Philosophy 201: Introduction to Logic

Instructor: Evan Kalkus
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I. Class Location and Meeting Times

-The class meets on the Livingston Campus in Tillett Hall, Room 230.
-The class will meet two times a week:
  -Monday, 7th period (6:40 p.m. - 8:00 p.m.)
  -Wednesday, 7th period (6:40 p.m. - 8:00 p.m.)

-Office hours will be held on Wednesdays, 1:00 p.m - 3:00 p.m.
  -Office hours will be held in the Psychology building (Busch Campus).
  -Those seeking consultation during regular office hours need to email me before 12:00 p.m. on the given Wednesday.
  -Those seeking consultation who cannot show up during regular office hours need to email me to schedule an appointment for another time during the week. I will try to be flexible, but cannot make any guarantees.

II. Course Description

-This course is an introduction to symbolic logic. Logic is the study of correct reasoning and symbolic logic studies reasoning using formal languages. We will begin with propositional logic. Propositional logic will enable us to represent various connective terms that will allow us to evaluate various inferences. We will focus on determining the validity of arguments and the processes involved in derivations. Then, we will turn to predicate logic. Predicate logic subsumes propositional logic, but affords us additional tools to both represent terms such as “something” and “everything” and evaluate inferences.

III. Course Materials

  -Accessible at http://tellerprimer.ucdavis.edu/pdf/
  -I will be uploading or sharing with you the relevant documents, including the textbook.
  -If you would like to have a hard copy of the book for use, you can purchase one through Amazon (though there may be limited copies, given its free accessibility).
IV. Tentative Schedule

-The plan is to cover the material in an effective and timely manner, so this schedule may be adjusted to account for difficult subjects or unpredicted circumstances (weather, alien invasions, etc.), thus flexibility is key.
-Readings will be done for the first class of the week (usually Monday, but be prepared to have the readings done if our class only meets on the Wednesday of that week).
-Assignments will be done for class on Wednesday.

<table>
<thead>
<tr>
<th>SCHEDULE</th>
<th>Subject</th>
<th>Reading</th>
<th>Assignments</th>
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<tbody>
<tr>
<td>Week 1</td>
<td>Introduction to Arguments</td>
<td>(Vol. I) Chpt. 1-1, 1-2</td>
<td>None</td>
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<td>Week 2</td>
<td>Connectives and Transcription</td>
<td>(Vol. I) Chpt. 1-3, 1-4, 1-5, 1-6, 4-4, 4-5</td>
<td>Ex. 1-4, 1-5, 1-6, 4-6</td>
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<td>Week 3</td>
<td>Connectives and Transcription</td>
<td>(Vol. I) Chpt. 2-1, 2-2, 2-3</td>
<td>Ex. 2-1, 4-8</td>
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<td>Week 4</td>
<td>Truth Tables and Validity</td>
<td>(Vol. I) Chpt. 4-1, 4-2</td>
<td>Ex. 4-2, 4-5</td>
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<td>Week 5</td>
<td>Truth Trees for Propositional Logic</td>
<td>(Vol. I) Chpt. 8-1, 8-2, 8-3, 8-4, 8-5,</td>
<td>Ex. 8-1, 8-3, 8-4</td>
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<td>Week 6</td>
<td>Truth Trees for Propositional Logic</td>
<td>(Vol. I) Chpt. 9-1, 9-2</td>
<td>Ex. 9-2</td>
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<td>Week 7</td>
<td>Natural Deduction for Propositional</td>
<td>(Vol. I) Chpt. 5-1, 5-2, 5-3</td>
<td>Ex. 5-1, 5-2, 5-4</td>
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<td>Week 8</td>
<td>Natural Deduction for Propositional</td>
<td>(Vol. I) Chpt. 6-1, 7-1, 7-2, 7-3, 7-4</td>
<td>Ex. 6-1, 6-3, 7-1, 7-4</td>
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<td>Week 9</td>
<td>Exam I</td>
<td>Review</td>
<td>Review</td>
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<td>Week 10</td>
<td>Predicate Syntax and Transcription</td>
<td>(Vol. 2) Chpt. 1-1, 1-2, 1-3, 4-2, 4-3</td>
<td>Ex. 1-4, 1-5, 4-4, 4-7</td>
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<td>Week 11</td>
<td>Truth Trees for Predicate</td>
<td>(Vol. 2) Chpt. 7-1, 7-2, 7-3, 7-4</td>
<td>Ex. 7-1, 7-2, 7-3, 7-4</td>
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<td>Week 12</td>
<td>Truth Trees for Predicate</td>
<td>(Vol. 2) Chpt. 8-1, 8-2</td>
<td>Ex. 8-8</td>
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<td>Week 13</td>
<td>Natural Deduction for Predicate</td>
<td>(Vol. 2) Chpt. 5-2, 5-3, 5-4, 5-5, 5-6</td>
<td>Ex. 5-1, 5-2, 5-5, 5-7</td>
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<td>Week 14</td>
<td>Natural Deduction for Predicate</td>
<td>(Vol. 2) Chpt. 6-1, 6-2</td>
<td>Ex. 6-2, 6-7</td>
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<td>Week 15</td>
<td>Exam II</td>
<td>Review</td>
<td>Review</td>
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V. Assessments

