venn diagrams of categorical syllogisms  
PS 27: Recognizing Enthymemes and Epicheiremas

16 Nov: Longer Categorical Arguments  
Read: R & R Lesson 28: Extended Categorical Arguments
HW: PS 27: Turn in homework on putting enthymemes and epicheiremas into standard form and determining validity.
   PS 28: Longer Categorical Arguments

21 Nov: **Second Test**

23 Nov: Thanksgiving Holiday

28 Nov: Hypothetical Arguments
Read: R & R Lesson 29: Hypothetical Arguments
HW: PS 29: Hypothetical Arguments

30 Nov: Advanced Hypothetical Arguments
Read: R & R Lesson 30: Advanced Hypothetical Arguments
HW: PS 29: Turn in homework on symbolizing hypothetical arguments.
    PS 30: Standardized Test Style Arguments

5 Dec: Induction and Complex Arguments
Read: R & R Lesson 31: Induction
    R & R Lesson 32: Complex Arguments
HW: PS 31: Distinguishing deductive and inductive arguments. Turn in homework.
    PS 32: Complex arguments, including both deduction and induction. Classroom work.

Comprehensive Final Examination: 14 Dec: 11am to 1:30pm.