Course ID: Ph 421  
Course Title: Logic  
Units 2

Course Time: MF 10-10:50  
Course Location: Philosophy Library, Room 2

Instructors:
Dr. Alan Vincelette  
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Course Description:
Study of the logic of classical logic including definitions, categorical propositions, syllogisms, truth tables, and fallacies, and modern logic including Mill’s methods, predicate logic, modal logic, the scientific method, and the linguistic analysis of names, descriptions, concepts, and statements.

Required Texts:

WEEK ONE
Class 1 Monday August 26
Argumentation (Herrick, Chapters 1-2, Kenny, Book 1, Chapter 3 (pp. 95-117), Daurio)

Class 2 Friday August 30
Definition (Herrick, Chapter 31, Daurio)

WEEK TWO
Monday September 2 Labor Day no classes

Class 3 Friday September 6
Aristotelian Logic (Terms; Conversion; Square of Opposition) (Herrick, Chapter 7, Daurio)

WEEK THREE
Class 4 Monday September 9
Aristotelian Logic (Categorical Syllogisms) (Herrick, Chapter 8, Daurio)

Class 5 Friday September 13
Aristotelian Logic (Categorical Syllogisms)

WEEK FOUR
Class 6 Monday September 16
Aristotelian Logic (Informal Fallacies) (Herrick, Chapter 32, Vincelette)

Class 7 Friday September 20
Aristotelian Logic (Informal Fallacies); Quiz 1

WEEK FIVE
Class 8 Monday September 23
Aristotelian Logic (Informal Fallacies)
Class 9 Friday September 27
Aristotelian Logic (Informal Fallacies)

WEEK SIX
Class 10 Monday September 30
Stoic Logic (Herrick, Chapters 10-11, Vincelette)

Class 11 Friday October 4
Stoic Logic (Herrick, Chapters 16-17, Vincelette)

WEEK SEVEN
Class 12 Monday October 7
Stoic Logic (Truth Tables); Quiz 2

Class 13 Friday October 11
Medieval Logical Puzzles (Kenny, Book 2, Chapter 3 (344-374))

WEEK EIGHT
Class 14 Monday October 14 (Midterm Week)
Scientific Logic (Mill’s Methods; Induction) (Herrick, Chapters 3 and 33, Daurio)

Class 15 Friday October 18 (Midterm Week)
Scientific Logic (Mill’s Methods; Induction); Quiz 3

WEEK NINE
Class 16 Monday October 21
Scientific Logic (Hypothetico-Deductive Method) (Anthony, Daurio)

Class 17 Friday October 25
Critical Analysis of Scientific Reports and Articles (Vincelette)

WEEK TEN
Class 18 Monday October 28
Predicate Logic (Herrick, Chapters 23-24, 30, Vincelette)

Friday Nov 1 Day of Recollection no classes

WEEK ELEVEN
Class 19 Monday November 4
Predicate Logic (Kenny, Book 4, Chapter 4 (pp. 829-847), Vincelette)

Class 20 Friday November 8
Predicate Logic

WEEK TWELVE
Class 21 Monday November 11
Predicate Logic

Class 22 Friday November 15
Predicate Logic
WEEK THIRTEEN
Class 23 Monday November 18
Modal Logic (Herrick, Chapter 35, Daurio)

Class 24 Friday November 22
Modal Logic; Quiz 4

WEEK FOURTEEN
Class 25 Monday November 25
Metalogic (Herrick, Appendix B-C, Vincelette)

Friday November 29 Thanksgiving Break

WEEK FIFTEEN
Class 27 Monday December 2
Metalogic

Class 28 Friday December 6 last day of classes
Metalogic

FINAL EXAMS WEEK
Monday December 9, or Friday December 16, Monday December 16
Quiz

Grading Criteria
May include but are not limited to
Quizzes (5) (20% ea)
In class activities

Course Goals (student competence)

- Students will be competent in critical questioning and analysis.
- Students will be alert to departures from sound reasoning.
- Students will know how detect hidden assumptions.

Course Objectives (course content)

- Student read and follow use some different step-by-step analyses of logic problems
- Students will study the changes from ancient to medieval, and from medieval to modern logic.

Student Learning Outcomes (student abilities)

By the end of the course the successful student will be able to
- Explain the basics of Aristotelean, medieval and modern logic, including truth tables and predicate logic
- Understand scientific reasoning
- detect and avoid fallacies, give clear definitions, and apply these to theology