-Class Participation (20%)
  -Attendance
    -As a prerequisite of any participation credit, attendance is a must. I will note when you do not show up to class.
    -If you need to miss a class (illness, family emergency, etc.) use the correct procedures through Rutgers so that your bases are covered, and send me an email as well. Be prepared for class.
    -Your participation grade will be reduced half of a letter grade (A to B+, B+ to B, B to C+, etc.) for every unexcused absence at the end of the course, and three tardies will result in an unexcused absence.
    -Bring all relevant materials, including the textbook (either printed or electronic), a notebook, and a pencil.

-Assignments
  -Assignments will be partially completed in class. There are many, many problems assigned, and I do not expect all to be completed. I do not expect your answers to all be correct. I do expect a thorough attempt at working through the material, as it will be detrimental to your success in this course if you do not put forth a solid effort on the assignments. If you are putting in considerable effort both in class and out of class on the assignments, but feel as though you are falling behind, please come see me during office hours, or at the very least, let me know via email or after class.
  -You will be asked to present problems to the class. Everyone will present problems over the semester, and if I get the sense that your effort and participation is lacking, I will be more inclined to call on you to present. If you are worried about being embarrassed, that is alright. We all make mistakes, and that is one of the best ways to learn.
  -You will be asked to submit a problem from the assignments with a group or partner for the second class of each week (with the exception of Week 1, Week 8, Week 9, Week 14, and Week 15), and in this case, you will be graded on correctness.

-Quizzes (30%)
  -Quizzes will occur weekly, starting in Week 3, on the second class of the week, and they will cover the material from the readings, first class of the week, and the assignments from the week. Your lowest quiz grade will be dropped at the end of the course. If you miss a quiz, you can make it up during office hours before the next quiz, or in conjunction with the next quiz. If you miss both of those opportunities, you will forfeit a quiz grade.

-Exams (50%)
  -Exams will occur during the 9th and 15th week of the semester. The first will cover all material from the first eight weeks, and the second will be cumulative, covering all of the relevant course material. Exams cannot be retaken. Exceptional circumstances that lead to missing an exam must be documented. You will then have one week to schedule a time to take the exam. If an exam is missed for nonexceptional circumstances, you will forfeit said exam grade.
- *Grade Calculation*
  - Class Participation (20%)
    - Attendance
    - Assignments
      - Total of 10 problems graded
  - Quizzes (30%)
    - Total of 11 quizzes taken, only 10 graded
  - Exams (50%)
    - Total of 2 exams taken

Your grade will be determined by the following grading scale:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>A</td>
<td>100% - 90%</td>
</tr>
<tr>
<td>B+</td>
<td>89% - 87%</td>
</tr>
<tr>
<td>B</td>
<td>86% - 80%</td>
</tr>
<tr>
<td>C+</td>
<td>79% - 77%</td>
</tr>
<tr>
<td>C</td>
<td>76% - 70%</td>
</tr>
<tr>
<td>D</td>
<td>69% - 60%</td>
</tr>
<tr>
<td>F</td>
<td>59% - 0%</td>
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</table>

**VI. Sakai Site**

-The course will have a Sakai site. I will post all relevant documents and you will also be able to keep track of your grade. Additionally, I will post announcements and updates on this page. You can check the Sakai site for this information, but an email will also be sent to you when any information is added to the site. I will not be posting lecture notes. You will be required to take notes of the material, or in case of missed classes, review the notes of a classmate.

**VII. Class Structure**

-The course will have two distinct styles of class: first class of the week (generally Monday) and second class of the week (generally Wednesday).
  - First class of the week
    - The weekly reading is due for this class
    - The reading material will be covered by a brief lecture
    - If time permits, weekly assignments will be worked on
  - Second class of the week
    - The weekly assignments are due for this class
    - Assignments will be presented
    - Quizzes will be taken

-Class will be divided into groups or partners for assignments during class. You are permitted, and encouraged, to work with each other outside of class time as well. Each group or pair will be given a miniature dry-erase board to complete problems and it will serve as both a presentation board, and how you complete and submit your weekly assignment.
VIII. Final Note

-I understand what it is like to be a busy student. However, that does not entitle you to any unwarranted excuses or poor effort. Your education is costing someone a significant amount of money, so this is your opportunity to make it count. Show up to class, put in the work, and learn.

-Do not hesitate to contact me about anything related to the course. I will do what I can to help.